PM-TECH

# FRÉZY PRO OBRÁBĚNÍ OCELÍ

Ceník platný od 1. 1. 2022

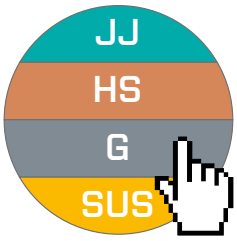
9112-WEB-220117

# INTERAKTIVNÍ PRVKY

### Vhodný prohlížeč

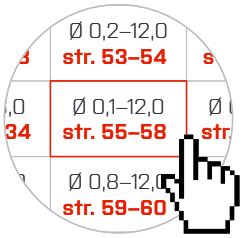
Pro správnou funkci interaktivních prvků doporučujeme k prohlížení katalogu používat program ADOBE READER

Pro snažší orientaci a vyhledávání má katalog následující interaktivní prvky:




### Série fréz v obsahu

Kliknutím na barevné označení série v hlavičce obsahu se dostanete na její první stránku ve výpisu katalogu




### Čísla stránek v obsahu

Pro rychlou navigaci na vybranou kategorii produktů klikněte v obsahu na příslušnou buňku tabulky s číslem stránky

### Zpět na obsah z katalogu

Ze kteréhokoliv místa katalogu se snadno dostanete na obsah kliknutím na červené tlačítko „zpět na obsah“ u horního okraje stránky

### Odkazy v zápatí stránky

Pokud máte jakékoli dotazy nebo vás zajímají další naše produkty, stačí kliknout na naši e-mailovou adresu, webovou adresu nebo na logo dole na stránce

# OBSAH

**NA KATALOGOVÝCH LISTECH JSOU OZNAČENY**

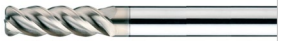
ZELENĚ = NOVÉ POLOŽKY

| Typ | Obrázek | Poznámka | Počet břitů | Série fréz pro obrábění ocelí | | | |
|---|---|---|---|---|---|---|---|
| | | | | 52-68 HRC | 50-62 HRC | ≤ 52 HRC | NEREZ |
| | | | | JJ | HS | G | SUS |
| | | | | 0,2 µm–VHM | 0,2 µm–VHM | 0,5 µm–VHM | 0,2 µm–VHM |
| | | | | TiSiN-S | TiSiN | AlCrN | AlCrN, TiSiN |
| Pro žebrování | | Kulové | 2 | Ø 0,1–12,0 str. 8–10 | Ø 0,1–12,0 str. 57–59 | Ø 0,1–12,0 str. 111–113 | |
| | | Kulové | 3 | Ø 1,0–12,0 str. 11 | | | Ø 1,0–12,0 str. 141 |
| | | Kulové–kuželové odlehčení | 2 | Ø 0,2–12,0 str. 12–15 | | | |
| | | Kulové–kuželové odlehčení | 3 | Ø 1,0–12,0 str. 16 | | | |
| | | Ostré | 2 | Ø 0,1–12,0 str. 17–19 | Ø 0,1–12,0 str. 60–62 | Ø 0,1–12,0 str. 114–115 | |
| | | Ostré | 4 | Ø 0,5–12,0 str. 20–21 | Ø 0,5–12,0 str. 63–64 | Ø 0,8–12,0 str. 116–117 | Ø 1,0–20,0 str. 142 |
| | | Toroidní | 2 | Ø 0,2–16,0 str. 22–26 | Ø 0,2–16,0 str. 65–69 | Ø 0,2–16,0 str. 118–121 | |
| | | Toroidní–kuželové odlehčení | 2 | Ø 1,0–4,0 str. 27–28 | | | |
| | | Toroidní | 4 | Ø 0,5–12,0 str. 29–33 | Ø 0,8–12,0 str. 70–74 | Ø 1,0–12,0 str. 122–125 | Ø 1,0–20,0 str. 143 |
| | | Toroidní | 6 | Ø 3,0–12,0 str. 34–35 | | | |
| | | Toroidní–kuželové odlehčení | 4 | Ø 1,0–4,0 str. 36 | | | |
| Kulové | | Krátké | 2 | Ø 0,1–12,0 str. 37 | Ø 0,1–12,0 str. 75 | Ø 0,2–12,0 str. 126 | |
| | | Standardní | 2 | Ø 0,1–14,0 str. 38 | Ø 0,06–20,0 str. 76–77 | Ø 0,1–20,0 str. 127 | |
| | | Ultrapřesné | 2 | | Ø 0,2–12,0 str. 78 | | |
| | | Standardní | 3 | Ø 1,0–12,0 str. 39 | Ø 1,0–12,0 str. 79 | | |
| | | Krátké | 4 | Ø 1,0–12,0 str. 40 | Ø 1,0–12,0 str. 81 | | |
| | | Standardní | 4 | Ø 1,0–20,0 str. 41 | Ø 1,0–20,0 str. 80 | | |
| | | Standardní 45° | 4 | | | | Ø 1,0–16,0 str. 144 |
| | | 230° | 2 | Ø 1,0–12,0 str. 42 | | | |
| | | 230° | 4 | Ø 1,0–12,0 str. 43 | | | |
| | | 270° | 4 | Ø 1,0–12,0 str. 44 | | | |

# OBSAH

**NA KATALOGOVÝCH LISTECH JSOU OZNAČENY**

ZELENĚ = NOVÉ POLOŽKY

| Typ | Obrázek | Poznámka | Počet břitů | Série fréz pro obrábění ocelí | | | |
|---|---|---|---|---|---|---|---|
| | | | | 52-68 HRC | 50-62 HRC | ≤ 52 HRC | NEREZ |
| | | | | JJ | HS | G | SUS |
| | | | | 0,2 µm–VHM | 0,2 µm–VHM | 0,5 µm–VHM | 0,2 µm–VHM |
| | | | | TiSiN-S | TiSiN | AlCrN | AlCrN, TiSiN |
| Ostré | | Krátké | 2 | | Ø 0,1–12,0 str. 82 | | |
| | | Standardní | 2 | Ø 0,03–20,0 str. 45 | Ø 0,05–20,0 str. 83–84 | Ø 0,1–20,0 str. 128–129 | |
| | | Dlouhé | 2 | | Ø 1,0–25,0 str. 85–86 | Ø 1,0–25,0 str. 130 | |
| | | Standardní 45° | 3 | | | | Ø 0,5–20,0 str. 145 |
| | | Krátké | 4 | | Ø 0,5–16,0 str. 87 | | |
| | | Standardní | 4 | Ø 0,3–20,0 str. 46 | Ø 0,3–20,0 str. 88 | Ø 0,8–20,0 str. 131 | |
| | | Dlouhé | 4 | | Ø 0,5–25,0 str. 89–90 | Ø 1,0–25,0 str. 132 | |
| | | Standardní 35° & 38° | 4 | | | | Ø 1,0–20,0 str. 146 |
| | | Standardní 42° | 4 | | | | Ø 1,0–20,0 str. 147–148 |
| | | 42° | | | | | Ø 3,0–20,0 str. 149 |
| | | Standardní 45° | 4 | Ø 1,0–20,0 str. 47 | Ø 1,0–25,0 str. 91 | Ø 1,0–20,0 str. 133 | |
| | | 45° | 6 & 8 | Ø 3,0–25,0 str. 48 | Ø 3,0–25,0 str. 92 | | |
| | | Hrubovací | 3 & 4 | | | Ø 4,0–20,0 str. 134 | |
| | | Hrubovací 45° | 3 & 4 & 5 | | | Ø 4,0–20,0 str. 135 | Ø 3,0–20,0 str. 150 |
| Toroidní | | | 2 | Ø 0,2–14,0 str. 49–50 | Ø 0,2–16,0 str. 93–95 | Ø 0,4–12,0 str. 136–137 | |
| | | | 4 | Ø 0,5–16,0 str. 51–52 | Ø 0,5–20,0 str. 96–97 | Ø 1,0–16,0 str. 138–139 | |
| | | 42° | 4 | | | | Ø 1,0–20,0 str. 151–152 |
| |  | Dlouhé 42° | 4 | | | | Ø 6,0–20,0 str. 153 |
| | | 45° | 4 | | Ø 1,0–20,0 str. 98 | | |
| | | 45° | 6 | Ø 3,0–16,0 str. 53 | Ø 5,0–16,0 str. 99 | | |
| | | Rychloposuvové 15° | 4 | Ø 1,0–16,0 str. 54 | Ø 1,0–16,0 str. 100 | | |
| | | Rychloposuvové 30° | 4 & 6 | Ø 1,0–16,0 str. 55 | | | |
| | | Trochoidní 35° | 5 & 6 | | | | Ø 6,0–20,0 str. 154 |
| | | 42° | 7 | | | | Ø 6,0–20,0 str. 155 |

# OBSAH

**NA KATALOGOVÝCH LISTECH JSOU OZNAČENY**

ZELENĚ = NOVÉ POLOŽKY

| Typ | Obrázek | Poznámka | Počet břitů | Série fréz pro obrábění ocelí | | | |
|---|---|---|---|---|---|---|---|
| | | | | 52-68 HRC | 50-62 HRC | ≤ 52 HRC | NEREZ |
| | | | | JJ | HS | G | SUS |
| | | | | 0,2 µm–VHM | 0,2 µm–VHM | 0,5 µm–VHM | 0,2 µm–VHM |
| | | | | TiSiN-S | TiSiN | AlCrN | AlCrN, TiSiN |
| Kuželové | | Kulové | 2 | | Ø 0,2–6,0<br>str. 101–102 | | |
| | | Kulové | 3 | | | Ø 1,0–6,0<br>str. 103 | |
| | | Ostré | 2 | | Ø 0,2–8,0<br>str. 104–105 | | |
| | | Ostré | 4 | | Ø 3,0–10,0<br>str. 106 | | |
| | | Pro žebrování | 4 | | Ø 0,5–2,5<br>str. 107–108 | | |
| Soudečkové | | | 4 & 6 | | | | Ø 1,0–8,0<br>str. 109 |

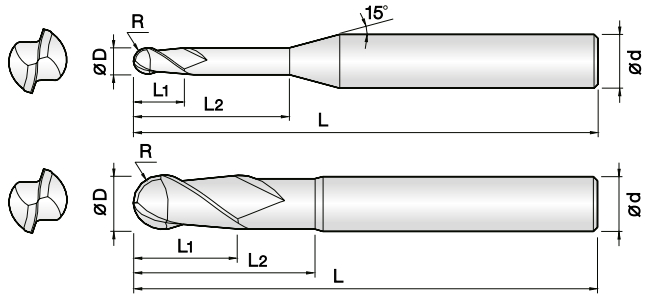
◀ zpět na obsah

# JJ

- Tvrdokovové frézy pro kalené oceli do max. tvrdosti HRC 68
- Vhodné i pro HSC obrábění

◀ zpět na obsah

# 2JJRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

2 | 30° | D=0,1 0/-0,005 | D≥0,2 0/-0,01 | D≥6 -0,005/-0,015

±0,005 R0,05-R2,5 | ±0,01 R3-R6 | Tvrdokov 0,2 µm | Povlak TiSiN-S

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-001-003-S04 | 0,1 | R 0,05 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2JJRB-001-005-S04 | | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2JJRB-0015-003-S04 | 0,15 | R 0,075 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2JJRB-0015-005-S04 | | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2JJRB-0015-010-S04 | | | 1 | 0,15 | 40 | 4 | ☑ |
| 2JJRB-002-005-S04 | 0,2 | R 0,1 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-002-010-S04 | | | 1 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-002-015-S04 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-002-020-S04 | | | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-002-025-S04 | | | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-002-030-S04 | | | 3 | 0,2 | 40 | 4 | ☑ |
| 2JJRB-0025-005-S04 | 0,25 | R 0,125 | 0,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-0025-010-S04 | | | 1 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-0025-015-S04 | | | 1,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-0025-020-S04 | | | 2 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-0025-025-S04 | | | 2,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-0025-030-S04 | | | 3 | 0,25 | 40 | 4 | ☑ |
| 2JJRB-003-010-S04 | 0,3 | R 0,15 | 1 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-015-S04 | | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-020-S04 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-025-S04 | | | 2,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-030-S04 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-035-S04 | | | 3,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-040-S04 | | | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-003-050-S04 | | | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJRB-004-010-S04 | 0,4 | R 0,2 | 1 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-015-S04 | | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-020-S04 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-025-S04 | | | 2,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-030-S04 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-035-S04 | | | 3,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-040-S04 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-045-S04 | | | 4,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-050-S04 | | | 5 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-060-S04 | | | 6 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-004-080-S04 | | | 8 | 0,4 | 40 | 4 | ☑ |
| 2JJRB-005-010-S04 | 0,5 | R 0,25 | 1 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-010-S06 | | | 1 | 0,5 | 50 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-005-015-S04 | 0,5 | R 0,25 | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-020-S04 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-020-S06 | | | 2 | 0,5 | 50 | 6 | ☑ |
| 2JJRB-005-025-S04 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-030-S04 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-030-S06 | | | 3 | 0,5 | 50 | 6 | ☑ |
| 2JJRB-005-035-S04 | | | 3,5 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-040-S04 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-040-S06 | | | 4 | 0,5 | 50 | 6 | ☑ |
| 2JJRB-005-045-S04 | | | 4,5 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-050-S04 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-050-S06 | | | 5 | 0,5 | 50 | 6 | ☑ |
| 2JJRB-005-060-S04 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-060-S06 | | | 6 | 0,5 | 50 | 6 | ☑ |
| 2JJRB-005-080-S04 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-100-S04 | | | 10 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-005-120-S04 | | | 12 | 0,5 | 45 | 4 | ☑ |
| 2JJRB-006-010-S04 | 0,6 | R 0,3 | 1 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-010-S06 | | | 1 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-020-S04 | | | 2 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-020-S06 | | | 2 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-030-S04 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-030-S06 | | | 3 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-040-S04 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-040-S06 | | | 4 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-050-S04 | | | 5 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-050-S06 | | | 5 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-060-S04 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-060-S06 | | | 6 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-080-S04 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-080-S06 | | | 8 | 0,6 | 50 | 6 | ☑ |
| 2JJRB-006-100-S04 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-120-S04 | | | 12 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-006-140-S04 | | | 14 | 0,6 | 45 | 4 | ☑ |
| 2JJRB-007-020-S04 | 0,7 | R 0,35 | 2 | 0,7 | 45 | 4 | ☑ |
| 2JJRB-007-040-S04 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2JJRB-007-060-S04 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2JJRB-007-080-S04 | | | 8 | 0,7 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2JJRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 68

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-007-100-S04 | 0,7 | R 0,35 | 10 | 0,7 | 45 | 4 | ☑ |
| 2JJRB-007-120-S04 | | | 12 | 0,7 | 45 | 4 | ☑ |
| 2JJRB-008-020-S04 | 0,8 | R 0,4 | 2 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-020-S06 | | | 2 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-030-S04 | | | 3 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-030-S06 | | | 3 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-040-S04 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-040-S06 | | | 4 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-050-S04 | | | 5 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-050-S06 | | | 5 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-060-S04 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-060-S06 | | | 6 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-080-S04 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-080-S06 | | | 8 | 0,8 | 50 | 6 | ☑ |
| 2JJRB-008-100-S04 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-008-120-S04 | | | 12 | 0,8 | 45 | 4 | ☑ |
| 2JJRB-009-040-S04 | 0,9 | R 0,45 | 4 | 0,9 | 45 | 4 | ☑ |
| 2JJRB-009-060-S04 | | | 6 | 0,9 | 45 | 4 | ☑ |
| 2JJRB-009-080-S04 | | | 8 | 0,9 | 45 | 4 | ☑ |
| 2JJRB-009-100-S04 | | | 10 | 0,9 | 50 | 4 | ☑ |
| 2JJRB-009-120-S04 | | | 12 | 0,9 | 50 | 4 | ☑ |
| 2JJRB-010-020-S04 | 1 | R 0,5 | 2 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-020-S06 | | | 2 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-030-S04 | | | 3 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-030-S06 | | | 3 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-040-S04 | | | 4 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-040-S06 | | | 4 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-050-S04 | | | 5 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-050-S06 | | | 5 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-060-S04 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-060-S06 | | | 6 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-080-S04 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJRB-010-080-S06 | | | 8 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-100-S04 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-100-S06 | | | 10 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-120-S04 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-120-S06 | | | 12 | 1 | 50 | 6 | ☑ |
| 2JJRB-010-140-S04 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-160-S04 | | | 16 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-180-S04 | | | 18 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-200-S04 | | | 20 | 1 | 50 | 4 | ☑ |
| 2JJRB-010-220-S04 | | | 22 | 1 | 60 | 4 | ☑ |
| 2JJRB-010-250-S04 | | | 25 | 1 | 60 | 4 | ☑ |
| 2JJRB-012-040-S04 | 1,2 | R 0,6 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJRB-012-040-S06 | | | 4 | 1,2 | 50 | 6 | ☑ |
| 2JJRB-012-060-S04 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJRB-012-060-S06 | | | 6 | 1,2 | 50 | 6 | ☑ |
| 2JJRB-012-080-S04 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJRB-012-080-S06 | | | 8 | 1,2 | 50 | 6 | ☑ |
| 2JJRB-012-100-S04 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJRB-012-100-S06 | | | 10 | 1,2 | 50 | 6 | ☑ |
| 2JJRB-012-120-S04 | | | 12 | 1,2 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-012-120-S06 | 1,2 | R 0,6 | 12 | 1,2 | 50 | 6 | ☑ |
| 2JJRB-012-160-S04 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJRB-012-200-S04 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJRB-012-240-S04 | | | 24 | 1,2 | 60 | 4 | ☑ |
| 2JJRB-014-060-S04 | 1,4 | R 0,7 | 6 | 1,4 | 45 | 4 | ☑ |
| 2JJRB-014-080-S04 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 2JJRB-014-120-S04 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2JJRB-014-160-S04 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2JJRB-015-030-S04 | 1,5 | R 0,75 | 3 | 1,5 | 45 | 4 | ☑ |
| 2JJRB-015-030-S06 | | | 3 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-040-S04 | | | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJRB-015-040-S06 | | | 4 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-060-S04 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJRB-015-060-S06 | | | 6 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-080-S04 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJRB-015-080-S06 | | | 8 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-100-S04 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-100-S06 | | | 10 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-120-S04 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-120-S06 | | | 12 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-140-S04 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-140-S06 | | | 14 | 1,5 | 50 | 6 | ☑ |
| 2JJRB-015-160-S04 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-160-S06 | | | 16 | 1,5 | 60 | 6 | ☑ |
| 2JJRB-015-180-S04 | | | 18 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-200-S04 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJRB-015-220-S04 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2JJRB-015-250-S04 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2JJRB-015-300-S04 | | | 30 | 1,5 | 70 | 4 | ☑ |
| 2JJRB-016-060-S04 | 1,6 | R 0,8 | 6 | 1,6 | 45 | 4 | ☑ |
| 2JJRB-016-080-S04 | | | 8 | 1,6 | 45 | 4 | ☑ |
| 2JJRB-016-120-S04 | | | 12 | 1,6 | 50 | 4 | ☑ |
| 2JJRB-016-160-S04 | | | 16 | 1,6 | 50 | 4 | ☑ |
| 2JJRB-016-200-S04 | | | 20 | 1,6 | 50 | 4 | ☑ |
| 2JJRB-018-060-S04 | 1,8 | R 0,9 | 6 | 1,8 | 45 | 4 | ☑ |
| 2JJRB-018-080-S04 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2JJRB-018-120-S04 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2JJRB-018-160-S04 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2JJRB-018-200-S04 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2JJRB-020-040-S04 | 2 | R 1 | 4 | 2 | 45 | 4 | ☑ |
| 2JJRB-020-040-S06 | | | 4 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-060-S04 | | | 6 | 2 | 45 | 4 | ☑ |
| 2JJRB-020-060-S06 | | | 6 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-080-S04 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJRB-020-080-S06 | | | 8 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-100-S04 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJRB-020-100-S06 | | | 10 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-120-S04 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJRB-020-120-S06 | | | 12 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-140-S04 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJRB-020-140-S06 | | | 14 | 2 | 50 | 6 | ☑ |
| 2JJRB-020-160-S04 | | | 16 | 2 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2JJRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 68

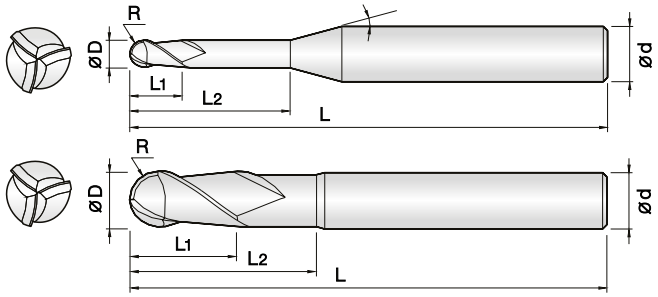
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-020-160-S06 | 2 | R 1 | 16 | 2 | 60 | 6 | ☑ |
| 2JJRB-020-180-S04 | | | 18 | 2 | 50 | 4 | ☑ |
| 2JJRB-020-180-S06 | | | 18 | 2 | 60 | 6 | ☑ |
| 2JJRB-020-200-S04 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJRB-020-200-S06 | | | 20 | 2 | 60 | 6 | ☑ |
| 2JJRB-020-220-S04 | | | 22 | 2 | 60 | 4 | ☑ |
| 2JJRB-020-250-S04 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJRB-020-300-S04 | | | 30 | 2 | 60 | 4 | ☑ |
| 2JJRB-025-080-S04 | 2,5 | R 1,25 | 8 | 2,5 | 45 | 4 | ☑ |
| 2JJRB-025-080-S06 | | | 8 | 2,5 | 50 | 6 | ☑ |
| 2JJRB-025-100-S04 | | | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJRB-025-100-S06 | | | 10 | 2,5 | 50 | 6 | ☑ |
| 2JJRB-025-120-S04 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 2JJRB-025-120-S06 | | | 12 | 2,5 | 50 | 6 | ☑ |
| 2JJRB-025-160-S04 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJRB-025-160-S06 | | | 16 | 2,5 | 60 | 6 | ☑ |
| 2JJRB-025-200-S04 | | | 20 | 2,5 | 60 | 4 | ☑ |
| 2JJRB-025-200-S06 | | | 20 | 2,5 | 60 | 6 | ☑ |
| 2JJRB-025-250-S04 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2JJRB-025-300-S04 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2JJRB-030-060-S06 | 3 | R 1,5 | 6 | 3 | 50 | 6 | ☑ |
| 2JJRB-030-080-S06 | | | 8 | 3 | 50 | 6 | ☑ |
| 2JJRB-030-100-S06 | | | 10 | 3 | 50 | 6 | ☑ |
| 2JJRB-030-120-S06 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJRB-030-160-S06 | | | 16 | 3 | 60 | 6 | ☑ |
| 2JJRB-030-200-S06 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJRB-030-250-S06 | | | 25 | 3 | 65 | 6 | ☑ |
| 2JJRB-030-300-S06 | | | 30 | 3 | 70 | 6 | ☑ |
| 2JJRB-030-350-S06 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJRB-030-400-S06 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJRB-030-450-S06 | | | 45 | 3 | 90 | 6 | ☑ |
| 2JJRB-030-500-S06 | | | 50 | 3 | 100 | 6 | ☑ |
| 2JJRB-035-100-S06 | 3,5 | R 1,75 | 10 | 3,5 | 50 | 6 | ☑ |
| 2JJRB-035-150-S06 | | | 15 | 3,5 | 60 | 6 | ☑ |
| 2JJRB-035-200-S06 | | | 20 | 3,5 | 60 | 6 | ☑ |
| 2JJRB-035-250-S06 | | | 25 | 3,5 | 65 | 6 | ☑ |
| 2JJRB-035-300-S06 | | | 30 | 3,5 | 70 | 6 | ☑ |
| 2JJRB-035-350-S06 | | | 35 | 3,5 | 75 | 6 | ☑ |
| 2JJRB-035-400-S06 | | | 40 | 3,5 | 80 | 6 | ☑ |
| 2JJRB-040-080-S06 | 4 | R 2 | 8 | 4 | 50 | 6 | ☑ |
| 2JJRB-040-100-S06 | | | 10 | 4 | 50 | 6 | ☑ |
| 2JJRB-040-120-S06 | | | 12 | 4 | 50 | 6 | ☑ |
| 2JJRB-040-160-S06 | | | 16 | 4 | 60 | 6 | ☑ |
| 2JJRB-040-200-S06 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJRB-040-250-S06 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJRB-040-300-S06 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJRB-040-350-S06 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJRB-040-400-S06 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJRB-040-450-S06 | | | 45 | 4 | 90 | 6 | ☑ |
| 2JJRB-040-500-S06 | | | 50 | 4 | 100 | 6 | ☑ |
| 2JJRB-050-160-S06 | 5 | R 2,5 | 16 | 6 | 60 | 6 | ☑ |
| 2JJRB-050-200-S06 | | | 20 | 6 | 60 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJRB-050-250-S06 | 5 | R 2,5 | 25 | 6 | 70 | 6 | ☑ |
| 2JJRB-050-300-S06 | | | 30 | 6 | 75 | 6 | ☑ |
| 2JJRB-050-400-S06 | | | 40 | 6 | 80 | 6 | ☑ |
| 2JJRB-050-450-S06 | | | 45 | 6 | 90 | 6 | ☑ |
| 2JJRB-050-500-S06 | | | 50 | 6 | 100 | 6 | ☑ |
| 2JJRB-060-150-S06 | 6 | R 3 | 15 | 10 | 55 | 6 | ☑ |
| 2JJRB-060-300-100 | | | 30 | 10 | 100 | 6 | ☑ |
| 2JJRB-060-500-120 | | | 50 | 10 | 120 | 6 | ☑ |
| 2JJRB-080-250-060 | 8 | R 4 | 25 | 12 | 60 | 8 | ☑ |
| 2JJRB-080-300-100 | | | 30 | 12 | 100 | 8 | ☑ |
| 2JJRB-080-600-120 | | | 60 | 12 | 120 | 8 | ☑ |
| 2JJRB-100-300-070 | 10 | R 5 | 30 | 16 | 70 | 10 | ☑ |
| 2JJRB-100-450-100 | | | 45 | 16 | 100 | 10 | ☑ |
| 2JJRB-100-600-130 | | | 60 | 16 | 130 | 10 | ☑ |
| 2JJRB-120-300-075 | 12 | R 6 | 30 | 18 | 75 | 12 | ☑ |
| 2JJRB-120-500-110 | | | 50 | 18 | 110 | 12 | ☑ |
| 2JJRB-120-600-130 | | | 60 | 18 | 130 | 12 | ☑ |

◀ zpět na obsah

# 3JJRB

## 3-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

3 | 30° | D ≥ 1: 0 / -0,01 | D≥6: -0,005 / -0,015

±0,005 R0,5 - R1,25 | ±0,007 R1,5 - R3 | ±0,01 R4 - R6 | Tvrdokov 0,2 µm | Povlak TiSiN-S

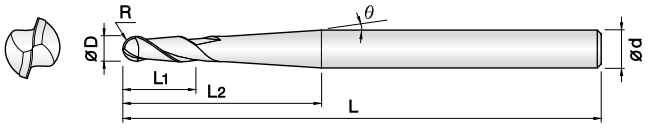
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3JJRB-010-040-S04 | 1 | R 0,5 | 4 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-010-060-S04 | | | 6 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-010-080-S04 | | | 8 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-010-100-S04 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-010-120-S04 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-010-160-S04 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 3JJRB-015-060-S04 | 1,5 | R 0,75 | 6 | 1,8 | 50 | 4 | ☑ |
| 3JJRB-015-080-S04 | | | 8 | 1,8 | 50 | 4 | ☑ |
| 3JJRB-015-100-S04 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 3JJRB-015-120-S04 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 3JJRB-015-160-S04 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 3JJRB-015-200-S04 | | | 20 | 1,8 | 60 | 4 | ☑ |
| 3JJRB-020-080-S04 | 2 | R 1 | 8 | 2,4 | 50 | 4 | ☑ |
| 3JJRB-020-100-S04 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 3JJRB-020-120-S04 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 3JJRB-020-160-S04 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 3JJRB-020-200-S04 | | | 20 | 2,4 | 60 | 4 | ☑ |
| 3JJRB-020-250-S04 | | | 25 | 2,4 | 70 | 4 | ☑ |
| 3JJRB-025-080-S04 | 2,5 | R 1,25 | 8 | 3 | 50 | 4 | ☑ |
| 3JJRB-025-100-S04 | | | 10 | 3 | 50 | 4 | ☑ |
| 3JJRB-025-120-S04 | | | 12 | 3 | 50 | 4 | ☑ |
| 3JJRB-025-160-S04 | | | 16 | 3 | 50 | 4 | ☑ |
| 3JJRB-025-200-S04 | | | 20 | 3 | 60 | 4 | ☑ |
| 3JJRB-025-250-S04 | | | 25 | 3 | 70 | 4 | ☑ |
| 3JJRB-030-120-S06 | 3 | R 1,5 | 12 | 3,6 | 60 | 6 | ☑ |
| 3JJRB-030-160-S06 | | | 16 | 3,6 | 60 | 6 | ☑ |
| 3JJRB-030-200-S06 | | | 20 | 3,6 | 65 | 6 | ☑ |
| 3JJRB-030-250-S06 | | | 25 | 3,6 | 70 | 6 | ☑ |
| 3JJRB-030-300-S06 | | | 30 | 3,6 | 75 | 6 | ☑ |
| 3JJRB-030-400-S06 | | | 40 | 3,6 | 90 | 6 | ☑ |
| 3JJRB-030-500-S06 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 3JJRB-040-160-S06 | 4 | R 2 | 16 | 4,8 | 60 | 6 | ☑ |
| 3JJRB-040-200-S06 | | | 20 | 4,8 | 65 | 6 | ☑ |
| 3JJRB-040-250-S06 | | | 25 | 4,8 | 70 | 6 | ☑ |
| 3JJRB-040-300-S06 | | | 30 | 4,8 | 75 | 6 | ☑ |
| 3JJRB-040-400-S06 | | | 40 | 4,8 | 90 | 6 | ☑ |
| 3JJRB-040-500-S06 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 3JJRB-040-600-S06 | | | 60 | 4,8 | 110 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3JJRB-050-300-S06 | 5 | R 2,5 | 30 | 6 | 75 | 6 | ☑ |
| 3JJRB-050-400-S06 | | | 40 | 6 | 90 | 6 | ☑ |
| 3JJRB-050-500-S06 | | | 50 | 6 | 100 | 6 | ☑ |
| 3JJRB-050-600-S06 | | | 60 | 6 | 110 | 6 | ☑ |
| 3JJRB-060-200-060 | 6 | R 3 | 20 | 9 | 60 | 6 | ☑ |
| 3JJRB-060-300-090 | | | 30 | 9 | 90 | 6 | ☑ |
| 3JJRB-080-250-060 | 8 | R 4 | 25 | 12 | 60 | 8 | ☑ |
| 3JJRB-080-400-100 | | | 40 | 12 | 100 | 8 | ☑ |
| 3JJRB-100-300-070 | 10 | R 5 | 30 | 15 | 70 | 10 | ☑ |
| 3JJRB-100-500-110 | | | 50 | 15 | 110 | 10 | ☑ |
| 3JJRB-120-350-075 | 12 | R 6 | 35 | 18 | 75 | 12 | ☑ |
| 3JJRB-120-600-110 | | | 60 | 18 | 110 | 12 | ☑ |

◀ zpět na obsah

# 2JJTB

## 2-břité KULOVÉ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení a úhlů pro optimální výběr nástroje
- Vysoká tuhost díky kuželovému odlehčení
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| 2 | 30° | D ≤ 5 | D ≥ 6 | ±0,005 | ±0,01 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|---|
| | | 0 / - 0,01 | -0,005 / - 0,015 | R0,1 - R2,5 | R3 - R6 | 0,2 µm | TiSiN-S |

NOVINKA

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-002-003-015 | 0,2 | R 0,1 | 0°30' | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-003-020 | | | 0°30' | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-010-015 | | | 1° | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-010-020 | | | 1° | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-010-025 | | | 1° | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-013-015 | | | 1°30' | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-013-020 | | | 1°30' | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-013-025 | | | 1°30' | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-020-015 | | | 2° | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-020-020 | | | 2° | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-020-025 | | | 2° | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-030-015 | | | 3° | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-030-020 | | | 3° | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-030-025 | | | 3° | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-030-030 | | | 3° | 3 | 0,2 | 45 | 4 | ☑ |
| 2JJTB-002-050-020 | | | 5° | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJTB-002-050-030 | | | 5° | 3 | 0,2 | 45 | 4 | ☑ |
| 2JJTB-003-003-030 | 0,3 | R 0,15 | 0°30' | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-010-020 | | | 1° | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-010-030 | | | 1° | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-010-040 | | | 1° | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-010-050 | | | 1° | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-013-020 | | | 1°30' | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-013-030 | | | 1°30' | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-013-040 | | | 1°30' | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-013-050 | | | 1°30' | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-020-020 | | | 2° | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-020-030 | | | 2° | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-020-040 | | | 2° | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-020-050 | | | 2° | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-020-060 | | | 2° | 6 | 0,3 | 45 | 4 | ☑ |
| 2JJTB-003-030-020 | | | 3° | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-030-030 | | | 3° | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-030-040 | | | 3° | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-030-050 | | | 3° | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-030-060 | | | 3° | 6 | 0,3 | 45 | 4 | ☑ |
| 2JJTB-003-050-050 | | | 5° | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJTB-003-050-080 | | | 5° | 8 | 0,3 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-004-003-020 | 0,4 | R 0,2 | 0°30' | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-003-030 | | | 0°30' | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-003-040 | | | 0°30' | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-003-050 | | | 0°30' | 5 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-003-060 | | | 0°30' | 6 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-020 | | | 1° | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-030 | | | 1° | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-040 | | | 1° | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-050 | | | 1° | 5 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-060 | | | 1° | 6 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-010-080 | | | 1° | 8 | 0,4 | 45 | 4 | ☑ |
| 2JJTB-004-013-020 | | | 1°30' | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJTB-004-013-030 | | | 1°30' | 3 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-013-040 | | | 1°30' | 4 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-013-050 | | | 1°30' | 5 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-013-060 | | | 1°30' | 6 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-013-080 | | | 1°30' | 8 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-020-020 | | | 2° | 2 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-020-030 | | | 2° | 3 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-020-040 | | | 2° | 4 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-020-050 | | | 2° | 5 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-020-060 | | | 2° | 6 | 0.4 | 40 | 4 | ☑ |
| 2JJTB-004-020-080 | | | 2° | 8 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-020-100 | | | 2° | 10 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-030-040 | | | 3° | 4 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-030-060 | | | 3° | 6 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-030-080 | | | 3° | 8 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-030-100 | | | 3° | 10 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-050-060 | | | 5° | 6 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-050-080 | | | 5° | 8 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-004-050-100 | | | 5° | 10 | 0.4 | 45 | 4 | ☑ |
| 2JJTB-005-003-040 | 0,5 | R 0,25 | 0°30' | 4 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-003-060 | | | 0°30' | 6 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-010-040 | | | 1° | 4 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-010-060 | | | 1° | 6 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-010-080 | | | 1° | 8 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-010-100 | | | 1° | 10 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-013-040 | | | 1°30' | 4 | 0.5 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2JJTB

## 2-břité KULOVÉ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-005-013-060 | 0,5 | R 0,25 | 1°30' | 6 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-013-080 | | | 1°30' | 8 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-013-100 | | | 1°30' | 10 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-020-040 | | | 2° | 4 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-020-060 | | | 2° | 6 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-020-080 | | | 2° | 8 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-020-100 | | | 2° | 10 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-030-080 | | | 3° | 8 | 0.5 | 45 | 4 | ☑ |
| 2JJTB-005-030-120 | | | 3° | 12 | 0.5 | 50 | 4 | ☑ |
| 2JJTB-005-030-160 | | | 3° | 16 | 0.5 | 60 | 4 | ☑ |
| 2JJTB-005-030-200 | | | 3° | 20 | 0.5 | 60 | 4 | ☑ |
| 2JJTB-005-050-100 | | | 5° | 10 | 0.5 | 50 | 4 | ☑ |
| 2JJTB-005-050-150 | | | 5° | 15 | 0.5 | 60 | 4 | ☑ |
| 2JJTB-005-050-200 | | | 5° | 20 | 0.5 | 60 | 4 | ☑ |
| 2JJTB-006-003-040 | 0,6 | R 0,3 | 0°30' | 4 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-003-060 | | | 0°30' | 6 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-003-080 | | | 0°30' | 8 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-010-040 | | | 1° | 4 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-010-060 | | | 1° | 6 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-010-080 | | | 1° | 8 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-010-100 | | | 1° | 10 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-010-120 | | | 1° | 12 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-010-150 | | | 1° | 15 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-010-200 | | | 1° | 20 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-013-040 | | | 1°30' | 4 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-013-060 | | | 1°30' | 6 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-013-080 | | | 1°30' | 8 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-013-100 | | | 1°30' | 10 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-013-120 | | | 1°30' | 12 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-013-150 | | | 1°30' | 15 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-013-200 | | | 1°30' | 20 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-020-060 | | | 2° | 6 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-020-080 | | | 2° | 8 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-020-100 | | | 2° | 10 | 0.6 | 45 | 4 | ☑ |
| 2JJTB-006-020-150 | | | 2° | 15 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-020-200 | | | 2° | 20 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-030-130 | | | 3° | 13 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-030-160 | | | 3° | 16 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-030-200 | | | 3° | 20 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-050-100 | | | 5° | 10 | 0.6 | 50 | 4 | ☑ |
| 2JJTB-006-050-150 | | | 5° | 15 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-006-050-200 | | | 5° | 20 | 0.6 | 60 | 4 | ☑ |
| 2JJTB-008-003-040 | 0,8 | R 0,4 | 0°30' | 4 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-003-060 | | | 0°30' | 6 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-003-080 | | | 0°30' | 8 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-003-100 | | | 0°30' | 10 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-003-120 | | | 0°30' | 12 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-003-150 | | | 0°30' | 15 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-003-200 | | | 0°30' | 20 | 0.8 | 60 | 4 | ☑ |
| 2JJTB-008-003-250 | | | 0°30' | 25 | 0.8 | 70 | 4 | ☑ |
| 2JJTB-008-010-040 | | | 1° | 4 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-010-060 | | | 1° | 6 | 0.8 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-008-010-080 | 0,8 | R 0,4 | 1° | 8 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-010-100 | | | 1° | 10 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-010-120 | | | 1° | 12 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-010-160 | | | 1° | 16 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-010-200 | | | 1° | 20 | 0.8 | 60 | 4 | ☑ |
| 2JJTB-008-010-250 | | | 1° | 25 | 0.8 | 70 | 4 | ☑ |
| 2JJTB-008-013-040 | | | 1°30' | 4 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-013-060 | | | 1°30' | 6 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-013-080 | | | 1°30' | 8 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-013-100 | | | 1°30' | 10 | 0.8 | 45 | 4 | ☑ |
| 2JJTB-008-013-120 | | | 1°30' | 12 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-013-160 | | | 1°30' | 16 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-013-200 | | | 1°30' | 20 | 0.8 | 60 | 4 | ☑ |
| 2JJTB-008-013-250 | | | 1°30' | 25 | 0.8 | 70 | 4 | ☑ |
| 2JJTB-008-020-080 | | | 2° | 8 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-020-100 | | | 2° | 10 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-020-120 | | | 2° | 12 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-020-160 | | | 2° | 16 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-020-200 | | | 2° | 20 | 0.8 | 60 | 4 | ☑ |
| 2JJTB-008-020-250 | | | 2° | 25 | 0.8 | 70 | 4 | ☑ |
| 2JJTB-008-030-080 | | | 3° | 8 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-030-120 | | | 3° | 12 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-030-160 | | | 3° | 16 | 0.8 | 50 | 4 | ☑ |
| 2JJTB-008-030-200 | | | 3° | 20 | 0.8 | 60 | 4 | ☑ |
| 2JJTB-008-030-250 | | | 3° | 25 | 0.8 | 70 | 4 | ☑ |
| 2JJTB-008-050-240 | | | 5° | 24 | 0.8 | 60 | 6 | ☑ |
| 2JJTB-010-003-060 | 1 | R 0,5 | 0°30' | 6 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-003-080 | | | 0°30' | 8 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-003-100 | | | 0°30' | 10 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-003-150 | | | 0°30' | 15 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-003-200 | | | 0°30' | 20 | 1 | 60 | 4 | ☑ |
| 2JJTB-010-003-250 | | | 0°30' | 25 | 1 | 60 | 4 | ☑ |
| 2JJTB-010-003-300 | | | 0°30' | 30 | 1 | 70 | 4 | ☑ |
| 2JJTB-010-010-060 | | | 1° | 6 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-010-080 | | | 1° | 8 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-010-100 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-010-150 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-010-200 | | | 1° | 20 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-010-250 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 2JJTB-010-010-300 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 2JJTB-010-010-350 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 2JJTB-010-013-060 | | | 1°30' | 6 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-013-080 | | | 1°30' | 8 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-013-100 | | | 1°30' | 10 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-013-150 | | | 1°30' | 15 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-013-200 | | | 1°30' | 20 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-013-250 | | | 1°30' | 25 | 1 | 60 | 4 | ☑ |
| 2JJTB-010-013-300 | | | 1°30' | 30 | 1 | 70 | 4 | ☑ |
| 2JJTB-010-013-350 | | | 1°30' | 35 | 1 | 80 | 4 | ☑ |
| 2JJTB-010-013-400 | | | 1°30' | 40 | 1 | 80 | 4 | ☑ |
| 2JJTB-010-020-150 | | | 2° | 15 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-020-200 | | | 2° | 20 | 1 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2JJTB 2-břité KULOVÉ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-010-020-250 | 1 | R 0,5 | 2° | 25 | 1 | 60 | 4 | ☑ |
| 2JJTB-010-020-300 | | | 2° | 30 | 1 | 70 | 4 | ☑ |
| 2JJTB-010-020-400 | | | 2° | 40 | 1 | 80 | 4 | ☑ |
| 2JJTB-010-030-200 | | | 3° | 20 | 1 | 50 | 4 | ☑ |
| 2JJTB-010-030-300 | | | 3° | 30 | 1 | 70 | 6 | ☑ |
| 2JJTB-010-030-400 | | | 3° | 40 | 1 | 80 | 6 | ☑ |
| 2JJTB-010-030-500 | | | 3° | 50 | 1 | 90 | 6 | ☑ |
| 2JJTB-010-050-230 | | | 5° | 23 | 1 | 60 | 6 | ☑ |
| 2JJTB-012-003-080 | 1,2 | R 0,6 | 0°30' | 8 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-003-120 | | | 0°30' | 12 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-003-180 | | | 0°30' | 18 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-003-240 | | | 0°30' | 24 | 1.2 | 60 | 4 | ☑ |
| 2JJTB-012-010-080 | | | 1° | 8 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-010-120 | | | 1° | 12 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-010-180 | | | 1° | 18 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-010-240 | | | 1° | 24 | 1.2 | 60 | 4 | ☑ |
| 2JJTB-012-013-080 | | | 1°30' | 8 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-013-120 | | | 1°30' | 12 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-013-180 | | | 1°30' | 18 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-013-240 | | | 1°30' | 24 | 1.2 | 60 | 4 | ☑ |
| 2JJTB-012-020-080 | | | 2° | 8 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-020-120 | | | 2° | 12 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-020-180 | | | 2° | 18 | 1.2 | 50 | 4 | ☑ |
| 2JJTB-012-020-240 | | | 2° | 24 | 1.2 | 60 | 4 | ☑ |
| 2JJTB-015-003-080 | 1,5 | R 0,75 | 0°30' | 8 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-003-100 | | | 0°30' | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-003-120 | | | 0°30' | 12 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-003-150 | | | 0°30' | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-003-200 | | | 0°30' | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTB-015-003-300 | | | 0°30' | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTB-015-003-400 | | | 0°30' | 40 | 1.5 | 80 | 4 | ☑ |
| 2JJTB-015-010-080 | | | 1° | 8 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-010-100 | | | 1° | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-010-120 | | | 1° | 12 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-010-150 | | | 1° | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-010-200 | | | 1° | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTB-015-010-250 | | | 1° | 25 | 1.5 | 60 | 4 | ☑ |
| 2JJTB-015-010-300 | | | 1° | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTB-015-010-400 | | | 1° | 40 | 1.5 | 80 | 4 | ☑ |
| 2JJTB-015-010-500 | | | 1° | 50 | 1.5 | 90 | 4 | ☑ |
| 2JJTB-015-013-080 | | | 1°30' | 8 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-013-100 | | | 1°30' | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-013-120 | | | 1°30' | 12 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-013-150 | | | 1°30' | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-013-200 | | | 1°30' | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTB-015-013-250 | | | 1°30' | 25 | 1.5 | 60 | 4 | ☑ |
| 2JJTB-015-013-300 | | | 1°30' | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTB-015-013-400 | | | 1°30' | 40 | 1.5 | 80 | 4 | ☑ |
| 2JJTB-015-013-500 | | | 1°30' | 50 | 1.5 | 90 | 4 | ☑ |
| 2JJTB-015-020-100 | | | 2° | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-020-150 | | | 2° | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTB-015-020-200 | | | 2° | 20 | 1.5 | 60 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-015-020-300 | 1,5 | R 0,75 | 2° | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTB-015-020-400 | | | 2° | 40 | 1.5 | 80 | 6 | ☑ |
| 2JJTB-015-020-500 | | | 2° | 50 | 1.5 | 90 | 6 | ☑ |
| 2JJTB-015-030-420 | | | 3° | 42 | 1.5 | 80 | 6 | ☑ |
| 2JJTB-015-050-250 | | | 5° | 25 | 1.5 | 70 | 6 | ☑ |
| 2JJTB-020-003-080 | 2 | R 1 | 0°30' | 8 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-003-120 | | | 0°30' | 12 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-003-160 | | | 0°30' | 16 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-003-200 | | | 0°30' | 20 | 2 | 60 | 4 | ☑ |
| 2JJTB-020-003-300 | | | 0°30' | 30 | 2 | 70 | 4 | ☑ |
| 2JJTB-020-003-400 | | | 0°30' | 40 | 2 | 80 | 4 | ☑ |
| 2JJTB-020-003-500 | | | 0°30' | 50 | 2 | 90 | 4 | ☑ |
| 2JJTB-020-010-080 | | | 1° | 8 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-010-120 | | | 1° | 12 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-010-160 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-010-200 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 2JJTB-020-010-250 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 2JJTB-020-010-300 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 2JJTB-020-010-350 | | | 1° | 35 | 2 | 75 | 4 | ☑ |
| 2JJTB-020-010-400 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 2JJTB-020-010-500 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 2JJTB-020-010-600 | | | 1° | 60 | 2 | 100 | 6 | ☑ |
| 2JJTB-020-013-080 | | | 1°30' | 8 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-013-120 | | | 1°30' | 12 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-013-160 | | | 1°30' | 16 | 2 | 50 | 4 | ☑ |
| 2JJTB-020-013-200 | | | 1°30' | 20 | 2 | 60 | 4 | ☑ |
| 2JJTB-020-013-250 | | | 1°30' | 25 | 2 | 60 | 4 | ☑ |
| 2JJTB-020-013-300 | | | 1°30' | 30 | 2 | 70 | 4 | ☑ |
| 2JJTB-020-013-350 | | | 1°30' | 35 | 2 | 75 | 6 | ☑ |
| 2JJTB-020-013-400 | | | 1°30' | 40 | 2 | 80 | 6 | ☑ |
| 2JJTB-020-013-500 | | | 1°30' | 50 | 2 | 90 | 6 | ☑ |
| 2JJTB-020-013-600 | | | 1°30' | 60 | 2 | 100 | 6 | ☑ |
| 2JJTB-020-020-300 | | | 2° | 30 | 2 | 70 | 6 | ☑ |
| 2JJTB-020-020-400 | | | 2° | 40 | 2 | 80 | 6 | ☑ |
| 2JJTB-020-020-500 | | | 2° | 50 | 2 | 90 | 6 | ☑ |
| 2JJTB-020-030-300 | | | 3° | 30 | 2 | 70 | 6 | ☑ |
| 2JJTB-020-030-400 | | | 3° | 40 | 2 | 80 | 6 | ☑ |
| 2JJTB-020-030-500 | | | 3° | 50 | 2 | 90 | 8 | ☑ |
| 2JJTB-020-050-250 | | | 5° | 25 | 2 | 60 | 6 | ☑ |
| 2JJTB-020-050-380 | | | 5° | 38 | 2 | 80 | 8 | ☑ |
| 2JJTB-030-003-160 | 3 | R 1,5 | 0°30' | 16 | 3 | 60 | 6 | ☑ |
| 2JJTB-030-003-200 | | | 0°30' | 20 | 3 | 65 | 6 | ☑ |
| 2JJTB-030-003-300 | | | 0°30' | 30 | 3 | 70 | 6 | ☑ |
| 2JJTB-030-003-400 | | | 0°30' | 40 | 3 | 80 | 6 | ☑ |
| 2JJTB-030-003-500 | | | 0°30' | 50 | 3 | 90 | 6 | ☑ |
| 2JJTB-030-003-600 | | | 0°30' | 60 | 3 | 100 | 6 | ☑ |
| 2JJTB-030-010-160 | | | 1° | 16 | 3 | 60 | 6 | ☑ |
| 2JJTB-030-010-200 | | | 1° | 20 | 3 | 65 | 6 | ☑ |
| 2JJTB-030-010-300 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTB-030-010-400 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 2JJTB-030-010-500 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 2JJTB-030-010-600 | | | 1° | 60 | 3 | 100 | 6 | ☑ |

◀ zpět na obsah

# 2JJTB 2-břité KULOVÉ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68

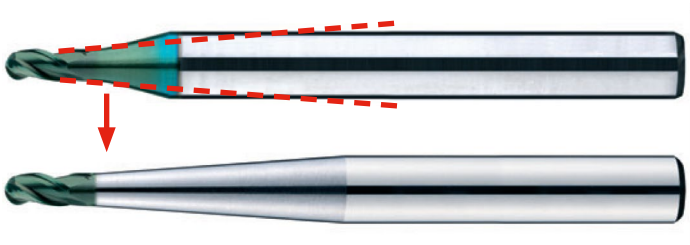
| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-030-010-700 | 3 | R 1,5 | 1° | 70 | 3 | 110 | 6 | ☑ |
| 2JJTB-030-013-160 | | | 1°30' | 16 | 3 | 60 | 6 | ☑ |
| 2JJTB-030-013-200 | | | 1°30' | 20 | 3 | 65 | 6 | ☑ |
| 2JJTB-030-013-300 | | | 1°30' | 30 | 3 | 70 | 6 | ☑ |
| 2JJTB-030-013-400 | | | 1°30' | 40 | 3 | 80 | 6 | ☑ |
| 2JJTB-030-013-500 | | | 1°30' | 50 | 3 | 90 | 6 | ☑ |
| 2JJTB-030-013-600 | | | 1°30' | 60 | 3 | 100 | 6 | ☑ |
| 2JJTB-030-013-700 | | | 1°30' | 70 | 3 | 120 | 8 | ☑ |
| 2JJTB-030-020-160 | | | 2° | 16 | 3 | 60 | 6 | ☑ |
| 2JJTB-030-020-200 | | | 2° | 20 | 3 | 65 | 6 | ☑ |
| 2JJTB-030-020-300 | | | 2° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTB-030-020-480 | | | 2° | 48 | 3 | 90 | 6 | ☑ |
| 2JJTB-030-020-600 | | | 2° | 60 | 3 | 110 | 8 | ☑ |
| 2JJTB-030-020-700 | | | 2° | 70 | 3 | 120 | 8 | ☑ |
| 2JJTB-030-030-300 | | | 3° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTB-030-030-500 | | | 3° | 50 | 3 | 90 | 8 | ☑ |
| 2JJTB-030-030-700 | | | 3° | 70 | 3 | 120 | 10 | ☑ |
| 2JJTB-030-050-330 | | | 5° | 33 | 3 | 90 | 8 | ☑ |
| 2JJTB-040-003-600 | 4 | R 2 | 0°30' | 60 | 4 | 100 | 6 | ☑ |
| 2JJTB-040-003-700 | | | 0°30' | 70 | 4 | 110 | 6 | ☑ |
| 2JJTB-040-003-900 | | | 0°30' | 90 | 4 | 130 | 6 | ☑ |
| 2JJTB-040-010-500 | | | 1° | 50 | 4 | 90 | 6 | ☑ |
| 2JJTB-040-010-600 | | | 1° | 60 | 4 | 100 | 6 | ☑ |
| 2JJTB-040-010-700 | | | 1° | 70 | 4 | 120 | 8 | ☑ |
| 2JJTB-040-010-900 | | | 1° | 90 | 4 | 150 | 8 | ☑ |
| 2JJTB-040-013-450 | | | 1°30' | 45 | 4 | 90 | 6 | ☑ |
| 2JJTB-040-013-600 | | | 1°30' | 60 | 4 | 110 | 8 | ☑ |
| 2JJTB-040-013-700 | | | 1°30' | 70 | 4 | 120 | 8 | ☑ |
| 2JJTB-040-030-250 | | | 3° | 25 | 4 | 70 | 6 | ☑ |
| 2JJTB-040-030-420 | | | 3° | 42 | 4 | 100 | 8 | ☑ |
| 2JJTB-040-050-290 | | | 5° | 29 | 4 | 90 | 8 | ☑ |
| 2JJTB-050-010-400 | 5 | R 2,5 | 1° | 40 | 5 | 90 | 8 | ☑ |
| 2JJTB-050-010-600 | | | 1° | 60 | 5 | 110 | 8 | ☑ |
| 2JJTB-050-010-900 | | | 1° | 90 | 5 | 150 | 8 | ☑ |
| 2JJTB-050-013-400 | | | 1°30' | 40 | 5 | 90 | 8 | ☑ |
| 2JJTB-050-013-600 | | | 1°30' | 60 | 5 | 110 | 8 | ☑ |
| 2JJTB-050-013-900 | | | 1°30' | 90 | 5 | 150 | 10 | ☑ |
| 2JJTB-050-030-400 | | | 3° | 40 | 5 | 90 | 8 | ☑ |
| 2JJTB-060-010-400 | 6 | R 3 | 1° | 40 | 9 | 90 | 8 | ☑ |
| 2JJTB-060-010-500 | | | 1° | 50 | 9 | 100 | 8 | ☑ |
| 2JJTB-060-010-600 | | | 1° | 60 | 9 | 110 | 8 | ☑ |
| 2JJTB-060-010-700 | | | 1° | 70 | 9 | 120 | 10 | ☑ |
| 2JJTB-060-010-800 | | | 1° | 80 | 9 | 130 | 10 | ☑ |
| 2JJTB-060-010-1000 | | | 1° | 100 | 9 | 150 | 10 | ☑ |
| 2JJTB-060-013-490 | | | 1°30' | 49 | 9 | 110 | 8 | ☑ |
| 2JJTB-060-013-850 | | | 1°30' | 85 | 9 | 150 | 10 | ☑ |
| 2JJTB-060-020-600 | | | 2° | 60 | 9 | 110 | 10 | ☑ |
| 2JJTB-060-020-900 | | | 2° | 90 | 9 | 150 | 12 | ☑ |
| 2JJTB-060-030-290 | | | 3° | 29 | 9 | 90 | 8 | ☑ |
| 2JJTB-060-050-320 | | | 5° | 32 | 9 | 110 | 10 | ☑ |
| 2JJTB-080-010-500 | 8 | R 4 | 1° | 50 | 12 | 100 | 10 | ☑ |
| 2JJTB-080-010-600 | | | 1° | 60 | 12 | 110 | 10 | ☑ |

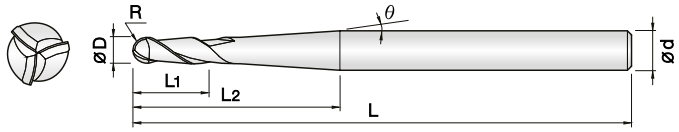
| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTB-080-010-800 | 8 | R 4 | 1° | 80 | 12 | 130 | 12 | ☑ |
| 2JJTB-080-010-1000 | | | 1° | 100 | 12 | 150 | 12 | ☑ |
| 2JJTB-080-013-520 | | | 1°30' | 52 | 12 | 110 | 10 | ☑ |
| 2JJTB-080-013-890 | | | 1°30' | 89 | 12 | 150 | 12 | ☑ |
| 2JJTB-080-030-330 | | | 3° | 33 | 12 | 100 | 10 | ☑ |
| 2JJTB-100-010-600 | 10 | R 5 | 1° | 60 | 18 | 110 | 12 | ☑ |
| 2JJTB-100-010-750 | | | 1° | 75 | 18 | 130 | 12 | ☑ |
| 2JJTB-100-013-540 | | | 1°30' | 54 | 18 | 130 | 12 | ☑ |
| 2JJTB-100-030-370 | | | 3° | 37 | 18 | 110 | 12 | ☑ |
| 2JJTB-120-013-850 | 12 | R 6 | 1°30' | 85 | 22 | 160 | 16 | ☑ |
| 2JJTB-120-030-630 | | | 3° | 63 | 22 | 130 | 16 | ☑ |

◀ zpět na obsah

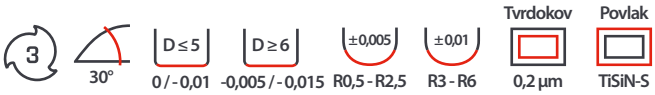
# 3JJTBS

## 2-břité KULOVÉ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68






- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Rychlá úprava úhlu a délky odlehčení podle Vašich požadavků
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 3JJTBS-010-060-S04 | 1 | R 0,5 | Do objednávky prosím zadejte VÁMI POŽADOVANÝ ÚHEL. | Do objednávky prosím zadejte VÁMI POŽADOVANOU DÉLKU ODLEHČENÍ. | 1 | 60 | 4 | ☑ |
| 3JJTBS-010-080-S04 | | | | | 1 | 80 | 4 | ☑ |
| 3JJTBS-010-090-S06 | | | | | 1 | 90 | 6 | ☑ |
| 3JJTBS-015-060-S04 | 1,5 | R 0,75 | | | 1,5 | 60 | 4 | ☑ |
| 3JJTBS-015-080-S04 | | | | | 1,5 | 80 | 4 | ☑ |
| 3JJTBS-015-090-S06 | | | | | 1,5 | 90 | 6 | ☑ |
| 3JJTBS-020-070-S04 | 2 | R 1 | | | 2 | 70 | 4 | ☑ |
| 3JJTBS-020-090-S04 | | | | | 2 | 90 | 4 | ☑ |
| 3JJTBS-020-090-S06 | | | | | 2 | 90 | 6 | ☑ |
| 3JJTBS-030-080-S06 | 3 | R 1,5 | | | 3 | 80 | 6 | ☑ |
| 3JJTBS-030-100-S06 | | | | | 3 | 100 | 6 | ☑ |
| 3JJTBS-030-110-S08 | | | | | 3 | 110 | 8 | ☑ |
| 3JJTBS-040-080-S06 | 4 | R 2 | | | 5 | 80 | 6 | ☑ |
| 3JJTBS-040-110-S06 | | | | | 5 | 110 | 6 | ☑ |
| 3JJTBS-040-120-S08 | | | | | 5 | 120 | 8 | ☑ |
| 3JJTBS-050-090-S08 | 5 | R 2,5 | | | 7 | 90 | 8 | ☑ |
| 3JJTBS-050-120-S08 | | | | | 7 | 120 | 8 | ☑ |
| 3JJTBS-060-110-S08 | 6 | R 3 | | | 9 | 110 | 8 | ☑ |
| 3JJTBS-060-150-S10 | | | | | 9 | 150 | 10 | ☑ |
| 3JJTBS-080-120-S10 | 8 | R 4 | | | 12 | 120 | 10 | ☑ |
| 3JJTBS-080-160-S12 | | | | | 12 | 160 | 12 | ☑ |
| 3JJTBS-100-120-S12 | 10 | R 5 | | | 15 | 120 | 12 | ☑ |
| 3JJTBS-100-160-S12 | | | | | 15 | 160 | 12 | ☑ |
| 3JJTBS-120-160-S16 | 12 | R 6 | | | 18 | 160 | 16 | ☑ |
| 3JJTBS-120-200-S16 | | | | | 18 | 200 | 16 | ☑ |

**Příklad objednávky:**

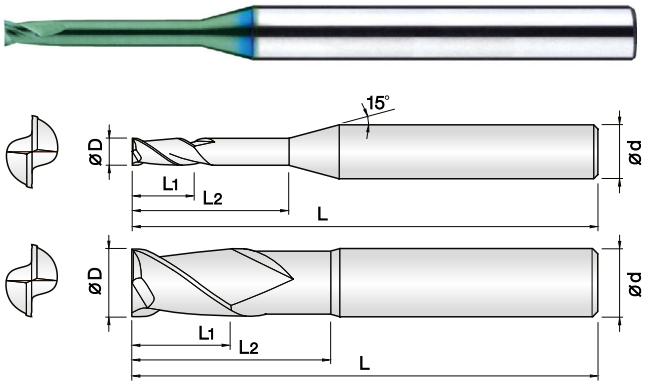
Fréza **3JJTBS-010-060-S04**
s úhlem odlehčení **1°** a délkou odlehčení **20mm**

3JJTBS-010-060-S04 θ=1° L2=20mm

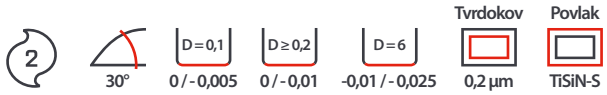
◀ zpět na obsah

# 2JJRE

## 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 65




- Určeno pro kalené oceli (52–65 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJRE-001-003-S04 | 0,1 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-001-005-S04 | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-0015-003-S04 | 0,15 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-0015-005-S04 | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-0015-0075-S04 | | 0,75 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-0015-010-S04 | | 1 | 0,15 | 40 | 4 | ☑ |
| 2JJRE-002-005-S04 | 0,2 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-002-010-S04 | | 1 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-002-015-S04 | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-002-020-S04 | | 2 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-002-025-S04 | | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-002-030-S04 | | 3 | 0,2 | 40 | 4 | ☑ |
| 2JJRE-0025-005-S04 | 0,25 | 0,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-0025-010-S04 | | 1 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-0025-015-S04 | | 1,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-0025-020-S04 | | 2 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-0025-025-S04 | | 2,5 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-0025-030-S04 | | 3 | 0,25 | 40 | 4 | ☑ |
| 2JJRE-003-010-S04 | 0,3 | 1 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-015-S04 | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-020-S04 | | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-025-S04 | | 2,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-030-S04 | | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-035-S04 | | 3,5 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-040-S04 | | 4 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-050-S04 | | 5 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-060-S04 | | 6 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-070-S04 | | 7 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-003-080-S04 | | 8 | 0,3 | 40 | 4 | ☑ |
| 2JJRE-004-010-S04 | 0,4 | 1 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-015-S04 | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-020-S04 | | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-025-S04 | | 2,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-030-S04 | | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-035-S04 | | 3,5 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-040-S04 | | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-050-S04 | | 5 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-060-S04 | | 6 | 0,4 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJRE-004-080-S04 | 0,4 | 8 | 0,4 | 40 | 4 | ☑ |
| 2JJRE-004-100-S04 | | 10 | 0,4 | 45 | 4 | ☑ |
| 2JJRE-004-120-S04 | | 12 | 0,4 | 45 | 4 | ☑ |
| 2JJRE-005-010-S04 | 0,5 | 1 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-020-S04 | | 2 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-030-S04 | | 3 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-040-S04 | | 4 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-050-S04 | | 5 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-060-S04 | | 6 | 0,5 | 40 | 4 | ☑ |
| 2JJRE-005-080-S04 | | 8 | 0,5 | 45 | 4 | ☑ |
| 2JJRE-005-100-S04 | | 10 | 0,5 | 45 | 4 | ☑ |
| 2JJRE-005-120-S04 | | 12 | 0,5 | 45 | 4 | ☑ |
| 2JJRE-005-140-S04 | | 14 | 0,5 | 45 | 4 | ☑ |
| 2JJRE-005-160-S04 | | 16 | 0,5 | 45 | 4 | ☑ |
| 2JJRE-006-010-S04 | 0,6 | 1 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-020-S04 | | 2 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-030-S04 | | 3 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-040-S04 | | 4 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-050-S04 | | 5 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-060-S04 | | 6 | 0,6 | 40 | 4 | ☑ |
| 2JJRE-006-080-S04 | | 8 | 0,6 | 45 | 4 | ☑ |
| 2JJRE-006-100-S04 | | 10 | 0,6 | 45 | 4 | ☑ |
| 2JJRE-006-120-S04 | | 12 | 0,6 | 45 | 4 | ☑ |
| 2JJRE-006-140-S04 | | 14 | 0,6 | 45 | 4 | ☑ |
| 2JJRE-006-160-S04 | | 16 | 0,6 | 45 | 4 | ☑ |
| 2JJRE-006-180-S04 | | 18 | 0,6 | 50 | 4 | ☑ |
| 2JJRE-007-020-S04 | 0,7 | 2 | 0,7 | 40 | 4 | ☑ |
| 2JJRE-007-040-S04 | | 4 | 0,7 | 40 | 4 | ☑ |
| 2JJRE-007-060-S04 | | 6 | 0,7 | 40 | 4 | ☑ |
| 2JJRE-007-080-S04 | | 8 | 0,7 | 45 | 4 | ☑ |
| 2JJRE-007-100-S04 | | 10 | 0,7 | 45 | 4 | ☑ |
| 2JJRE-007-120-S04 | | 12 | 0,7 | 45 | 4 | ☑ |
| 2JJRE-007-140-S04 | | 14 | 0,7 | 45 | 4 | ☑ |
| 2JJRE-007-160-S04 | | 16 | 0,7 | 45 | 4 | ☑ |
| 2JJRE-008-010-S04 | 0,8 | 1 | 0,8 | 40 | 4 | ☑ |
| 2JJRE-008-020-S04 | | 2 | 0,8 | 40 | 4 | ☑ |
| 2JJRE-008-030-S04 | | 3 | 0,8 | 40 | 4 | ☑ |
| 2JJRE-008-040-S04 | | 4 | 0,8 | 40 | 4 | ☑ |

◀ zpět na obsah

# 2JJRE 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 65

NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJRE-008-050-S04 | 0,8 | 5 | 0,8 | 40 | 4 | ☑ |
| 2JJRE-008-060-S04 | | 6 | 0,8 | 40 | 4 | ☑ |
| 2JJRE-008-080-S04 | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJRE-008-100-S04 | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJRE-008-120-S04 | | 12 | 0,8 | 45 | 4 | ☑ |
| 2JJRE-008-140-S04 | | 14 | 0,8 | 45 | 4 | ☑ |
| 2JJRE-008-160-S04 | | 16 | 0,8 | 45 | 4 | ☑ |
| 2JJRE-008-180-S04 | | 18 | 0,8 | 50 | 4 | ☑ |
| 2JJRE-008-200-S04 | | 20 | 0,8 | 50 | 4 | ☑ |
| 2JJRE-009-040-S04 | 0,9 | 4 | 0,9 | 40 | 4 | ☑ |
| 2JJRE-009-060-S04 | | 6 | 0,9 | 40 | 4 | ☑ |
| 2JJRE-009-080-S04 | | 8 | 0,9 | 45 | 4 | ☑ |
| 2JJRE-009-100-S04 | | 10 | 0,9 | 45 | 4 | ☑ |
| 2JJRE-010-020-S04 | 1 | 2 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-030-S04 | | 3 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-040-S04 | | 4 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-050-S04 | | 5 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-060-S04 | | 6 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-100-S04 | | 10 | 1 | 45 | 4 | ☑ |
| 2JJRE-010-120-S04 | | 12 | 1 | 50 | 4 | ☑ |
| 2JJRE-010-140-S04 | | 14 | 1 | 50 | 4 | ☑ |
| 2JJRE-010-160-S04 | | 16 | 1 | 50 | 4 | ☑ |
| 2JJRE-010-180-S04 | | 18 | 1 | 50 | 4 | ☑ |
| 2JJRE-010-200-S04 | | 20 | 1 | 50 | 4 | ☑ |
| 2JJRE-010-220-S04 | | 22 | 1 | 60 | 4 | ☑ |
| 2JJRE-010-250-S04 | | 25 | 1 | 60 | 4 | ☑ |
| 2JJRE-010-300-S04 | | 30 | 1 | 70 | 4 | ☑ |
| 2JJRE-012-040-S04 | 1,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJRE-012-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJRE-012-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJRE-012-100-S04 | | 10 | 1,2 | 45 | 4 | ☑ |
| 2JJRE-012-120-S04 | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJRE-012-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJRE-012-200-S04 | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJRE-012-250-S04 | | 25 | 1,2 | 60 | 4 | ☑ |
| 2JJRE-014-080-S04 | 1,4 | 8 | 1,4 | 45 | 4 | ☑ |
| 2JJRE-014-100-S04 | | 10 | 1,4 | 45 | 4 | ☑ |
| 2JJRE-014-140-S04 | | 14 | 1,4 | 50 | 4 | ☑ |
| 2JJRE-014-160-S04 | | 16 | 1,4 | 50 | 4 | ☑ |
| 2JJRE-014-200-S04 | | 20 | 1,4 | 50 | 4 | ☑ |
| 2JJRE-014-220-S04 | | 22 | 1,4 | 60 | 4 | ☑ |
| 2JJRE-015-040-S04 | 1,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJRE-015-060-S04 | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJRE-015-080-S04 | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJRE-015-100-S04 | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-120-S04 | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-140-S04 | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-160-S04 | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-180-S04 | | 18 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-200-S04 | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJRE-015-220-S04 | | 22 | 1,5 | 60 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJRE-015-250-S04 | 1,5 | 25 | 1,5 | 60 | 4 | ☑ |
| 2JJRE-015-350-S04 | | 35 | 1,5 | 70 | 4 | ☑ |
| 2JJRE-015-400-S04 | | 40 | 1,5 | 80 | 4 | ☑ |
| 2JJRE-016-060-S04 | 1,6 | 6 | 1,6 | 45 | 4 | ☑ |
| 2JJRE-016-100-S04 | | 10 | 1,6 | 50 | 4 | ☑ |
| 2JJRE-016-140-S04 | | 14 | 1,6 | 50 | 4 | ☑ |
| 2JJRE-016-180-S04 | | 18 | 1,6 | 50 | 4 | ☑ |
| 2JJRE-016-200-S04 | | 20 | 1,6 | 50 | 4 | ☑ |
| 2JJRE-018-100-S04 | 1,8 | 10 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-120-S04 | | 12 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-140-S04 | | 14 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-160-S04 | | 16 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-180-S04 | | 18 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-200-S04 | | 20 | 1,8 | 50 | 4 | ☑ |
| 2JJRE-018-250-S04 | | 25 | 1,8 | 60 | 4 | ☑ |
| 2JJRE-020-060-S04 | 2 | 6 | 2 | 45 | 4 | ☑ |
| 2JJRE-020-080-S04 | | 8 | 2 | 45 | 4 | ☑ |
| 2JJRE-020-100-S04 | | 10 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-120-S04 | | 12 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-140-S04 | | 14 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-160-S04 | | 16 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-180-S04 | | 18 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-200-S04 | | 20 | 2 | 50 | 4 | ☑ |
| 2JJRE-020-220-S04 | | 22 | 2 | 60 | 4 | ☑ |
| 2JJRE-020-250-S04 | | 25 | 2 | 60 | 4 | ☑ |
| 2JJRE-020-300-S04 | | 30 | 2 | 60 | 4 | ☑ |
| 2JJRE-020-350-S04 | | 35 | 2 | 70 | 4 | ☑ |
| 2JJRE-020-400-S04 | | 40 | 2 | 80 | 4 | ☑ |
| 2JJRE-020-450-S04 | | 45 | 2 | 90 | 4 | ☑ |
| 2JJRE-020-500-S04 | | 50 | 2 | 90 | 4 | ☑ |
| 2JJRE-025-100-S04 | 2,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJRE-025-120-S04 | | 12 | 2,5 | 50 | 4 | ☑ |
| 2JJRE-025-160-S04 | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJRE-025-200-S04 | | 20 | 2,5 | 50 | 4 | ☑ |
| 2JJRE-025-250-S04 | | 25 | 2,5 | 60 | 4 | ☑ |
| 2JJRE-025-300-S04 | | 30 | 2,5 | 70 | 4 | ☑ |
| 2JJRE-025-350-S04 | | 35 | 2,5 | 70 | 4 | ☑ |
| 2JJRE-025-400-S04 | | 40 | 2,5 | 80 | 4 | ☑ |
| 2JJRE-025-450-S04 | | 45 | 2,5 | 90 | 4 | ☑ |
| 2JJRE-025-500-S04 | | 50 | 2,5 | 90 | 4 | ☑ |
| 2JJRE-030-060-S06 | 3 | 6 | 3 | 45 | 6 | ☑ |
| 2JJRE-030-080-S06 | | 8 | 3 | 45 | 6 | ☑ |
| 2JJRE-030-100-S06 | | 10 | 3 | 50 | 6 | ☑ |
| 2JJRE-030-120-S06 | | 12 | 3 | 50 | 6 | ☑ |
| 2JJRE-030-160-S06 | | 16 | 3 | 55 | 6 | ☑ |
| 2JJRE-030-200-S06 | | 20 | 3 | 60 | 6 | ☑ |
| 2JJRE-030-250-S06 | | 25 | 3 | 65 | 6 | ☑ |
| 2JJRE-030-300-S06 | | 30 | 3 | 70 | 6 | ☑ |
| 2JJRE-030-350-S06 | | 35 | 3 | 75 | 6 | ☑ |
| 2JJRE-030-400-S06 | | 40 | 3 | 80 | 6 | ☑ |
| 2JJRE-030-450-S06 | | 45 | 3 | 90 | 6 | ☑ |
| 2JJRE-030-500-S06 | | 50 | 3 | 100 | 6 | ☑ |

◀ zpět na obsah

# 2JJRE 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 65

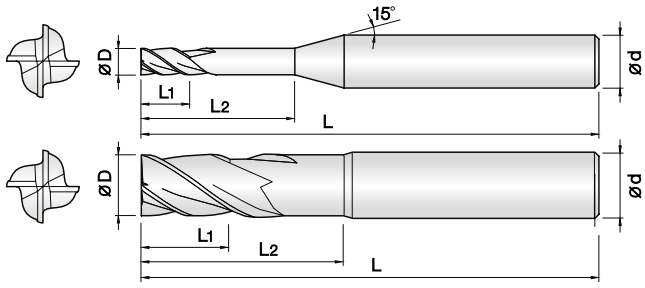
NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJRE-030-600-S06 | 3 | 60 | 3 | 100 | 6 | ☑ |
| 2JJRE-035-120-S06 | 3,5 | 12 | 3,5 | 50 | 6 | ☑ |
| 2JJRE-035-160-S06 | | 16 | 3,5 | 55 | 6 | ☑ |
| 2JJRE-035-200-S06 | | 20 | 3,5 | 60 | 6 | ☑ |
| 2JJRE-035-250-S06 | | 25 | 3,5 | 65 | 6 | ☑ |
| 2JJRE-035-300-S06 | | 30 | 3,5 | 70 | 6 | ☑ |
| 2JJRE-035-350-S06 | | 35 | 3,5 | 75 | 6 | ☑ |
| 2JJRE-035-400-S06 | | 40 | 3,5 | 80 | 6 | ☑ |
| 2JJRE-040-080-S06 | 4 | 8 | 4 | 50 | 6 | ☑ |
| 2JJRE-040-100-S06 | | 10 | 4 | 50 | 6 | ☑ |
| 2JJRE-040-120-S06 | | 12 | 4 | 50 | 6 | ☑ |
| 2JJRE-040-160-S06 | | 16 | 4 | 55 | 6 | ☑ |
| 2JJRE-040-200-S06 | | 20 | 4 | 60 | 6 | ☑ |
| 2JJRE-040-250-S06 | | 25 | 4 | 65 | 6 | ☑ |
| 2JJRE-040-300-S06 | | 30 | 4 | 70 | 6 | ☑ |
| 2JJRE-040-350-S06 | | 35 | 4 | 75 | 6 | ☑ |
| 2JJRE-040-400-S06 | | 40 | 4 | 80 | 6 | ☑ |
| 2JJRE-040-450-S06 | | 45 | 4 | 90 | 6 | ☑ |
| 2JJRE-040-500-S06 | | 50 | 4 | 100 | 6 | ☑ |
| 2JJRE-040-600-S06 | | 60 | 4 | 100 | 6 | ☑ |
| 2JJRE-045-120-S06 | 4,5 | 12 | 4,5 | 50 | 6 | ☑ |
| 2JJRE-045-160-S06 | | 16 | 4,5 | 55 | 6 | ☑ |
| 2JJRE-045-200-S06 | | 20 | 4,5 | 60 | 6 | ☑ |
| 2JJRE-045-250-S06 | | 25 | 4,5 | 65 | 6 | ☑ |
| 2JJRE-045-300-S06 | | 30 | 4,5 | 70 | 6 | ☑ |
| 2JJRE-045-400-S06 | | 40 | 4,5 | 80 | 6 | ☑ |
| 2JJRE-050-160-S06 | 5 | 16 | 6 | 60 | 6 | ☑ |
| 2JJRE-050-200-S06 | | 20 | 6 | 60 | 6 | ☑ |
| 2JJRE-050-250-S06 | | 25 | 6 | 65 | 6 | ☑ |
| 2JJRE-050-300-S06 | | 30 | 6 | 70 | 6 | ☑ |
| 2JJRE-050-350-S06 | | 35 | 6 | 75 | 6 | ☑ |
| 2JJRE-050-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 2JJRE-050-500-S06 | | 50 | 6 | 100 | 6 | ☑ |
| 2JJRE-050-600-S06 | | 60 | 6 | 100 | 6 | ☑ |
| 2JJRE-060-200-S06 | 6 | 20 | 10 | 60 | 6 | ☑ |
| 2JJRE-060-300-S06 | | 30 | 10 | 75 | 6 | ☑ |
| 2JJRE-060-400-S06 | | 40 | 10 | 80 | 6 | ☑ |
| 2JJRE-060-500-S06 | | 50 | 10 | 90 | 6 | ☑ |
| 2JJRE-060-600-S06 | | 60 | 10 | 110 | 6 | ☑ |
| 2JJRE-080-300-S08 | 8 | 30 | 12 | 80 | 8 | ☑ |
| 2JJRE-080-500-S08 | | 50 | 12 | 100 | 8 | ☑ |
| 2JJRE-100-400-S10 | 10 | 40 | 15 | 90 | 10 | ☑ |
| 2JJRE-100-600-S10 | | 60 | 15 | 110 | 10 | ☑ |
| 2JJRE-120-500-S12 | 12 | 50 | 18 | 100 | 12 | ☑ |
| 2JJRE-120-700-S12 | | 70 | 18 | 120 | 12 | ☑ |

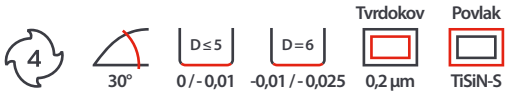
◀ zpět na obsah

# 4JJRE

## 4-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 65




- Určeno pro kalené oceli (52–65 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJRE-005-010-S04 | 0,5 | 1 | 0,5 | 40 | 4 | ☑ |
| 4JJRE-005-020-S04 | | 2 | 0,5 | 40 | 4 | ☑ |
| 4JJRE-005-030-S04 | | 3 | 0,5 | 45 | 4 | ☑ |
| 4JJRE-005-040-S04 | | 4 | 0,5 | 45 | 4 | ☑ |
| 4JJRE-005-050-S04 | | 5 | 0,5 | 45 | 4 | ☑ |
| 4JJRE-005-060-S04 | | 6 | 0,5 | 45 | 4 | ☑ |
| 4JJRE-005-080-S04 | | 8 | 0,5 | 45 | 4 | ☑ |
| 4JJRE-005-100-S04 | | 10 | 0,5 | 50 | 4 | ☑ |
| 4JJRE-006-010-S04 | 0,6 | 1 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-020-S04 | | 2 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-030-S04 | | 3 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-040-S04 | | 4 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-050-S04 | | 5 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-060-S04 | | 6 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-080-S04 | | 8 | 0,6 | 45 | 4 | ☑ |
| 4JJRE-006-100-S04 | | 10 | 0,6 | 50 | 4 | ☑ |
| 4JJRE-006-120-S04 | | 12 | 0,6 | 50 | 4 | ☑ |
| 4JJRE-007-020-S04 | 0,7 | 2 | 0,7 | 45 | 4 | ☑ |
| 4JJRE-007-040-S04 | | 4 | 0,7 | 45 | 4 | ☑ |
| 4JJRE-007-060-S04 | | 6 | 0,7 | 45 | 4 | ☑ |
| 4JJRE-007-080-S04 | | 8 | 0,7 | 45 | 4 | ☑ |
| 4JJRE-007-100-S04 | | 10 | 0,7 | 50 | 4 | ☑ |
| 4JJRE-008-010-S04 | 0,8 | 1 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-020-S04 | | 2 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-030-S04 | | 3 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-040-S04 | | 4 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-050-S04 | | 5 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-060-S04 | | 6 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-080-S04 | | 8 | 0,8 | 40 | 4 | ☑ |
| 4JJRE-008-100-S04 | | 10 | 0,8 | 50 | 4 | ☑ |
| 4JJRE-008-120-S04 | | 12 | 0,8 | 50 | 4 | ☑ |
| 4JJRE-008-160-S04 | | 16 | 0,8 | 50 | 4 | ☑ |
| 4JJRE-010-020-S04 | 1 | 2 | 1 | 45 | 4 | ☑ |
| 4JJRE-010-030-S04 | | 3 | 1 | 45 | 4 | ☑ |
| 4JJRE-010-040-S04 | | 4 | 1 | 45 | 4 | ☑ |
| 4JJRE-010-060-S04 | | 6 | 1 | 45 | 4 | ☑ |
| 4JJRE-010-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 4JJRE-010-100-S04 | | 10 | 1 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJRE-010-120-S04 | 1 | 12 | 1 | 50 | 4 | ☑ |
| 4JJRE-010-140-S04 | | 14 | 1 | 50 | 4 | ☑ |
| 4JJRE-010-160-S04 | | 16 | 1 | 50 | 4 | ☑ |
| 4JJRE-010-180-S04 | | 18 | 1 | 60 | 4 | ☑ |
| 4JJRE-010-200-S04 | | 20 | 1 | 60 | 4 | ☑ |
| 4JJRE-012-040-S04 | 1,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJRE-012-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJRE-012-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJRE-012-100-S04 | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJRE-012-120-S04 | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJRE-012-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 4JJRE-012-180-S04 | | 18 | 1,2 | 60 | 4 | ☑ |
| 4JJRE-012-200-S04 | | 20 | 1,2 | 60 | 4 | ☑ |
| 4JJRE-014-060-S04 | 1,4 | 6 | 1,4 | 45 | 4 | ☑ |
| 4JJRE-014-080-S04 | | 8 | 1,4 | 45 | 4 | ☑ |
| 4JJRE-014-100-S04 | | 10 | 1,4 | 50 | 4 | ☑ |
| 4JJRE-014-120-S04 | | 12 | 1,4 | 50 | 4 | ☑ |
| 4JJRE-014-140-S04 | | 14 | 1,4 | 50 | 4 | ☑ |
| 4JJRE-014-160-S04 | | 16 | 1,4 | 50 | 4 | ☑ |
| 4JJRE-015-040-S04 | 1,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 4JJRE-015-060-S04 | | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJRE-015-080-S04 | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJRE-015-100-S04 | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJRE-015-120-S04 | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJRE-015-160-S04 | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJRE-015-180-S04 | | 18 | 1,5 | 60 | 4 | ☑ |
| 4JJRE-015-200-S04 | | 20 | 1,5 | 60 | 4 | ☑ |
| 4JJRE-015-250-S04 | | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJRE-015-300-S04 | | 30 | 1,5 | 70 | 4 | ☑ |
| 4JJRE-016-060-S04 | 1,6 | 6 | 1,6 | 45 | 4 | ☑ |
| 4JJRE-016-080-S04 | | 8 | 1,6 | 45 | 4 | ☑ |
| 4JJRE-016-100-S04 | | 10 | 1,6 | 50 | 4 | ☑ |
| 4JJRE-016-120-S04 | | 12 | 1,6 | 50 | 4 | ☑ |
| 4JJRE-016-140-S04 | | 14 | 1,6 | 50 | 4 | ☑ |
| 4JJRE-016-160-S04 | | 16 | 1,6 | 50 | 4 | ☑ |
| 4JJRE-016-180-S04 | | 18 | 1,6 | 60 | 4 | ☑ |
| 4JJRE-016-200-S04 | | 20 | 1,6 | 60 | 4 | ☑ |
| 4JJRE-016-250-S04 | | 25 | 1,6 | 70 | 4 | ☑ |

◀ zpět na obsah

# 4JJRE 4-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 65

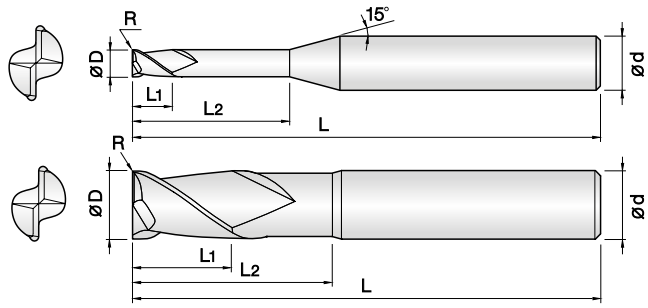
NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJRE-018-060-S04 | 1,8 | 6 | 1,8 | 45 | 4 | ☑ |
| 4JJRE-018-080-S04 | | 8 | 1,8 | 45 | 4 | ☑ |
| 4JJRE-018-100-S04 | | 10 | 1,8 | 50 | 4 | ☑ |
| 4JJRE-018-120-S04 | | 12 | 1,8 | 50 | 4 | ☑ |
| 4JJRE-018-160-S04 | | 16 | 1,8 | 50 | 4 | ☑ |
| 4JJRE-018-200-S04 | | 20 | 1,8 | 60 | 4 | ☑ |
| 4JJRE-018-250-S04 | | 25 | 1,8 | 70 | 4 | ☑ |
| 4JJRE-020-040-S04 | 2 | 4 | 2 | 45 | 4 | ☑ |
| 4JJRE-020-060-S04 | | 6 | 2 | 45 | 4 | ☑ |
| 4JJRE-020-080-S04 | | 8 | 2 | 45 | 4 | ☑ |
| 4JJRE-020-100-S04 | | 10 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-120-S04 | | 12 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-140-S04 | | 14 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-160-S04 | | 16 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-180-S04 | | 18 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-200-S04 | | 20 | 2 | 50 | 4 | ☑ |
| 4JJRE-020-220-S04 | | 22 | 2 | 60 | 4 | ☑ |
| 4JJRE-020-250-S04 | | 25 | 2 | 60 | 4 | ☑ |
| 4JJRE-020-300-S04 | | 30 | 2 | 70 | 4 | ☑ |
| 4JJRE-025-100-S04 | 2,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 4JJRE-025-120-S04 | | 12 | 2,5 | 50 | 4 | ☑ |
| 4JJRE-025-160-S04 | | 16 | 2,5 | 50 | 4 | ☑ |
| 4JJRE-025-200-S04 | | 20 | 2,5 | 50 | 4 | ☑ |
| 4JJRE-025-250-S04 | | 25 | 2,5 | 60 | 4 | ☑ |
| 4JJRE-025-300-S04 | | 30 | 2,5 | 70 | 4 | ☑ |
| 4JJRE-030-060-S06 | 3 | 6 | 3 | 45 | 6 | ☑ |
| 4JJRE-030-080-S06 | | 8 | 3 | 45 | 6 | ☑ |
| 4JJRE-030-100-S06 | | 10 | 3 | 50 | 6 | ☑ |
| 4JJRE-030-120-S06 | | 12 | 3 | 50 | 6 | ☑ |
| 4JJRE-030160-S06 | | 16 | 3 | 55 | 6 | ☑ |
| 4JJRE-030-200-S06 | | 20 | 3 | 60 | 6 | ☑ |
| 4JJRE-030-250-S06 | | 25 | 3 | 65 | 6 | ☑ |
| 4JJRE-030-300-S06 | | 30 | 3 | 70 | 6 | ☑ |
| 4JJRE-030-350-S06 | | 35 | 3 | 75 | 6 | ☑ |
| 4JJRE-030-400-S06 | | 40 | 3 | 80 | 6 | ☑ |
| 4JJRE-030-450-S06 | | 45 | 3 | 90 | 6 | ☑ |
| 4JJRE-030-500-S06 | | 50 | 3 | 100 | 6 | ☑ |
| 4JJRE-030-600-S06 | | 60 | 3 | 110 | 6 | ☑ |
| 4JJRE-035-120-S06 | 3,5 | 12 | 3,5 | 50 | 6 | ☑ |
| 4JJRE-035-160-S06 | | 16 | 3,5 | 55 | 6 | ☑ |
| 4JJRE-035-200-S06 | | 20 | 3,5 | 60 | 6 | ☑ |
| 4JJRE-035-250-S06 | | 25 | 3,5 | 65 | 6 | ☑ |
| 4JJRE-035-300-S06 | | 30 | 3,5 | 70 | 6 | ☑ |
| 4JJRE-035-350-S06 | | 35 | 3,5 | 75 | 6 | ☑ |
| 4JJRE-035-400-S06 | | 40 | 3,5 | 80 | 6 | ☑ |
| 4JJRE-040-060-S06 | 4 | 6 | 4 | 50 | 6 | ☑ |
| 4JJRE-040-080-S06 | | 8 | 4 | 50 | 6 | ☑ |
| 4JJRE-040-100-S06 | | 10 | 4 | 50 | 6 | ☑ |
| 4JJRE-040-120-S06 | | 12 | 4 | 50 | 6 | ☑ |
| 4JJRE-040-160-S06 | | 16 | 4 | 55 | 6 | ☑ |
| 4JJRE-040-200-S06 | | 20 | 4 | 60 | 6 | ☑ |
| 4JJRE-040-250-S06 | | 25 | 4 | 65 | 6 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJRE-040-300-S06 | 4 | 30 | 4 | 70 | 6 | ☑ |
| 4JJRE-040-400-S06 | | 40 | 4 | 80 | 6 | ☑ |
| 4JJRE-040-450-S06 | | 45 | 4 | 90 | 6 | ☑ |
| 4JJRE-040-500-S06 | | 50 | 4 | 100 | 6 | ☑ |
| 4JJRE-040-600-S06 | | 60 | 4 | 110 | 6 | ☑ |
| 4JJRE-045-120-S06 | 4,5 | 12 | 4,5 | 50 | 6 | ☑ |
| 4JJRE-045-160-S06 | | 16 | 4,5 | 55 | 6 | ☑ |
| 4JJRE-045-200-S06 | | 20 | 4,5 | 60 | 6 | ☑ |
| 4JJRE-045-250-S06 | | 25 | 4,5 | 65 | 6 | ☑ |
| 4JJRE-045-300-S06 | | 30 | 4,5 | 70 | 6 | ☑ |
| 4JJRE-045-400-S06 | | 40 | 4,5 | 80 | 6 | ☑ |
| 4JJRE-050-160-S06 | 5 | 16 | 5 | 60 | 6 | ☑ |
| 4JJRE-050-200-S06 | | 20 | 5 | 60 | 6 | ☑ |
| 4JJRE-050-250-S06 | | 25 | 5 | 65 | 6 | ☑ |
| 4JJRE-050-300-S06 | | 30 | 5 | 70 | 6 | ☑ |
| 4JJRE-050-400-S06 | | 40 | 5 | 80 | 6 | ☑ |
| 4JJRE-050-500-S06 | | 50 | 5 | 100 | 6 | ☑ |
| 4JJRE-050-600-S06 | | 60 | 5 | 110 | 6 | ☑ |
| 4JJRE-060-200-S06 | 6 | 20 | 6 | 60 | 6 | ☑ |
| 4JJRE-060-300-S06 | | 30 | 6 | 75 | 6 | ☑ |
| 4JJRE-060-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 4JJRE-060-500-S06 | | 50 | 6 | 90 | 6 | ☑ |
| 4JJRE-060-600-S06 | | 60 | 6 | 100 | 6 | ☑ |
| 4JJRE-080-250-S08 | 8 | 25 | 12 | 65 | 8 | ☑ |
| 4JJRE-080-400-S08 | | 40 | 12 | 100 | 8 | ☑ |
| 4JJRE-080-500-S08 | | 50 | 12 | 110 | 8 | ☑ |
| 4JJRE-100-300-S10 | 10 | 30 | 15 | 70 | 10 | ☑ |
| 4JJRE-100-500-S10 | | 50 | 15 | 100 | 10 | ☑ |
| 4JJRE-100-600-S10 | | 60 | 15 | 120 | 10 | ☑ |
| 4JJRE-120-400-S12 | 12 | 40 | 18 | 80 | 12 | ☑ |
| 4JJRE-120-600-S12 | | 60 | 18 | 110 | 12 | ☑ |
| 4JJRE-120-700-S12 | | 70 | 18 | 130 | 12 | ☑ |

◀ zpět na obsah

# 2JJCR 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68




NOVINKA

- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

2 | 30° | D≤5 0/-0,01 | D≥6 -0,005/-0,015 | D>12 -0,01/-0,02

±0,005 R0,02-R0,5 | ±0,01 R1-R1,5 | ±0,015 R2-R3 | Tvrdokov 0,2 µm | Povlak TiSiN-S

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-002-0002-005 | 0,2 | R 0,02 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-002-0002-010 | | | 1 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-002-0002-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-002-0005-005 | | R 0,05 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-002-0005-010 | | | 1 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-002-0005-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2JJCR-003-0002-010 | 0,3 | R 0,02 | 1 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-003-0002-020 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-003-0002-030 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-003-0005-010 | | R 0,05 | 1 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-003-0005-020 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-003-0005-030 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2JJCR-004-0002-010 | 0,4 | R 0,02 | 1 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0002-020 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0002-030 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0002-040 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0005-010 | | R 0,05 | 1 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0005-020 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0005-030 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-0005-040 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-001-010 | | R 0,1 | 1 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-001-015 | | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-001-020 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-001-030 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-004-001-040 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2JJCR-005-0002-010 | 0,5 | R 0,02 | 1 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-020 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-025 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-050 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0002-100 | | | 10 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-010 | | R 0,05 | 1 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-020 | | | 2 | 0,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-005-0005-025 | 0,5 | R 0,05 | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-050 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-0005-100 | | | 10 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-010 | | R 0,1 | 1 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-020 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-025 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-050 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-005-001-100 | | | 10 | 0,5 | 45 | 4 | ☑ |
| 2JJCR-006-0002-020 | 0,6 | R 0,02 | 2 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-100 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0002-120 | | | 12 | 0,6 | 50 | 4 | ☑ |
| 2JJCR-006-0005-020 | | R 0,05 | 2 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-100 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-0005-120 | | | 12 | 0,6 | 50 | 4 | ☑ |
| 2JJCR-006-001-020 | | R 0,1 | 2 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-100 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2JJCR-006-001-120 | | | 12 | 0,6 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2JJCR

## 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-007-001-020 | 0,7 | R 0,1 | 2 | 0,7 | 45 | 4 | ☑ |
| 2JJCR-007-001-040 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2JJCR-007-001-060 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2JJCR-007-001-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2JJCR-007-001-100 | | | 10 | 0,7 | 45 | 4 | ☑ |
| 2JJCR-008-0002-020 | 0,8 | R 0,02 | 2 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0002-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0002-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2JJCR-008-0005-020 | | R 0,05 | 2 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0005-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0005-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0005-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0005-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-0005-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2JJCR-008-001-020 | | R 0,1 | 2 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-001-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-001-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-001-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-001-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-001-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2JJCR-008-002-020 | | R 0,2 | 2 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-002-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2JJCR-008-002-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2JJCR-010-0002-040 | 1 | R 0,02 | 4 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0005-040 | | R 0,05 | 4 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0005-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0005-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-0005-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0005-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0005-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0005-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-0005-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-001-040 | | R 0,1 | 4 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-001-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-001-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-001-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-001-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-001-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-001-160 | | | 16 | 1 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-010-001-200 | 1 | R 0,1 | 20 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-002-040 | | R 0,2 | 4 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-003-040 | | R 0,3 | 4 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-003-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-003-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2JJCR-010-003-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-003-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-003-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-003-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2JJCR-010-003-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2JJCR-012-0002-040 | 1,2 | R 0,02 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0005-040 | | R 0,05 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0005-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0005-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-0005-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0005-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0005-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0005-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-0005-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-001-040 | | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-001-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2JJCR-012-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2JJCR

## 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-012-003-100 | 1,2 | R 0,3 | 10 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-003-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-003-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-012-003-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2JJCR-015-0002-040 | 1,5 | R 0,02 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0002-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0005-040 | | R 0,05 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0005-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-0005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-0005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-001-040 | | R 0,1 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-001-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-001-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-001-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-001-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-001-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-001-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-001-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-002-040 | | R 0,2 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-002-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-003-040 | | R 0,3 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-003-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-003-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-003-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-003-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-003-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-003-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-003-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-005-040 | | R 0,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-005-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2JJCR-015-005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-015-005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-015-005-200 | 1,5 | R 0,5 | 20 | 1,5 | 50 | 4 | ☑ |
| 2JJCR-020-0002-060 | 2 | R 0,02 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-0002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-0002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJCR-020-0005-060 | | R 0,05 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-0005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-0005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-0005-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJCR-020-001-060 | | R 0,1 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-001-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-001-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-001-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-001-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-001-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-001-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-001-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJCR-020-001-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2JJCR-020-002-060 | | R 0,2 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJCR-020-002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2JJCR-020-003-060 | | R 0,3 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-003-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-003-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-003-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-003-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-003-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-003-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-003-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2JJCR-020-003-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2JJCR-020-005-060 | | R 0,5 | 6 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2JJCR-020-005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2JJCR-020-005-250 | | | 25 | 2 | 60 | 4 | ☑ |

◀ zpět na obsah

# 2JJCR 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-020-005-300 | 2 | R 0,5 | 30 | 2 | 70 | 4 | ☑ |
| 2JJCR-025-001-100 | 2,5 | R 0,1 | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-001-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-001-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-001-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2JJCR-025-001-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2JJCR-025-002-100 | | R 0,2 | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-002-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-002-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-003-100 | | R 0,3 | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-003-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-003-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-005-100 | | R 0,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-005-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-025-005-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2JJCR-030-001-100 | 3 | R 0,1 | 10 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-001-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-001-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2JJCR-030-001-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJCR-030-001-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2JJCR-030-001-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2JJCR-030-001-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJCR-030-001-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJCR-030-002-100 | | R 0,2 | 10 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-002-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-002-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2JJCR-030-002-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJCR-030-002-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2JJCR-030-002-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2JJCR-030-002-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJCR-030-002-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJCR-030-003-100 | | R 0,3 | 10 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-003-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-003-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2JJCR-030-003-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJCR-030-003-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2JJCR-030-003-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2JJCR-030-003-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJCR-030-003-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJCR-030-005-100 | | R 0,5 | 10 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-005-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-005-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2JJCR-030-005-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJCR-030-005-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2JJCR-030-005-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2JJCR-030-005-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJCR-030-005-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJCR-030-010-100 | | R 1 | 10 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-010-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 2JJCR-030-010-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2JJCR-030-010-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2JJCR-030-010-250 | | | 25 | 3 | 65 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-030-010-300 | 3 | R 1 | 30 | 3 | 70 | 6 | ☑ |
| 2JJCR-030-010-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2JJCR-030-010-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2JJCR-040-001-120 | 4 | R 0,1 | 12 | 4 | 50 | 6 | ☑ |
| 2JJCR-040-001-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2JJCR-040-001-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJCR-040-001-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJCR-040-001-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJCR-040-001-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJCR-040-001-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJCR-040-002-120 | | R 0,2 | 12 | 4 | 50 | 6 | ☑ |
| 2JJCR-040-002-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2JJCR-040-002-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJCR-040-002-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJCR-040-002-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJCR-040-002-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJCR-040-002-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJCR-040-003-120 | | R 0,3 | 12 | 4 | 50 | 6 | ☑ |
| 2JJCR-040-003-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2JJCR-040-003-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJCR-040-003-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJCR-040-003-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJCR-040-003-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJCR-040-003-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJCR-040-005-120 | | R 0,5 | 12 | 4 | 50 | 6 | ☑ |
| 2JJCR-040-005-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2JJCR-040-005-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJCR-040-005-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJCR-040-005-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJCR-040-005-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJCR-040-005-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJCR-040-010-120 | | R 1 | 12 | 4 | 50 | 6 | ☑ |
| 2JJCR-040-010-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2JJCR-040-010-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2JJCR-040-010-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2JJCR-040-010-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2JJCR-040-010-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2JJCR-040-010-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2JJCR-050-002-150 | 5 | R 0,2 | 15 | 6 | 60 | 6 | ☑ |
| 2JJCR-050-002-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-002-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-002-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2JJCR-050-005-150 | | R 0,5 | 15 | 6 | 60 | 6 | ☑ |
| 2JJCR-050-005-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-005-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-005-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2JJCR-050-010-150 | | R 1 | 15 | 6 | 60 | 6 | ☑ |
| 2JJCR-050-010-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-010-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2JJCR-050-010-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2JJCR-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-001-400 | | | 40 | 7 | 80 | 6 | ☑ |

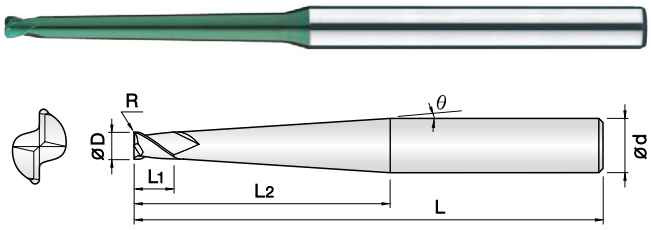
◀ zpět na obsah

# 2JJCR 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2JJCR-060-002-200 | 6 | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-002-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 2JJCR-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-003-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 2JJCR-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-005-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 2JJCR-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-010-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 2JJCR-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 2JJCR-060-015-400 | | R 1,5 | 40 | 7 | 80 | 6 | ☑ |
| 2JJCR-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 2JJCR-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 2JJCR-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 2JJCR-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 2JJCR-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 2JJCR-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 2JJCR-120-002-260 | 12 | R 0,2 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-003-260 | | R 0,3 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |
| 2JJCR-160-005-110 | 16 | R 0,5 | 35 | 20 | 110 | 16 | ☑ |
| 2JJCR-160-010-110 | | R 1 | 35 | 20 | 110 | 16 | ☑ |

◀ zpět na obsah

# 2JJTC 2-břité TOROIDNÍ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vysoká tuhost díky kuželovému odlehčení
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTC-010-001-0601 | 1 | R 0,1 | 1° | 6 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-001-1001 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-001-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-001-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-001-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-001-3001 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 2JJTC-010-001-3501 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 2JJTC-010-002-0601 | | R 0,2 | 1° | 6 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-002-1001 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-002-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-002-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-002-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-002-3001 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 2JJTC-010-002-3501 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 2JJTC-010-003-0601 | | R 0,3 | 1° | 6 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-003-1001 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-003-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 2JJTC-010-003-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-003-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 2JJTC-010-003-3001 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 2JJTC-010-003-3501 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 2JJTC-015-002-1001 | 1,5 | R 0,2 | 1° | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-002-1501 | | | 1° | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-002-2001 | | | 1° | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-002-2501 | | | 1° | 25 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-002-3001 | | | 1° | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTC-015-002-3501 | | | 1° | 35 | 1.5 | 75 | 4 | ☑ |
| 2JJTC-015-003-1001 | | R 0,3 | 1° | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-003-1501 | | | 1° | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-003-2001 | | | 1° | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-003-2501 | | | 1° | 25 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-003-3001 | | | 1° | 30 | 1.5 | 70 | 4 | ☑ |
| 2JJTC-015-003-3501 | | | 1° | 35 | 1.5 | 75 | 4 | ☑ |
| 2JJTC-015-005-1001 | | R 0,5 | 1° | 10 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-005-1501 | | | 1° | 15 | 1.5 | 50 | 4 | ☑ |
| 2JJTC-015-005-2001 | | | 1° | 20 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-005-2501 | | | 1° | 25 | 1.5 | 60 | 4 | ☑ |
| 2JJTC-015-005-3001 | | | 1° | 30 | 1.5 | 70 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTC-015-005-3501 | 1,5 | R 0,5 | 1° | 35 | 1.5 | 75 | 4 | ☑ |
| 2JJTC-020-002-1201 | 2 | R 0,2 | 1° | 12 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-002-1601 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-002-2001 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-002-2501 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-002-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 2JJTC-020-002-3501 | | | 1° | 35 | 2 | 75 | 4 | ☑ |
| 2JJTC-020-002-4001 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 2JJTC-020-002-5001 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 2JJTC-020-003-1201 | | R 0,3 | 1° | 12 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-003-1601 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-003-2001 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-003-2501 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-003-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 2JJTC-020-003-3501 | | | 1° | 35 | 2 | 75 | 4 | ☑ |
| 2JJTC-020-003-4001 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 2JJTC-020-003-5001 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 2JJTC-020-005-1201 | | R 0,5 | 1° | 12 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-005-1601 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 2JJTC-020-005-2001 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-005-2501 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 2JJTC-020-005-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 2JJTC-020-005-3501 | | | 1° | 35 | 2 | 75 | 4 | ☑ |
| 2JJTC-020-005-4001 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 2JJTC-020-005-5001 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 2JJTC-030-002-2001 | 3 | R 0,2 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 2JJTC-030-002-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTC-030-002-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 2JJTC-030-002-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 2JJTC-030-002-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 2JJTC-030-003-2001 | | R 0,3 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 2JJTC-030-003-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTC-030-003-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 2JJTC-030-003-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 2JJTC-030-003-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 2JJTC-030-005-2001 | | R 0,5 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 2JJTC-030-005-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTC-030-005-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |

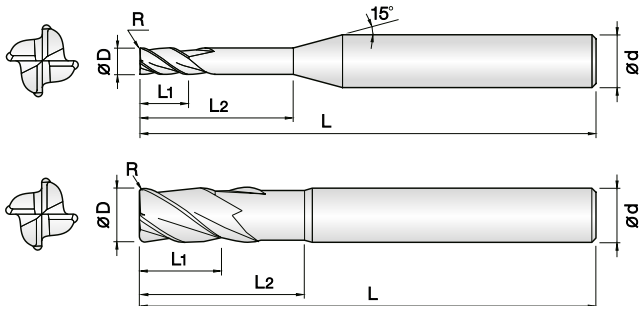
◀ zpět na obsah

# 2JJTC 2-břité TOROIDNÍ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68

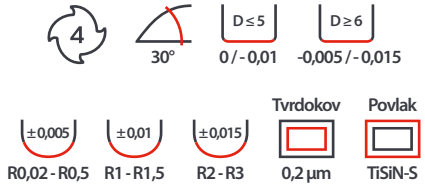
| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 2JJTC-030-005-5001 | 3 | R 0,5 | 1° | 50 | 3 | 90 | 6 | ☑ |
| 2JJTC-030-005-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 2JJTC-030-010-2001 | | R 0,1 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 2JJTC-030-010-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 2JJTC-030-010-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 2JJTC-030-010-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 2JJTC-030-010-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 2JJTC-040-002-2001 | 4 | R 0,2 | 1 | 20 | 4 | 60 | 6 | ☑ |
| 2JJTC-040-002-3001 | | | 1 | 30 | 4 | 70 | 6 | ☑ |
| 2JJTC-040-002-4001 | | | 1 | 40 | 4 | 80 | 6 | ☑ |
| 2JJTC-040-002-5001 | | | 1 | 50 | 4 | 90 | 6 | ☑ |
| 2JJTC-040-002-6001 | | | 1 | 60 | 4 | 100 | 6 | ☑ |
| 2JJTC-040-003-2001 | | | 1 | 20 | 4 | 60 | 6 | ☑ |
| 2JJTC-040-003-3001 | | R 0,3 | 1 | 30 | 4 | 70 | 6 | ☑ |
| 2JJTC-040-003-4001 | | | 1 | 40 | 4 | 80 | 6 | ☑ |
| 2JJTC-040-003-5001 | | | 1 | 50 | 4 | 90 | 6 | ☑ |
| 2JJTC-040-003-6001 | | | 1 | 60 | 4 | 100 | 6 | ☑ |
| 2JJTC-040-005-2001 | | R 0,5 | 1 | 20 | 4 | 60 | 6 | ☑ |
| 2JJTC-040-005-3001 | | | 1 | 30 | 4 | 70 | 6 | ☑ |
| 2JJTC-040-005-4001 | | | 1 | 40 | 4 | 80 | 6 | ☑ |
| 2JJTC-040-005-5001 | | | 1 | 50 | 4 | 90 | 6 | ☑ |
| 2JJTC-040-005-6001 | | | 1 | 60 | 4 | 100 | 6 | ☑ |
| 2JJTC-040-010-2001 | | R 1 | 1 | 20 | 4 | 60 | 6 | ☑ |
| 2JJTC-040-010-3001 | | | 1 | 30 | 4 | 70 | 6 | ☑ |
| 2JJTC-040-010-4001 | | | 1 | 40 | 4 | 80 | 6 | ☑ |
| 2JJTC-040-010-5001 | | | 1 | 50 | 4 | 90 | 6 | ☑ |
| 2JJTC-040-010-6001 | | | 1 | 60 | 4 | 100 | 6 | ☑ |

◀ zpět na obsah

# 4JJCR 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-005-0005-020 | 0,5 | R 0,05 | 2 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-0005-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-0005-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-0005-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-001-020 | | R 0,1 | 2 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-001-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-001-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-005-001-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 4JJCR-006-0005-020 | 0,6 | R 0,05 | 2 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-0005-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-0005-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-0005-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-001-020 | | R 0,1 | 2 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-001-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-001-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-006-001-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 4JJCR-007-0005-020 | 0,7 | R 0,05 | 2 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-0005-040 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-0005-060 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-0005-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-001-020 | | R 0,1 | 2 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-001-040 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-001-060 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-007-001-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 4JJCR-008-0002-020 | 0,8 | R 0,02 | 2 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0002-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0002-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4JJCR-008-0005-020 | | R 0,05 | 2 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0005-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0005-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0005-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0005-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-0005-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4JJCR-008-001-020 | | R 0,1 | 2 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-001-040 | | | 4 | 0,8 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-008-001-060 | 0,8 | R 0,1 | 6 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-001-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-001-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4JJCR-008-001-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4JJCR-010-0002-040 | 1 | R 0,02 | 4 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0005-040 | | R 0,05 | 4 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0005-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0005-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-0005-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0005-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0005-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0005-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-0005-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-001-040 | | R 0,1 | 4 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-001-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-001-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-001-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-001-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-001-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-001-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-001-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-002-040 | | R 0,2 | 4 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-003-040 | | R 0,3 | 4 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-003-060 | | | 6 | 1 | 45 | 4 | ☑ |

◀ zpět na obsah

# 4JJCR

## 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-010-003-080 | 1 | R 0,3 | 8 | 1 | 45 | 4 | ☑ |
| 4JJCR-010-003-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-003-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-003-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-003-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4JJCR-010-003-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4JJCR-012-0002-040 | 1,2 | R 0,02 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0005-040 | | R 0,05 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0005-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0005-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-0005-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0005-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0005-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0005-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-0005-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-001-040 | | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-001-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4JJCR-012-003-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-012-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4JJCR-015-0002-060 | 1,5 | R 0,02 | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-0002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-0002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0002-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-0005-060 | | R 0,05 | 6 | 1,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-015-0005-080 | 1,5 | R 0,05 | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-0005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-0005-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-001-060 | | R 0,1 | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-001-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-001-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-001-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-001-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-001-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-001-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-001-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-002-060 | | R 0,2 | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-002-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-002-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-003-060 | | R 0,3 | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-003-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-003-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-003-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-003-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-003-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-003-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-003-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-003-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-005-060 | | R 0,5 | 6 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4JJCR-015-005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4JJCR-015-005-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-015-005-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJCR-020-0002-060 | 2 | R 0,02 | 6 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-0002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-0002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-0002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-020-0005-060 | | R 0,05 | 6 | 2 | 45 | 4 | ☑ |

◀ zpět na obsah

# 4JJCR

## 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-020-0005-080 | 2 | R 0,05 | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-0005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-0005-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-0005-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-020-001-060 | | R 0,1 | 6 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-001-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-001-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-001-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-001-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-001-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-001-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-001-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-001-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-020-002-060 | | R 0,2 | 6 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-020-003-060 | | R 0,3 | 6 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-003-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-003-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-003-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-003-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-003-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-003-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-003-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-003-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-020-005-060 | | R 0,5 | 6 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4JJCR-020-005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4JJCR-020-005-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4JJCR-020-005-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4JJCR-025-001-100 | 2,5 | R 0,1 | 10 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-001-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-001-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-001-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4JJCR-025-001-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4JJCR-025-002-100 | | R 0,2 | 10 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-002-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-002-200 | | | 20 | 2,5 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-025-002-250 | 2,5 | R 0,2 | 25 | 2,5 | 60 | 4 | ☑ |
| 4JJCR-025-002-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4JJCR-025-003-100 | | R 0,3 | 10 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-003-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-003-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-003-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4JJCR-025-003-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4JJCR-025-005-100 | | R 0,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-005-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-005-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4JJCR-025-005-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4JJCR-025-005-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4JJCR-030-001-100 | 3 | R 0,1 | 10 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-001-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-001-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4JJCR-030-001-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4JJCR-030-001-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4JJCR-030-001-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4JJCR-030-001-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4JJCR-030-001-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4JJCR-030-001-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 4JJCR-030-002-100 | | R 0,2 | 10 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-002-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-002-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4JJCR-030-002-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4JJCR-030-002-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4JJCR-030-002-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4JJCR-030-002-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4JJCR-030-002-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4JJCR-030-002-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 4JJCR-030-003-100 | | R 0,3 | 10 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-003-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-003-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4JJCR-030-003-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4JJCR-030-003-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4JJCR-030-003-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4JJCR-030-003-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4JJCR-030-003-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4JJCR-030-003-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 4JJCR-030-005-100 | | R 0,5 | 10 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-005-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-005-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4JJCR-030-005-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4JJCR-030-005-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4JJCR-030-005-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4JJCR-030-005-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4JJCR-030-005-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4JJCR-030-005-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 4JJCR-030-005-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4JJCR-030-010-100 | | R 1 | 10 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-010-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4JJCR-030-010-160 | | | 16 | 3 | 55 | 6 | ☑ |

◀ zpět na obsah

# 4JJCR

## 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-030-010-200 | 3 | R 1 | 20 | 3 | 60 | 6 | ☑ |
| 4JJCR-030-010-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4JJCR-030-010-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4JJCR-030-010-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4JJCR-030-010-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4JJCR-030-010-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 4JJCR-030-010-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4JJCR-040-001-130 | 4 | R 0,1 | 13 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-001-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-001-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4JJCR-040-001-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4JJCR-040-001-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4JJCR-040-001-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4JJCR-040-001-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4JJCR-040-002-130 | | R 0,2 | 13 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-002-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-002-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4JJCR-040-002-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4JJCR-040-002-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4JJCR-040-002-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4JJCR-040-002-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4JJCR-040-002-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4JJCR-040-002-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4JJCR-040-003-130 | | R 0,3 | 13 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-003-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-003-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4JJCR-040-003-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4JJCR-040-003-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4JJCR-040-003-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4JJCR-040-003-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4JJCR-040-003-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4JJCR-040-003-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4JJCR-040-005-130 | | R 0,5 | 13 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-005-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-005-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4JJCR-040-005-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4JJCR-040-005-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4JJCR-040-005-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4JJCR-040-005-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4JJCR-040-005-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4JJCR-040-005-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4JJCR-040-005-550 | | | 55 | 4 | 100 | 6 | ☑ |
| 4JJCR-040-010-130 | | R 1 | 13 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-010-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4JJCR-040-010-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4JJCR-040-010-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4JJCR-040-010-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4JJCR-040-010-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4JJCR-040-010-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4JJCR-040-010-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4JJCR-040-010-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4JJCR-040-010-550 | | | 55 | 4 | 100 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-050-001-160 | 5 | R 0,1 | 16 | 5 | 60 | 6 | ☑ |
| 4JJCR-050-001-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4JJCR-050-001-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4JJCR-050-002-160 | | R 0,2 | 16 | 5 | 60 | 6 | ☑ |
| 4JJCR-050-002-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4JJCR-050-002-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4JJCR-050-003-160 | | R 0,3 | 16 | 5 | 60 | 6 | ☑ |
| 4JJCR-050-003-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4JJCR-050-003-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4JJCR-050-005-160 | | R 0,5 | 16 | 5 | 60 | 6 | ☑ |
| 4JJCR-050-005-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4JJCR-050-005-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4JJCR-050-005-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4JJCR-050-005-600 | | | 60 | 5 | 110 | 6 | ☑ |
| 4JJCR-050-010-160 | | R 1 | 16 | 5 | 60 | 6 | ☑ |
| 4JJCR-050-010-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4JJCR-050-010-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4JJCR-050-010-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4JJCR-050-010-600 | | | 60 | 5 | 110 | 6 | ☑ |
| 4JJCR-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-001-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-001-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-002-200 | | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-002-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-002-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-003-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-003-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-005-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-005-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-005-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 4JJCR-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-010-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-010-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-010-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 4JJCR-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 4JJCR-060-015-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-015-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-060-020-300 | | R 2 | 30 | 7 | 70 | 6 | ☑ |
| 4JJCR-060-020-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4JJCR-060-020-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4JJCR-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-002-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4JJCR-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-003-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4JJCR-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-005-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4JJCR-080-005-500 | | | 50 | 9 | 120 | 8 | ☑ |
| 4JJCR-080-005-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 4JJCR-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-010-400 | | | 40 | 9 | 100 | 8 | ☑ |

◀ zpět na obsah

# 4JJCR 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

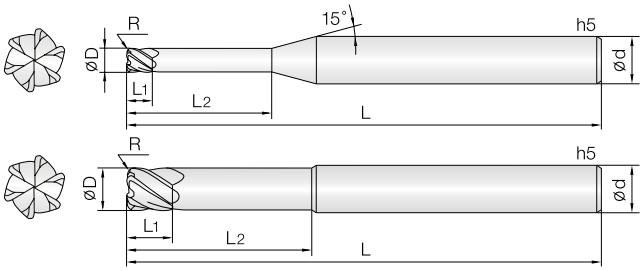
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJCR-080-010-500 | 8 | R 1 | 50 | 9 | 120 | 8 | ☑ |
| 4JJCR-080-010-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 4JJCR-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-015-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4JJCR-080-020-220 | | R 2 | 22 | 9 | 65 | 8 | ☑ |
| 4JJCR-080-020-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4JJCR-080-020-500 | | | 50 | 9 | 120 | 8 | ☑ |
| 4JJCR-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-002-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-003-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-005-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-005-500 | | | 50 | 11 | 120 | 10 | ☑ |
| 4JJCR-100-005-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 4JJCR-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-010-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-010-500 | | | 50 | 11 | 120 | 10 | ☑ |
| 4JJCR-100-010-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 4JJCR-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-015-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-100-020-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4JJCR-100-020-500 | | | 50 | 11 | 120 | 10 | ☑ |
| 4JJCR-100-025-240 | | R 2,5 | 24 | 11 | 70 | 10 | ☑ |
| 4JJCR-120-003-260 | 12 | R 2,5 | 26 | 13 | 80 | 12 | ☑ |
| 4JJCR-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 4JJCR-120-005-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4JJCR-120-005-600 | | | 60 | 13 | 130 | 12 | ☑ |
| 4JJCR-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 4JJCR-120-010-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4JJCR-120-010-600 | | | 60 | 13 | 130 | 12 | ☑ |
| 4JJCR-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |
| 4JJCR-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 4JJCR-120-020-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4JJCR-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |

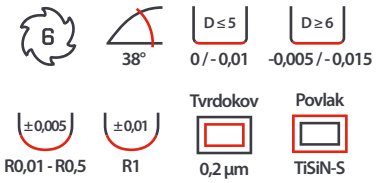
◀ zpět na obsah

# 6JJCR

## 6-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52 - 68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky rohovému rádiusu
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 6JJCR-030-001-120 | 3 | R 0,1 | 12 | 3 | 55 | 6 | ☑ |
| 6JJCR-030-001-160 | | | 16 | 3 | 60 | 6 | ☑ |
| 6JJCR-030-001-200 | | | 20 | 3 | 65 | 6 | ☑ |
| 6JJCR-030-001-250 | | | 25 | 3 | 70 | 6 | ☑ |
| 6JJCR-030-001-300 | | | 30 | 3 | 75 | 6 | ☑ |
| 6JJCR-030-002-120 | | R 0,2 | 12 | 3 | 55 | 6 | ☑ |
| 6JJCR-030-002-160 | | | 16 | 3 | 60 | 6 | ☑ |
| 6JJCR-030-002-200 | | | 20 | 3 | 65 | 6 | ☑ |
| 6JJCR-030-002-250 | | | 25 | 3 | 70 | 6 | ☑ |
| 6JJCR-030-002-300 | | | 30 | 3 | 75 | 6 | ☑ |
| 6JJCR-030-003-120 | | R 0,3 | 12 | 3 | 55 | 6 | ☑ |
| 6JJCR-030-003-160 | | | 16 | 3 | 60 | 6 | ☑ |
| 6JJCR-030-003-200 | | | 20 | 3 | 65 | 6 | ☑ |
| 6JJCR-030-003-250 | | | 25 | 3 | 70 | 6 | ☑ |
| 6JJCR-030-003-300 | | | 30 | 3 | 75 | 6 | ☑ |
| 6JJCR-030-005-120 | | R 0,5 | 12 | 3 | 55 | 6 | ☑ |
| 6JJCR-030-005-160 | | | 16 | 3 | 60 | 6 | ☑ |
| 6JJCR-030-005-200 | | | 20 | 3 | 65 | 6 | ☑ |
| 6JJCR-030-005-250 | | | 25 | 3 | 70 | 6 | ☑ |
| 6JJCR-030-005-300 | | | 30 | 3 | 75 | 6 | ☑ |
| 6JJCR-030-010-120 | | R 1 | 12 | 3 | 55 | 6 | ☑ |
| 6JJCR-030-010-160 | | | 16 | 3 | 60 | 6 | ☑ |
| 6JJCR-030-010-200 | | | 20 | 3 | 65 | 6 | ☑ |
| 6JJCR-030-010-250 | | | 25 | 3 | 70 | 6 | ☑ |
| 6JJCR-030-010-300 | | | 30 | 3 | 75 | 6 | ☑ |
| 6JJCR-040-001-120 | 4 | R 0,1 | 12 | 4 | 55 | 6 | ☑ |
| 6JJCR-040-001-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 6JJCR-040-001-200 | | | 20 | 4 | 65 | 6 | ☑ |
| 6JJCR-040-001-250 | | | 25 | 4 | 70 | 6 | ☑ |
| 6JJCR-040-001-300 | | | 30 | 4 | 75 | 6 | ☑ |
| 6JJCR-040-002-120 | | R 0,2 | 12 | 4 | 55 | 6 | ☑ |
| 6JJCR-040-002-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 6JJCR-040-002-200 | | | 20 | 4 | 65 | 6 | ☑ |
| 6JJCR-040-002-250 | | | 25 | 4 | 70 | 6 | ☑ |
| 6JJCR-040-002-300 | | | 30 | 4 | 75 | 6 | ☑ |
| 6JJCR-040-003-120 | | R 0,3 | 12 | 4 | 55 | 6 | ☑ |
| 6JJCR-040-003-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 6JJCR-040-003-200 | | | 20 | 4 | 65 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 6JJCR-040-003-250 | 4 | R 0,3 | 25 | 4 | 70 | 6 | ☑ |
| 6JJCR-040-003-300 | | | 30 | 4 | 75 | 6 | ☑ |
| 6JJCR-040-005-120 | | R 0,5 | 12 | 4 | 55 | 6 | ☑ |
| 6JJCR-040-005-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 6JJCR-040-005-200 | | | 20 | 4 | 65 | 6 | ☑ |
| 6JJCR-040-005-250 | | | 25 | 4 | 70 | 6 | ☑ |
| 6JJCR-040-005-300 | | | 30 | 4 | 75 | 6 | ☑ |
| 6JJCR-040-010-120 | | R 1 | 12 | 4 | 55 | 6 | ☑ |
| 6JJCR-040-010-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 6JJCR-040-010-200 | | | 20 | 4 | 65 | 6 | ☑ |
| 6JJCR-040-010-250 | | | 25 | 4 | 70 | 6 | ☑ |
| 6JJCR-040-010-300 | | | 30 | 4 | 75 | 6 | ☑ |
| 6JJCR-050-001-160 | 5 | R 0,1 | 16 | 5 | 60 | 6 | ☑ |
| 6JJCR-050-001-200 | | | 20 | 5 | 65 | 6 | ☑ |
| 6JJCR-050-001-300 | | | 30 | 5 | 75 | 6 | ☑ |
| 6JJCR-050-002-160 | | R 0,2 | 16 | 5 | 60 | 6 | ☑ |
| 6JJCR-050-002-200 | | | 20 | 5 | 65 | 6 | ☑ |
| 6JJCR-050-002-300 | | | 30 | 5 | 75 | 6 | ☑ |
| 6JJCR-050-003-160 | | R 0,3 | 16 | 5 | 60 | 6 | ☑ |
| 6JJCR-050-003-200 | | | 20 | 5 | 65 | 6 | ☑ |
| 6JJCR-050-003-300 | | | 30 | 5 | 75 | 6 | ☑ |
| 6JJCR-050-005-160 | | R 0,5 | 16 | 5 | 60 | 6 | ☑ |
| 6JJCR-050-005-200 | | | 20 | 5 | 65 | 6 | ☑ |
| 6JJCR-050-005-300 | | | 30 | 5 | 75 | 6 | ☑ |
| 6JJCR-050-010-160 | | R 1 | 16 | 5 | 60 | 6 | ☑ |
| 6JJCR-050-010-200 | | | 20 | 5 | 65 | 6 | ☑ |
| 6JJCR-050-010-300 | | | 30 | 5 | 75 | 6 | ☑ |
| 6JJCR-060-001-210 | 6 | R 0,1 | 21 | 6 | 60 | 6 | ☑ |
| 6JJCR-060-001-310 | | | 31 | 6 | 70 | 6 | ☑ |
| 6JJCR-060-001-410 | | | 41 | 6 | 80 | 6 | ☑ |
| 6JJCR-060-002-210 | | R 0,2 | 21 | 6 | 60 | 6 | ☑ |
| 6JJCR-060-002-310 | | | 31 | 6 | 70 | 6 | ☑ |
| 6JJCR-060-002-410 | | | 41 | 6 | 80 | 6 | ☑ |
| 6JJCR-060-003-210 | | R 0,3 | 21 | 6 | 60 | 6 | ☑ |
| 6JJCR-060-003-310 | | | 31 | 6 | 70 | 6 | ☑ |
| 6JJCR-060-003-410 | | | 41 | 6 | 80 | 6 | ☑ |
| 6JJCR-060-005-210 | | R 0,5 | 21 | 6 | 60 | 6 | ☑ |
| 6JJCR-060-005-310 | | | 31 | 6 | 70 | 6 | ☑ |

◀ zpět na obsah

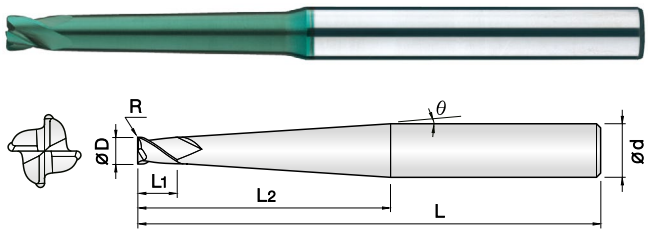
# 6JJCR 6-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 68

NOVINKA

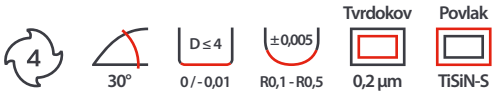
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 6JJCR-060-005-410 | 6 | R 0,5 | 41 | 6 | 80 | 6 | ☑ |
| 6JJCR-060-010-210 | | R 1 | 21 | 6 | 60 | 6 | ☑ |
| 6JJCR-060-010-310 | | | 31 | 6 | 70 | 6 | ☑ |
| 6JJCR-060-010-410 | | | 41 | 6 | 80 | 6 | ☑ |
| 6JJCR-080-003-260 | 8 | R 0,3 | 26 | 8 | 70 | 8 | ☑ |
| 6JJCR-080-003-360 | | | 36 | 8 | 80 | 8 | ☑ |
| 6JJCR-080-003-460 | | | 46 | 8 | 90 | 8 | ☑ |
| 6JJCR-080-005-260 | | R 0,5 | 26 | 8 | 70 | 8 | ☑ |
| 6JJCR-080-005-360 | | | 36 | 8 | 80 | 8 | ☑ |
| 6JJCR-080-005-460 | | | 46 | 8 | 90 | 8 | ☑ |
| 6JJCR-080-010-260 | | R 1 | 26 | 8 | 70 | 8 | ☑ |
| 6JJCR-080-010-360 | | | 36 | 8 | 80 | 8 | ☑ |
| 6JJCR-080-010-460 | | | 46 | 8 | 90 | 8 | ☑ |
| 6JJCR-100-003-310 | 10 | R 0,3 | 31 | 10 | 80 | 10 | ☑ |
| 6JJCR-100-003-410 | | | 41 | 10 | 90 | 10 | ☑ |
| 6JJCR-100-003-510 | | | 51 | 10 | 100 | 10 | ☑ |
| 6JJCR-100-005-310 | | R 0,5 | 31 | 10 | 80 | 10 | ☑ |
| 6JJCR-100-005-410 | | | 41 | 10 | 90 | 10 | ☑ |
| 6JJCR-100-005-510 | | | 51 | 10 | 100 | 10 | ☑ |
| 6JJCR-100-010-310 | | R 1 | 31 | 10 | 80 | 10 | ☑ |
| 6JJCR-100-010-410 | | | 41 | 10 | 90 | 10 | ☑ |
| 6JJCR-100-010-510 | | | 51 | 10 | 100 | 10 | ☑ |
| 6JJCR-120-003-360 | 12 | R 0,3 | 36 | 12 | 90 | 12 | ☑ |
| 6JJCR-120-003-460 | | | 46 | 12 | 100 | 12 | ☑ |
| 6JJCR-120-003-560 | | | 56 | 12 | 110 | 12 | ☑ |
| 6JJCR-120-005-360 | | R 0,5 | 36 | 12 | 90 | 12 | ☑ |
| 6JJCR-120-005-460 | | | 46 | 12 | 100 | 12 | ☑ |
| 6JJCR-120-005-560 | | | 56 | 12 | 110 | 12 | ☑ |
| 6JJCR-120-010-360 | | R 1 | 36 | 12 | 90 | 12 | ☑ |
| 6JJCR-120-010-460 | | | 46 | 12 | 100 | 12 | ☑ |
| 6JJCR-120-010-560 | | | 56 | 12 | 110 | 12 | ☑ |

◀ zpět na obsah

# 4JJTC 4-břité TOROIDNÍ frézy s kuželovým odlehčením pro žebrování pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52 - 68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vysoká tuhost díky kuželovému odlehčení
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

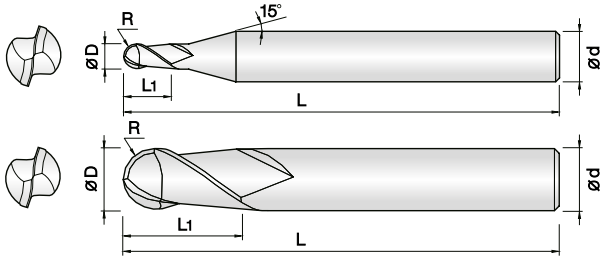



| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 4JJTC-010-001-0601 | 1 | R 0,1 | 1° | 6 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-001-1001 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-001-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-001-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 4JJTC-010-001-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 4JJTC-010-001-3001 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 4JJTC-010-001-3501 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 4JJTC-010-002-0601 | | R 0,2 | 1° | 6 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-002-1001 | | | 1° | 10 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-002-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-002-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 4JJTC-010-002-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 4JJTC-010-002-3001 | | | 1° | 30 | 1 | 70 | 4 | ☑ |
| 4JJTC-010-002-3501 | | | 1° | 35 | 1 | 75 | 4 | ☑ |
| 4JJTC-010-003-1001 | | R 0,3 | 1° | 10 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-003-1501 | | | 1° | 15 | 1 | 50 | 4 | ☑ |
| 4JJTC-010-003-2001 | | | 1° | 20 | 1 | 60 | 4 | ☑ |
| 4JJTC-010-003-2501 | | | 1° | 25 | 1 | 60 | 4 | ☑ |
| 4JJTC-015-002-1001 | 1,5 | R 0,2 | 1° | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJTC-015-002-1501 | | | 1° | 15 | 1,5 | 50 | 4 | ☑ |
| 4JJTC-015-002-2001 | | | 1° | 20 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-002-2501 | | | 1° | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-002-3001 | | | 1° | 30 | 1,5 | 70 | 4 | ☑ |
| 4JJTC-015-002-3501 | | | 1° | 35 | 1,5 | 75 | 4 | ☑ |
| 4JJTC-015-003-1501 | | R 0,3 | 1° | 15 | 1,5 | 50 | 4 | ☑ |
| 4JJTC-015-003-2001 | | | 1° | 20 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-003-2501 | | | 1° | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-005-1001 | | R 0,5 | 1° | 10 | 1,5 | 50 | 4 | ☑ |
| 4JJTC-015-005-1501 | | | 1° | 15 | 1,5 | 50 | 4 | ☑ |
| 4JJTC-015-005-2001 | | | 1° | 20 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-005-2501 | | | 1° | 25 | 1,5 | 60 | 4 | ☑ |
| 4JJTC-015-005-3001 | | | 1° | 30 | 1,5 | 70 | 4 | ☑ |
| 4JJTC-015-005-3501 | | | 1° | 35 | 1,5 | 75 | 4 | ☑ |
| 4JJTC-020-002-1201 | 2 | R 0,2 | 1° | 12 | 2 | 50 | 4 | ☑ |
| 4JJTC-020-002-1601 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 4JJTC-020-002-2001 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 4JJTC-020-002-2501 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 4JJTC-020-002-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 4JJTC-020-002-3501 | | | 1° | 35 | 2 | 75 | 4 | ☑ |

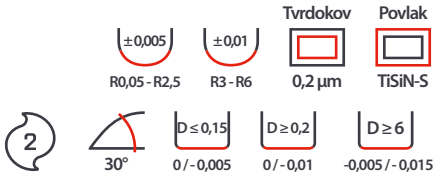
| Objednací číslo | D (mm) | R (mm) | Úhel θ | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 4JJTC-020-002-4001 | 2 | R 0,2 | 1° | 40 | 2 | 80 | 4 | ☑ |
| 4JJTC-020-002-5001 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 4JJTC-020-003-2001 | | R 0,3 | 1° | 20 | 2 | 60 | 4 | ☑ |
| 4JJTC-020-003-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 4JJTC-020-003-4001 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 4JJTC-020-005-1201 | | R 0,5 | 1° | 12 | 2 | 50 | 4 | ☑ |
| 4JJTC-020-005-1601 | | | 1° | 16 | 2 | 50 | 4 | ☑ |
| 4JJTC-020-005-2001 | | | 1° | 20 | 2 | 60 | 4 | ☑ |
| 4JJTC-020-005-2501 | | | 1° | 25 | 2 | 60 | 4 | ☑ |
| 4JJTC-020-005-3001 | | | 1° | 30 | 2 | 70 | 4 | ☑ |
| 4JJTC-020-005-3501 | | | 1° | 35 | 2 | 75 | 4 | ☑ |
| 4JJTC-020-005-4001 | | | 1° | 40 | 2 | 80 | 4 | ☑ |
| 4JJTC-020-005-5001 | | | 1° | 50 | 2 | 90 | 4 | ☑ |
| 4JJTC-030-002-2001 | 3 | R 0,2 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 4JJTC-030-002-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 4JJTC-030-002-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 4JJTC-030-002-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 4JJTC-030-002-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 4JJTC-030-003-4001 | | R 0,3 | 1° | 40 | 3 | 80 | 6 | ☑ |
| 4JJTC-030-003-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 4JJTC-030-003-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 4JJTC-030-005-2001 | | R 0,5 | 1° | 20 | 3 | 60 | 6 | ☑ |
| 4JJTC-030-005-3001 | | | 1° | 30 | 3 | 70 | 6 | ☑ |
| 4JJTC-030-005-4001 | | | 1° | 40 | 3 | 80 | 6 | ☑ |
| 4JJTC-030-005-5001 | | | 1° | 50 | 3 | 90 | 6 | ☑ |
| 4JJTC-030-005-6001 | | | 1° | 60 | 3 | 100 | 6 | ☑ |
| 4JJTC-040-002-2001 | 4 | R 0,2 | 1° | 20 | 4 | 60 | 6 | ☑ |
| 4JJTC-040-002-3001 | | | 1° | 30 | 4 | 70 | 6 | ☑ |
| 4JJTC-040-002-4001 | | | 1° | 40 | 4 | 80 | 6 | ☑ |
| 4JJTC-040-002-5001 | | | 1° | 50 | 4 | 90 | 6 | ☑ |
| 4JJTC-040-002-6001 | | | 1° | 60 | 4 | 100 | 6 | ☑ |
| 4JJTC-040-003-4001 | | R 0,3 | 1° | 40 | 4 | 80 | 6 | ☑ |
| 4JJTC-040-003-5001 | | | 1° | 50 | 4 | 90 | 6 | ☑ |
| 4JJTC-040-003-6001 | | | 1° | 60 | 4 | 100 | 6 | ☑ |
| 4JJTC-040-005-2001 | | R 0,5 | 1° | 20 | 4 | 60 | 6 | ☑ |
| 4JJTC-040-005-3001 | | | 1° | 30 | 4 | 70 | 6 | ☑ |
| 4JJTC-040-005-4001 | | | 1° | 40 | 4 | 80 | 6 | ☑ |
| 4JJTC-040-005-5001 | | | 1° | 50 | 4 | 90 | 6 | ☑ |
| 4JJTC-040-005-6001 | | | 1° | 60 | 4 | 100 | 6 | ☑ |

◀ zpět na obsah

# 2JJSB 2-břité KULOVÉ frézy krátké pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Vysoká tuhost
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



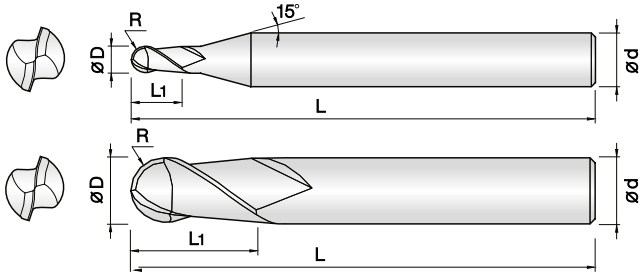

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJSB-001-001-S04 | 0,1 | R 0,05 | 0,1 | 40 | 4 | ☑ |
| 2JJSB-001-0015-S04 | | | 0,15 | 40 | 4 | ☑ |
| 2JJSB-0015-0015-S04 | 0,15 | R 0,075 | 0,15 | 40 | 4 | ☑ |
| 2JJSB-0015-002-S04 | | | 0,2 | 40 | 4 | ☑ |
| 2JJSB-002-002-S04 | 0,2 | R 0,1 | 0,2 | 40 | 4 | ☑ |
| 2JJSB-002-003-S04 | | | 0,3 | 40 | 4 | ☑ |
| 2JJSB-003-003-S04 | 0,3 | R 0,15 | 0,3 | 40 | 4 | ☑ |
| 2JJSB-003-0045-S04 | | | 0,45 | 40 | 4 | ☑ |
| 2JJSB-004-004-S04 | 0,4 | R 0,2 | 0,4 | 40 | 4 | ☑ |
| 2JJSB-004-006-S04 | | | 0,6 | 40 | 4 | ☑ |
| 2JJSB-005-005-S04 | 0,5 | R 0,25 | 0,5 | 40 | 4 | ☑ |
| 2JJSB-005-0075-S04 | | | 0,75 | 40 | 4 | ☑ |
| 2JJSB-006-006-S04 | 0,6 | R 0,3 | 0,6 | 40 | 4 | ☑ |
| 2JJSB-006-009-S04 | | | 0,9 | 40 | 4 | ☑ |
| 2JJSB-007-007-S04 | 0,7 | R 0,35 | 0,7 | 40 | 4 | ☑ |
| 2JJSB-007-010-S04 | | | 1 | 40 | 4 | ☑ |
| 2JJSB-008-008-S04 | 0,8 | R 0,4 | 0,8 | 40 | 4 | ☑ |
| 2JJSB-008-012-S04 | | | 1,2 | 40 | 4 | ☑ |
| 2JJSB-009-009-S04 | 0,9 | R 0,45 | 0,9 | 40 | 4 | ☑ |
| 2JJSB-009-013-S04 | | | 1,3 | 40 | 4 | ☑ |
| 2JJSB-010-010-S04 | 1 | R 0,5 | 1 | 40 | 4 | ☑ |
| 2JJSB-010-010-S06 | | | 1 | 40 | 6 | ☑ |
| 2JJSB-010-015-S04 | | | 1,5 | 40 | 4 | ☑ |
| 2JJSB-010-015-S06 | | | 1,5 | 40 | 6 | ☑ |
| 2JJSB-012-012-S04 | 1,2 | R 0,6 | 1,2 | 40 | 4 | ☑ |
| 2JJSB-015-015-S04 | 1,5 | | 1,5 | 40 | 4 | ☑ |
| 2JJSB-015-015-S06 | | R 0,75 | 1,5 | 40 | 6 | ☑ |
| 2JJSB-015-023-S04 | | | 2,3 | 40 | 4 | ☑ |
| 2JJSB-015-023-S06 | | | 2,3 | 40 | 6 | ☑ |
| 2JJSB-020-020-S04 | 2 | R 1 | 2 | 45 | 4 | ☑ |
| 2JJSB-020-020-S06 | | | 2 | 45 | 6 | ☑ |
| 2JJSB-020-030-S04 | | | 3 | 45 | 4 | ☑ |
| 2JJSB-020-030-S06 | | | 3 | 45 | 6 | ☑ |
| 2JJSB-025-025-S06 | 2,5 | R 1,25 | 2,5 | 45 | 6 | ☑ |
| 2JJSB-030-030-S04 | 3 | R 1,5 | 3 | 45 | 4 | ☑ |
| 2JJSB-030-030-S06 | | | 3 | 45 | 6 | ☑ |
| 2JJSB-030-045-S04 | | | 4,5 | 45 | 4 | ☑ |
| 2JJSB-030-045-S06 | | | 4,5 | 45 | 6 | ☑ |

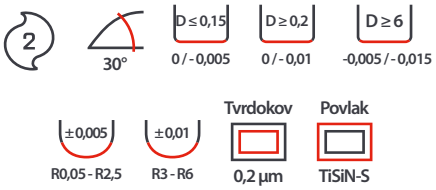
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJSB-040-040-S04 | 4 | R 2 | 4 | 45 | 4 | ☑ |
| 2JJSB-040-040-S06 | | | 4 | 45 | 6 | ☑ |
| 2JJSB-040-060-S04 | | | 6 | 45 | 4 | ☑ |
| 2JJSB-040-060-S06 | | | 6 | 45 | 6 | ☑ |
| 2JJSB-050-050-S06 | 5 | R 2,5 | 5 | 50 | 6 | ☑ |
| 2JJSB-050-075-S06 | | | 7,5 | 50 | 6 | ☑ |
| 2JJSB-060-060-050 | 6 | R 3 | 6 | 50 | 6 | ☑ |
| 2JJSB-060-080-055 | | | 8 | 55 | 6 | ☑ |
| 2JJSB-080-080-050 | 8 | R 4 | 8 | 50 | 8 | ☑ |
| 2JJSB-080-110-060 | | | 11 | 60 | 8 | ☑ |
| 2JJSB-100-100-060 | 10 | R 5 | 10 | 60 | 10 | ☑ |
| 2JJSB-100-130-070 | | | 13 | 70 | 10 | ☑ |
| 2JJSB-120-120-060 | 12 | R 6 | 12 | 60 | 12 | ☑ |
| 2JJSB-120-150-070 | | | 15 | 70 | 12 | ☑ |

◀ zpět na obsah

# 2JJB 2-břité KULOVÉ frézy pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



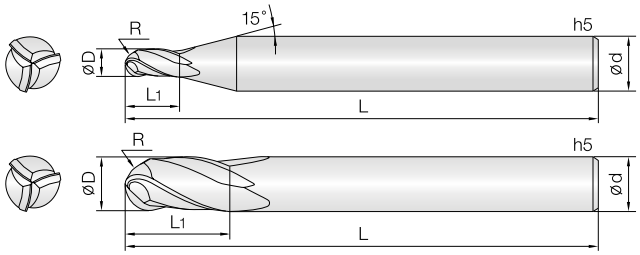

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJB-001-002-S04 | 0,1 | R 0,05 | 0,2 | 40 | 4 | ☑ |
| 2JJB-0015-003-S04 | 0,15 | R 0,075 | 0,3 | 40 | 4 | ☑ |
| 2JJB-002-004-S04 | 0,2 | R 0,1 | 0,4 | 40 | 4 | ☑ |
| 2JJB-003-006-S04 | 0,3 | R 0,15 | 0,6 | 40 | 4 | ☑ |
| 2JJB-004-008-S04 | 0,4 | R 0,2 | 0,8 | 40 | 4 | ☑ |
| 2JJB-005-010-S04 | 0,5 | R 0,25 | 1 | 45 | 4 | ☑ |
| 2JJB-006-012-S04 | 0,6 | R 0,3 | 1,2 | 45 | 4 | ☑ |
| 2JJB-007-015-S04 | 0,7 | R 0,35 | 1,5 | 45 | 4 | ☑ |
| 2JJB-008-020-S04 | 0,8 | R 0,4 | 2 | 45 | 4 | ☑ |
| 2JJB-009-020-S04 | 0,9 | R 0,45 | 2 | 45 | 4 | ☑ |
| 2JJB-010-025-S03 | 1 | R 0,5 | 2,5 | 50 | 3 | ☑ |
| 2JJB-010-025-S04 | 1 | R 0,5 | 2,5 | 50 | 4 | ☑ |
| 2JJB-010-025-S06 | | | 2,5 | 50 | 6 | ☑ |
| 2JJB-010-025-070 | | | 2,5 | 70 | 6 | ☑ |
| 2JJB-012-030-S03 | 1,2 | R 0,6 | 3 | 50 | 3 | ☑ |
| 2JJB-012-030-S04 | | | 3 | 50 | 4 | ☑ |
| 2JJB-015-040-S03 | 1,5 | R 0,75 | 4 | 50 | 3 | ☑ |
| 2JJB-015-040-S04 | | | 4 | 50 | 4 | ☑ |
| 2JJB-015-040-S06 | | | 4 | 50 | 6 | ☑ |
| 2JJB-015-040-070 | | | 4 | 70 | 6 | ☑ |
| 2JJB-020-050-S03 | 2 | R 1 | 5 | 50 | 3 | ☑ |
| 2JJB-020-050-S04 | | | 5 | 50 | 4 | ☑ |
| 2JJB-020-050-S06 | | | 5 | 50 | 6 | ☑ |
| 2JJB-020-050-075 | | | 5 | 75 | 6 | ☑ |
| 2JJB-025-060-S03 | 2,5 | R 1,25 | 6 | 50 | 3 | ☑ |
| 2JJB-025-060-S04 | | | 6 | 50 | 4 | ☑ |
| 2JJB-025-060-S06 | | | 6 | 75 | 6 | ☑ |
| 2JJB-030-080-S03 | 3 | R 1,5 | 8 | 50 | 3 | ☑ |
| 2JJB-030-080-S04 | | | 8 | 50 | 4 | ☑ |
| 2JJB-030-080-S06 | | | 8 | 60 | 6 | ☑ |
| 2JJB-030-080-080 | | | 8 | 80 | 6 | ☑ |
| 2JJB-035-080-S06 | 3,5 | R 1,75 | 8 | 60 | 6 | ☑ |
| 2JJB-040-080-S04 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 2JJB-040-080-080 | | | 8 | 80 | 4 | ☑ |
| 2JJB-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 2JJB-040-080-090 | | | 8 | 90 | 6 | ☑ |
| 2JJB-045-080-S06 | 4,5 | R 2,25 | 8 | 70 | 6 | ☑ |
| 2JJB-050-100-S06 | 5 | R 2,5 | 10 | 75 | 6 | ☑ |

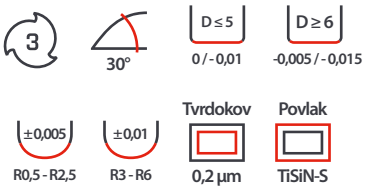
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJB-055-100-S06 | 5,5 | R 2,75 | 10 | 75 | 6 | ☑ |
| 2JJB-060-100-060 | 6 | R 3 | 10 | 60 | 6 | ☑ |
| 2JJB-060-120-080 | | | 12 | 80 | 6 | ☑ |
| 2JJB-060-120-090 | | | 12 | 90 | 6 | ☑ |
| 2JJB-070-140-S08 | 7 | R 3,5 | 14 | 80 | 8 | ☑ |
| 2JJB-080-120-060 | 8 | R 4 | 12 | 60 | 8 | ☑ |
| 2JJB-080-140-090 | | | 14 | 90 | 8 | ☑ |
| 2JJB-080-140-100 | | | 14 | 100 | 8 | ☑ |
| 2JJB-100-150-070 | 10 | R 5 | 15 | 70 | 10 | ☑ |
| 2JJB-100-180-100 | | | 18 | 100 | 10 | ☑ |
| 2JJB-120-180-075 | 12 | R 6 | 18 | 75 | 12 | ☑ |
| 2JJB-120-220-110 | | | 22 | 110 | 12 | ☑ |
| 2JJB-140-240-110 | 14 | R 7 | 24 | 110 | 14 | ☑ |

◀ zpět na obsah

# 3JJB 3-břité KULOVÉ frézy pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Vysoká produktivita obrábění díky třem břitům
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

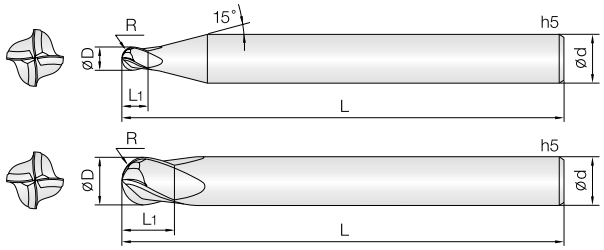



NOVINKA

| Objednací číslo | D (mm) | R (mm) | L (mm) | L1 (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 3JJB-010-025-S04 | 1 | R 0,5 | 50 | 2,5 | 4 | ☑ |
| 3JJB-012-030-S04 | 1,2 | R 0,6 | 50 | 3 | 4 | ☑ |
| 3JJB-015-040-S04 | 1,5 | R 0,75 | 50 | 4 | 4 | ☑ |
| 3JJB-020-050-S06 | 2 | R 1 | 50 | 5 | 6 | ☑ |
| 3JJB-030-080-S06 | 3 | R 1,5 | 65 | 8 | 6 | ☑ |
| 3JJB-040-080-S04 | 4 | R 2 | 60 | 8 | 4 | ☑ |
| 3JJB-040-080-S06 | | | 70 | 8 | 6 | ☑ |
| 3JJB-050-100-S06 | 5 | R 2,5 | 75 | 10 | 6 | ☑ |
| 3JJB-060-120-S06 | 6 | R 3 | 80 | 12 | 6 | ☑ |
| 3JJB-060-120-120 | | | 120 | 12 | 6 | ☑ |
| 3JJB-080-140-S08 | 8 | R 4 | 90 | 14 | 8 | ☑ |
| 3JJB-080-140-150 | | | 150 | 14 | 8 | ☑ |
| 3JJB-100-180-S10 | 10 | R 5 | 100 | 18 | 10 | ☑ |
| 3JJB-100-180-150 | | | 150 | 18 | 10 | ☑ |
| 3JJB-120-220-S12 | 12 | R 6 | 110 | 22 | 12 | ☑ |
| 3JJB-120-220-150 | | | 150 | 22 | 12 | ☑ |

◀ zpět na obsah

# 4JJSB 4-břité KULOVÉ frézy krátké pro kalené oceli do HRC 68



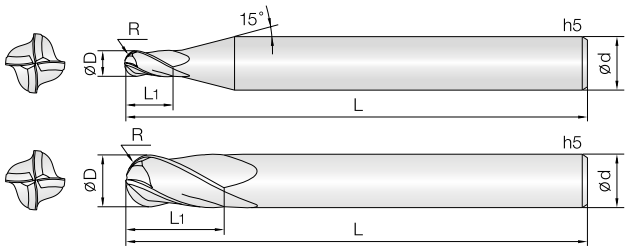

- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Krátká celková délka pro snadné použití se sklíčidlem
- Vysoká produktivita obrábění díky čtyřem břitům
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJSB-010-012-S04 | 1 | R 0,5 | 1,2 | 40 | 4 | ☑ |
| 4JJSB-012-015-S04 | 1,2 | R 0,6 | 1,5 | 40 | 4 | ☑ |
| 4JJSB-015-018-S04 | 1,5 | R 0,75 | 1,8 | 40 | 4 | ☑ |
| 4JJSB-020-024-S04 | 2 | R 1 | 2,4 | 40 | 4 | ☑ |
| 4JJSB-025-030-S04 | 2,5 | R 1,25 | 3 | 45 | 4 | ☑ |
| 4JJSB-030-036-S06 | 3 | R 1,5 | 3,6 | 45 | 6 | ☑ |
| 4JJSB-040-050-S04 | 4 | R 2 | 5 | 45 | 4 | ☑ |
| 4JJSB-040-050-S06 | | | 5 | 45 | 6 | ☑ |
| 4JJSB-050-060-S06 | 5 | R 2,5 | 6 | 50 | 6 | ☑ |
| 4JJSB-060-070-S06 | 6 | R 3 | 7 | 50 | 6 | ☑ |
| 4JJSB-060-070-060 | | | 7 | 60 | 6 | ☑ |
| 4JJSB-080-080-S08 | 8 | R 4 | 8 | 60 | 8 | ☑ |
| 4JJSB-100-100-S10 | 10 | R 5 | 10 | 60 | 10 | ☑ |
| 4JJSB-120-120-S12 | 12 | R 6 | 12 | 75 | 12 | ☑ |

◀ zpět na obsah

# 4JJB 4-břité KULOVÉ frézy pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Vysoká produktivita obrábění díky čtyřem břitům
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

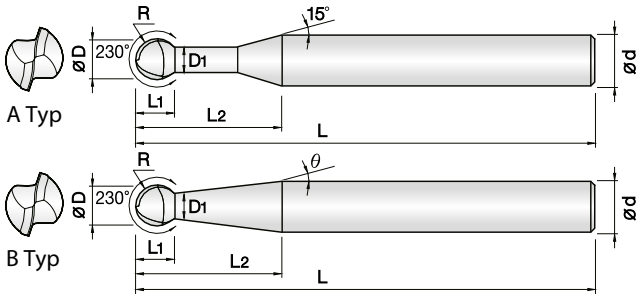
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L (mm) | L1 (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJB-010-025-S06 | 1 | R 0,5 | 50 | 2,5 | 6 | ☑ |
| 4JJB-010-025-080 | | | 80 | 2,5 | 6 | ☑ |
| 4JJB-012-030-S06 | 1,2 | R 0,6 | 50 | 3 | 6 | ☑ |
| 4JJB-015-040-S06 | 1,5 | R 0,75 | 50 | 4 | 6 | ☑ |
| 4JJB-015-040-080 | | | 80 | 4 | 6 | ☑ |
| 4JJB-020-050-S06 | 2 | R 1 | 50 | 5 | 6 | ☑ |
| 4JJB-020-050-080 | | | 80 | 5 | 6 | ☑ |
| 4JJB-025-070-S06 | 2,5 | R 1,25 | 50 | 7 | 6 | ☑ |
| 4JJB-025-070-080 | | | 80 | 7 | 6 | ☑ |
| 4JJB-030-080-S06 | 3 | R 1,5 | 60 | 8 | 6 | ☑ |
| 4JJB-030-080-090 | | | 90 | 8 | 6 | ☑ |
| 4JJB-040-080-S04 | 4 | R 2 | 60 | 8 | 4 | ☑ |
| 4JJB-040-080-090 | | | 90 | 8 | 4 | ☑ |
| 4JJB-040-080-S06 | | | 70 | 8 | 6 | ☑ |
| 4JJB-040-080-100 | | | 100 | 8 | 6 | ☑ |
| 4JJB-050-100-S06 | 5 | R 2,5 | 80 | 10 | 6 | ☑ |
| 4JJB-050-100-110 | | | 110 | 10 | 6 | ☑ |
| 4JJB-060-120-S06 | 6 | R 3 | 90 | 12 | 6 | ☑ |
| 4JJB-060-120-110 | | | 110 | 12 | 6 | ☑ |
| 4JJB-080-140-S08 | 8 | R 4 | 100 | 14 | 8 | ☑ |
| 4JJB-080-140-150 | | | 150 | 14 | 8 | ☑ |
| 4JJB-100-180-S10 | 10 | R 5 | 100 | 18 | 10 | ☑ |
| 4JJB-100-180-150 | | | 150 | 18 | 10 | ☑ |
| 4JJB-120-220-S12 | 12 | R 6 | 110 | 22 | 12 | ☑ |
| 4JJB-120-220-150 | | | 150 | 22 | 12 | ☑ |
| 4JJB-140-240-110 | 14 | R 7 | 110 | 24 | 14 | ☑ |
| 4JJB-160-300-S16 | 16 | R 8 | 130 | 30 | 16 | ☑ |
| 4JJB-160-300-160 | | | 160 | 30 | 16 | ☑ |
| 4JJB-200-400-S20 | 20 | R 10 | 160 | 40 | 20 | ☑ |
| 4JJB-200-400-200 | | | 200 | 40 | 20 | ☑ |

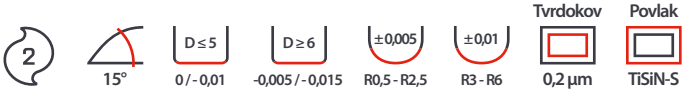
◀ zpět na obsah

# 2JJSP

## 2-břité KULOVÉ frézy s rádiusem 230° pro kalené oceli do HRC 68

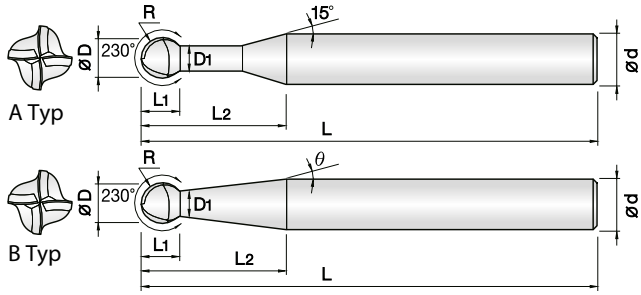



- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- 230° rádius pro vyšší rozsah 3D obrábění
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

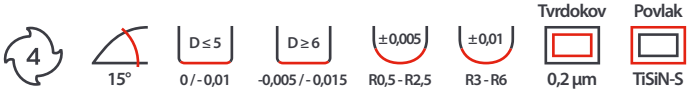



| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | D1 (mm) | Úhel θ | L (mm) | d h5 (mm) | Typ | Standardní položka |
|---|---|---|---|---|---|---|---|---|---|---|
| 2JJSP-010-040-S06 | 1 | R 0,5 | 4 | 0,7 | 0,91 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-010-060-S06 | | | 6 | 0,7 | 0,91 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-010-013-200 | | | 20 | 0,7 | 0,91 | 1° 30' | 80 | 6 | B | ☑ |
| 2JJSP-015-060-S06 | 1,5 | R 0,75 | 6 | 1 | 1,36 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-015-080-S06 | | | 8 | 1 | 1,36 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-015-013-200 | | | 20 | 1 | 1,36 | 1° 30' | 80 | 6 | B | ☑ |
| 2JJSP-020-060-S06 | 2 | R 1 | 6 | 1,4 | 1,8 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-020-100-S06 | | | 10 | 1,4 | 1,8 | 0° | 60 | 6 | A | ☑ |
| 2JJSP-020-013-200 | | | 20 | 1,4 | 1,8 | 1° 30' | 80 | 6 | B | ☑ |
| 2JJSP-030-100-S06 | 3 | R 1,5 | 10 | 2,1 | 2,7 | 0° | 70 | 6 | A | ☑ |
| 2JJSP-030-150-S06 | | | 15 | 2,1 | 2,7 | 0° | 70 | 6 | A | ☑ |
| 2JJSP-030-013-300 | | | 30 | 2,1 | 2,7 | 1° 30' | 80 | 6 | B | ☑ |
| 2JJSP-040-120-S06 | 4 | R 2 | 12 | 2,8 | 3,6 | 0° | 70 | 6 | A | ☑ |
| 2JJSP-040-200-S06 | | | 20 | 2,8 | 3,6 | 0° | 70 | 6 | A | ☑ |
| 2JJSP-040-030-250 | | | 25 | 2,8 | 3,6 | 3° | 80 | 6 | B | ☑ |
| 2JJSP-050-010-400 | 5 | R 2,5 | 40 | 3,5 | 4,5 | 1° | 90 | 6 | B | ☑ |
| 2JJSP-060-150-S06 | 6 | R 3 | 15 | 4,2 | 5,4 | 0° | 90 | 6 | A | ☑ |
| 2JJSP-060-300-S06 | | | 30 | 4,2 | 5,4 | 0° | 90 | 6 | A | ☑ |
| 2JJSP-060-010-210 | | | 21 | 4,2 | 5,4 | 1° | 100 | 6 | B | ☑ |
| 2JJSP-080-010-280 | 8 | R 4 | 28 | 5,7 | 7,2 | 1° | 100 | 8 | B | ☑ |
| 2JJSP-100-010-350 | 10 | R 5 | 35 | 7,1 | 9 | 1° | 110 | 10 | B | ☑ |
| 2JJSP-120-010-420 | 12 | R 6 | 42 | 8,5 | 10,8 | 1° | 120 | 12 | B | ☑ |

# 4JJSP 4-břité KULOVÉ frézy s rádiusem 230° pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- 230° rádius pro vyšší rozsah 3D obrábění
- Vyšší posuvy díky 4 řezným hranám
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

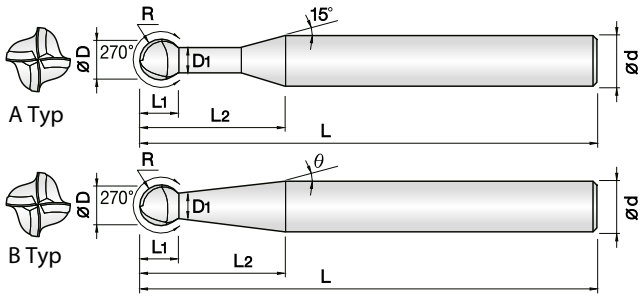



| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | D1 (mm) | Úhel θ | L (mm) | d h5 (mm) | Typ | Standardní položka |
|---|---|---|---|---|---|---|---|---|---|---|
| 4JJSP-010-040-S06 | 1 | R 0,5 | 4 | 0,7 | 0,91 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-010-060-S06 | | | 6 | 0,7 | 0,91 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-010-013-200 | | | 20 | 0,7 | 0,91 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSP-015-060-S06 | 1,5 | R 0,75 | 6 | 1 | 1,36 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-015-080-S06 | | | 8 | 1 | 1,36 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-015-013-200 | | | 20 | 1 | 1,36 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSP-020-060-S06 | 2 | R 1 | 6 | 1,4 | 1,8 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-020-100-S06 | | | 10 | 1,4 | 1,8 | 0° | 60 | 6 | A | ☑ |
| 4JJSP-020-013-200 | | | 20 | 1,4 | 1,8 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSP-030-100-S06 | 3 | R 1,5 | 10 | 2,1 | 2,7 | 0° | 70 | 6 | A | ☑ |
| 4JJSP-030-150-S06 | | | 15 | 2,1 | 2,7 | 0° | 70 | 6 | A | ☑ |
| 4JJSP-030-013-300 | | | 30 | 2,1 | 2,7 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSP-040-120-S06 | 4 | R 2 | 12 | 2,8 | 3,6 | 0° | 70 | 6 | A | ☑ |
| 4JJSP-040-200-S06 | | | 20 | 2,8 | 3,6 | 0° | 70 | 6 | A | ☑ |
| 4JJSP-040-030-250 | | | 25 | 2,8 | 3,6 | 3° | 80 | 6 | B | ☑ |
| 4JJSP-050-010-400 | 5 | R 2,5 | 40 | 3,5 | 4,5 | 1° | 90 | 6 | B | ☑ |
| 4JJSP-060-150-S06 | 6 | R 3 | 15 | 4,2 | 5,4 | 0° | 90 | 6 | A | ☑ |
| 4JJSP-060-300-S06 | | | 30 | 4,2 | 5,4 | 0° | 90 | 6 | A | ☑ |
| 4JJSP-060-010-210 | | | 21 | 4,2 | 5,4 | 1° | 100 | 6 | B | ☑ |
| 4JJSP-080-010-280 | 8 | R 4 | 28 | 5,7 | 7,2 | 1° | 100 | 8 | B | ☑ |
| 4JJSP-100-010-350 | 10 | R 5 | 35 | 7,1 | 9 | 1° | 110 | 10 | B | ☑ |
| 4JJSP-120-010-420 | 12 | R 6 | 42 | 8,5 | 10,8 | 1° | 120 | 12 | B | ☑ |

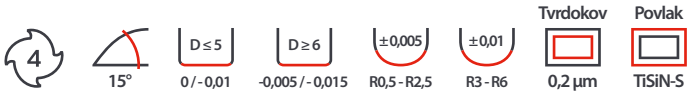
◀ zpět na obsah

# 4JJSPM

## 4-břité KULOVÉ frézy s rádiusem 270° pro kalené oceli do HRC 68



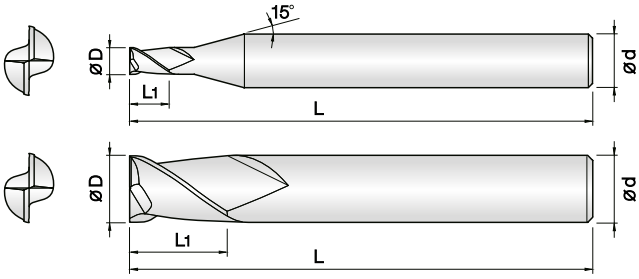

- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- 270° rádius pro vyšší rozsah 3D obrábění
- Vyšší posuvy díky 4 řezným hranám
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | D1 (mm) | Úhel θ | L (mm) | d h5 (mm) | Typ | Standardní položka |
|---|---|---|---|---|---|---|---|---|---|---|
| 4JJSPM-010-040-S06 | 1 | R 0,5 | 4 | 0,8 | 0,7 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-010-060-S06 | | | 6 | 0,8 | 0,7 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-010-013-200 | | | 20 | 0,8 | 0,7 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSPM-015-060-S06 | 1,5 | R 0,75 | 6 | 1,2 | 1 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-015-080-S06 | | | 8 | 1,2 | 1 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-015-013-200 | | | 20 | 1,2 | 1 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSPM-020-060-S06 | 2 | R 1 | 6 | 1,7 | 1,4 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-020-100-S06 | | | 10 | 1,7 | 1,4 | 0° | 60 | 6 | A | ☑ |
| 4JJSPM-020-013-200 | | | 20 | 1,7 | 1,4 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSPM-030-100-S06 | 3 | R 1,5 | 10 | 2,5 | 2,1 | 0° | 70 | 6 | A | ☑ |
| 4JJSPM-030-150-S06 | | | 15 | 2,5 | 2,1 | 0° | 70 | 6 | A | ☑ |
| 4JJSPM-030-013-300 | | | 30 | 2,5 | 2,1 | 1° 30' | 80 | 6 | B | ☑ |
| 4JJSPM-040-120-S06 | 4 | R 2 | 12 | 3,4 | 2,8 | 0° | 70 | 6 | A | ☑ |
| 4JJSPM-040-200-S06 | | | 20 | 3,4 | 2,8 | 0° | 70 | 6 | A | ☑ |
| 4JJSPM-040-030-250 | | | 25 | 3,4 | 2,8 | 3° | 80 | 6 | B | ☑ |
| 4JJSPM-050-010-400 | 5 | R 2,5 | 40 | 4,2 | 3,5 | 1° | 90 | 6 | B | ☑ |
| 4JJSPM-060-150-S06 | 6 | R 3 | 15 | 5,1 | 4,2 | 0° | 90 | 6 | A | ☑ |
| 4JJSPM-060-300-S06 | | | 30 | 5,1 | 4,2 | 0° | 90 | 6 | A | ☑ |
| 4JJSPM-060-010-210 | | | 21 | 5,1 | 4,2 | 1° | 100 | 6 | B | ☑ |
| 4JJSPM-080-010-280 | 8 | R 4 | 28 | 6,8 | 5,6 | 1° | 100 | 8 | B | ☑ |
| 4JJSPM-100-010-350 | 10 | R 5 | 35 | 8,5 | 7 | 1° | 110 | 10 | B | ☑ |
| 4JJSPM-120-010-420 | 12 | R 6 | 42 | 10 | 8,5 | 1° | 120 | 12 | B | ☑ |

◀ zpět na obsah

# 2JJE 2-břité OSTRÉ frézy pro kalené oceli do HRC 65




- Určeno pro kalené oceli (52–65 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| 2 | 30° | D≤0,15 | D≥0,2 | D≥6 | D≥14 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|---|
| | | 0/-0,005 | 0/-0,01 | -0,01/-0,025 | -0,015/-0,03 | 0,2 µm | TiSiN-S |

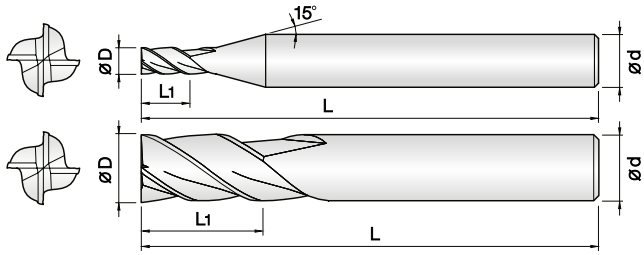
NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2JJE-0003-00045-S04 | 0,03 | 0,045 | 40 | 4 | ☑ |
| 2JJE-0004-0006-S04 | 0,04 | 0,06 | 40 | 4 | ☑ |
| 2JJE-0005-0008-S04 | 0,05 | 0,08 | 40 | 4 | ☑ |
| 2JJE-0006-001-S04 | 0,06 | 0,1 | 40 | 4 | ☑ |
| 2JJE-0007-0012-S04 | 0,07 | 0,12 | 40 | 4 | ☑ |
| 2JJE-0008-0015-S04 | 0,08 | 0,15 | 40 | 4 | ☑ |
| 2JJE-0009-0017-S04 | 0,09 | 0,17 | 40 | 4 | ☑ |
| 2JJE-001-002-S04 | 0,1 | 0,2 | 40 | 4 | ☑ |
| 2JJE-0015-003-S04 | 0,15 | 0,3 | 40 | 4 | ☑ |
| 2JJE-002-004-S04 | 0,2 | 0,4 | 40 | 4 | ☑ |
| 2JJE-0025-005-S04 | 0,25 | 0,5 | 40 | 4 | ☑ |
| 2JJE-003-006-S04 | 0,3 | 0,6 | 40 | 4 | ☑ |
| 2JJE-0035-007-S04 | 0,35 | 0,7 | 40 | 4 | ☑ |
| 2JJE-004-008-S04 | 0,4 | 0,8 | 40 | 4 | ☑ |
| 2JJE-0045-009-S04 | 0,45 | 0,9 | 40 | 4 | ☑ |
| 2JJE-005-010-S04 | 0,5 | 1 | 40 | 4 | ☑ |
| 2JJE-0055-011-S04 | 0,55 | 1,1 | 40 | 4 | ☑ |
| 2JJE-006-012-S04 | 0,6 | 1,2 | 40 | 4 | ☑ |
| 2JJE-0065-013-S04 | 0,65 | 1,3 | 40 | 4 | ☑ |
| 2JJE-007-014-S04 | 0,7 | 1,4 | 40 | 4 | ☑ |
| 2JJE-0075-015-S04 | 0,75 | 1,5 | 40 | 4 | ☑ |
| 2JJE-008-016-S04 | 0,8 | 1,6 | 40 | 4 | ☑ |
| 2JJE-0085-017-S04 | 0,85 | 1,7 | 40 | 4 | ☑ |
| 2JJE-009-020-S04 | 0,9 | 2 | 40 | 4 | ☑ |
| 2JJE-0095-020-S04 | 0,95 | 2 | 40 | 4 | ☑ |
| 2JJE-010-025-S03 | 1 | 2,5 | 40 | 3 | ☑ |
| 2JJE-010-025-S04 | 1 | 2,5 | 40 | 4 | ☑ |
| 2JJE-010-025-S06 | 1 | 2,5 | 40 | 6 | ☑ |
| 2JJE-011-027-S04 | 1,1 | 2,7 | 40 | 4 | ☑ |
| 2JJE-012-030-S03 | 1,2 | 3 | 40 | 3 | ☑ |
| 2JJE-012-030-S04 | 1,2 | 3 | 40 | 4 | ☑ |
| 2JJE-013-032-S04 | 1,3 | 3,2 | 40 | 4 | ☑ |
| 2JJE-014-035-S04 | 1,4 | 3,5 | 40 | 4 | ☑ |
| 2JJE-015-040-S03 | 1,5 | 4 | 40 | 3 | ☑ |
| 2JJE-015-040-S04 | 1,5 | 4 | 40 | 4 | ☑ |
| 2JJE-015-040-S06 | 1,5 | 4 | 40 | 6 | ☑ |
| 2JJE-016-040-S04 | 1,6 | 4 | 40 | 4 | ☑ |
| 2JJE-017-042-S04 | 1,7 | 4,2 | 40 | 4 | ☑ |
| 2JJE-018-045-S04 | 1,8 | 4,5 | 40 | 4 | ☑ |
| 2JJE-019-050-S04 | 1,9 | 5 | 40 | 4 | ☑ |
| 2JJE-020-060-S03 | 2 | 6 | 40 | 3 | ☑ |

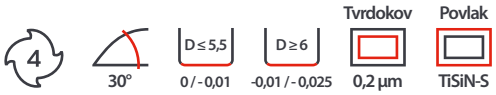
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2JJE-020-060-S04 | 2 | 6 | 40 | 4 | ☑ |
| 2JJE-020-060-S06 | 2 | 6 | 40 | 6 | ☑ |
| 2JJE-021-060-S04 | 2,1 | 6 | 40 | 4 | ☑ |
| 2JJE-022-060-S04 | 2,2 | 6 | 40 | 4 | ☑ |
| 2JJE-023-060-S04 | 2,3 | 6 | 40 | 4 | ☑ |
| 2JJE-024-080-S04 | 2,4 | 8 | 45 | 4 | ☑ |
| 2JJE-025-080-S03 | 2,5 | 8 | 45 | 3 | ☑ |
| 2JJE-025-080-S04 | 2,5 | 8 | 45 | 4 | ☑ |
| 2JJE-025-080-S06 | 2,5 | 8 | 45 | 6 | ☑ |
| 2JJE-026-080-S04 | 2,6 | 8 | 45 | 4 | ☑ |
| 2JJE-027-080-S04 | 2,7 | 8 | 45 | 4 | ☑ |
| 2JJE-028-080-S04 | 2,8 | 8 | 45 | 4 | ☑ |
| 2JJE-029-080-S04 | 2,9 | 8 | 45 | 4 | ☑ |
| 2JJE-030-080-S03 | 3 | 8 | 50 | 3 | ☑ |
| 2JJE-030-080-S04 | 3 | 8 | 45 | 4 | ☑ |
| 2JJE-030-080-S06 | 3 | 8 | 45 | 6 | ☑ |
| 2JJE-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 2JJE-040-100-S04 | 4 | 10 | 45 | 4 | ☑ |
| 2JJE-040-110-S06 | 4 | 11 | 45 | 6 | ☑ |
| 2JJE-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |
| 2JJE-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 2JJE-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 2JJE-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 2JJE-065-160-S08 | 6,5 | 16 | 60 | 8 | ☑ |
| 2JJE-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 2JJE-075-160-S08 | 7,5 | 16 | 60 | 8 | ☑ |
| 2JJE-080-190-S08 | 8 | 19 | 60 | 8 | ☑ |
| 2JJE-085-190-S10 | 8,5 | 19 | 70 | 10 | ☑ |
| 2JJE-090-190-S10 | 9 | 19 | 70 | 10 | ☑ |
| 2JJE-095-190-S10 | 9,5 | 19 | 70 | 10 | ☑ |
| 2JJE-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 2JJE-105-220-S12 | 10,5 | 22 | 75 | 12 | ☑ |
| 2JJE-110-220-S12 | 11 | 22 | 75 | 12 | ☑ |
| 2JJE-115-220-S12 | 11,5 | 22 | 75 | 12 | ☑ |
| 2JJE-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 2JJE-140-260-S14 | 14 | 26 | 80 | 14 | ☑ |
| 2JJE-140-260-S16 | 14 | 26 | 90 | 16 | ☑ |
| 2JJE-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 2JJE-180-350-S18 | 18 | 35 | 100 | 18 | ☑ |
| 2JJE-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |

◀ zpět na obsah

# 4JJE 4-břité OSTRÉ frézy pro kalené oceli do HRC 65




- Určeno pro kalené oceli (52–65 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

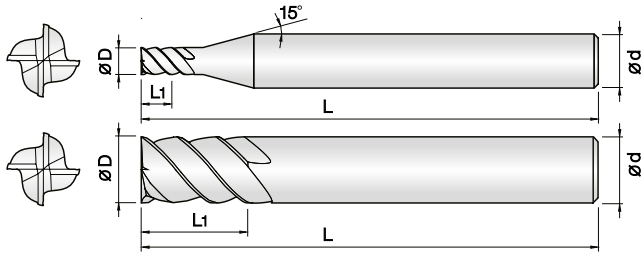



NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4JJE-003-006-S04 | 0,3 | 0,6 | 40 | 4 | ☑ |
| 4JJE-004-008-S04 | 0,4 | 0,8 | 40 | 4 | ☑ |
| 4JJE-005-010-S04 | 0,5 | 1 | 40 | 4 | ☑ |
| 4JJE-006-012-S04 | 0,6 | 1,2 | 40 | 4 | ☑ |
| 4JJE-007-014-S04 | 0,7 | 1,4 | 40 | 4 | ☑ |
| 4JJE-008-016-S04 | 0,8 | 1,6 | 40 | 4 | ☑ |
| 4JJE-009-018-S04 | 0,9 | 1,8 | 40 | 4 | ☑ |
| 4JJE-010-025-S03 | 1 | 2,5 | 40 | 3 | ☑ |
| 4JJE-010-025-S04 | 1 | 2,5 | 40 | 4 | ☑ |
| 4JJE-010-025-S06 | 1 | 2,5 | 40 | 6 | ☑ |
| 4JJE-012-030-S03 | 1,2 | 3 | 40 | 3 | ☑ |
| 4JJE-012-030-S04 | 1,2 | 3 | 40 | 4 | ☑ |
| 4JJE-015-040-S03 | 1,5 | 4 | 40 | 3 | ☑ |
| 4JJE-015-040-S04 | 1,5 | 4 | 40 | 4 | ☑ |
| 4JJE-015-040-S06 | 1,5 | 4 | 40 | 6 | ☑ |
| 4JJE-020-060-S03 | 2 | 6 | 40 | 3 | ☑ |
| 4JJE-020-060-S04 | 2 | 6 | 40 | 4 | ☑ |
| 4JJE-020-060-S06 | 2 | 6 | 40 | 6 | ☑ |
| 4JJE-025-080-S03 | 2,5 | 8 | 45 | 3 | ☑ |
| 4JJE-025-080-S04 | 2,5 | 8 | 45 | 4 | ☑ |
| 4JJE-025-080-S06 | 2,5 | 8 | 45 | 6 | ☑ |
| 4JJE-030-080-S03 | 3 | 8 | 50 | 3 | ☑ |
| 4JJE-030-080-S04 | 3 | 8 | 45 | 4 | ☑ |
| 4JJE-030-080-S06 | 3 | 8 | 45 | 6 | ☑ |
| 4JJE-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 4JJE-040-110-S04 | 4 | 11 | 45 | 4 | ☑ |
| 4JJE-040-110-S06 | 4 | 11 | 45 | 6 | ☑ |
| 4JJE-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |
| 4JJE-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 4JJE-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 4JJE-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 4JJE-080-190-S08 | 8 | 19 | 60 | 8 | ☑ |
| 4JJE-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 4JJE-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 4JJE-140-300-S14 | 14 | 30 | 90 | 14 | ☑ |
| 4JJE-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 4JJE-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |

◀ zpět na obsah

# 4JJHE 4-břité OSTRÉ frézy 45° pro kalené oceli do HRC 65




- Určeno pro kalené oceli (52–65 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

4 | 45° | D≤5 0/-0,01 | D≥6 -0,01/-0,025 | D=16 -0,015/-0,03 | Tvrdokov 0,2 µm | Povlak TiSiN-S

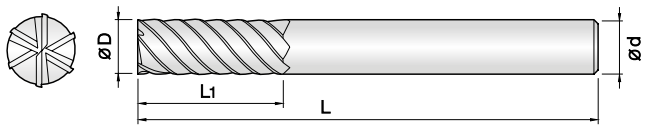
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4JJHE-010-015-S06 | 1 | 1,5 | 40 | 6 | ☑ |
| 4JJHE-010-025-S06 | | 2,5 | 40 | 6 | ☑ |
| 4JJHE-010-035-S06 | | 3,5 | 40 | 6 | ☑ |
| 4JJHE-010-050-S06 | | 5 | 45 | 6 | ☑ |
| 4JJHE-015-040-S06 | 1,5 | 4 | 40 | 6 | ☑ |
| 4JJHE-015-060-S06 | | 6 | 40 | 6 | ☑ |
| 4JJHE-015-080-S06 | | 8 | 40 | 6 | ☑ |
| 4JJHE-020-030-S06 | 2 | 3 | 40 | 6 | ☑ |
| 4JJHE-020-050-S06 | | 5 | 40 | 6 | ☑ |
| 4JJHE-020-080-S06 | | 8 | 40 | 6 | ☑ |
| 4JJHE-020-100-S06 | | 10 | 45 | 6 | ☑ |
| 4JJHE-025-060-S06 | 2,5 | 6 | 45 | 6 | ☑ |
| 4JJHE-025-080-S06 | | 8 | 45 | 6 | ☑ |
| 4JJHE-025-100-S06 | | 10 | 50 | 6 | ☑ |
| 4JJHE-030-060-S06 | 3 | 6 | 45 | 6 | ☑ |
| 4JJHE-030-080-S06 | | 8 | 45 | 6 | ☑ |
| 4JJHE-030-120-S06 | | 12 | 50 | 6 | ☑ |
| 4JJHE-030-150-S06 | | 15 | 50 | 6 | ☑ |
| 4JJHE-035-080-S06 | 3,5 | 8 | 45 | 6 | ☑ |
| 4JJHE-040-080-S06 | 4 | 8 | 45 | 6 | ☑ |
| 4JJHE-040-110-S06 | | 11 | 45 | 6 | ☑ |
| 4JJHE-040-150-S06 | | 15 | 55 | 6 | ☑ |
| 4JJHE-040-200-S06 | | 20 | 60 | 6 | ☑ |
| 4JJHE-045-110-S06 | 4,5 | 11 | 50 | 6 | ☑ |
| 4JJHE-050-100-S06 | 5 | 10 | 50 | 6 | ☑ |
| 4JJHE-050-130-S06 | | 13 | 50 | 6 | ☑ |
| 4JJHE-050-200-S06 | | 20 | 60 | 6 | ☑ |
| 4JJHE-050-250-S06 | | 25 | 70 | 6 | ☑ |
| 4JJHE-050-300-S06 | | 30 | 75 | 6 | ☑ |
| 4JJHE-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 4JJHE-060-150-S06 | | 15 | 55 | 6 | ☑ |
| 4JJHE-060-200-S06 | | 20 | 60 | 6 | ☑ |
| 4JJHE-060-250-S06 | | 25 | 70 | 6 | ☑ |
| 4JJHE-060-300-S06 | | 30 | 75 | 6 | ☑ |
| 4JJHE-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 4JJHE-080-200-S08 | 8 | 20 | 60 | 8 | ☑ |
| 4JJHE-080-250-S08 | | 25 | 70 | 8 | ☑ |
| 4JJHE-080-300-S08 | | 30 | 80 | 8 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4JJHE-080-400-S08 | 8 | 40 | 90 | 8 | ☑ |
| 4JJHE-090-220-S10 | 9 | 22 | 70 | 10 | ☑ |
| 4JJHE-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 4JJHE-100-300-S10 | | 30 | 80 | 10 | ☑ |
| 4JJHE-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 4JJHE-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 4JJHE-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 4JJHE-120-350-S12 | | 35 | 90 | 12 | ☑ |
| 4JJHE-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4JJHE-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 4JJHE-140-350-S14 | 14 | 35 | 90 | 14 | ☑ |
| 4JJHE-140-550-S14 | | 55 | 110 | 14 | ☑ |
| 4JJHE-160-350-S16 | 16 | 35 | 90 | 16 | ☑ |
| 4JJHE-160-500-S16 | | 50 | 110 | 16 | ☑ |
| 4JJHE-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 4JJHE-180-380-S18 | 18 | 38 | 100 | 18 | ☑ |
| 4JJHE-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |
| 4JJHE-200-550-S20 | | 55 | 120 | 20 | ☑ |
| 4JJHE-200-750-S20 | | 75 | 150 | 20 | ☑ |

◀ zpět na obsah

# 6&8JJHE

## 6-břité OSTRÉ frézy 45° pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

6 | 45° | D≤5 0/-0,01 | D≥6 -0,01/-0,025 | D≥16 -0,015/-0,03 | Tvrdokov 0,2 µm | Povlak TiSiN-S

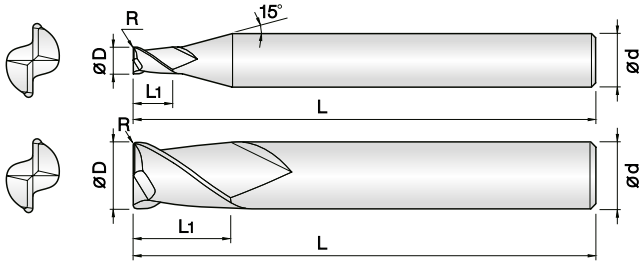
NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 6JJHE-030-100-S06 | 3 | 10 | 50 | 6 | ☑ |
| 6JJHE-030-150-S06 | | 15 | 50 | 6 | ☑ |
| 6JJHE-030-200-S06 | | 20 | 60 | 6 | ☑ |
| 6JJHE-040-120-S06 | 4 | 12 | 50 | 6 | ☑ |
| 6JJHE-040-160-S06 | | 16 | 50 | 6 | ☑ |
| 6JJHE-040-200-S06 | | 20 | 60 | 6 | ☑ |
| 6JJHE-050-150-S06 | 5 | 15 | 50 | 6 | ☑ |
| 6JJHE-050-200-S06 | | 20 | 60 | 6 | ☑ |
| 6JJHE-050-250-S06 | | 25 | 60 | 6 | ☑ |
| 6JJHE-060-150-S06 | 6 | 15 | 50 | 6 | ☑ |
| 6JJHE-060-200-S06 | | 20 | 60 | 6 | ☑ |
| 6JJHE-060-250-S06 | | 25 | 65 | 6 | ☑ |
| 6JJHE-060-300-S06 | | 30 | 70 | 6 | ☑ |
| 6JJHE-060-350-S06 | | 35 | 75 | 6 | ☑ |
| 6JJHE-060-400-S06 | | 40 | 80 | 6 | ☑ |
| 6JJHE-080-200-S08 | 8 | 20 | 60 | 8 | ☑ |
| 6JJHE-080-250-S08 | | 25 | 65 | 8 | ☑ |
| 6JJHE-080-300-S08 | | 30 | 75 | 8 | ☑ |
| 6JJHE-080-350-S08 | | 35 | 80 | 8 | ☑ |
| 6JJHE-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 6JJHE-080-450-S08 | | 45 | 100 | 8 | ☑ |
| 6JJHE-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 6JJHE-100-250-S10 | 10 | 25 | 70 | 10 | ☑ |
| 6JJHE-100-350-S10 | | 35 | 90 | 10 | ☑ |
| 6JJHE-100-450-S10 | | 45 | 100 | 10 | ☑ |
| 6JJHE-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 6JJHE-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 6JJHE-120-300-S12 | 12 | 30 | 80 | 12 | ☑ |
| 6JJHE-120-400-S12 | | 40 | 90 | 12 | ☑ |
| 6JJHE-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 6JJHE-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 6JJHE-120-700-S12 | | 70 | 120 | 12 | ☑ |
| 6JJHE-140-350-S14 | 14 | 35 | 90 | 14 | ☑ |
| 6JJHE-140-550-S14 | | 55 | 110 | 14 | ☑ |
| 6JJHE-140-750-S14 | | 75 | 150 | 14 | ☑ |
| 6JJHE-160-350-S16 | 16 | 35 | 90 | 16 | ☑ |
| 6JJHE-160-500-S16 | | 50 | 110 | 16 | ☑ |
| 6JJHE-160-650-S16 | | 65 | 120 | 16 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 6JJHE-160-800-S16 | 16 | 80 | 150 | 16 | ☑ |
| 6JJHE-160-900-S16 | | 90 | 160 | 16 | ☑ |
| 6JJHE-160-1000-S16 | | 100 | 160 | 16 | ☑ |
| 6JJHE-180-400-S18 | 18 | 40 | 100 | 18 | ☑ |
| 6JJHE-180-650-S18 | | 65 | 120 | 18 | ☑ |
| 6JJHE-200-450-S20 | 20 | 45 | 100 | 20 | ☑ |
| 6JJHE-200-600-S20 | | 60 | 120 | 20 | ☑ |
| 6JJHE-200-800-S20 | | 80 | 150 | 20 | ☑ |
| 6JJHE-200-900-S20 | | 90 | 160 | 20 | ☑ |
| 6JJHE-200-1000-S20 | | 100 | 160 | 20 | ☑ |
| 6JJHE-200-1100-S20 | | 110 | 170 | 20 | ☑ |
| 6JJHE-200-1200-S20 | | 120 | 180 | 20 | ☑ |
| 8JJHE-250-1000-S25 | 25 | 100 | 160 | 25 | ☑ |
| 8JJHE-250-1300-S25 | | 130 | 200 | 25 | ☑ |

◀ zpět na obsah

# 2JJC 2-břité TOROIDNÍ frézy pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a délek pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

2 | 30° | D ≤ 5: 0 / - 0,01 | D ≥ 6: -0,005 / - 0,015

±0,005: R0,02 - R0,5 | ±0,01: R1 - R1,5 | ±0,015: R2 - 5 | Tvrdokov: 0,2 µm | Povlak: TiSiN-S

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJC-002-0002-S04 | 0,2 | R 0,02 | 0,4 | 45 | 4 | ☑ |
| 2JJC-002-0005-S04 | | R 0,05 | 0,4 | 45 | 4 | ☑ |
| 2JJC-003-0002-S04 | 0,3 | R 0,02 | 0,6 | 45 | 4 | ☑ |
| 2JJC-003-0005-S04 | | R 0,05 | 0,6 | 45 | 4 | ☑ |
| 2JJC-003-001-S04 | | R 0,1 | 0,6 | 45 | 4 | ☑ |
| 2JJC-004-0002-S04 | 0,4 | R 0,02 | 0,8 | 45 | 4 | ☑ |
| 2JJC-004-0005-S04 | | R 0,05 | 0,8 | 45 | 4 | ☑ |
| 2JJC-004-001-S04 | | R 0,1 | 0,8 | 45 | 4 | ☑ |
| 2JJC-005-0002-S04 | 0,5 | R 0,02 | 1 | 45 | 4 | ☑ |
| 2JJC-005-0005-S04 | | R 0,05 | 1 | 45 | 4 | ☑ |
| 2JJC-005-001-S04 | | R 0,1 | 1 | 45 | 4 | ☑ |
| 2JJC-006-0002-S04 | 0,6 | R 0,02 | 1,2 | 45 | 4 | ☑ |
| 2JJC-006-0005-S04 | | R 0,05 | 1,2 | 45 | 4 | ☑ |
| 2JJC-006-001-S04 | | R 0,1 | 1,2 | 45 | 4 | ☑ |
| 2JJC-006-002-S04 | | R 0,2 | 1,2 | 45 | 4 | ☑ |
| 2JJC-007-0005-S04 | 0,7 | R 0,05 | 1,4 | 45 | 4 | ☑ |
| 2JJC-007-001-S04 | | R 0,1 | 1,4 | 45 | 4 | ☑ |
| 2JJC-007-002-S04 | | R 0,2 | 1,4 | 45 | 4 | ☑ |
| 2JJC-008-0002-S04 | 0,8 | R 0,02 | 1,6 | 45 | 4 | ☑ |
| 2JJC-008-0005-S04 | | R 0,05 | 1,6 | 45 | 4 | ☑ |
| 2JJC-008-001-S04 | | R 0,1 | 1,6 | 45 | 4 | ☑ |
| 2JJC-008-002-S04 | | R 0,2 | 1,6 | 45 | 4 | ☑ |
| 2JJC-009-0005-S04 | 0,9 | R 0,05 | 1,8 | 45 | 4 | ☑ |
| 2JJC-009-001-S04 | | R 0,1 | 1,8 | 45 | 4 | ☑ |
| 2JJC-010-0002-S04 | 1 | R 0,02 | 2,5 | 45 | 4 | ☑ |
| 2JJC-010-0005-S04 | | R 0,05 | 2,5 | 45 | 4 | ☑ |
| 2JJC-010-001-S04 | | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 2JJC-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 2JJC-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 2JJC-012-0002-S04 | 1,2 | R 0,02 | 3,2 | 45 | 4 | ☑ |
| 2JJC-012-0005-S04 | | R 0,05 | 3,2 | 45 | 4 | ☑ |
| 2JJC-012-001-S04 | | R 0,1 | 3,2 | 45 | 4 | ☑ |
| 2JJC-012-002-S04 | | R 0,2 | 3,2 | 45 | 4 | ☑ |
| 2JJC-012-003-S04 | | R 0,3 | 3,2 | 45 | 4 | ☑ |
| 2JJC-015-0002-S04 | 1,5 | R 0,02 | 4 | 45 | 4 | ☑ |
| 2JJC-015-0005-S04 | | R 0,05 | 4 | 45 | 4 | ☑ |
| 2JJC-015-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 2JJC-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJC-015-003-S04 | 1,5 | R 0,3 | 4 | 45 | 4 | ☑ |
| 2JJC-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 2JJC-020-0002-S04 | 2 | R 0,02 | 6 | 45 | 4 | ☑ |
| 2JJC-020-0005-S04 | | R 0,05 | 6 | 45 | 4 | ☑ |
| 2JJC-020-001-S04 | | R 0,1 | 6 | 45 | 4 | ☑ |
| 2JJC-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 2JJC-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 2JJC-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 2JJC-025-001-S04 | 2,5 | R 0,1 | 6 | 50 | 4 | ☑ |
| 2JJC-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 2JJC-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 2JJC-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 2JJC-030-001-S06 | 3 | R 0,1 | 8 | 60 | 6 | ☑ |
| 2JJC-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |
| 2JJC-030-003-S06 | | R 0,3 | 8 | 60 | 6 | ☑ |
| 2JJC-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 2JJC-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |
| 2JJC-040-001-S04 | 4 | R 0,1 | 9 | 60 | 4 | ☑ |
| 2JJC-040-001-S06 | | | 10 | 70 | 6 | ☑ |
| 2JJC-040-002-S04 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 2JJC-040-002-S06 | | | 10 | 70 | 6 | ☑ |
| 2JJC-040-003-S04 | | R 0,3 | 9 | 60 | 4 | ☑ |
| 2JJC-040-003-S06 | | | 10 | 70 | 6 | ☑ |
| 2JJC-040-005-S04 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 2JJC-040-005-S06 | | | 10 | 70 | 6 | ☑ |
| 2JJC-040-010-S04 | | R 1 | 9 | 60 | 4 | ☑ |
| 2JJC-040-010-S06 | | | 10 | 70 | 6 | ☑ |
| 2JJC-050-001-S06 | 5 | R 0,1 | 13 | 75 | 6 | ☑ |
| 2JJC-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 2JJC-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 2JJC-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 2JJC-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 2JJC-060-001-060 | 6 | R 0,1 | 11 | 60 | 6 | ☑ |
| 2JJC-060-001-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-002-060 | | R 0,2 | 11 | 60 | 6 | ☑ |
| 2JJC-060-002-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-003-060 | | R 0,3 | 11 | 60 | 6 | ☑ |
| 2JJC-060-003-090 | | | 13 | 90 | 6 | ☑ |

◀ zpět na obsah

# 2JJC

## 2-břité TOROIDNÍ frézy pro kalené oceli do HRC 68

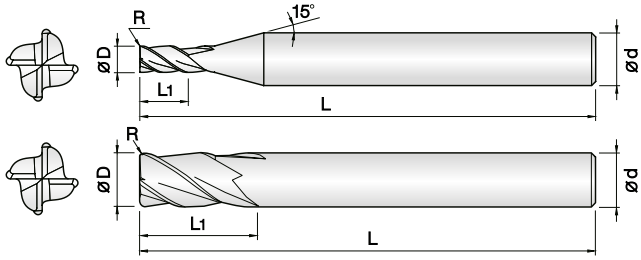
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJC-060-005-060 | 6 | R 0,5 | 11 | 60 | 6 | ☑ |
| 2JJC-060-005-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-005-110 | | | 13 | 110 | 6 | ☑ |
| 2JJC-060-010-060 | | R 1 | 11 | 60 | 6 | ☑ |
| 2JJC-060-010-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-010-110 | | | 13 | 110 | 6 | ☑ |
| 2JJC-060-015-060 | | R 1,5 | 11 | 60 | 6 | ☑ |
| 2JJC-060-015-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-020-060 | | R 2 | 11 | 60 | 6 | ☑ |
| 2JJC-060-020-090 | | | 13 | 90 | 6 | ☑ |
| 2JJC-060-025-090 | | R 2,5 | 13 | 90 | 6 | ☑ |
| 2JJC-080-001-070 | 8 | R 0,1 | 16 | 70 | 8 | ☑ |
| 2JJC-080-001-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-002-070 | | R 0,2 | 16 | 70 | 8 | ☑ |
| 2JJC-080-002-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-003-070 | | R 0,3 | 16 | 70 | 8 | ☑ |
| 2JJC-080-003-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |
| 2JJC-080-005-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-005-120 | | | 19 | 120 | 8 | ☑ |
| 2JJC-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 2JJC-080-010-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-010-120 | | | 19 | 120 | 8 | ☑ |
| 2JJC-080-015-070 | | R 1,5 | 16 | 70 | 8 | ☑ |
| 2JJC-080-015-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-020-070 | | R 2 | 16 | 70 | 8 | ☑ |
| 2JJC-080-020-100 | | | 19 | 100 | 8 | ☑ |
| 2JJC-080-025-100 | | R 2,5 | 19 | 100 | 8 | ☑ |
| 2JJC-080-030-100 | | R 3 | 19 | 100 | 8 | ☑ |
| 2JJC-080-035-100 | | R 3,5 | 19 | 100 | 8 | ☑ |
| 2JJC-100-001-075 | 10 | R 0,1 | 19 | 75 | 10 | ☑ |
| 2JJC-100-001-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-002-075 | | R 0,2 | 19 | 75 | 10 | ☑ |
| 2JJC-100-002-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-003-075 | | R 0,3 | 19 | 75 | 10 | ☑ |
| 2JJC-100-003-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-005-075 | | R 0,5 | 19 | 75 | 10 | ☑ |
| 2JJC-100-005-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-005-120 | | | 22 | 120 | 10 | ☑ |
| 2JJC-100-010-075 | | R 1 | 19 | 75 | 10 | ☑ |
| 2JJC-100-010-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-010-120 | | | 22 | 120 | 10 | ☑ |
| 2JJC-100-015-075 | | R 1,5 | 19 | 75 | 10 | ☑ |
| 2JJC-100-015-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-020-075 | | R 2 | 19 | 75 | 10 | ☑ |
| 2JJC-100-020-100 | | | 22 | 100 | 10 | ☑ |
| 2JJC-100-025-100 | | R 2,5 | 22 | 100 | 10 | ☑ |
| 2JJC-100-030-100 | | R 3 | 22 | 100 | 10 | ☑ |
| 2JJC-100-040-100 | | R 4 | 22 | 100 | 10 | ☑ |
| 2JJC-120-001-080 | 12 | R 0,1 | 22 | 80 | 12 | ☑ |
| 2JJC-120-001-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-002-080 | | R 0,2 | 22 | 80 | 12 | ☑ |

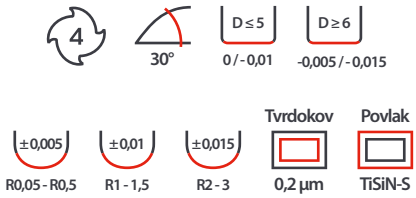
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2JJC-120-002-110 | 12 | R 0,2 | 26 | 110 | 12 | ☑ |
| 2JJC-120-003-080 | | R 0,3 | 22 | 80 | 12 | ☑ |
| 2JJC-120-003-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-005-080 | | R 0,5 | 22 | 80 | 12 | ☑ |
| 2JJC-120-005-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-005-130 | | | 26 | 130 | 12 | ☑ |
| 2JJC-120-010-080 | | R 1 | 22 | 80 | 12 | ☑ |
| 2JJC-120-010-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-010-130 | | | 26 | 130 | 12 | ☑ |
| 2JJC-120-015-080 | | R 1,5 | 22 | 80 | 12 | ☑ |
| 2JJC-120-015-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-020-080 | | R 2 | 22 | 80 | 12 | ☑ |
| 2JJC-120-020-110 | | | 26 | 110 | 12 | ☑ |
| 2JJC-120-020-130 | | | 26 | 130 | 12 | ☑ |
| 2JJC-120-025-110 | | R 2,5 | 26 | 110 | 12 | ☑ |
| 2JJC-120-030-110 | | R 3 | 26 | 110 | 12 | ☑ |
| 2JJC-120-040-110 | | R 4 | 26 | 110 | 12 | ☑ |
| 2JJC-120-050-110 | | R 5 | 26 | 110 | 12 | ☑ |
| 2JJC-140-005-110 | 14 | R 0,5 | 30 | 110 | 14 | ☑ |
| 2JJC-140-010-110 | | R 1 | 30 | 110 | 14 | ☑ |
| 2JJC-140-020-110 | | R 2 | 30 | 110 | 14 | ☑ |

◀ zpět na obsah

# 4JJC 4-břité TOROIDNÍ frézy pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- 45° šroubovice pro vysokorychlostní posuvu
- Široký sortiment rádiusů a délek pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJC-005-0005-S04 | 0,5 | R 0,05 | 1 | 45 | 4 | ☑ |
| 4JJC-005-001-S04 | | R 0,1 | 1 | 45 | 4 | ☑ |
| 4JJC-006-0005-S04 | 0,6 | R 0,05 | 1,2 | 45 | 4 | ☑ |
| 4JJC-006-001-S04 | | R 0,1 | 1,2 | 45 | 4 | ☑ |
| 4JJC-007-0005-S04 | 0,7 | R 0,05 | 1,4 | 45 | 4 | ☑ |
| 4JJC-007-001-S04 | | R 0,1 | 1,4 | 45 | 4 | ☑ |
| 4JJC-008-0005-S04 | 0,8 | R 0,05 | 1,6 | 45 | 4 | ☑ |
| 4JJC-008-001-S04 | | R 0,1 | 1,6 | 45 | 4 | ☑ |
| 4JJC-009-0005-S04 | 0,9 | R 0,05 | 1,8 | 45 | 4 | ☑ |
| 4JJC-009-001-S04 | | R 0,1 | 1,8 | 45 | 4 | ☑ |
| 4JJC-010-0005-S04 | 1 | R 0,05 | 2,5 | 45 | 4 | ☑ |
| 4JJC-010-001-S04 | | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 4JJC-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 4JJC-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 4JJC-015-0005-S04 | 1,5 | R 0,05 | 4 | 45 | 4 | ☑ |
| 4JJC-015-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 4JJC-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |
| 4JJC-015-003-S04 | | R 0,3 | 4 | 45 | 4 | ☑ |
| 4JJC-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 4JJC-020-0005-S04 | 2 | R 0,05 | 6 | 45 | 4 | ☑ |
| 4JJC-020-001-S04 | | R 0,1 | 6 | 45 | 4 | ☑ |
| 4JJC-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 4JJC-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 4JJC-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 4JJC-025-001-S04 | 2,5 | R 0,1 | 6 | 50 | 4 | ☑ |
| 4JJC-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 4JJC-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 4JJC-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 4JJC-030-001-S03 | 3 | R 0,1 | 8 | 60 | 3 | ☑ |
| 4JJC-030-002-S03 | | R 0,2 | 8 | 60 | 3 | ☑ |
| 4JJC-030-003-S03 | | R 0,3 | 8 | 60 | 3 | ☑ |
| 4JJC-030-005-S03 | | R 0,5 | 8 | 60 | 3 | ☑ |
| 4JJC-030-010-S03 | | R 1 | 8 | 60 | 3 | ☑ |
| 4JJC-030-001-S06 | | R 0,1 | 8 | 60 | 6 | ☑ |
| 4JJC-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |
| 4JJC-030-003-S06 | | R 0,3 | 8 | 60 | 6 | ☑ |
| 4JJC-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 4JJC-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJC-035-001-S06 | 3,5 | R 0,1 | 9 | 70 | 6 | ☑ |
| 4JJC-035-002-S06 | | R 0,2 | 9 | 70 | 6 | ☑ |
| 4JJC-035-003-S06 | | R 0,3 | 9 | 70 | 6 | ☑ |
| 4JJC-035-005-S06 | | R 0,5 | 9 | 70 | 6 | ☑ |
| 4JJC-035-010-S06 | | R 1 | 9 | 70 | 6 | ☑ |
| 4JJC-040-001-S04 | 4 | R 0,1 | 9 | 60 | 4 | ☑ |
| 4JJC-040-001-S06 | | R 0,1 | 10 | 70 | 6 | ☑ |
| 4JJC-040-002-S04 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 4JJC-040-002-S06 | | R 0,2 | 10 | 70 | 6 | ☑ |
| 4JJC-040-003-S04 | | R 0,3 | 9 | 60 | 4 | ☑ |
| 4JJC-040-003-S06 | | R 0,3 | 10 | 70 | 6 | ☑ |
| 4JJC-040-005-S04 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 4JJC-040-005-S06 | | R 0,5 | 10 | 70 | 6 | ☑ |
| 4JJC-040-010-S04 | | R 1 | 9 | 60 | 4 | ☑ |
| 4JJC-040-010-S06 | | R 1 | 10 | 70 | 6 | ☑ |
| 4JJC-045-002-S06 | 4,5 | R 0,2 | 11 | 75 | 6 | ☑ |
| 4JJC-045-003-S06 | | R 0,3 | 11 | 75 | 6 | ☑ |
| 4JJC-045-005-S06 | | R 0,5 | 11 | 75 | 6 | ☑ |
| 4JJC-045-010-S06 | | R 1 | 11 | 75 | 6 | ☑ |
| 4JJC-050-001-S06 | 5 | R 0,1 | 13 | 75 | 6 | ☑ |
| 4JJC-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 4JJC-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 4JJC-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 4JJC-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 4JJC-060-0005-055 | 6 | R 0,05 | 11 | 55 | 6 | ☑ |
| 4JJC-060-0005-080 | | R 0,05 | 13 | 80 | 6 | ☑ |
| 4JJC-060-001-055 | | R 0,1 | 11 | 55 | 6 | ☑ |
| 4JJC-060-001-080 | | R 0,1 | 13 | 80 | 6 | ☑ |
| 4JJC-060-002-055 | | R 0,2 | 11 | 55 | 6 | ☑ |
| 4JJC-060-002-080 | | R 0,2 | 13 | 80 | 6 | ☑ |
| 4JJC-060-002-100 | | R 0,2 | 13 | 100 | 6 | ☑ |
| 4JJC-060-002-120 | | R 0,2 | 13 | 120 | 6 | ☑ |
| 4JJC-060-003-055 | | R 0,3 | 11 | 55 | 6 | ☑ |
| 4JJC-060-003-080 | | R 0,3 | 13 | 80 | 6 | ☑ |
| 4JJC-060-003-100 | | R 0,3 | 13 | 100 | 6 | ☑ |
| 4JJC-060-003-120 | | R 0,3 | 13 | 120 | 6 | ☑ |
| 4JJC-060-005-055 | | R 0,5 | 11 | 55 | 6 | ☑ |
| 4JJC-060-005-080 | | R 0,5 | 13 | 80 | 6 | ☑ |

◀ zpět na obsah

# 4JJC 4-břité TOROIDNÍ frézy pro kalené oceli do HRC 68

NOVINKA

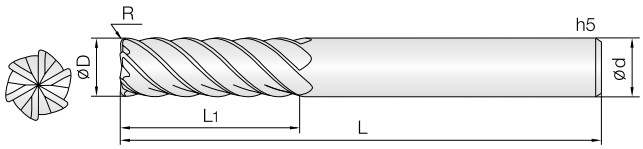
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJC-060-005-100 | 6 | R 0,5 | 13 | 100 | 6 | ☑ |
| 4JJC-060-005-120 | | R 0,5 | 13 | 120 | 6 | ☑ |
| 4JJC-060-010-055 | | R 1 | 11 | 55 | 6 | ☑ |
| 4JJC-060-010-080 | | R 1 | 13 | 80 | 6 | ☑ |
| 4JJC-060-010-100 | | R 1 | 13 | 100 | 6 | ☑ |
| 4JJC-060-010-120 | | R 1 | 13 | 120 | 6 | ☑ |
| 4JJC-060-015-055 | | R 1,5 | 11 | 55 | 6 | ☑ |
| 4JJC-060-015-080 | | R 1,5 | 13 | 80 | 6 | ☑ |
| 4JJC-060-020-055 | | R 2 | 11 | 55 | 6 | ☑ |
| 4JJC-060-020-080 | | R 2 | 13 | 80 | 6 | ☑ |
| 4JJC-070-002-S08 | 7 | R 0,2 | 16 | 80 | 8 | ☑ |
| 4JJC-070-003-S08 | | R 0,3 | 16 | 80 | 8 | ☑ |
| 4JJC-070-005-S08 | | R 0,5 | 16 | 80 | 8 | ☑ |
| 4JJC-070-010-S08 | | R 1 | 16 | 80 | 8 | ☑ |
| 4JJC-080-001-060 | 8 | R 0,1 | 16 | 60 | 8 | ☑ |
| 4JJC-080-001-090 | | R 0,1 | 19 | 90 | 8 | ☑ |
| 4JJC-080-002-060 | | R 0,2 | 16 | 60 | 8 | ☑ |
| 4JJC-080-002-090 | | R 0,2 | 19 | 90 | 8 | ☑ |
| 4JJC-080-003-060 | | R 0,3 | 16 | 60 | 8 | ☑ |
| 4JJC-080-003-090 | | R 0,3 | 19 | 90 | 8 | ☑ |
| 4JJC-080-005-060 | | R 0,5 | 16 | 60 | 8 | ☑ |
| 4JJC-080-005-090 | | R 0,5 | 19 | 90 | 8 | ☑ |
| 4JJC-080-005-110 | | R 0,5 | 19 | 110 | 8 | ☑ |
| 4JJC-080-005-150 | | R 0,5 | 19 | 150 | 8 | ☑ |
| 4JJC-080-010-060 | | R 1 | 16 | 60 | 8 | ☑ |
| 4JJC-080-010-090 | | R 1 | 19 | 90 | 8 | ☑ |
| 4JJC-080-010-110 | | R 1 | 19 | 110 | 8 | ☑ |
| 4JJC-080-010-150 | | R 1 | 19 | 150 | 8 | ☑ |
| 4JJC-080-015-060 | | R 1,5 | 16 | 60 | 8 | ☑ |
| 4JJC-080-015-090 | | R 1,5 | 19 | 90 | 8 | ☑ |
| 4JJC-080-020-060 | | R 2 | 16 | 60 | 8 | ☑ |
| 4JJC-080-020-090 | | R 2 | 19 | 90 | 8 | ☑ |
| 4JJC-090-002-S10 | 9 | R 0,2 | 20 | 90 | 10 | ☑ |
| 4JJC-090-003-S10 | | R 0,3 | 20 | 90 | 10 | ☑ |
| 4JJC-090-005-S10 | | R 0,5 | 20 | 90 | 10 | ☑ |
| 4JJC-090-010-S10 | | R 1 | 20 | 90 | 10 | ☑ |
| 4JJC-100-001-070 | 10 | R 0,1 | 19 | 70 | 10 | ☑ |
| 4JJC-100-001-100 | | R 0,1 | 22 | 100 | 10 | ☑ |
| 4JJC-100-002-070 | | R 0,2 | 19 | 70 | 10 | ☑ |
| 4JJC-100-002-100 | | R 0,2 | 22 | 100 | 10 | ☑ |
| 4JJC-100-003-070 | | R 0,3 | 19 | 70 | 10 | ☑ |
| 4JJC-100-003-100 | | R 0,3 | 22 | 100 | 10 | ☑ |
| 4JJC-100-005-070 | | R 0,5 | 19 | 70 | 10 | ☑ |
| 4JJC-100-005-100 | | R 0,5 | 22 | 100 | 10 | ☑ |
| 4JJC-100-005-120 | | R 0,5 | 22 | 120 | 10 | ☑ |
| 4JJC-100-005-150 | | R 0,5 | 22 | 150 | 10 | ☑ |
| 4JJC-100-010-070 | | R 1 | 19 | 70 | 10 | ☑ |
| 4JJC-100-010-100 | | R 1 | 22 | 100 | 10 | ☑ |
| 4JJC-100-010-120 | | R 1 | 22 | 120 | 10 | ☑ |
| 4JJC-100-010-150 | | R 1 | 22 | 150 | 10 | ☑ |
| 4JJC-100-015-070 | | R 1,5 | 19 | 70 | 10 | ☑ |
| 4JJC-100-015-100 | | R 1,5 | 22 | 100 | 10 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4JJC-100-020-070 | 10 | R 2 | 19 | 70 | 10 | ☑ |
| 4JJC-100-020-100 | | R 2 | 22 | 100 | 10 | ☑ |
| 4JJC-100-020-120 | | R 2 | 22 | 120 | 10 | ☑ |
| 4JJC-100-020-150 | | R 2 | 22 | 150 | 10 | ☑ |
| 4JJC-100-025-070 | | R 2,5 | 19 | 70 | 10 | ☑ |
| 4JJC-100-025-100 | | R 2,5 | 22 | 100 | 10 | ☑ |
| 4JJC-110-003-S12 | 11 | R 0,3 | 24 | 100 | 12 | ☑ |
| 4JJC-110-005-S12 | | R 0,5 | 24 | 100 | 12 | ☑ |
| 4JJC-110-010-S12 | | R 1 | 24 | 100 | 12 | ☑ |
| 4JJC-120-001-075 | 12 | R 0,1 | 22 | 75 | 12 | ☑ |
| 4JJC-120-001-110 | | R 0,1 | 26 | 110 | 12 | ☑ |
| 4JJC-120-002-075 | | R 0,2 | 22 | 75 | 12 | ☑ |
| 4JJC-120-002-110 | | R 0,2 | 26 | 110 | 12 | ☑ |
| 4JJC-120-003-075 | | R 0,3 | 22 | 75 | 12 | ☑ |
| 4JJC-120-003-110 | | R 0,3 | 26 | 110 | 12 | ☑ |
| 4JJC-120-005-075 | | R 0,5 | 22 | 75 | 12 | ☑ |
| 4JJC-120-005-110 | | R 0,5 | 26 | 110 | 12 | ☑ |
| 4JJC-120-005-130 | | R 0,5 | 26 | 130 | 12 | ☑ |
| 4JJC-120-005-160 | | R 0,5 | 26 | 160 | 12 | ☑ |
| 4JJC-120-010-075 | | R 1 | 22 | 75 | 12 | ☑ |
| 4JJC-120-010-110 | | R 1 | 26 | 110 | 12 | ☑ |
| 4JJC-120-010-130 | | R 1 | 26 | 130 | 12 | ☑ |
| 4JJC-120-010-160 | | R 1 | 26 | 160 | 12 | ☑ |
| 4JJC-120-015-075 | | R 1,5 | 22 | 75 | 12 | ☑ |
| 4JJC-120-015-110 | | R 1,5 | 26 | 110 | 12 | ☑ |
| 4JJC-120-020-075 | | R 2 | 22 | 75 | 12 | ☑ |
| 4JJC-120-020-110 | | R 2 | 26 | 110 | 12 | ☑ |
| 4JJC-120-020-130 | | R 2 | 26 | 130 | 12 | ☑ |
| 4JJC-120-020-160 | | R 2 | 26 | 160 | 12 | ☑ |
| 4JJC-120-025-075 | | R 2,5 | 22 | 75 | 12 | ☑ |
| 4JJC-120-025-110 | | R 2,5 | 26 | 110 | 12 | ☑ |
| 4JJC-120-030-075 | | R 3 | 22 | 75 | 12 | ☑ |
| 4JJC-120-030-110 | | R 3 | 26 | 110 | 12 | ☑ |
| 4JJC-140-005-110 | 14 | R 0,5 | 30 | 110 | 14 | ☑ |
| 4JJC-140-010-110 | | R 1 | 30 | 110 | 14 | ☑ |
| 4JJC-140-020-110 | | R 2 | 30 | 110 | 14 | ☑ |
| 4JJC-160-005-110 | 16 | R 0,5 | 32 | 110 | 16 | ☑ |
| 4JJC-160-005-160 | | R 0,5 | 32 | 160 | 16 | ☑ |
| 4JJC-160-010-110 | | R 1 | 32 | 110 | 16 | ☑ |
| 4JJC-160-010-160 | | R 1 | 32 | 160 | 16 | ☑ |

◀ zpět na obsah

# 6JJCRL

## 6-břité TOROIDNÍ frézy 45° pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky novému PVD povlaku s vysokým obsahem Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany a rohovému rádiusu
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

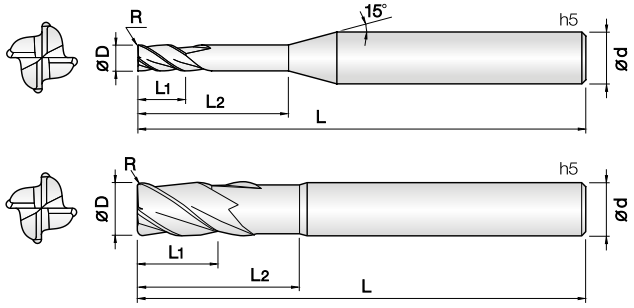
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 6JJCRL-030-001-060 | 3 | R 0,1 | 7,5 | 60 | 6 | ☑ |
| 6JJCRL-030-002-060 | | R 0,2 | 7,5 | 60 | 6 | ☑ |
| 6JJCRL-030-003-060 | | R 0,3 | 7,5 | 60 | 6 | ☑ |
| 6JJCRL-030-005-060 | | R 0,5 | 7,5 | 60 | 6 | ☑ |
| 6JJCRL-030-010-060 | | R 1 | 7,5 | 60 | 6 | ☑ |
| 6JJCRL-040-001-060 | 4 | R 0,1 | 10 | 60 | 6 | ☑ |
| 6JJCRL-040-002-060 | | R 0,2 | 10 | 60 | 6 | ☑ |
| 6JJCRL-040-003-060 | | R 0,3 | 10 | 60 | 6 | ☑ |
| 6JJCRL-040-005-060 | | R 0,5 | 10 | 60 | 6 | ☑ |
| 6JJCRL-040-010-060 | | R 1 | 10 | 60 | 6 | ☑ |
| 6JJCRL-050-002-060 | 5 | R 0,2 | 13 | 60 | 6 | ☑ |
| 6JJCRL-050-003-060 | | R 0,3 | 13 | 60 | 6 | ☑ |
| 6JJCRL-050-005-060 | | R 0,5 | 13 | 60 | 6 | ☑ |
| 6JJCRL-050-010-060 | | R 1 | 13 | 60 | 6 | ☑ |
| 6JJCRL-060-001-060 | 6 | R 0,1 | 15 | 60 | 6 | ☑ |
| 6JJCRL-060-002-060 | | R 0,2 | 15 | 60 | 6 | ☑ |
| 6JJCRL-060-002-080 | | | 15 | 80 | 6 | ☑ |
| 6JJCRL-060-003-060 | | R 0,3 | 15 | 60 | 6 | ☑ |
| 6JJCRL-060-003-080 | | | 15 | 80 | 6 | ☑ |
| 6JJCRL-060-005-060 | | R 0,5 | 15 | 60 | 6 | ☑ |
| 6JJCRL-060-005-080 | | | 15 | 80 | 6 | ☑ |
| 6JJCRL-060-010-060 | | R 1 | 15 | 60 | 6 | ☑ |
| 6JJCRL-060-010-080 | | | 15 | 80 | 6 | ☑ |
| 6JJCRL-080-002-070 | 8 | R 0,2 | 20 | 70 | 8 | ☑ |
| 6JJCRL-080-003-070 | | R 0,3 | 20 | 70 | 8 | ☑ |
| 6JJCRL-080-003-090 | | | 20 | 90 | 8 | ☑ |
| 6JJCRL-080-005-070 | | R 0,5 | 20 | 70 | 8 | ☑ |
| 6JJCRL-080-005-090 | | | 20 | 90 | 8 | ☑ |
| 6JJCRL-080-010-070 | | R 1 | 20 | 70 | 8 | ☑ |
| 6JJCRL-080-010-090 | | | 20 | 90 | 8 | ☑ |
| 6JJCRL-080-015-070 | | R 1,5 | 20 | 70 | 8 | ☑ |
| 6JJCRL-100-002-075 | 10 | R 0,2 | 25 | 75 | 10 | ☑ |
| 6JJCRL-100-003-075 | | R 0,3 | 25 | 75 | 10 | ☑ |
| 6JJCRL-100-003-100 | | | 25 | 100 | 10 | ☑ |
| 6JJCRL-100-005-075 | | R 0,5 | 25 | 75 | 10 | ☑ |
| 6JJCRL-100-005-100 | | | 25 | 100 | 10 | ☑ |
| 6JJCRL-100-010-075 | | R 1 | 25 | 75 | 10 | ☑ |
| 6JJCRL-100-010-100 | | | 25 | 100 | 10 | ☑ |

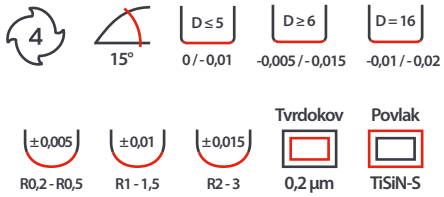
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 6JJCRL-100-020-075 | 10 | R 2 | 25 | 75 | 10 | ☑ |
| 6JJCRL-120-002-080 | 12 | R 0,2 | 30 | 80 | 12 | ☑ |
| 6JJCRL-120-003-080 | | R 0,3 | 30 | 80 | 12 | ☑ |
| 6JJCRL-120-003-110 | | | 30 | 110 | 12 | ☑ |
| 6JJCRL-120-005-080 | | R 0,5 | 30 | 80 | 12 | ☑ |
| 6JJCRL-120-005-110 | | | 30 | 110 | 12 | ☑ |
| 6JJCRL-120-010-080 | | R 1 | 30 | 80 | 12 | ☑ |
| 6JJCRL-120-010-110 | | | 30 | 110 | 12 | ☑ |
| 6JJCRL-120-020-080 | | R 2 | 30 | 80 | 12 | ☑ |
| 6JJCRL-160-005-110 | 16 | R 0,5 | 50 | 110 | 16 | ☑ |
| 6JJCRL-160-010-110 | | R 1 | 50 | 110 | 16 | ☑ |
| 6JJCRL-160-020-110 | | R 2 | 50 | 110 | 16 | ☑ |

◀ zpět na obsah

# 4JJRC 4-břité TOROIDNÍ frézy 15° pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Určeno pro vysoké posuvy při nižších řezných rychlostech
- Vhodné pro náročné a hrubovací obrábění
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí



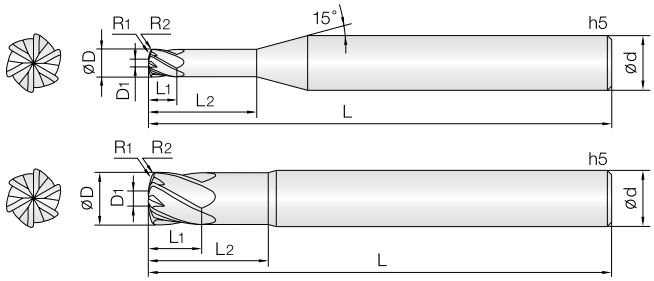

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJRC-010-002-025 | 1 | R 0,2 | 2,5 | 1 | 50 | 4 | ☑ |
| 4JJRC-015-005-040 | 1,5 | R 0,5 | 4 | 1,5 | 50 | 4 | ☑ |
| 4JJRC-020-005-060 | 2 | R 0,5 | 6 | 2 | 50 | 6 | ☑ |
| 4JJRC-030-005-080 | 3 | R 0,5 | 8 | 3 | 50 | 6 | ☑ |
| 4JJRC-040-005-120 | 4 | R 0,5 | 12 | 4 | 60 | 6 | ☑ |
| 4JJRC-040-005-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 4JJRC-040-010-120 | | R 1 | 12 | 4 | 60 | 6 | ☑ |
| 4JJRC-040-010-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 4JJRC-050-005-150 | 5 | R 0,5 | 15 | 5 | 60 | 6 | ☑ |
| 4JJRC-050-010-150 | | R 1 | 15 | 5 | 60 | 6 | ☑ |
| 4JJRC-060-003-150 | 6 | R 0,3 | 15 | 6 | 60 | 6 | ☑ |
| 4JJRC-060-005-150 | | R 0,5 | 15 | 6 | 60 | 6 | ☑ |
| 4JJRC-060-010-150 | | R 1 | 15 | 6 | 60 | 6 | ☑ |
| 4JJRC-060-015-150 | | R 1,5 | 15 | 6 | 60 | 6 | ☑ |
| 4JJRC-080-003-160 | 8 | R 0,3 | 16 | 8 | 60 | 8 | ☑ |
| 4JJRC-080-005-160 | | R 0,5 | 16 | 8 | 60 | 8 | ☑ |
| 4JJRC-080-005-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4JJRC-080-005-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4JJRC-080-010-160 | | R 1 | 16 | 8 | 60 | 8 | ☑ |
| 4JJRC-080-010-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4JJRC-080-010-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4JJRC-080-020-160 | | R 2 | 16 | 8 | 60 | 8 | ☑ |
| 4JJRC-080-020-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4JJRC-080-020-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4JJRC-100-003-200 | 10 | R 0,3 | 20 | 10 | 70 | 10 | ☑ |
| 4JJRC-100-005-200 | | R 0,5 | 20 | 10 | 70 | 10 | ☑ |
| 4JJRC-100-005-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4JJRC-100-005-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4JJRC-100-010-200 | | R 1 | 20 | 10 | 70 | 10 | ☑ |
| 4JJRC-100-010-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4JJRC-100-010-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4JJRC-100-020-200 | | R 2 | 20 | 10 | 70 | 10 | ☑ |
| 4JJRC-100-020-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4JJRC-100-020-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4JJRC-120-005-250 | 12 | R 0,5 | 25 | 12 | 80 | 12 | ☑ |
| 4JJRC-120-005-300 | | | 30 | 12 | 100 | 12 | ☑ |
| 4JJRC-120-005-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4JJRC-120-010-250 | | R 1 | 25 | 12 | 80 | 12 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4JJRC-120-010-300 | 12 | R 1 | 30 | 12 | 100 | 12 | ☑ |
| 4JJRC-120-010-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4JJRC-120-020-250 | | R 2 | 25 | 12 | 80 | 12 | ☑ |
| 4JJRC-120-020-300 | | | 30 | 12 | 100 | 12 | ☑ |
| 4JJRC-120-020-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4JJRC-120-030-250 | | R 3 | 25 | 12 | 80 | 12 | ☑ |
| 4JJRC-160-010-300 | 16 | R 1 | 30 | 16 | 110 | 16 | ☑ |
| 4JJRC-160-010-400 | | | 40 | 16 | 160 | 16 | ☑ |
| 4JJRC-160-020-300 | | R 2 | 30 | 16 | 110 | 16 | ☑ |
| 4JJRC-160-020-400 | | | 40 | 16 | 160 | 16 | ☑ |

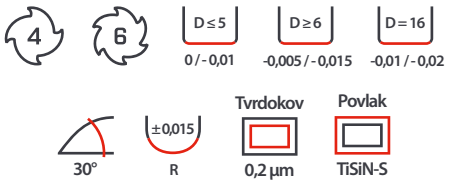
◀ zpět na obsah

# 4&6JJDRC

## 4 a 6-břité RYCHLOPOSUVOVÉ frézy 30° pro kalené oceli do HRC 68




- Určeno pro kalené oceli (52–68 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Určeno pro vysoké posuvy při nižších řezných rychlostech
- Vhodné pro náročné a hrubovací obrábění
- Dvojitý rádius pro tvorbu menších třísek a tím i snížení řezného odporu




NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | R1 (mm) | R2 (mm) | D1 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|---|
| 4JJDRC-010-010-030 | 1 | 3 | 1 | 0,1 | 0,28 | 1 | 50 | 4 | ☑ |
| 4JJDRC-020-020-060 | 2 | 6 | 2 | 0,1 | 0,56 | 2 | 50 | 6 | ☑ |
| 4JJDRC-030-030-090 | 3 | 9 | 3 | 0,2 | 0,68 | 3 | 60 | 6 | ☑ |
| 4JJDRC-040-040-120 | 4 | 12 | 4 | 0,2 | 0,8 | 4 | 60 | 6 | ☑ |
| 4JJDRC-050-050-150 | 5 | 15 | 5 | 0,3 | 1,08 | 5 | 60 | 6 | ☑ |
| 6JJDRC-060-060-180 | 6 | 18 | 6 | 0,3 | 1,22 | 6 | 60 | 6 | ☑ |
| 6JJDRC-080-080-240 | 8 | 24 | 8 | 0,5 | 1,76 | 8 | 75 | 8 | ☑ |
| 6JJDRC-100-100-300 | 10 | 30 | 10 | 0,5 | 2,02 | 10 | 80 | 10 | ☑ |
| 6JJDRC-120-120-360 | 12 | 36 | 12 | 0,5 | 2,28 | 12 | 100 | 12 | ☑ |
| 6JJDRC-160-160-450 | 16 | 45 | 16 | 0,8 | 2,8 | 16 | 110 | 16 | ☑ |

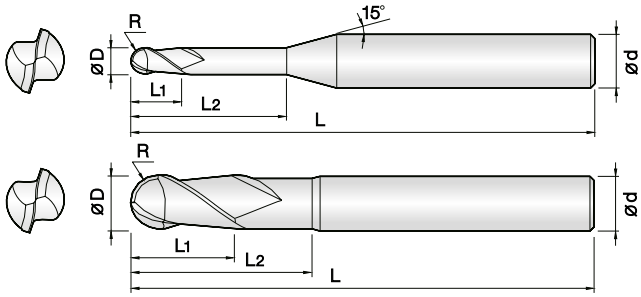
◀ zpět na obsah

# HS

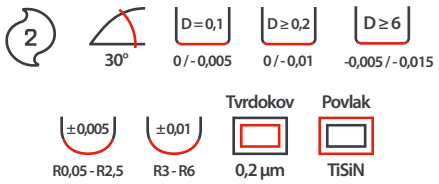
- Tvrdokové frézy pro kalené oceli do max. tvrdosti HRC 62
- Vhodné i pro HSC obrábění

◀ zpět na obsah

# 2HRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-001-003-S04 | 0,1 | R 0,05 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2HRB-001-005-S04 | | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2HRB-0015-003-S04 | 0,15 | R 0,075 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2HRB-0015-005-S04 | | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2HRB-0015-010-S04 | | | 1 | 0,15 | 40 | 4 | ☑ |
| 2HRB-002-005-S04 | 0,2 | R 0,1 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2HRB-002-010-S04 | | | 1 | 0,2 | 40 | 4 | ☑ |
| 2HRB-002-015-S04 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2HRB-002-020-S04 | | | 2 | 0,2 | 40 | 4 | ☑ |
| 2HRB-002-025-S04 | | | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2HRB-002-030-S04 | | | 3 | 0,2 | 40 | 4 | ☑ |
| 2HRB-0025-005-S04 | 0,25 | R 0,125 | 0,5 | 0,25 | 40 | 4 | ☑ |
| 2HRB-0025-010-S04 | | | 1 | 0,25 | 40 | 4 | ☑ |
| 2HRB-0025-015-S04 | | | 1,5 | 0,25 | 40 | 4 | ☑ |
| 2HRB-0025-020-S04 | | | 2 | 0,25 | 40 | 4 | ☑ |
| 2HRB-0025-025-S04 | | | 2,5 | 0,25 | 40 | 4 | ☑ |
| 2HRB-0025-030-S04 | | | 3 | 0,25 | 40 | 4 | ☑ |
| 2HRB-003-010-S04 | 0,3 | R 0,15 | 1 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-015-S04 | | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-020-S04 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-025-S04 | | | 2,5 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-030-S04 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-035-S04 | | | 3,5 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-040-S04 | | | 4 | 0,3 | 40 | 4 | ☑ |
| 2HRB-003-050-S04 | | | 5 | 0,3 | 40 | 4 | ☑ |
| 2HRB-004-010-S04 | 0,4 | R 0,2 | 1 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-015-S04 | | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-020-S04 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-025-S04 | | | 2,5 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-030-S04 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-035-S04 | | | 3,5 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-040-S04 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-045-S04 | | | 4,5 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-050-S04 | | | 5 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-060-S04 | | | 6 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-080-S04 | | | 8 | 0,4 | 40 | 4 | ☑ |
| 2HRB-004-100-S04 | | | 10 | 0,4 | 40 | 4 | ☑ |
| 2HRB-005-010-S04 | 0,5 | R 0,25 | 1 | 0,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-005-015-S04 | 0,5 | R 0,25 | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-020-S04 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-025-S04 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-030-S04 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-035-S04 | | | 3,5 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-040-S04 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-045-S04 | | | 4,5 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-050-S04 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-060-S04 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-080-S04 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-100-S04 | | | 10 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-120-S04 | | | 12 | 0,5 | 45 | 4 | ☑ |
| 2HRB-005-140-S04 | | | 14 | 0,5 | 45 | 4 | ☑ |
| 2HRB-006-010-S04 | 0,6 | R 0,3 | 1 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-020-S04 | | | 2 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-030-S04 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-040-S04 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-050-S04 | | | 5 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-060-S04 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-080-S04 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-100-S04 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-120-S04 | | | 12 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-140-S04 | | | 14 | 0,6 | 45 | 4 | ☑ |
| 2HRB-006-160-S04 | | | 16 | 0,6 | 45 | 4 | ☑ |
| 2HRB-007-020-S04 | 0,7 | R 0,35 | 2 | 0,7 | 45 | 4 | ☑ |
| 2HRB-007-040-S04 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2HRB-007-060-S04 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2HRB-007-080-S04 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2HRB-007-100-S04 | | | 10 | 0,7 | 45 | 4 | ☑ |
| 2HRB-007-120-S04 | | | 12 | 0,7 | 45 | 4 | ☑ |
| 2HRB-008-020-S04 | 0,8 | R 0,4 | 2 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-030-S04 | | | 3 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-040-S04 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-050-S04 | | | 5 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-060-S04 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-080-S04 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-100-S04 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-120-S04 | | | 12 | 0,8 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2HRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 62

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-008-140-S04 | 0,8 | R 0,4 | 14 | 0,8 | 45 | 4 | ☑ |
| 2HRB-008-160-S04 | | | 16 | 0,8 | 45 | 4 | ☑ |
| 2HRB-009-040-S04 | 0,9 | R 0,45 | 4 | 0,9 | 45 | 4 | ☑ |
| 2HRB-010-020-S04 | 1 | R 0,5 | 2 | 1 | 45 | 4 | ☑ |
| 2HRB-010-020-S06 | | | 2 | 1 | 50 | 6 | ☑ |
| 2HRB-010-030-S04 | | | 3 | 1 | 45 | 4 | ☑ |
| 2HRB-010-030-S06 | | | 3 | 1 | 50 | 6 | ☑ |
| 2HRB-010-040-S04 | | | 4 | 1 | 45 | 4 | ☑ |
| 2HRB-010-040-S06 | | | 4 | 1 | 50 | 6 | ☑ |
| 2HRB-010-050-S04 | | | 5 | 1 | 45 | 4 | ☑ |
| 2HRB-010-050-S06 | | | 5 | 1 | 50 | 6 | ☑ |
| 2HRB-010-060-S04 | | | 6 | 1 | 45 | 4 | ☑ |
| 2HRB-010-060-S06 | | | 6 | 1 | 50 | 6 | ☑ |
| 2HRB-010-080-S04 | | | 8 | 1 | 45 | 4 | ☑ |
| 2HRB-010-080-S06 | | | 8 | 1 | 50 | 6 | ☑ |
| 2HRB-010-100-S04 | | | 10 | 1 | 50 | 4 | ☑ |
| 2HRB-010-100-S06 | | | 10 | 1 | 50 | 6 | ☑ |
| 2HRB-010-120-S04 | | | 12 | 1 | 50 | 4 | ☑ |
| 2HRB-010-120-S06 | | | 12 | 1 | 50 | 6 | ☑ |
| 2HRB-010-140-S04 | | | 14 | 1 | 50 | 4 | ☑ |
| 2HRB-010-140-S06 | | | 14 | 1 | 50 | 6 | ☑ |
| 2HRB-010-160-S04 | | | 16 | 1 | 50 | 4 | ☑ |
| 2HRB-010-160-S06 | | | 16 | 1 | 60 | 6 | ☑ |
| 2HRB-010-180-S04 | | | 18 | 1 | 50 | 4 | ☑ |
| 2HRB-010-180-S06 | | | 18 | 1 | 60 | 6 | ☑ |
| 2HRB-010-200-S04 | | | 20 | 1 | 50 | 4 | ☑ |
| 2HRB-010-200-S06 | | | 20 | 1 | 60 | 6 | ☑ |
| 2HRB-010-220-S04 | | | 22 | 1 | 60 | 4 | ☑ |
| 2HRB-010-220-S06 | | | 22 | 1 | 65 | 6 | ☑ |
| 2HRB-010-250-S04 | | | 25 | 1 | 60 | 4 | ☑ |
| 2HRB-010-300-S04 | | | 30 | 1 | 70 | 4 | ☑ |
| 2HRB-012-040-S04 | 1,2 | R 0,6 | 4 | 1,2 | 45 | 4 | ☑ |
| 2HRB-012-040-S06 | | | 4 | 1,2 | 50 | 6 | ☑ |
| 2HRB-012-060-S04 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2HRB-012-060-S06 | | | 6 | 1,2 | 50 | 6 | ☑ |
| 2HRB-012-080-S04 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2HRB-012-080-S06 | | | 8 | 1,2 | 50 | 6 | ☑ |
| 2HRB-012-100-S04 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2HRB-012-100-S06 | | | 10 | 1,2 | 50 | 6 | ☑ |
| 2HRB-012-120-S04 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2HRB-012-120-S06 | | | 12 | 1,2 | 50 | 6 | ☑ |
| 2HRB-012-160-S04 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2HRB-012-160-S06 | | | 16 | 1,2 | 60 | 6 | ☑ |
| 2HRB-012-200-S04 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2HRB-012-200-S06 | | | 20 | 1,2 | 60 | 6 | ☑ |
| 2HRB-012-240-S04 | | | 24 | 1,2 | 60 | 4 | ☑ |
| 2HRB-012-240-S06 | | | 24 | 1,2 | 65 | 6 | ☑ |
| 2HRB-014-060-S04 | 1,4 | R 0,7 | 6 | 1,4 | 45 | 4 | ☑ |
| 2HRB-014-080-S04 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 2HRB-014-120-S04 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2HRB-014-160-S04 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2HRB-015-030-S04 | 1,5 | R 0,75 | 3 | 1,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-015-030-S06 | 1,5 | R 0,75 | 3 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-040-S04 | | | 4 | 1,5 | 45 | 4 | ☑ |
| 2HRB-015-040-S06 | | | 4 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-060-S04 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2HRB-015-060-S06 | | | 6 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-080-S04 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2HRB-015-080-S06 | | | 8 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-100-S04 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-100-S06 | | | 10 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-120-S04 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-120-S06 | | | 12 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-140-S04 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-140-S06 | | | 14 | 1,5 | 50 | 6 | ☑ |
| 2HRB-015-160-S04 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-160-S06 | | | 16 | 1,5 | 60 | 6 | ☑ |
| 2HRB-015-180-S04 | | | 18 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-180-S06 | | | 18 | 1,5 | 60 | 6 | ☑ |
| 2HRB-015-200-S04 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2HRB-015-200-S06 | | | 20 | 1,5 | 60 | 6 | ☑ |
| 2HRB-015-220-S04 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2HRB-015-220-S06 | | | 22 | 1,5 | 65 | 6 | ☑ |
| 2HRB-015-250-S04 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2HRB-015-250-S06 | | | 25 | 1,5 | 65 | 6 | ☑ |
| 2HRB-015-300-S04 | | | 30 | 1,5 | 70 | 4 | ☑ |
| 2HRB-015-300-S06 | | | 30 | 1,5 | 70 | 6 | ☑ |
| 2HRB-015-350-S04 | | | 35 | 1,5 | 70 | 4 | ☑ |
| 2HRB-015-400-S04 | | | 40 | 1,5 | 80 | 4 | ☑ |
| 2HRB-016-060-S04 | 1,6 | R 0,8 | 6 | 1,6 | 45 | 4 | ☑ |
| 2HRB-016-080-S04 | | | 8 | 1,6 | 45 | 4 | ☑ |
| 2HRB-016-120-S04 | | | 12 | 1,6 | 50 | 4 | ☑ |
| 2HRB-016-160-S04 | | | 16 | 1,6 | 50 | 4 | ☑ |
| 2HRB-016-200-S04 | | | 20 | 1,6 | 50 | 4 | ☑ |
| 2HRB-018-060-S04 | 1,8 | R 0,9 | 6 | 1,8 | 45 | 4 | ☑ |
| 2HRB-018-080-S04 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2HRB-018-120-S04 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2HRB-018-160-S04 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2HRB-018-200-S04 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2HRB-020-040-S04 | 2 | R 1 | 4 | 2 | 45 | 4 | ☑ |
| 2HRB-020-040-S06 | | | 4 | 2 | 50 | 6 | ☑ |
| 2HRB-020-060-S04 | | | 6 | 2 | 45 | 4 | ☑ |
| 2HRB-020-060-S06 | | | 6 | 2 | 50 | 6 | ☑ |
| 2HRB-020-080-S04 | | | 8 | 2 | 45 | 4 | ☑ |
| 2HRB-020-080-S06 | | | 8 | 2 | 50 | 6 | ☑ |
| 2HRB-020-100-S04 | | | 10 | 2 | 50 | 4 | ☑ |
| 2HRB-020-100-S06 | | | 10 | 2 | 50 | 6 | ☑ |
| 2HRB-020-120-S04 | | | 12 | 2 | 50 | 4 | ☑ |
| 2HRB-020-120-S06 | | | 12 | 2 | 50 | 6 | ☑ |
| 2HRB-020-140-S04 | | | 14 | 2 | 50 | 4 | ☑ |
| 2HRB-020-140-S06 | | | 14 | 2 | 50 | 6 | ☑ |
| 2HRB-020-160-S04 | | | 16 | 2 | 50 | 4 | ☑ |
| 2HRB-020-160-S06 | | | 16 | 2 | 60 | 6 | ☑ |
| 2HRB-020-180-S04 | | | 18 | 2 | 50 | 4 | ☑ |

◀ zpět na obsah

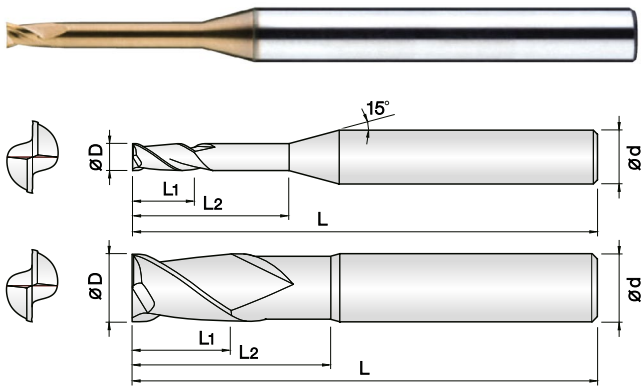
# 2HRB 2-břité KULOVÉ frézy pro žebrování pro kalené oceli do HRC 62

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-020-180-S06 | 2 | R 1 | 18 | 2 | 60 | 6 | ☑ |
| 2HRB-020-200-S04 | | | 20 | 2 | 50 | 4 | ☑ |
| 2HRB-020-200-S06 | | | 20 | 2 | 60 | 6 | ☑ |
| 2HRB-020-220-S04 | | | 22 | 2 | 60 | 4 | ☑ |
| 2HRB-020-220-S06 | | | 22 | 2 | 65 | 6 | ☑ |
| 2HRB-020-250-S04 | | | 25 | 2 | 60 | 4 | ☑ |
| 2HRB-020-250-S06 | | | 25 | 2 | 65 | 6 | ☑ |
| 2HRB-020-300-S04 | | | 30 | 2 | 70 | 4 | ☑ |
| 2HRB-020-300-S06 | | | 30 | 2 | 70 | 6 | ☑ |
| 2HRB-020-350-S04 | | | 35 | 2 | 70 | 4 | ☑ |
| 2HRB-020-350-S06 | | | 35 | 2 | 75 | 6 | ☑ |
| 2HRB-020-400-S04 | | | 40 | 2 | 80 | 4 | ☑ |
| 2HRB-020-400-S06 | | | 40 | 2 | 80 | 6 | ☑ |
| 2HRB-020-450-S04 | | | 45 | 2 | 80 | 4 | ☑ |
| 2HRB-020-500-S04 | | | 50 | 2 | 90 | 4 | ☑ |
| 2HRB-025-080-S04 | 2,5 | R 1,25 | 8 | 2,5 | 45 | 4 | ☑ |
| 2HRB-025-080-S06 | | | 8 | 2,5 | 50 | 6 | ☑ |
| 2HRB-025-100-S04 | | | 10 | 2,5 | 50 | 4 | ☑ |
| 2HRB-025-100-S06 | | | 10 | 2,5 | 50 | 6 | ☑ |
| 2HRB-025-120-S04 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 2HRB-025-120-S06 | | | 12 | 2,5 | 50 | 6 | ☑ |
| 2HRB-025-160-S04 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2HRB-025-160-S06 | | | 16 | 2,5 | 60 | 6 | ☑ |
| 2HRB-025-200-S04 | | | 20 | 2,5 | 60 | 4 | ☑ |
| 2HRB-025-250-S04 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2HRB-025-300-S04 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2HRB-025-350-S04 | | | 35 | 2,5 | 70 | 4 | ☑ |
| 2HRB-025-400-S04 | | | 40 | 2,5 | 80 | 4 | ☑ |
| 2HRB-030-060-S06 | 3 | R 1,5 | 6 | 3 | 50 | 6 | ☑ |
| 2HRB-030-080-S06 | | | 8 | 3 | 50 | 6 | ☑ |
| 2HRB-030-100-S06 | | | 10 | 3 | 50 | 6 | ☑ |
| 2HRB-030-120-S06 | | | 12 | 3 | 50 | 6 | ☑ |
| 2HRB-030-160-S06 | | | 16 | 3 | 60 | 6 | ☑ |
| 2HRB-030-200-S06 | | | 20 | 3 | 60 | 6 | ☑ |
| 2HRB-030-250-S06 | | | 25 | 3 | 65 | 6 | ☑ |
| 2HRB-030-300-S06 | | | 30 | 3 | 70 | 6 | ☑ |
| 2HRB-030-350-S06 | | | 35 | 3 | 75 | 6 | ☑ |
| 2HRB-030-400-S06 | | | 40 | 3 | 80 | 6 | ☑ |
| 2HRB-030-450-S06 | | | 45 | 3 | 90 | 6 | ☑ |
| 2HRB-030-500-S06 | | | 50 | 3 | 100 | 6 | ☑ |
| 2HRB-030-600-S06 | | | 60 | 3 | 100 | 6 | ☑ |
| 2HRB-030-650-S06 | | | 65 | 3 | 110 | 6 | ☑ |
| 2HRB-030-700-S06 | | | 70 | 3 | 110 | 6 | ☑ |
| 2HRB-040-080-S06 | 4 | R 2 | 8 | 4 | 50 | 6 | ☑ |
| 2HRB-040-100-S06 | | | 10 | 4 | 50 | 6 | ☑ |
| 2HRB-040-120-S06 | | | 12 | 4 | 50 | 6 | ☑ |
| 2HRB-040-160-S06 | | | 16 | 4 | 60 | 6 | ☑ |
| 2HRB-040-200-S06 | | | 20 | 4 | 60 | 6 | ☑ |
| 2HRB-040-250-S06 | | | 25 | 4 | 65 | 6 | ☑ |
| 2HRB-040-300-S06 | | | 30 | 4 | 70 | 6 | ☑ |
| 2HRB-040-350-S06 | | | 35 | 4 | 75 | 6 | ☑ |
| 2HRB-040-400-S06 | | | 40 | 4 | 80 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRB-040-450-S06 | 4 | R 2 | 45 | 4 | 90 | 6 | ☑ |
| 2HRB-040-500-S06 | | | 50 | 4 | 100 | 6 | ☑ |
| 2HRB-040-550-S06 | | | 55 | 4 | 100 | 6 | ☑ |
| 2HRB-040-600-S06 | | | 60 | 4 | 100 | 6 | ☑ |
| 2HRB-040-650-S06 | | | 65 | 4 | 110 | 6 | ☑ |
| 2HRB-040-700-S06 | | | 70 | 4 | 110 | 6 | ☑ |
| 2HRB-050-160-S06 | 5 | R 2,5 | 16 | 6 | 60 | 6 | ☑ |
| 2HRB-050-200-S06 | | | 20 | 6 | 60 | 6 | ☑ |
| 2HRB-050-250-S06 | | | 25 | 6 | 70 | 6 | ☑ |
| 2HRB-050-300-S06 | | | 30 | 6 | 75 | 6 | ☑ |
| 2HRB-050-400-S06 | | | 40 | 6 | 80 | 6 | ☑ |
| 2HRB-050-450-S06 | | | 45 | 6 | 90 | 6 | ☑ |
| 2HRB-050-500-S06 | | | 50 | 6 | 100 | 6 | ☑ |
| 2HRB-050-600-S06 | | | 60 | 6 | 100 | 6 | ☑ |
| 2HRB-050-650-S06 | | | 65 | 6 | 110 | 6 | ☑ |
| 2HRB-050-700-S06 | | | 70 | 6 | 110 | 6 | ☑ |
| 2HRB-060-150-S06 | 6 | R 3 | 15 | 10 | 55 | 6 | ☑ |
| 2HRB-060-300-S06 | | | 30 | 10 | 110 | 6 | ☑ |
| 2HRB-080-250-060 | 8 | R 4 | 25 | 12 | 60 | 8 | ☑ |
| 2HRB-080-300-100 | | | 30 | 12 | 100 | 8 | ☑ |
| 2HRB-100-300-070 | 10 | R 5 | 30 | 16 | 70 | 10 | ☑ |
| 2HRB-100-350-100 | | | 35 | 16 | 100 | 10 | ☑ |
| 2HRB-120-300-075 | 12 | R 6 | 30 | 18 | 75 | 12 | ☑ |
| 2HRB-120-400-110 | | | 40 | 18 | 110 | 12 | ☑ |

◀ zpět na obsah

# 2HRE 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

2 | 30° | D=0,1 0/-0,005 | D≥0,2 0/-0,01 | D≥6 -0,01/-0,025 | Tvrdokov 0,2 µm | Povlak TiSiN

NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HRE-001-003-S04 | 0,1 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2HRE-001-005-S04 | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2HRE-0015-003-S04 | 0,15 | 0,3 | 0,15 | 40 | 4 | ☑ |
| 2HRE-0015-005-S04 | | 0,5 | 0,15 | 40 | 4 | ☑ |
| 2HRE-0015-0075-S04 | | 0,75 | 0,15 | 40 | 4 | ☑ |
| 2HRE-0015-010-S04 | | 1 | 0,15 | 40 | 4 | ☑ |
| 2HRE-002-005-S04 | 0,2 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2HRE-002-010-S04 | | 1 | 0,2 | 40 | 4 | ☑ |
| 2HRE-002-015-S04 | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2HRE-002-020-S04 | | 2 | 0,2 | 40 | 4 | ☑ |
| 2HRE-002-025-S04 | | 2,5 | 0,2 | 40 | 4 | ☑ |
| 2HRE-002-030-S04 | | 3 | 0,2 | 40 | 4 | ☑ |
| 2HRE-0025-005-S04 | 0,25 | 0,5 | 0,25 | 40 | 4 | ☑ |
| 2HRE-0025-010-S04 | | 1 | 0,25 | 40 | 4 | ☑ |
| 2HRE-0025-015-S04 | | 1,5 | 0,25 | 40 | 4 | ☑ |
| 2HRE-0025-020-S04 | | 2 | 0,25 | 40 | 4 | ☑ |
| 2HRE-0025-030-S04 | | 3 | 0,25 | 40 | 4 | ☑ |
| 2HRE-003-010-S04 | 0,3 | 1 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-015-S04 | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-020-S04 | | 2 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-025-S04 | | 2,5 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-030-S04 | | 3 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-035-S04 | | 3,5 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-040-S04 | | 4 | 0,3 | 40 | 4 | ☑ |
| 2HRE-003-050-S04 | | 5 | 0,3 | 40 | 4 | ☑ |
| 2HRE-004-010-S04 | 0,4 | 1 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-015-S04 | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-020-S04 | | 2 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-025-S04 | | 2,5 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-030-S04 | | 3 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-035-S04 | | 3,5 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-040-S04 | | 4 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-050-S04 | | 5 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-060-S04 | | 6 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-080-S04 | | 8 | 0,4 | 40 | 4 | ☑ |
| 2HRE-004-100-S04 | | 10 | 0,4 | 40 | 4 | ☑ |
| 2HRE-005-010-S04 | 0,5 | 1 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-020-S04 | | 2 | 0,5 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HRE-005-030-S04 | 0,5 | 3 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-040-S04 | | 4 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-050-S04 | | 5 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-060-S04 | | 6 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-080-S04 | | 8 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-100-S04 | | 10 | 0,5 | 40 | 4 | ☑ |
| 2HRE-005-120-S04 | | 12 | 0,5 | 45 | 4 | ☑ |
| 2HRE-005-140-S04 | | 14 | 0,5 | 45 | 4 | ☑ |
| 2HRE-006-010-S04 | 0,6 | 1 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-020-S04 | | 2 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-030-S04 | | 3 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-040-S04 | | 4 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-050-S04 | | 5 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-060-S04 | | 6 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-080-S04 | | 8 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-100-S04 | | 10 | 0,6 | 40 | 4 | ☑ |
| 2HRE-006-120-S04 | | 12 | 0,6 | 45 | 4 | ☑ |
| 2HRE-006-140-S04 | | 14 | 0,6 | 45 | 4 | ☑ |
| 2HRE-006-160-S04 | | 16 | 0,6 | 45 | 4 | ☑ |
| 2HRE-007-020-S04 | 0,7 | 2 | 0,7 | 40 | 4 | ☑ |
| 2HRE-007-040-S04 | | 4 | 0,7 | 40 | 4 | ☑ |
| 2HRE-007-060-S04 | | 6 | 0,7 | 40 | 4 | ☑ |
| 2HRE-007-080-S04 | | 8 | 0,7 | 40 | 4 | ☑ |
| 2HRE-007-100-S04 | | 10 | 0,7 | 40 | 4 | ☑ |
| 2HRE-007-120-S04 | | 12 | 0,7 | 45 | 4 | ☑ |
| 2HRE-008-020-S04 | 0,8 | 2 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-030-S04 | | 3 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-040-S04 | | 4 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-050-S04 | | 5 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-060-S04 | | 6 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-080-S04 | | 8 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-100-S04 | | 10 | 0,8 | 40 | 4 | ☑ |
| 2HRE-008-120-S04 | | 12 | 0,8 | 45 | 4 | ☑ |
| 2HRE-008-140-S04 | | 14 | 0,8 | 45 | 4 | ☑ |
| 2HRE-009-060-S04 | 0,9 | 6 | 0,9 | 40 | 4 | ☑ |
| 2HRE-009-080-S04 | | 8 | 0,9 | 40 | 4 | ☑ |
| 2HRE-009-100-S04 | | 10 | 0,9 | 40 | 4 | ☑ |
| 2HRE-010-020-S04 | 1 | 2 | 1 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2HRE 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 60

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HRE-010-030-S04 | 1 | 3 | 1 | 45 | 4 | ☑ |
| 2HRE-010-040-S04 | | 4 | 1 | 45 | 4 | ☑ |
| 2HRE-010-050-S04 | | 5 | 1 | 45 | 4 | ☑ |
| 2HRE-010-060-S04 | | 6 | 1 | 45 | 4 | ☑ |
| 2HRE-010-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 2HRE-010-100-S04 | | 10 | 1 | 45 | 4 | ☑ |
| 2HRE-010-120-S04 | | 12 | 1 | 45 | 4 | ☑ |
| 2HRE-010-140-S04 | | 14 | 1 | 45 | 4 | ☑ |
| 2HRE-010-160-S04 | | 16 | 1 | 50 | 4 | ☑ |
| 2HRE-010-180-S04 | | 18 | 1 | 50 | 4 | ☑ |
| 2HRE-010-200-S04 | | 20 | 1 | 50 | 4 | ☑ |
| 2HRE-010-250-S04 | | 25 | 1 | 60 | 4 | ☑ |
| 2HRE-010-300-S04 | | 30 | 1 | 70 | 4 | ☑ |
| 2HRE-012-040-S04 | 1,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 2HRE-012-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 2HRE-012-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 2HRE-012-100-S04 | | 10 | 1,2 | 45 | 4 | ☑ |
| 2HRE-012-120-S04 | | 12 | 1,2 | 45 | 4 | ☑ |
| 2HRE-012-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 2HRE-012-200-S04 | | 20 | 1,2 | 50 | 4 | ☑ |
| 2HRE-012-250-S04 | | 25 | 1,2 | 60 | 4 | ☑ |
| 2HRE-012-300-S04 | | 30 | 1,2 | 70 | 4 | ☑ |
| 2HRE-014-060-S04 | 1,4 | 6 | 1,4 | 45 | 4 | ☑ |
| 2HRE-014-080-S04 | | 8 | 1,4 | 45 | 4 | ☑ |
| 2HRE-014-100-S04 | | 10 | 1,4 | 45 | 4 | ☑ |
| 2HRE-014-140-S04 | | 14 | 1,4 | 45 | 4 | ☑ |
| 2HRE-014-160-S04 | | 16 | 1,4 | 50 | 4 | ☑ |
| 2HRE-014-200-S04 | | 20 | 1,4 | 50 | 4 | ☑ |
| 2HRE-015-040-S04 | 1,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 2HRE-015-060-S04 | | 6 | 1,5 | 45 | 4 | ☑ |
| 2HRE-015-080-S04 | | 8 | 1,5 | 45 | 4 | ☑ |
| 2HRE-015-100-S04 | | 10 | 1,5 | 45 | 4 | ☑ |
| 2HRE-015-120-S04 | | 12 | 1,5 | 45 | 4 | ☑ |
| 2HRE-015-140-S04 | | 14 | 1,5 | 50 | 4 | ☑ |
| 2HRE-015-160-S04 | | 16 | 1,5 | 50 | 4 | ☑ |
| 2HRE-015-180-S04 | | 18 | 1,5 | 50 | 4 | ☑ |
| 2HRE-015-200-S04 | | 20 | 1,5 | 50 | 4 | ☑ |
| 2HRE-015-250-S04 | | 25 | 1,5 | 60 | 4 | ☑ |
| 2HRE-015-300-S04 | | 30 | 1,5 | 70 | 4 | ☑ |
| 2HRE-016-100-S04 | 1,6 | 10 | 1,6 | 45 | 4 | ☑ |
| 2HRE-016-140-S04 | | 14 | 1,6 | 45 | 4 | ☑ |
| 2HRE-016-180-S04 | | 18 | 1,6 | 50 | 4 | ☑ |
| 2HRE-018-100-S04 | 1,8 | 10 | 1,8 | 45 | 4 | ☑ |
| 2HRE-018-140-S04 | | 14 | 1,8 | 45 | 4 | ☑ |
| 2HRE-018-180-S04 | | 18 | 1,8 | 50 | 4 | ☑ |
| 2HRE-020-040-S04 | 2 | 4 | 2 | 45 | 4 | ☑ |
| 2HRE-020-060-S04 | | 6 | 2 | 45 | 4 | ☑ |
| 2HRE-020-080-S04 | | 8 | 2 | 45 | 4 | ☑ |
| 2HRE-020-100-S04 | | 10 | 2 | 45 | 4 | ☑ |
| 2HRE-020-120-S04 | | 12 | 2 | 45 | 4 | ☑ |
| 2HRE-020-140-S04 | | 14 | 2 | 45 | 4 | ☑ |
| 2HRE-020-160-S04 | | 16 | 2 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HRE-020-180-S04 | 2 | 18 | 2 | 50 | 4 | ☑ |
| 2HRE-020-200-S04 | | 20 | 2 | 50 | 4 | ☑ |
| 2HRE-020-220-S04 | | 22 | 2 | 60 | 4 | ☑ |
| 2HRE-020-250-S04 | | 25 | 2 | 60 | 4 | ☑ |
| 2HRE-020-300-S04 | | 30 | 2 | 60 | 4 | ☑ |
| 2HRE-020-350-S04 | | 35 | 2 | 70 | 4 | ☑ |
| 2HRE-020-400-S04 | | 40 | 2 | 80 | 4 | ☑ |
| 2HRE-020-450-S04 | | 45 | 2 | 80 | 4 | ☑ |
| 2HRE-020-500-S04 | | 50 | 2 | 90 | 4 | ☑ |
| 2HRE-025-080-S04 | 2,5 | 8 | 2,5 | 45 | 4 | ☑ |
| 2HRE-025-100-S04 | | 10 | 2,5 | 45 | 4 | ☑ |
| 2HRE-025-120-S04 | | 12 | 2,5 | 45 | 4 | ☑ |
| 2HRE-025-160-S04 | | 16 | 2,5 | 50 | 4 | ☑ |
| 2HRE-025-200-S04 | | 20 | 2,5 | 50 | 4 | ☑ |
| 2HRE-025-250-S04 | | 25 | 2,5 | 60 | 4 | ☑ |
| 2HRE-025-300-S04 | | 30 | 2,5 | 70 | 4 | ☑ |
| 2HRE-025-350-S04 | | 35 | 2,5 | 70 | 4 | ☑ |
| 2HRE-025-400-S04 | | 40 | 2,5 | 80 | 4 | ☑ |
| 2HRE-025-500-S04 | | 50 | 2,5 | 90 | 4 | ☑ |
| 2HRE-030-060-S06 | 3 | 6 | 3 | 45 | 6 | ☑ |
| 2HRE-030-080-S06 | | 8 | 3 | 45 | 6 | ☑ |
| 2HRE-030-100-S06 | | 10 | 3 | 45 | 6 | ☑ |
| 2HRE-030-120-S06 | | 12 | 3 | 50 | 6 | ☑ |
| 2HRE-030-160-S06 | | 16 | 3 | 55 | 6 | ☑ |
| 2HRE-030-200-S06 | | 20 | 3 | 60 | 6 | ☑ |
| 2HRE-030-250-S06 | | 25 | 3 | 65 | 6 | ☑ |
| 2HRE-030-300-S06 | | 30 | 3 | 70 | 6 | ☑ |
| 2HRE-030-350-S06 | | 35 | 3 | 75 | 6 | ☑ |
| 2HRE-030-400-S06 | | 40 | 3 | 80 | 6 | ☑ |
| 2HRE-030-450-S06 | | 45 | 3 | 90 | 6 | ☑ |
| 2HRE-030-500-S06 | | 50 | 3 | 100 | 6 | ☑ |
| 2HRE-030-600-S06 | | 60 | 3 | 100 | 6 | ☑ |
| 2HRE-040-080-S06 | 4 | 8 | 4 | 50 | 6 | ☑ |
| 2HRE-040-100-S06 | | 10 | 4 | 50 | 6 | ☑ |
| 2HRE-040-120-S06 | | 12 | 4 | 50 | 6 | ☑ |
| 2HRE-040-160-S06 | | 16 | 4 | 55 | 6 | ☑ |
| 2HRE-040-200-S06 | | 20 | 4 | 60 | 6 | ☑ |
| 2HRE-040-250-S06 | | 25 | 4 | 65 | 6 | ☑ |
| 2HRE-040-300-S06 | | 30 | 4 | 70 | 6 | ☑ |
| 2HRE-040-350-S06 | | 35 | 4 | 75 | 6 | ☑ |
| 2HRE-040-400-S06 | | 40 | 4 | 80 | 6 | ☑ |
| 2HRE-040-450-S06 | | 45 | 4 | 90 | 6 | ☑ |
| 2HRE-040-500-S06 | | 50 | 4 | 100 | 6 | ☑ |
| 2HRE-040-550-S06 | | 55 | 4 | 100 | 6 | ☑ |
| 2HRE-040-600-S06 | | 60 | 4 | 100 | 6 | ☑ |
| 2HRE-050-160-S06 | 5 | 16 | 6 | 55 | 6 | ☑ |
| 2HRE-050-200-S06 | | 20 | 6 | 60 | 6 | ☑ |
| 2HRE-050-250-S06 | | 25 | 6 | 65 | 6 | ☑ |
| 2HRE-050-300-S06 | | 30 | 6 | 70 | 6 | ☑ |
| 2HRE-050-350-S06 | | 35 | 6 | 75 | 6 | ☑ |
| 2HRE-050-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 2HRE-050-500-S06 | | 50 | 6 | 100 | 6 | ☑ |

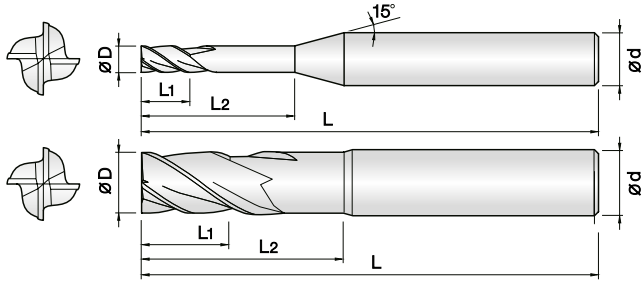
◀ zpět na obsah

# 2HRE 2-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 60

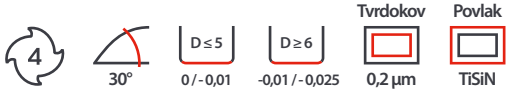
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HRE-050-600-S06 | 5 | 60 | 6 | 100 | 6 | ☑ |
| 2HRE-060-200-S06 | 6 | 20 | 10 | 60 | 6 | ☑ |
| 2HRE-060-300-S06 | | 30 | 10 | 75 | 6 | ☑ |
| 2HRE-060-400-S06 | | 40 | 10 | 80 | 6 | ☑ |
| 2HRE-060-500-S06 | | 50 | 10 | 90 | 6 | ☑ |
| 2HRE-060-600-S06 | | 60 | 10 | 110 | 6 | ☑ |
| 2HRE-080-200-S08 | 8 | 20 | 12 | 65 | 8 | ☑ |
| 2HRE-080-300-S08 | | 30 | 12 | 80 | 8 | ☑ |
| 2HRE-080-400-S08 | | 40 | 12 | 100 | 8 | ☑ |
| 2HRE-100-250-S10 | 10 | 25 | 15 | 70 | 10 | ☑ |
| 2HRE-100-350-S10 | | 35 | 15 | 80 | 10 | ☑ |
| 2HRE-100-450-S10 | | 45 | 15 | 100 | 10 | ☑ |
| 2HRE-120-300-S12 | 12 | 30 | 18 | 80 | 12 | ☑ |
| 2HRE-120-400-S12 | | 40 | 18 | 100 | 12 | ☑ |
| 2HRE-120-500-S12 | | 50 | 18 | 120 | 12 | ☑ |

◀ zpět na obsah

# 4HRE 4-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HRE-005-010-S04 | 0,5 | 1 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-020-S04 | | 2 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-030-S04 | | 3 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-040-S04 | | 4 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-050-S04 | | 5 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-060-S04 | | 6 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-080-S04 | | 8 | 0,5 | 45 | 4 | ☑ |
| 4HRE-005-100-S04 | | 10 | 0,5 | 50 | 4 | ☑ |
| 4HRE-006-010-S04 | 0,6 | 1 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-020-S04 | | 2 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-030-S04 | | 3 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-040-S04 | | 4 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-060-S04 | | 6 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-080-S04 | | 8 | 0,6 | 45 | 4 | ☑ |
| 4HRE-006-100-S04 | | 10 | 0,6 | 50 | 4 | ☑ |
| 4HRE-006-120-S04 | | 12 | 0,6 | 50 | 4 | ☑ |
| 4HRE-007-020-S04 | 0,7 | 2 | 0,7 | 45 | 4 | ☑ |
| 4HRE-007-040-S04 | | 4 | 0,7 | 45 | 4 | ☑ |
| 4HRE-007-060-S04 | | 6 | 0,7 | 45 | 4 | ☑ |
| 4HRE-007-080-S04 | | 8 | 0,7 | 45 | 4 | ☑ |
| 4HRE-007-100-S04 | | 10 | 0,7 | 50 | 4 | ☑ |
| 4HRE-008-020-S04 | 0,8 | 2 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-040-S04 | | 4 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-060-S04 | | 6 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-080-S04 | | 8 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-100-S04 | | 10 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-120-S04 | | 12 | 0,8 | 45 | 4 | ☑ |
| 4HRE-008-160-S04 | | 16 | 0,8 | 50 | 4 | ☑ |
| 4HRE-009-020-S04 | 0,9 | 2 | 0,9 | 45 | 4 | ☑ |
| 4HRE-009-060-S04 | | 6 | 0,9 | 45 | 4 | ☑ |
| 4HRE-009-080-S04 | | 8 | 0,9 | 45 | 4 | ☑ |
| 4HRE-009-100-S04 | | 10 | 0,9 | 45 | 4 | ☑ |
| 4HRE-010-020-S04 | 1 | 2 | 1 | 45 | 4 | ☑ |
| 4HRE-010-030-S04 | | 3 | 1 | 45 | 4 | ☑ |
| 4HRE-010-040-S04 | | 4 | 1 | 45 | 4 | ☑ |
| 4HRE-010-060-S04 | | 6 | 1 | 45 | 4 | ☑ |
| 4HRE-010-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 4HRE-010-100-S04 | | 10 | 1 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HRE-010-120-S04 | 1 | 12 | 1 | 45 | 4 | ☑ |
| 4HRE-010-140-S04 | | 14 | 1 | 50 | 4 | ☑ |
| 4HRE-010-160-S04 | | 16 | 1 | 50 | 4 | ☑ |
| 4HRE-010-200-S04 | | 20 | 1 | 50 | 4 | ☑ |
| 4HRE-010-250-S04 | | 25 | 1 | 60 | 4 | ☑ |
| 4HRE-012-040-S04 | 1,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 4HRE-012-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 4HRE-012-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 4HRE-012-100-S04 | | 10 | 1,2 | 45 | 4 | ☑ |
| 4HRE-012-120-S04 | | 12 | 1,2 | 45 | 4 | ☑ |
| 4HRE-012-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 4HRE-015-040-S04 | 1,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 4HRE-015-060-S04 | | 6 | 1,5 | 45 | 4 | ☑ |
| 4HRE-015-080-S04 | | 8 | 1,5 | 45 | 4 | ☑ |
| 4HRE-015-100-S04 | | 10 | 1,5 | 45 | 4 | ☑ |
| 4HRE-015-120-S04 | | 12 | 1,5 | 45 | 4 | ☑ |
| 4HRE-015-160-S04 | | 16 | 1,5 | 50 | 4 | ☑ |
| 4HRE-015-200-S04 | | 20 | 1,5 | 50 | 4 | ☑ |
| 4HRE-015-250-S04 | | 25 | 1,5 | 60 | 4 | ☑ |
| 4HRE-020-040-S04 | 2 | 4 | 2 | 45 | 4 | ☑ |
| 4HRE-020-060-S04 | | 6 | 2 | 45 | 4 | ☑ |
| 4HRE-020-080-S04 | | 8 | 2 | 45 | 4 | ☑ |
| 4HRE-020-100-S04 | | 10 | 2 | 45 | 4 | ☑ |
| 4HRE-020-120-S04 | | 12 | 2 | 45 | 4 | ☑ |
| 4HRE-020-140-S04 | | 14 | 2 | 50 | 4 | ☑ |
| 4HRE-020-160-S04 | | 16 | 2 | 50 | 4 | ☑ |
| 4HRE-020-180-S04 | | 18 | 2 | 50 | 4 | ☑ |
| 4HRE-020-200-S04 | | 20 | 2 | 50 | 4 | ☑ |
| 4HRE-020-250-S04 | | 25 | 2 | 60 | 4 | ☑ |
| 4HRE-020-300-S04 | | 30 | 2 | 70 | 4 | ☑ |
| 4HRE-025-100-S04 | 2,5 | 10 | 2,5 | 45 | 4 | ☑ |
| 4HRE-025-120-S04 | | 12 | 2,5 | 45 | 4 | ☑ |
| 4HRE-025-160-S04 | | 16 | 2,5 | 50 | 4 | ☑ |
| 4HRE-025-200-S04 | | 20 | 2,5 | 50 | 4 | ☑ |
| 4HRE-025-250-S04 | | 25 | 2,5 | 60 | 4 | ☑ |
| 4HRE-025-300-S04 | | 30 | 2,5 | 70 | 4 | ☑ |
| 4HRE-030-060-S06 | 3 | 6 | 3 | 45 | 6 | ☑ |
| 4HRE-030-080-S06 | | 8 | 3 | 45 | 6 | ☑ |

◀ zpět na obsah

# 4HRE 4-břité OSTRÉ frézy pro žebrování pro kalené oceli do HRC 60

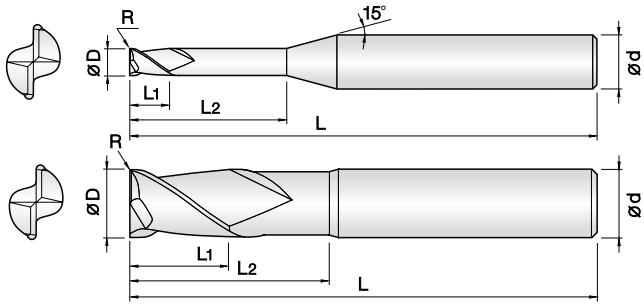
NOVINKA

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HRE-030-100-S06 | 3 | 10 | 3 | 45 | 6 | ☑ |
| 4HRE-030-120-S06 | | 12 | 3 | 50 | 6 | ☑ |
| 4HRE-030-160-S06 | | 16 | 3 | 55 | 6 | ☑ |
| 4HRE-030-200-S06 | | 20 | 3 | 60 | 6 | ☑ |
| 4HRE-030-250-S06 | | 25 | 3 | 65 | 6 | ☑ |
| 4HRE-030-300-S06 | | 30 | 3 | 70 | 6 | ☑ |
| 4HRE-030-350-S06 | | 35 | 3 | 75 | 6 | ☑ |
| 4HRE-030-400-S06 | | 40 | 3 | 80 | 6 | ☑ |
| 4HRE-030-450-S06 | | 45 | 3 | 90 | 6 | ☑ |
| 4HRE-030-500-S06 | | 50 | 3 | 100 | 6 | ☑ |
| 4HRE-035-120-S06 | 3,5 | 12 | 3,5 | 50 | 6 | ☑ |
| 4HRE-035-160-S06 | | 16 | 3,5 | 55 | 6 | ☑ |
| 4HRE-035-200-S06 | | 20 | 3,5 | 60 | 6 | ☑ |
| 4HRE-035-250-S06 | | 25 | 3,5 | 65 | 6 | ☑ |
| 4HRE-035-300-S06 | | 30 | 3,5 | 70 | 6 | ☑ |
| 4HRE-040-060-S06 | 4 | 6 | 4 | 50 | 6 | ☑ |
| 4HRE-040-080-S06 | | 8 | 4 | 50 | 6 | ☑ |
| 4HRE-040-100-S06 | | 10 | 4 | 50 | 6 | ☑ |
| 4HRE-040-120-S06 | | 12 | 4 | 50 | 6 | ☑ |
| 4HRE-040-160-S06 | | 16 | 4 | 55 | 6 | ☑ |
| 4HRE-040-200-S06 | | 20 | 4 | 60 | 6 | ☑ |
| 4HRE-040-250-S06 | | 25 | 4 | 65 | 6 | ☑ |
| 4HRE-040-300-S06 | | 30 | 4 | 70 | 6 | ☑ |
| 4HRE-040-400-S06 | | 40 | 4 | 80 | 6 | ☑ |
| 4HRE-040-450-S06 | | 45 | 4 | 90 | 6 | ☑ |
| 4HRE-040-500-S06 | | 50 | 4 | 100 | 6 | ☑ |
| 4HRE-040-600-S06 | | 60 | 4 | 110 | 6 | ☑ |

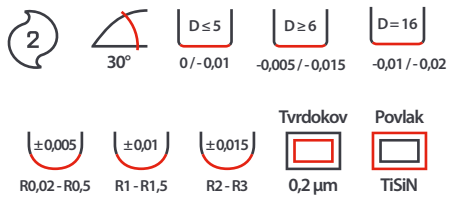
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HRE-045-120-S06 | 4,5 | 12 | 4,5 | 50 | 6 | ☑ |
| 4HRE-045-160-S06 | | 16 | 4,5 | 55 | 6 | ☑ |
| 4HRE-045-200-S06 | | 20 | 4,5 | 60 | 6 | ☑ |
| 4HRE-045-250-S06 | | 25 | 4,5 | 65 | 6 | ☑ |
| 4HRE-045-300-S06 | | 30 | 4,5 | 70 | 6 | ☑ |
| 4HRE-050-160-S06 | 5 | 16 | 5 | 55 | 6 | ☑ |
| 4HRE-050-200-S06 | | 20 | 5 | 60 | 6 | ☑ |
| 4HRE-050-250-S06 | | 25 | 5 | 65 | 6 | ☑ |
| 4HRE-050-300-S06 | | 30 | 5 | 70 | 6 | ☑ |
| 4HRE-050-400-S06 | | 40 | 5 | 80 | 6 | ☑ |
| 4HRE-050-500-S06 | | 50 | 5 | 100 | 6 | ☑ |
| 4HRE-050-600-S06 | | 60 | 5 | 110 | 6 | ☑ |
| 4HRE-060-200-S06 | 6 | 20 | 6 | 60 | 6 | ☑ |
| 4HRE-060-300-S06 | | 30 | 6 | 75 | 6 | ☑ |
| 4HRE-060-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 4HRE-060-500-S06 | | 50 | 6 | 90 | 6 | ☑ |
| 4HRE-060-600-S06 | | 60 | 6 | 110 | 6 | ☑ |
| 4HRE-080-200-S08 | 8 | 20 | 10 | 65 | 8 | ☑ |
| 4HRE-080-300-S08 | | 30 | 10 | 80 | 8 | ☑ |
| 4HRE-080-400-S08 | | 40 | 10 | 100 | 8 | ☑ |
| 4HRE-100-250-S10 | 10 | 25 | 15 | 70 | 10 | ☑ |
| 4HRE-100-350-S10 | | 35 | 15 | 90 | 10 | ☑ |
| 4HRE-100-450-S10 | | 45 | 15 | 110 | 10 | ☑ |
| 4HRE-120-300-S12 | 12 | 30 | 18 | 80 | 12 | ☑ |
| 4HRE-120-400-S12 | | 40 | 18 | 100 | 12 | ☑ |
| 4HRE-120-500-S12 | | 50 | 18 | 120 | 12 | ☑ |

◀ zpět na obsah

# 2CRE 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-002-0002-010 | 0,2 | R 0,02 | 1 | 0,2 | 40 | 4 | ☑ |
| 2CRE-002-0002-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2CRE-002-0002-020 | | | 2 | 0,2 | 40 | 4 | ☑ |
| 2CRE-002-0005-010 | | R 0,05 | 1 | 0,2 | 40 | 4 | ☑ |
| 2CRE-002-0005-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2CRE-002-0005-020 | | | 2 | 0,2 | 40 | 4 | ☑ |
| 2CRE-003-0005-010 | 0,3 | | 1 | 0,3 | 40 | 4 | ☑ |
| 2CRE-003-0005-020 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2CRE-003-0005-030 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2CRE-003-0005-040 | | | 4 | 0,3 | 40 | 4 | ☑ |
| 2CRE-003-0005-050 | | | 5 | 0,3 | 40 | 4 | ☑ |
| 2CRE-004-0005-010 | 0,4 | | 1 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-0005-020 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-0005-030 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-0005-040 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-0005-050 | | | 5 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-0005-060 | | | 6 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-001-010 | | R 0,1 | 1 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-001-015 | | | 1,5 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-001-020 | | | 2 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-001-030 | | | 3 | 0,4 | 40 | 4 | ☑ |
| 2CRE-004-001-040 | | | 4 | 0,4 | 40 | 4 | ☑ |
| 2CRE-005-0002-010 | 0,5 | R 0,02 | 1 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-020 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-025 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-050 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0002-100 | | | 10 | 0,5 | 50 | 4 | ☑ |
| 2CRE-005-0005-010 | | R 0,05 | 1 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-020 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-025 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-040 | | | 4 | 0,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-005-0005-050 | 0,5 | R 0,05 | 5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-0005-100 | | | 10 | 0,5 | 50 | 4 | ☑ |
| 2CRE-005-0005-120 | | | 12 | 0,5 | 50 | 4 | ☑ |
| 2CRE-005-001-010 | | R 0,1 | 1 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-015 | | | 1,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-020 | | | 2 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-025 | | | 2,5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-030 | | | 3 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-040 | | | 4 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-050 | | | 5 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-060 | | | 6 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-080 | | | 8 | 0,5 | 45 | 4 | ☑ |
| 2CRE-005-001-100 | | | 10 | 0,5 | 50 | 4 | ☑ |
| 2CRE-005-001-120 | | | 12 | 0,5 | 50 | 4 | ☑ |
| 2CRE-006-0002-020 | 0,6 | R 0,02 | 2 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0002-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0002-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0002-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0002-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0002-100 | | | 10 | 0,6 | 50 | 4 | ☑ |
| 2CRE-006-0005-020 | | R 0,05 | 2 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0005-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0005-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0005-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0005-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-0005-100 | | | 10 | 0,6 | 50 | 4 | ☑ |
| 2CRE-006-0005-120 | | | 12 | 0,6 | 50 | 4 | ☑ |
| 2CRE-006-001-020 | | R 0,1 | 2 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-001-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-001-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-001-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-001-080 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2CRE-006-001-100 | | | 10 | 0,6 | 50 | 4 | ☑ |
| 2CRE-006-001-120 | | | 12 | 0,6 | 50 | 4 | ☑ |
| 2CRE-007-001-020 | 0,7 | | 2 | 0,7 | 45 | 4 | ☑ |
| 2CRE-007-001-040 | | | 4 | 0,7 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2CRE 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-007-001-060 | 0,7 | R 0,1 | 6 | 0,7 | 45 | 4 | ☑ |
| 2CRE-007-001-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2CRE-007-001-100 | | | 10 | 0,7 | 45 | 4 | ☑ |
| 2CRE-008-0002-020 | 0,8 | R 0,02 | 2 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0002-100 | | | 10 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-0005-020 | | R 0,05 | 2 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0005-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0005-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0005-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-0005-100 | | | 10 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-0005-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-001-020 | | R 0,1 | 2 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-001-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-001-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-001-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-001-100 | | | 10 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-001-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-001-140 | | | 14 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-002-020 | | R 0,2 | 2 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2CRE-008-002-100 | | | 10 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-002-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 2CRE-008-002-140 | | | 14 | 0,8 | 50 | 4 | ☑ |
| 2CRE-010-0005-040 | 1 | R 0,05 | 4 | 1 | 45 | 4 | ☑ |
| 2CRE-010-0005-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2CRE-010-0005-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2CRE-010-0005-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2CRE-010-0005-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2CRE-010-0005-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2CRE-010-0005-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2CRE-010-0005-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2CRE-010-0005-220 | | | 22 | 1 | 60 | 4 | ☑ |
| 2CRE-010-0005-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 2CRE-010-001-040 | | R 0,1 | 4 | 1 | 45 | 4 | ☑ |
| 2CRE-010-001-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2CRE-010-001-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2CRE-010-001-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2CRE-010-001-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2CRE-010-001-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2CRE-010-001-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2CRE-010-001-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2CRE-010-001-220 | | | 22 | 1 | 60 | 4 | ☑ |
| 2CRE-010-001-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 2CRE-010-002-040 | | R 0,2 | 4 | 1 | 45 | 4 | ☑ |
| 2CRE-010-002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2CRE-010-002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2CRE-010-002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2CRE-010-002-120 | 1 | R 0,2 | 12 | 1 | 50 | 4 | ☑ |
| 2CRE-010-002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2CRE-010-002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2CRE-010-002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2CRE-010-002-220 | | | 22 | 1 | 60 | 4 | ☑ |
| 2CRE-010-002-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 2CRE-010-003-040 | | R 0,3 | 4 | 1 | 45 | 4 | ☑ |
| 2CRE-010-003-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 2CRE-010-003-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 2CRE-010-003-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 2CRE-010-003-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 2CRE-010-003-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 2CRE-010-003-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 2CRE-010-003-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 2CRE-010-003-220 | | | 22 | 1 | 60 | 4 | ☑ |
| 2CRE-010-003-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 2CRE-012-001-040 | 1,2 | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-001-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CRE-012-003-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-003-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-003-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CRE-012-003-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CRE-015-001-040 | 1,5 | R 0,1 | 4 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-001-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-001-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-001-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-001-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-001-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-001-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-001-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-001-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-001-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-002-040 | | R 0,2 | 4 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-002-060 | | | 6 | 1,5 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2CRE 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-015-002-080 | 1,5 | R 0,2 | 8 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-002-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-002-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-003-040 | | R 0,3 | 4 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-003-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-003-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-003-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-003-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-003-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-003-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-003-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-003-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-003-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-005-040 | | R 0,5 | 4 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-005-060 | | | 6 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 2CRE-015-005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 2CRE-015-005-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 2CRE-015-005-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 2CRE-020-001-060 | 2 | R 0,1 | 6 | 2 | 45 | 4 | ☑ |
| 2CRE-020-001-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2CRE-020-001-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2CRE-020-001-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2CRE-020-001-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2CRE-020-001-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2CRE-020-001-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2CRE-020-001-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2CRE-020-001-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2CRE-020-001-350 | | | 35 | 2 | 80 | 4 | ☑ |
| 2CRE-020-001-400 | | | 40 | 2 | 80 | 4 | ☑ |
| 2CRE-020-002-060 | | R 0,2 | 6 | 2 | 45 | 4 | ☑ |
| 2CRE-020-002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2CRE-020-002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2CRE-020-002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2CRE-020-002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2CRE-020-002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2CRE-020-002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2CRE-020-002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2CRE-020-002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2CRE-020-003-060 | | R 0,3 | 6 | 2 | 45 | 4 | ☑ |
| 2CRE-020-003-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2CRE-020-003-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2CRE-020-003-120 | | | 12 | 2 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-020-003-140 | 2 | R 0,3 | 14 | 2 | 50 | 4 | ☑ |
| 2CRE-020-003-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2CRE-020-003-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2CRE-020-003-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2CRE-020-003-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2CRE-020-005-060 | | R 0,5 | 6 | 2 | 45 | 4 | ☑ |
| 2CRE-020-005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 2CRE-020-005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 2CRE-020-005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 2CRE-020-005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 2CRE-020-005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 2CRE-020-005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 2CRE-020-005-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 2CRE-020-005-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 2CRE-020-005-350 | | | 35 | 2 | 80 | 4 | ☑ |
| 2CRE-020-005-400 | | | 40 | 2 | 80 | 4 | ☑ |
| 2CRE-025-001-100 | 2,5 | R 0,1 | 10 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-001-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-001-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-001-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2CRE-025-001-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2CRE-025-002-100 | | R 0,2 | 10 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-002-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-002-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-002-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2CRE-025-002-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2CRE-025-003-100 | | R 0,3 | 10 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-003-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-003-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-003-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2CRE-025-003-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2CRE-025-005-100 | | R 0,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-005-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-005-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 2CRE-025-005-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 2CRE-025-005-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 2CRE-030-001-100 | 3 | R 0,1 | 10 | 3 | 50 | 6 | ☑ |
| 2CRE-030-001-120 | | | 12 | 3 | 55 | 6 | ☑ |
| 2CRE-030-001-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2CRE-030-001-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2CRE-030-001-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2CRE-030-001-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2CRE-030-001-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2CRE-030-001-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2CRE-030-002-100 | | R 0,2 | 10 | 3 | 50 | 6 | ☑ |
| 2CRE-030-002-120 | | | 12 | 3 | 55 | 6 | ☑ |
| 2CRE-030-002-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2CRE-030-002-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2CRE-030-002-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2CRE-030-002-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2CRE-030-002-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2CRE-030-002-400 | | | 40 | 3 | 80 | 6 | ☑ |

◀ zpět na obsah

# 2CRE 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-030-002-450 | 3 | R 0,2 | 45 | 3 | 90 | 6 | ☑ |
| 2CRE-030-002-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 2CRE-030-003-100 | | R 0,3 | 10 | 3 | 50 | 6 | ☑ |
| 2CRE-030-003-120 | | | 12 | 3 | 55 | 6 | ☑ |
| 2CRE-030-003-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2CRE-030-003-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2CRE-030-003-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2CRE-030-003-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2CRE-030-003-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2CRE-030-003-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2CRE-030-005-100 | | R 0,5 | 10 | 3 | 50 | 6 | ☑ |
| 2CRE-030-005-120 | | | 12 | 3 | 55 | 6 | ☑ |
| 2CRE-030-005-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2CRE-030-005-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2CRE-030-005-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2CRE-030-005-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2CRE-030-005-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2CRE-030-005-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2CRE-030-005-450 | | | 45 | 3 | 90 | 6 | ☑ |
| 2CRE-030-005-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 2CRE-030-010-100 | | R 1 | 10 | 3 | 50 | 6 | ☑ |
| 2CRE-030-010-120 | | | 12 | 3 | 55 | 6 | ☑ |
| 2CRE-030-010-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 2CRE-030-010-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 2CRE-030-010-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 2CRE-030-010-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 2CRE-030-010-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 2CRE-030-010-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 2CRE-040-001-050 | 4 | R 0,1 | 12 | 4 | 50 | 4 | ☑ |
| 2CRE-040-001-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 2CRE-040-001-120 | | | 12 | 4 | 55 | 6 | ☑ |
| 2CRE-040-001-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2CRE-040-001-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2CRE-040-001-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2CRE-040-001-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2CRE-040-001-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2CRE-040-001-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2CRE-040-001-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 2CRE-040-001-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 2CRE-040-002-050 | | R 0,2 | 12 | 4 | 50 | 4 | ☑ |
| 2CRE-040-002-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 2CRE-040-002-120 | | | 12 | 4 | 55 | 6 | ☑ |
| 2CRE-040-002-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2CRE-040-002-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2CRE-040-002-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2CRE-040-002-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2CRE-040-002-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2CRE-040-002-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2CRE-040-002-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 2CRE-040-002-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 2CRE-040-003-050 | | R 0,3 | 12 | 4 | 50 | 4 | ☑ |
| 2CRE-040-003-070 | | | 20 | 4 | 70 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-040-003-120 | 4 | R 0,3 | 12 | 4 | 55 | 6 | ☑ |
| 2CRE-040-003-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2CRE-040-003-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2CRE-040-003-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2CRE-040-003-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2CRE-040-003-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2CRE-040-003-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2CRE-040-003-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 2CRE-040-003-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 2CRE-040-005-050 | | R 0,5 | 12 | 4 | 50 | 4 | ☑ |
| 2CRE-040-005-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 2CRE-040-005-120 | | | 12 | 4 | 55 | 6 | ☑ |
| 2CRE-040-005-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2CRE-040-005-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2CRE-040-005-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2CRE-040-005-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2CRE-040-005-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2CRE-040-005-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2CRE-040-005-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 2CRE-040-005-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 2CRE-040-010-050 | | R 1 | 12 | 4 | 50 | 4 | ☑ |
| 2CRE-040-010-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 2CRE-040-010-120 | | | 12 | 4 | 55 | 6 | ☑ |
| 2CRE-040-010-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 2CRE-040-010-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 2CRE-040-010-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 2CRE-040-010-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 2CRE-040-010-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 2CRE-040-010-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 2CRE-040-010-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 2CRE-040-010-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 2CRE-050-002-150 | 5 | R 0,2 | 15 | 6 | 60 | 6 | ☑ |
| 2CRE-050-002-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2CRE-050-002-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CRE-050-002-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CRE-050-002-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CRE-050-005-150 | | R 0,5 | 15 | 6 | 60 | 6 | ☑ |
| 2CRE-050-005-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2CRE-050-005-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CRE-050-005-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CRE-050-005-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CRE-050-010-150 | | R 1 | 15 | 6 | 60 | 6 | ☑ |
| 2CRE-050-010-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2CRE-050-010-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CRE-050-010-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CRE-050-010-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CRE-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |
| 2CRE-060-001-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-060-002-200 | | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 2CRE-060-002-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-060-002-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 2CRE-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |

◀ zpět na obsah

# 2CRE 2-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

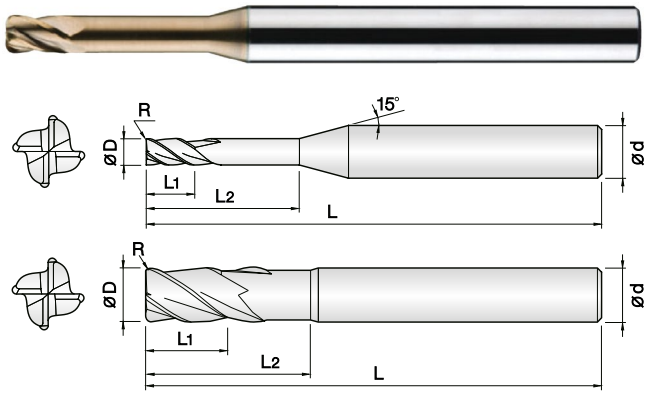
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-060-003-400 | 6 | R 0,3 | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 2CRE-060-005-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-060-005-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 2CRE-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 2CRE-060-010-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-060-010-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 2CRE-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 2CRE-060-015-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CRE-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 2CRE-080-002-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CRE-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 2CRE-080-003-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CRE-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 2CRE-080-005-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CRE-080-005-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 2CRE-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 2CRE-080-010-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CRE-080-010-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 2CRE-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 2CRE-080-015-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CRE-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-002-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-100-002-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 2CRE-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-003-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-005-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-100-005-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 2CRE-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-010-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-100-010-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 2CRE-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-015-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 2CRE-100-020-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CRE-120-002-260 | 12 | R 0,2 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-002-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-003-260 | | R 0,3 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-003-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-005-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-005-700 | | | 70 | 13 | 130 | 12 | ☑ |
| 2CRE-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-010-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-010-700 | | | 70 | 13 | 130 | 12 | ☑ |
| 2CRE-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-015-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-020-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CRE-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |
| 2CRE-120-030-500 | | | 50 | 13 | 110 | 12 | ☑ |

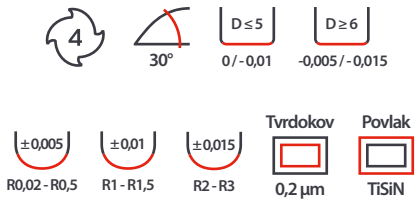
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CRE-160-005-110 | 16 | R 0,5 | 40 | 20 | 110 | 16 | ☑ |
| 2CRE-160-005-160 | | | 60 | 20 | 160 | 16 | ☑ |
| 2CRE-160-010-110 | | R 1 | 40 | 20 | 110 | 16 | ☑ |
| 2CRE-160-010-160 | | | 60 | 20 | 160 | 16 | ☑ |

◀ zpět na obsah

# 4CRE 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a vyložení pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu v

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| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-008-0002-020 | 0,8 | R 0,02 | 2 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0002-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0002-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0002-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0002-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0002-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4CRE-008-0005-020 | | R 0,05 | 2 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0005-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0005-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0005-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0005-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-0005-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4CRE-008-001-020 | | R 0,1 | 2 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-001-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-001-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-001-080 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-001-100 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 4CRE-008-001-120 | | | 12 | 0,8 | 50 | 4 | ☑ |
| 4CRE-010-0002-040 | 1 | R 0,02 | 4 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0002-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 4CRE-010-0002-300 | | | 30 | 1 | 70 | 4 | ☑ |
| 4CRE-010-0005-040 | | R 0,05 | 4 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0005-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0005-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4CRE-010-0005-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0005-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0005-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0005-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0005-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4CRE-010-0005-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 4CRE-010-0005-300 | | | 30 | 1 | 70 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-010-001-040 | 1 | R 0,1 | 4 | 1 | 45 | 4 | ☑ |
| 4CRE-010-001-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4CRE-010-001-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4CRE-010-001-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4CRE-010-001-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4CRE-010-001-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4CRE-010-001-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4CRE-010-001-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4CRE-010-001-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 4CRE-010-001-300 | | | 30 | 1 | 70 | 4 | ☑ |
| 4CRE-010-002-040 | | R 0,2 | 4 | 1 | 45 | 4 | ☑ |
| 4CRE-010-002-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4CRE-010-002-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4CRE-010-002-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4CRE-010-002-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4CRE-010-002-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4CRE-010-002-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4CRE-010-002-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4CRE-010-002-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 4CRE-010-002-300 | | | 30 | 1 | 70 | 4 | ☑ |
| 4CRE-010-003-040 | | R 0,3 | 4 | 1 | 45 | 4 | ☑ |
| 4CRE-010-003-060 | | | 6 | 1 | 45 | 4 | ☑ |
| 4CRE-010-003-080 | | | 8 | 1 | 45 | 4 | ☑ |
| 4CRE-010-003-100 | | | 10 | 1 | 50 | 4 | ☑ |
| 4CRE-010-003-120 | | | 12 | 1 | 50 | 4 | ☑ |
| 4CRE-010-003-140 | | | 14 | 1 | 50 | 4 | ☑ |
| 4CRE-010-003-160 | | | 16 | 1 | 50 | 4 | ☑ |
| 4CRE-010-003-200 | | | 20 | 1 | 50 | 4 | ☑ |
| 4CRE-010-003-250 | | | 25 | 1 | 60 | 4 | ☑ |
| 4CRE-010-003-300 | | | 30 | 1 | 70 | 4 | ☑ |
| 4CRE-012-0002-040 | 1,2 | R 0,02 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |

◀ zpět na obsah

# 4CRE 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-012-0005-040 | 1,2 | R 0,05 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0005-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0005-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-0005-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0005-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0005-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0005-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-0005-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-001-040 | | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-001-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-002-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CRE-012-003-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-003-140 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-003-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CRE-012-003-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CRE-015-0002-060 | 1,5 | R 0,02 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-0002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-0002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0002-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-0002-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-0005-060 | | R 0,05 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-0005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-0005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-0005-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-0005-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-001-060 | | R 0,1 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-001-080 | | | 8 | 1,5 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-015-001-100 | 1,5 | R 0,1 | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-001-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-001-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-001-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-001-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-001-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-001-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-002-060 | | R 0,2 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-002-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-002-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-002-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-002-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-002-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-002-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-002-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-002-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-003-060 | | R 0,3 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-003-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-003-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-003-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-003-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-003-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-003-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-003-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-003-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-005-060 | | R 0,5 | 6 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-005-080 | | | 8 | 1,5 | 45 | 4 | ☑ |
| 4CRE-015-005-100 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-005-120 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-005-140 | | | 14 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-005-160 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-005-200 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 4CRE-015-005-220 | | | 22 | 1,5 | 60 | 4 | ☑ |
| 4CRE-015-005-250 | | | 25 | 1,5 | 60 | 4 | ☑ |
| 4CRE-020-0002-060 | 2 | R 0,02 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-0002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-0002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-180 | | | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0002-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-0002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4CRE-020-0002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-0002-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-020-0005-060 | | R 0,05 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-0005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-0005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0005-160 | | | 16 | 2 | 50 | 4 | ☑ |

◀ zpět na obsah

# 4CRE 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-020-0005-180 | 2 | R 0,05 | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-0005-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-0005-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4CRE-020-0005-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-0005-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-020-001-060 | | R 0,1 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-001-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-001-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-180 | | | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-001-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-001-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4CRE-020-001-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-001-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-020-002-060 | | R 0,2 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-002-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-002-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-180 | | | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-002-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-002-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4CRE-020-002-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-002-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-020-003-060 | | R 0,3 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-003-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-003-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-180 | | | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-003-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-003-250 | | | 25 | 2 | 60 | 4 | ☑ |
| 4CRE-020-003-300 | | | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-003-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-020-005-060 | | R 0,5 | 6 | 2 | 45 | 4 | ☑ |
| 4CRE-020-005-080 | | | 8 | 2 | 45 | 4 | ☑ |
| 4CRE-020-005-100 | | | 10 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-120 | | | 12 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-140 | | | 14 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-160 | | | 16 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-180 | | | 18 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-200 | | | 20 | 2 | 50 | 4 | ☑ |
| 4CRE-020-005-220 | | | 22 | 2 | 60 | 4 | ☑ |
| 4CRE-020-005-250 | | | 25 | 2 | 60 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-020-005-300 | 2 | R 0,5 | 30 | 2 | 70 | 4 | ☑ |
| 4CRE-020-005-350 | | | 35 | 2 | 70 | 4 | ☑ |
| 4CRE-025-001-100 | 2,5 | R 0,1 | 10 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-001-120 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-001-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-001-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-001-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4CRE-025-001-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4CRE-025-002-100 | | R 0,2 | 10 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-002-120 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-002-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-002-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-002-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4CRE-025-002-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4CRE-025-003-100 | | R 0,3 | 10 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-003-120 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-003-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-003-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-003-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4CRE-025-003-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4CRE-025-005-100 | | R 0,5 | 10 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-005-120 | | | 12 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-005-160 | | | 16 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-005-200 | | | 20 | 2,5 | 50 | 4 | ☑ |
| 4CRE-025-005-250 | | | 25 | 2,5 | 60 | 4 | ☑ |
| 4CRE-025-005-300 | | | 30 | 2,5 | 70 | 4 | ☑ |
| 4CRE-030-001-100 | 3 | R 0,1 | 10 | 3 | 50 | 6 | ☑ |
| 4CRE-030-001-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4CRE-030-001-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4CRE-030-001-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4CRE-030-001-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4CRE-030-001-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4CRE-030-001-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4CRE-030-001-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4CRE-030-001-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4CRE-030-002-100 | | R 0,2 | 10 | 3 | 50 | 6 | ☑ |
| 4CRE-030-002-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4CRE-030-002-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4CRE-030-002-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4CRE-030-002-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4CRE-030-002-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4CRE-030-002-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4CRE-030-002-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4CRE-030-002-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4CRE-030-003-100 | | R 0,3 | 10 | 3 | 50 | 6 | ☑ |
| 4CRE-030-003-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4CRE-030-003-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4CRE-030-003-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4CRE-030-003-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4CRE-030-003-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4CRE-030-003-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4CRE-030-003-400 | | | 40 | 3 | 80 | 6 | ☑ |

◀ zpět na obsah

# 4CRE 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-030-003-500 | 3 | R 0,3 | 50 | 3 | 100 | 6 | ☑ |
| 4CRE-030-005-100 | | R 0,5 | 10 | 3 | 50 | 6 | ☑ |
| 4CRE-030-005-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4CRE-030-005-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4CRE-030-005-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4CRE-030-005-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4CRE-030-005-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4CRE-030-005-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4CRE-030-005-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4CRE-030-005-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4CRE-030-005-600 | | | 60 | 3 | 110 | 6 | ☑ |
| 4CRE-030-010-100 | | R 1 | 10 | 3 | 50 | 6 | ☑ |
| 4CRE-030-010-120 | | | 12 | 3 | 50 | 6 | ☑ |
| 4CRE-030-010-160 | | | 16 | 3 | 55 | 6 | ☑ |
| 4CRE-030-010-200 | | | 20 | 3 | 60 | 6 | ☑ |
| 4CRE-030-010-250 | | | 25 | 3 | 65 | 6 | ☑ |
| 4CRE-030-010-300 | | | 30 | 3 | 70 | 6 | ☑ |
| 4CRE-030-010-350 | | | 35 | 3 | 75 | 6 | ☑ |
| 4CRE-030-010-400 | | | 40 | 3 | 80 | 6 | ☑ |
| 4CRE-030-010-500 | | | 50 | 3 | 100 | 6 | ☑ |
| 4CRE-030-010-600 | | | 60 | 3 | 110 | 6 | ☑ |
| 4CRE-040-001-050 | 4 | R 0,1 | 12 | 4 | 50 | 6 | ☑ |
| 4CRE-040-001-070 | | | 20 | 4 | 70 | 6 | ☑ |
| 4CRE-040-001-130 | | | 13 | 4 | 55 | 6 | ☑ |
| 4CRE-040-001-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4CRE-040-001-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4CRE-040-001-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4CRE-040-001-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4CRE-040-001-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4CRE-040-001-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4CRE-040-001-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4CRE-040-001-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4CRE-040-001-600 | | | 60 | 4 | 110 | 6 | ☑ |
| 4CRE-040-002-050 | | R 0,2 | 12 | 4 | 50 | 4 | ☑ |
| 4CRE-040-002-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 4CRE-040-002-130 | | | 13 | 4 | 55 | 6 | ☑ |
| 4CRE-040-002-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4CRE-040-002-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4CRE-040-002-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4CRE-040-002-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4CRE-040-002-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4CRE-040-002-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4CRE-040-002-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4CRE-040-002-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4CRE-040-002-600 | | | 60 | 4 | 110 | 6 | ☑ |
| 4CRE-040-003-050 | | R 0,3 | 12 | 4 | 50 | 4 | ☑ |
| 4CRE-040-003-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 4CRE-040-003-130 | | | 13 | 4 | 55 | 6 | ☑ |
| 4CRE-040-003-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4CRE-040-003-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4CRE-040-003-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4CRE-040-003-300 | | | 30 | 4 | 70 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-040-003-350 | 4 | R 0,3 | 35 | 4 | 75 | 6 | ☑ |
| 4CRE-040-003-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4CRE-040-003-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4CRE-040-003-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4CRE-040-003-600 | | | 60 | 4 | 110 | 6 | ☑ |
| 4CRE-040-005-050 | | R 0,5 | 12 | 4 | 50 | 4 | ☑ |
| 4CRE-040-005-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 4CRE-040-005-130 | | | 13 | 4 | 55 | 6 | ☑ |
| 4CRE-040-005-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4CRE-040-005-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4CRE-040-005-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4CRE-040-005-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4CRE-040-005-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4CRE-040-005-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4CRE-040-005-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4CRE-040-005-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4CRE-040-005-600 | | | 60 | 4 | 110 | 6 | ☑ |
| 4CRE-040-010-050 | | R 1 | 12 | 4 | 50 | 4 | ☑ |
| 4CRE-040-010-070 | | | 20 | 4 | 70 | 4 | ☑ |
| 4CRE-040-010-130 | | | 13 | 4 | 55 | 6 | ☑ |
| 4CRE-040-010-160 | | | 16 | 4 | 55 | 6 | ☑ |
| 4CRE-040-010-200 | | | 20 | 4 | 60 | 6 | ☑ |
| 4CRE-040-010-250 | | | 25 | 4 | 65 | 6 | ☑ |
| 4CRE-040-010-300 | | | 30 | 4 | 70 | 6 | ☑ |
| 4CRE-040-010-350 | | | 35 | 4 | 75 | 6 | ☑ |
| 4CRE-040-010-400 | | | 40 | 4 | 80 | 6 | ☑ |
| 4CRE-040-010-450 | | | 45 | 4 | 90 | 6 | ☑ |
| 4CRE-040-010-500 | | | 50 | 4 | 100 | 6 | ☑ |
| 4CRE-040-010-600 | | | 60 | 4 | 110 | 6 | ☑ |
| 4CRE-050-001-160 | 5 | R 0,1 | 16 | 5 | 60 | 6 | ☑ |
| 4CRE-050-001-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4CRE-050-001-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4CRE-050-001-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4CRE-050-002-160 | | R 0,2 | 16 | 5 | 60 | 6 | ☑ |
| 4CRE-050-002-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4CRE-050-002-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4CRE-050-002-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4CRE-050-003-160 | | R 0,3 | 16 | 5 | 60 | 6 | ☑ |
| 4CRE-050-003-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4CRE-050-003-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4CRE-050-003-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4CRE-050-005-160 | | R 0,5 | 16 | 5 | 60 | 6 | ☑ |
| 4CRE-050-005-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4CRE-050-005-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4CRE-050-005-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4CRE-050-005-600 | | | 60 | 5 | 110 | 6 | ☑ |
| 4CRE-050-010-160 | | R 1 | 16 | 5 | 60 | 6 | ☑ |
| 4CRE-050-010-300 | | | 30 | 5 | 70 | 6 | ☑ |
| 4CRE-050-010-400 | | | 40 | 5 | 80 | 6 | ☑ |
| 4CRE-050-010-500 | | | 50 | 5 | 100 | 6 | ☑ |
| 4CRE-050-010-600 | | | 60 | 5 | 110 | 6 | ☑ |
| 4CRE-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |

◀ zpět na obsah

# 4CRE 4-břité TOROIDNÍ frézy pro žebrování pro kalené oceli do HRC 62

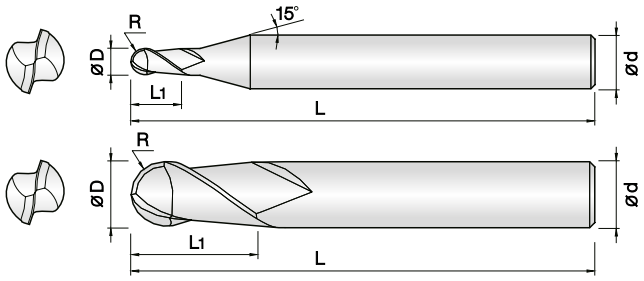
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-060-001-400 | 6 | R 0,1 | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-001-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-060-002-200 | | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 4CRE-060-002-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-002-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-060-002-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 4CRE-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |
| 4CRE-060-003-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-003-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 4CRE-060-005-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-005-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-060-005-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 4CRE-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 4CRE-060-010-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-010-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-060-010-600 | | | 60 | 7 | 110 | 6 | ☑ |
| 4CRE-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 4CRE-060-015-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CRE-060-015-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CRE-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-002-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-003-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-005-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-080-005-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 4CRE-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-010-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-080-010-600 | | | 60 | 9 | 120 | 8 | ☑ |
| 4CRE-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-015-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-080-020-220 | | R 2 | 22 | 9 | 65 | 8 | ☑ |
| 4CRE-080-020-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CRE-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-002-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-003-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-005-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-005-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 4CRE-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-010-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-010-600 | | | 60 | 11 | 120 | 10 | ☑ |
| 4CRE-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-015-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-100-020-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CRE-100-025-240 | | R 2,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CRE-120-003-260 | 12 | R 0,3 | 26 | 13 | 80 | 12 | ☑ |
| 4CRE-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 4CRE-120-005-400 | | | 40 | 13 | 110 | 12 | ☑ |

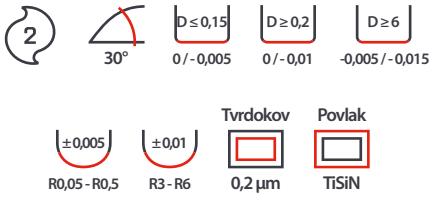
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CRE-120-005-600 | 12 | R 0,5 | 60 | 13 | 130 | 12 | ☑ |
| 4CRE-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 4CRE-120-010-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CRE-120-010-600 | | | 60 | 13 | 130 | 12 | ☑ |
| 4CRE-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |
| 4CRE-120-015-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CRE-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 4CRE-120-020-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CRE-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |

◀ zpět na obsah

# 2HSB 2-břité KULOVÉ frézy krátké pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vysoká tuhost
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



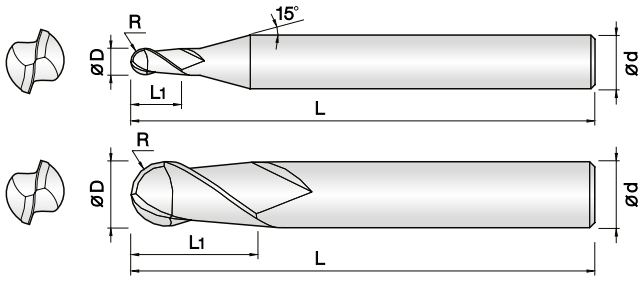

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HSB-001-001-S04 | 0,1 | R 0,05 | 0,1 | 40 | 4 | ☑ |
| 2HSB-001-0015-S04 | | | 0,15 | 40 | 4 | ☑ |
| 2HSB-0015-0015-S04 | 0,15 | R 0,075 | 0,15 | 40 | 4 | ☑ |
| 2HSB-0015-002-S04 | | | 0,2 | 40 | 4 | ☑ |
| 2HSB-002-002-S04 | 0,2 | R 0,1 | 0,2 | 40 | 4 | ☑ |
| 2HSB-002-003-S04 | | | 0,3 | 40 | 4 | ☑ |
| 2HSB-0025-004-S04 | 0,25 | R 0,125 | 0,4 | 40 | 4 | ☑ |
| 2HSB-003-003-S04 | 0,3 | R 0,15 | 0,3 | 40 | 4 | ☑ |
| 2HSB-003-0045-S04 | | | 0,45 | 40 | 4 | ☑ |
| 2HSB-004-004-S04 | 0,4 | R 0,2 | 0,4 | 40 | 4 | ☑ |
| 2HSB-004-006-S04 | | | 0,6 | 40 | 4 | ☑ |
| 2HSB-005-005-S04 | 0,5 | R 0,25 | 0,5 | 40 | 4 | ☑ |
| 2HSB-005-0075-S04 | | | 0,75 | 40 | 4 | ☑ |
| 2HSB-006-006-S04 | 0,6 | R 0,3 | 0,6 | 40 | 4 | ☑ |
| 2HSB-006-009-S04 | | | 0,9 | 40 | 4 | ☑ |
| 2HSB-007-007-S04 | 0,7 | R 0,35 | 0,7 | 40 | 4 | ☑ |
| 2HSB-007-010-S04 | | | 1 | 40 | 4 | ☑ |
| 2HSB-008-008-S04 | 0,8 | R 0,4 | 0,8 | 40 | 4 | ☑ |
| 2HSB-008-012-S04 | | | 1,2 | 40 | 4 | ☑ |
| 2HSB-009-009-S04 | 0,9 | R 0,45 | 0,9 | 40 | 4 | ☑ |
| 2HSB-009-013-S04 | | | 1,3 | 40 | 4 | ☑ |
| 2HSB-010-010-S04 | 1 | R 0,5 | 1 | 40 | 4 | ☑ |
| 2HSB-010-010-S06 | | | 1 | 40 | 6 | ☑ |
| 2HSB-010-015-S04 | | | 1,5 | 40 | 4 | ☑ |
| 2HSB-010-015-S06 | | | 1,5 | 40 | 6 | ☑ |
| 2HSB-012-012-S04 | 1,2 | R 0,6 | 1,2 | 40 | 4 | ☑ |
| 2HSB-015-015-S04 | 1,5 | R 0,75 | 1,5 | 40 | 4 | ☑ |
| 2HSB-015-015-S06 | | | 1,5 | 40 | 6 | ☑ |
| 2HSB-015-023-S04 | | | 2,3 | 40 | 4 | ☑ |
| 2HSB-015-023-S06 | | | 2,3 | 40 | 6 | ☑ |
| 2HSB-020-020-S04 | 2 | R 1 | 2 | 45 | 4 | ☑ |
| 2HSB-020-020-S06 | | | 2 | 45 | 6 | ☑ |
| 2HSB-020-030-S04 | | | 3 | 45 | 4 | ☑ |
| 2HSB-020-030-S06 | | | 3 | 45 | 6 | ☑ |
| 2HSB-025-025-S04 | 2,5 | R 1,25 | 2,5 | 45 | 4 | ☑ |
| 2HSB-025-025-S06 | | | 2,5 | 45 | 6 | ☑ |
| 2HSB-030-030-S04 | 3 | R 1,5 | 3 | 45 | 4 | ☑ |
| 2HSB-030-030-S06 | | | 3 | 45 | 6 | ☑ |

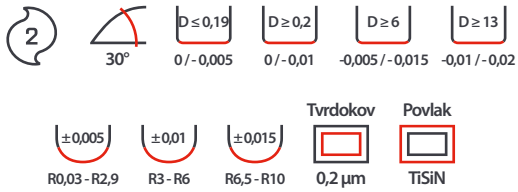
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HSB-030-045-S04 | 3 | R 1,5 | 4,5 | 45 | 4 | ☑ |
| 2HSB-030-045-S06 | | | 4,5 | 45 | 6 | ☑ |
| 2HSB-040-040-S04 | 4 | R 2 | 4 | 45 | 4 | ☑ |
| 2HSB-040-040-S06 | | | 4 | 45 | 6 | ☑ |
| 2HSB-040-060-S04 | 4 | R 2 | 6 | 45 | 4 | ☑ |
| 2HSB-040-060-S06 | | | 6 | 45 | 6 | ☑ |
| 2HSB-050-050-S06 | 5 | R 2,5 | 5 | 50 | 6 | ☑ |
| 2HSB-050-075-S06 | | | 7,5 | 50 | 6 | ☑ |
| 2HSB-060-060-050 | 6 | R 3 | 6 | 50 | 6 | ☑ |
| 2HSB-060-060-060 | | | 6 | 60 | 6 | ☑ |
| 2HSB-080-080-050 | 8 | R 4 | 8 | 50 | 8 | ☑ |
| 2HSB-080-080-060 | | | 8 | 60 | 8 | ☑ |
| 2HSB-100-100-060 | 10 | R 5 | 10 | 60 | 10 | ☑ |
| 2HSB-100-100-070 | | | 10 | 70 | 10 | ☑ |
| 2HSB-120-120-060 | 12 | R 6 | 12 | 60 | 12 | ☑ |
| 2HSB-120-120-070 | | | 12 | 70 | 12 | ☑ |

◀ zpět na obsah

# 2HCB 2-břité KULOVÉ frézy pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HCB-0006-001-S04 | 0,06 | R 0,03 | 0,1 | 40 | 4 | ☑ |
| 2HCB-0007-0012-S04 | 0,07 | R 0,035 | 0,12 | 40 | 4 | ☑ |
| 2HCB-0008-0015-S04 | 0,08 | R 0,04 | 0,15 | 40 | 4 | ☑ |
| 2HCB-0009-0017-S04 | 0,09 | R 0,045 | 0,17 | 40 | 4 | ☑ |
| 2HCB-001-002-S04 | 0,1 | R 0,05 | 0,2 | 40 | 4 | ☑ |
| 2HCB-0015-003-S04 | 0,15 | R 0,075 | 0,3 | 40 | 4 | ☑ |
| 2HCB-002-004-S04 | 0,2 | R 0,1 | 0,4 | 40 | 4 | ☑ |
| 2HCB-003-006-S04 | 0,3 | R 0,15 | 0,6 | 40 | 4 | ☑ |
| 2HCB-004-008-S04 | 0,4 | R 0,2 | 0,8 | 40 | 4 | ☑ |
| 2HCB-005-010-S04 | 0,5 | R 0,25 | 1 | 45 | 4 | ☑ |
| 2HCB-006-012-S04 | 0,6 | R 0,3 | 1,2 | 45 | 4 | ☑ |
| 2HCB-007-015-S04 | 0,7 | R 0,35 | 1,5 | 45 | 4 | ☑ |
| 2HCB-008-020-S04 | 0,8 | R 0,4 | 2 | 45 | 4 | ☑ |
| 2HCB-009-020-S04 | 0,9 | R 0,45 | 2 | 45 | 4 | ☑ |
| 2HCB-010-025-S03 | 1 | R 0,5 | 2,5 | 50 | 3 | ☑ |
| 2HCB-010-025-S04 | | | 2,5 | 50 | 4 | ☑ |
| 2HCB-010-025-S06 | | | 2,5 | 50 | 6 | ☑ |
| 2HCB-010-025-070 | | | 2,5 | 70 | 6 | ☑ |
| 2HCB-010-025-100 | | | 2,5 | 100 | 6 | ☑ |
| 2HCB-011-027-S04 | 1,1 | R 0,55 | 2,7 | 50 | 4 | ☑ |
| 2HCB-012-030-S03 | 1,2 | R 0,6 | 3 | 50 | 3 | ☑ |
| 2HCB-012-030-S04 | | | 3 | 50 | 4 | ☑ |
| 2HCB-013-032-S04 | 1,3 | R 0,65 | 3,2 | 50 | 4 | ☑ |
| 2HCB-014-035-S04 | 1,4 | R 0,7 | 3,5 | 50 | 4 | ☑ |
| 2HCB-015-040-S03 | 1,5 | R 0,75 | 4 | 50 | 3 | ☑ |
| 2HCB-015-040-S04 | | | 4 | 50 | 4 | ☑ |
| 2HCB-015-040-S06 | | | 4 | 50 | 6 | ☑ |
| 2HCB-015-040-070 | | | 4 | 70 | 6 | ☑ |
| 2HCB-015-040-100 | | | 4 | 100 | 6 | ☑ |
| 2HCB-016-040-S04 | 1,6 | R 0,8 | 4 | 50 | 4 | ☑ |
| 2HCB-017-042-S04 | 1,7 | R 0,85 | 4,2 | 50 | 4 | ☑ |
| 2HCB-018-045-S04 | 1,8 | R 0,9 | 4,5 | 50 | 4 | ☑ |
| 2HCB-019-047-S04 | 1,9 | R 0,95 | 4,7 | 50 | 4 | ☑ |
| 2HCB-020-050-S03 | 2 | R 1 | 5 | 50 | 3 | ☑ |
| 2HCB-020-050-S04 | | | 5 | 50 | 4 | ☑ |
| 2HCB-020-050-S06 | | | 5 | 50 | 6 | ☑ |
| 2HCB-020-050-075 | | | 5 | 75 | 6 | ☑ |
| 2HCB-020-050-100 | | | 5 | 100 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HCB-022-055-S04 | 2,2 | R 1,1 | 5,5 | 50 | 4 | ☑ |
| 2HCB-024-060-S04 | 2,4 | R 1,2 | 6 | 50 | 4 | ☑ |
| 2HCB-025-060-S03 | 2,5 | R 1,25 | 6 | 50 | 3 | ☑ |
| 2HCB-025-060-S04 | | | 6 | 50 | 4 | ☑ |
| 2HCB-025-060-S06 | | | 6 | 75 | 6 | ☑ |
| 2HCB-025-060-100 | | | 6 | 100 | 6 | ☑ |
| 2HCB-026-060-S04 | 2,6 | R 1,3 | 6 | 50 | 4 | ☑ |
| 2HCB-028-070-S04 | 2,8 | R 1,4 | 7 | 50 | 4 | ☑ |
| 2HCB-030-080-S03 | 3 | R 1,5 | 8 | 60 | 3 | ☑ |
| 2HCB-030-080-S04 | | | 8 | 50 | 4 | ☑ |
| 2HCB-030-080-S06 | | | 8 | 60 | 6 | ☑ |
| 2HCB-030-080-080 | | | 8 | 80 | 6 | ☑ |
| 2HCB-030-080-100 | | | 8 | 100 | 6 | ☑ |
| 2HCB-032-080-S04 | 3,2 | R 1,6 | 8 | 60 | 4 | ☑ |
| 2HCB-034-080-S04 | 3,4 | R 1,7 | 8 | 60 | 4 | ☑ |
| 2HCB-035-080-S06 | 3,5 | R 1,75 | 8 | 60 | 6 | ☑ |
| 2HCB-036-090-S04 | 3,6 | R 1,8 | 9 | 60 | 4 | ☑ |
| 2HCB-038-090-S04 | 3,8 | R 1,9 | 9 | 60 | 4 | ☑ |
| 2HCB-040-080-060 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 2HCB-040-080-080 | | | 8 | 80 | 4 | ☑ |
| 2HCB-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 2HCB-040-080-090 | | | 8 | 90 | 6 | ☑ |
| 2HCB-040-080-120 | | | 8 | 120 | 6 | ☑ |
| 2HCB-042-100-S06 | 4,2 | R 2,1 | 10 | 70 | 6 | ☑ |
| 2HCB-044-100-S06 | 4,4 | R 2,2 | 10 | 70 | 6 | ☑ |
| 2HCB-045-080-S06 | 4,5 | R 2,25 | 8 | 70 | 6 | ☑ |
| 2HCB-046-100-S06 | 4,6 | R 2,3 | 10 | 70 | 6 | ☑ |
| 2HCB-048-110-S06 | 4,8 | R 2,4 | 11 | 70 | 6 | ☑ |
| 2HCB-050-080-S05 | 5 | R 2,5 | 8 | 80 | 5 | ☑ |
| 2HCB-050-100-S06 | | | 10 | 75 | 6 | ☑ |
| 2HCB-052-120-S06 | 5,2 | R 2,6 | 12 | 75 | 6 | ☑ |
| 2HCB-054-120-S06 | 5,4 | R 2,7 | 12 | 75 | 6 | ☑ |
| 2HCB-055-100-S06 | 5,5 | R 2,75 | 10 | 75 | 6 | ☑ |
| 2HCB-056-120-S06 | 5,6 | R 2,8 | 12 | 75 | 6 | ☑ |
| 2HCB-058-120-S06 | 5,8 | R 2,9 | 12 | 75 | 6 | ☑ |
| 2HCB-060-100-060 | 6 | R 3 | 10 | 60 | 6 | ☑ |
| 2HCB-060-120-080 | | | 12 | 80 | 6 | ☑ |
| 2HCB-060-120-100 | | | 12 | 100 | 6 | ☑ |

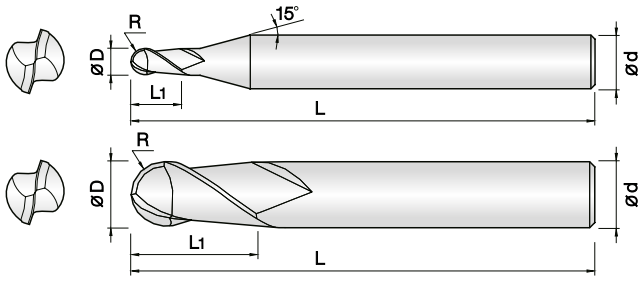
◀ zpět na obsah

# 2HCB 2-břité KULOVÉ frézy pro kalené oceli do HRC 62

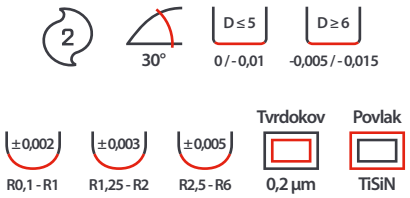
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HCB-060-120-120 | 6 | R 3 | 12 | 120 | 6 | ☑ |
| 2HCB-060-120-150 | | | 12 | 150 | 6 | ☑ |
| 2HCB-070-140-S08 | 7 | R 3,5 | 14 | 80 | 8 | ☑ |
| 2HCB-080-140-090 | 8 | R 4 | 14 | 90 | 8 | ☑ |
| 2HCB-080-140-110 | | | 14 | 110 | 8 | ☑ |
| 2HCB-080-140-150 | | | 14 | 150 | 8 | ☑ |
| 2HCB-090-160-S10 | 9 | R 4,5 | 16 | 100 | 10 | ☑ |
| 2HCB-100-180-100 | 10 | R 5 | 18 | 100 | 10 | ☑ |
| 2HCB-100-180-120 | | | 18 | 120 | 10 | ☑ |
| 2HCB-100-180-150 | | | 18 | 150 | 10 | ☑ |
| 2HCB-100-180-180 | | | 18 | 180 | 10 | ☑ |
| 2HCB-110-200-S12 | 11 | R 5,5 | 20 | 110 | 12 | ☑ |
| 2HCB-120-220-110 | 12 | R 6 | 22 | 110 | 12 | ☑ |
| 2HCB-120-220-130 | | | 22 | 130 | 12 | ☑ |
| 2HCB-120-220-150 | | | 22 | 150 | 12 | ☑ |
| 2HCB-120-220-200 | | | 22 | 200 | 12 | ☑ |
| 2HCB-130-240-S14 | 13 | R 6,5 | 24 | 110 | 14 | ☑ |
| 2HCB-140-240-S14 | 14 | R 7 | 24 | 110 | 14 | ☑ |
| 2HCB-160-300-130 | 16 | R 8 | 30 | 130 | 16 | ☑ |
| 2HCB-160-300-160 | | | 30 | 160 | 16 | ☑ |
| 2HCB-160-300-200 | | | 30 | 200 | 16 | ☑ |
| 2HCB-200-380-160 | 20 | R 10 | 38 | 160 | 20 | ☑ |
| 2HCB-200-380-200 | | | 38 | 200 | 20 | ☑ |

◀ zpět na obsah

# 2PHCB 2-břité KULOVÉ frézy ultrapřesné (±2 µm) pro kalené oceli do HRC 62

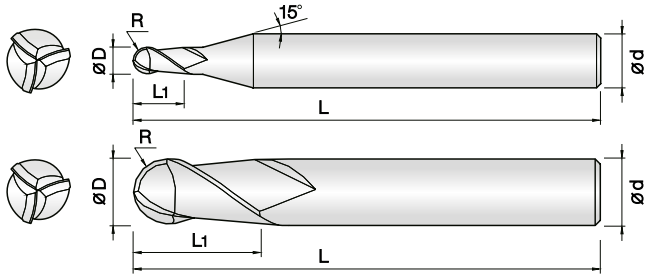



- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vysoká kvalita obrobeného povrchu
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

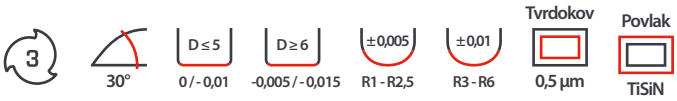



| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2PHCB-002-004-S04 | 0,2 | R 0,1 | 0,4 | 40 | 4 | ☑ |
| 2PHCB-003-006-S04 | 0,3 | R 0,15 | 0,6 | 40 | 4 | ☑ |
| 2PHCB-004-008-S04 | 0,4 | R 0,2 | 0,8 | 40 | 4 | ☑ |
| 2PHCB-005-010-S04 | 0,5 | R 0,25 | 1 | 45 | 4 | ☑ |
| 2PHCB-006-012-S04 | 0,6 | R 0,3 | 1,2 | 45 | 4 | ☑ |
| 2PHCB-007-015-S04 | 0,7 | R 0,35 | 1,5 | 45 | 4 | ☑ |
| 2PHCB-008-020-S04 | 0,8 | R 0,4 | 2 | 45 | 4 | ☑ |
| 2PHCB-009-020-S04 | 0,9 | R 0,45 | 2 | 45 | 4 | ☑ |
| 2PHCB-010-025-S04 | 1 | R 0,5 | 2,5 | 50 | 4 | ☑ |
| 2PHCB-010-025-S06 | | | 2,5 | 50 | 6 | ☑ |
| 2PHCB-012-030-S04 | 1,2 | R 0,6 | 3 | 50 | 4 | ☑ |
| 2PHCB-015-040-S04 | 1,5 | R 0,75 | 4 | 50 | 4 | ☑ |
| 2PHCB-015-040-S06 | | | 4 | 50 | 6 | ☑ |
| 2PHCB-020-050-S04 | 2 | R 1 | 5 | 50 | 4 | ☑ |
| 2PHCB-020-050-S06 | | | 5 | 50 | 6 | ☑ |
| 2PHCB-025-060-S04 | 2,5 | R 1,25 | 6 | 50 | 4 | ☑ |
| 2PHCB-030-080-S04 | 3 | R 1,5 | 8 | 50 | 4 | ☑ |
| 2PHCB-030-080-S06 | | | 8 | 60 | 6 | ☑ |
| 2PHCB-035-080-S06 | 3,5 | R 1,75 | 8 | 60 | 6 | ☑ |
| 2PHCB-040-080-S04 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 2PHCB-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 2PHCB-045-080-S06 | 4,5 | R 2,25 | 8 | 70 | 6 | ☑ |
| 2PHCB-050-100-S06 | 5 | R 2,5 | 10 | 75 | 6 | ☑ |
| 2PHCB-055-100-S06 | 5,5 | R 2,75 | 10 | 75 | 6 | ☑ |
| 2PHCB-060-120-080 | 6 | R 3 | 12 | 80 | 6 | ☑ |
| 2PHCB-070-140-S08 | 7 | R 3,5 | 14 | 80 | 8 | ☑ |
| 2PHCB-080-140-090 | 8 | R 4 | 14 | 90 | 8 | ☑ |
| 2PHCB-100-180-100 | 10 | R 5 | 18 | 100 | 10 | ☑ |
| 2PHCB-120-220-110 | 12 | R 6 | 22 | 110 | 12 | ☑ |

# 3HCB 3-břité KULOVÉ frézy pro kalené oceli do HRC 62



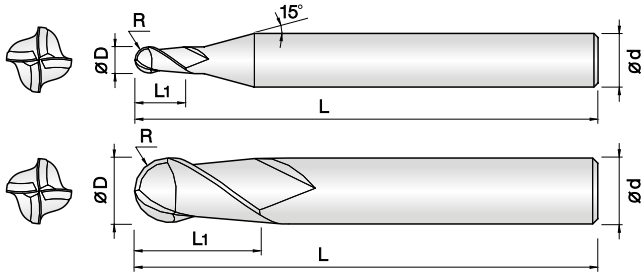

- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vyšší posuvy díky 3 řezným hranám
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



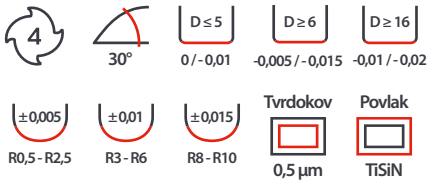

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 3HCB-010-025-S04 | 1 | R 0,5 | 2,5 | 50 | 4 | ☑ |
| 3HCB-015-040-S04 | 1,5 | R 0,75 | 4 | 50 | 4 | ☑ |
| 3HCB-020-050-S06 | 2 | R 1 | 5 | 50 | 6 | ☑ |
| 3HCB-030-080-S06 | 3 | R 1,5 | 8 | 65 | 6 | ☑ |
| 3HCB-040-080-S04 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 3HCB-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 3HCB-050-100-S06 | 5 | R 2,5 | 10 | 75 | 6 | ☑ |
| 3HCB-060-120-S06 | 6 | R 3 | 12 | 80 | 6 | ☑ |
| 3HCB-060-120-120 | 6 | R 3 | 12 | 120 | 6 | ☑ |
| 3HCB-080-140-S08 | 8 | R 4 | 14 | 90 | 8 | ☑ |
| 3HCB-080-140-150 | | | 14 | 150 | 8 | ☑ |
| 3HCB-100-180-S10 | 10 | R 5 | 18 | 100 | 10 | ☑ |
| 3HCB-100-180-150 | | | 18 | 150 | 10 | ☑ |
| 3HCB-120-220-S12 | 12 | R 6 | 22 | 110 | 12 | ☑ |
| 3HCB-120-220-150 | | | 22 | 150 | 12 | ☑ |

# 4HCB 4-břité KULOVÉ frézy pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vyšší posuvy díky 4 řezným hranám
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

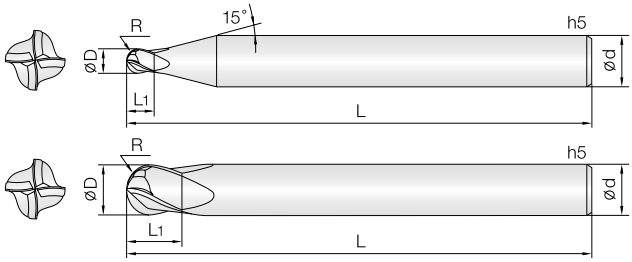



NOVINKA

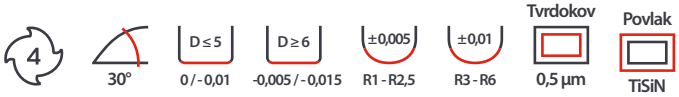
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HCB-010-025-S06 | 1 | R 0,5 | 2,5 | 50 | 6 | ☑ |
| 4HCB-010-025-080 | | | 2,5 | 80 | 6 | ☑ |
| 4HCB-015-040-S06 | 1,5 | R 0,75 | 4 | 50 | 6 | ☑ |
| 4HCB-015-040-080 | | | 4 | 80 | 6 | ☑ |
| 4HCB-020-050-S06 | 2 | R 1 | 5 | 50 | 6 | ☑ |
| 4HCB-020-050-080 | | R 1,25 | 5 | 80 | 6 | ☑ |
| 4HCB-025-070-S06 | 2,5 | | 7 | 50 | 6 | ☑ |
| 4HCB-025-070-080 | | | 7 | 80 | 6 | ☑ |
| 4HCB-030-080-S06 | 3 | R 1,5 | 8 | 60 | 6 | ☑ |
| 4HCB-030-080-090 | | | 8 | 90 | 6 | ☑ |
| 4HCB-040-080-S04 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 4HCB-040-080-090 | | | 8 | 90 | 4 | ☑ |
| 4HCB-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 4HCB-040-080-100 | | | 8 | 100 | 6 | ☑ |
| 4HCB-050-100-S06 | 5 | R 2,5 | 10 | 80 | 6 | ☑ |
| 4HCB-050-100-110 | | | 10 | 110 | 6 | ☑ |
| 4HCB-060-120-S06 | 6 | R 3 | 12 | 90 | 6 | ☑ |
| 4HCB-060-120-110 | | | 12 | 110 | 6 | ☑ |
| 4HCB-080-140-S08 | 8 | R 4 | 14 | 100 | 8 | ☑ |
| 4HCB-080-140-150 | | | 14 | 150 | 8 | ☑ |
| 4HCB-100-180-S10 | 10 | R 5 | 18 | 100 | 10 | ☑ |
| 4HCB-100-180-150 | | | 18 | 150 | 10 | ☑ |
| 4HCB-120-220-S12 | 12 | R 6 | 22 | 110 | 12 | ☑ |
| 4HCB-120-220-150 | | | 22 | 150 | 12 | ☑ |
| 4HCB-140-240-110 | 14 | R 7 | 24 | 110 | 14 | ☑ |
| 4HCB-160-300-S16 | 16 | R 8 | 30 | 130 | 16 | ☑ |
| 4HCB-160-300-160 | | | 30 | 160 | 16 | ☑ |
| 4HCB-200-400-S20 | 20 | R 10 | 40 | 160 | 20 | ☑ |
| 4HCB-200-400-200 | | | 40 | 200 | 20 | ☑ |

◀ zpět na obsah

# 4HSB 4-břité KULOVÉ frézy vysokorychlostní s krátkou délkou



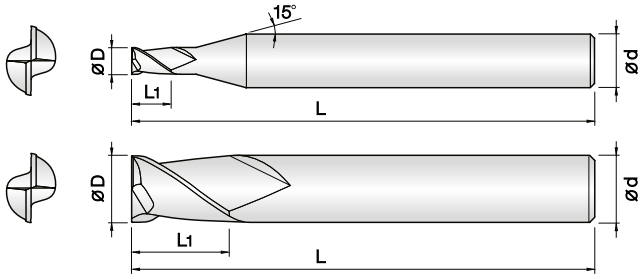

- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Krátká celková délka pro snadné použití v tepelném upínači
- Vysoká produktivita obrábění díky čtyřem břitům
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



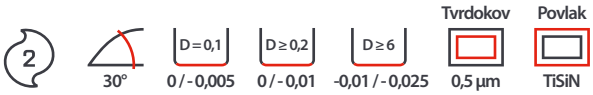

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HSB-010-012-S04 | 1 | R 0,5 | 1,2 | 40 | 4 | ☑ |
| 4HSB-012-015-S04 | 1,2 | R 0,6 | 1,5 | 40 | 4 | ☑ |
| 4HSB-015-018-S04 | 1,5 | R 0,75 | 1,8 | 40 | 4 | ☑ |
| 4HSB-020-024-S04 | 2 | R 1 | 2,4 | 40 | 4 | ☑ |
| 4HSB-025-030-S04 | 2,5 | R 1,25 | 3 | 45 | 4 | ☑ |
| 4HSB-030-036-S06 | 3 | R 1,5 | 3,6 | 45 | 6 | ☑ |
| 4HSB-040-050-S04 | 4 | R 2 | 5 | 45 | 4 | ☑ |
| 4HSB-040-050-S06 | 4 | R 2 | 5 | 45 | 6 | ☑ |
| 4HSB-050-060-S06 | 5 | R 2,5 | 6 | 50 | 6 | ☑ |
| 4HSB-060-070-S06 | 6 | R 3 | 7 | 50 | 6 | ☑ |
| 4HSB-060-070-060 | 6 | R 3 | 7 | 60 | 6 | ☑ |
| 4HSB-080-080-S08 | 8 | R 4 | 8 | 60 | 8 | ☑ |
| 4HSB-100-100-S10 | 10 | R 5 | 10 | 60 | 10 | ☑ |
| 4HSB-120-120-S12 | 12 | R 6 | 12 | 75 | 12 | ☑ |

# 2HSE 2-břité OSTRÉ frézy krátké pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vysoká tuhost
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

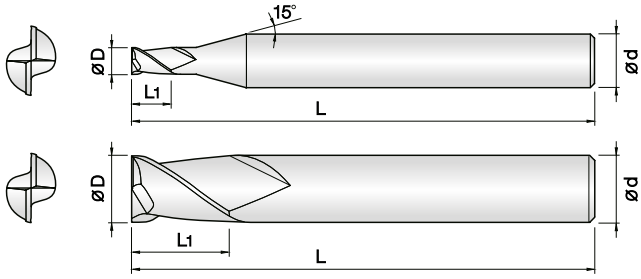



NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HSE-001-001-S04 | 0,1 | 0,1 | 40 | 4 | ☑ |
| 2HSE-0015-0015-S04 | 0,15 | 0,15 | 40 | 4 | ☑ |
| 2HSE-002-002-S04 | 0,2 | 0,2 | 40 | 4 | ☑ |
| 2HSE-0025-0025-S04 | 0,25 | 0,25 | 40 | 4 | ☑ |
| 2HSE-003-003-S04 | 0,3 | 0,3 | 40 | 4 | ☑ |
| 2HSE-004-004-S04 | 0,4 | 0,4 | 40 | 4 | ☑ |
| 2HSE-005-005-S04 | 0,5 | 0,5 | 40 | 4 | ☑ |
| 2HSE-006-006-S04 | 0,6 | 0,6 | 40 | 4 | ☑ |
| 2HSE-007-007-S04 | 0,7 | 0,7 | 40 | 4 | ☑ |
| 2HSE-008-008-S04 | 0,8 | 0,8 | 40 | 4 | ☑ |
| 2HSE-009-009-S04 | 0,9 | 0,9 | 40 | 4 | ☑ |
| 2HSE-010-010-S04 | 1 | 1 | 40 | 4 | ☑ |
| 2HSE-012-012-S04 | 1,2 | 1,2 | 40 | 4 | ☑ |
| 2HSE-015-015-S04 | 1,5 | 1,5 | 40 | 4 | ☑ |
| 2HSE-020-020-S04 | 2 | 2 | 40 | 4 | ☑ |
| 2HSE-030-030-S04 | 3 | 3 | 40 | 4 | ☑ |
| 2HSE-040-040-S04 | 4 | 4 | 40 | 4 | ☑ |
| 2HSE-050-050-S06 | 5 | 5 | 45 | 6 | ☑ |
| 2HSE-060-060-S06 | 6 | 6 | 45 | 6 | ☑ |
| 2HSE-080-080-S08 | 8 | 8 | 50 | 8 | ☑ |
| 2HSE-100-100-S10 | 10 | 10 | 60 | 10 | ☑ |
| 2HSE-120-120-S12 | 12 | 12 | 65 | 12 | ☑ |

◀ zpět na obsah

# 2HCE 2-břité OSTRÉ frézy pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| 2 | 30° | D<0,15 | D≥0,2 | D≥6 | D≥13 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|---|
| | | 0 / -0,005 | 0 / -0,01 | -0,01 / -0,025 | -0,015 / -0,03 | 0,5 µm | TiSiN |

NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCE-0005-0008-S04 | 0,05 | 0,08 | 40 | 4 | ☑ |
| 2HCE-0006-001-S04 | 0,06 | 0,1 | 40 | 4 | ☑ |
| 2HCE-0007-0012-S04 | 0,07 | 0,12 | 40 | 4 | ☑ |
| 2HCE-0008-0015-S04 | 0,08 | 0,15 | 40 | 4 | ☑ |
| 2HCE-0009-0017-S04 | 0,09 | 0,17 | 40 | 4 | ☑ |
| 2HCE-001-002-S04 | 0,1 | 0,2 | 40 | 4 | ☑ |
| 2HCE-0015-003-S04 | 0,15 | 0,3 | 40 | 4 | ☑ |
| 2HCE-002-004-S04 | 0,2 | 0,4 | 40 | 4 | ☑ |
| 2HCE-0025-005-S04 | 0,25 | 0,5 | 40 | 4 | ☑ |
| 2HCE-003-006-S04 | 0,3 | 0,6 | 40 | 4 | ☑ |
| 2HCE-0035-007-S04 | 0,35 | 0,7 | 40 | 4 | ☑ |
| 2HCE-004-008-S04 | 0,4 | 0,8 | 40 | 4 | ☑ |
| 2HCE-0045-009-S04 | 0,45 | 0,9 | 40 | 4 | ☑ |
| 2HCE-005-010-S03 | 0,5 | 1 | 40 | 3 | ☑ |
| 2HCE-005-010-S04 | | 1 | 40 | 4 | ☑ |
| 2HCE-0055-011-S04 | 0,55 | 1,1 | 40 | 4 | ☑ |
| 2HCE-006-012-S03 | 0,6 | 1,2 | 40 | 3 | ☑ |
| 2HCE-006-012-S04 | | 1,2 | 40 | 4 | ☑ |
| 2HCE-0065-013-S04 | 0,65 | 1,3 | 40 | 4 | ☑ |
| 2HCE-007-014-S04 | 0,7 | 1,4 | 40 | 4 | ☑ |
| 2HCE-0075-015-S04 | 0,75 | 1,5 | 40 | 4 | ☑ |
| 2HCE-008-016-S03 | 0,8 | 1,6 | 40 | 3 | ☑ |
| 2HCE-008-016-S04 | 0,8 | 1,6 | 40 | 4 | ☑ |
| 2HCE-0085-017-S04 | 0,85 | 1,7 | 40 | 4 | ☑ |
| 2HCE-009-020-S04 | 0,9 | 2 | 40 | 4 | ☑ |
| 2HCE-0095-020-S04 | 0,95 | 2 | 40 | 4 | ☑ |
| 2HCE-010-025-S03 | 1 | 2,5 | 40 | 3 | ☑ |
| 2HCE-010-025-S04 | | 2,5 | 40 | 4 | ☑ |
| 2HCE-010-025-S06 | | 2,5 | 40 | 6 | ☑ |
| 2HCE-010-025-060 | | 2,5 | 60 | 6 | ☑ |
| 2HCE-0105-025-S04 | 1,05 | 2,5 | 40 | 4 | ☑ |
| 2HCE-011-027-S04 | 1,1 | 2,7 | 40 | 4 | ☑ |
| 2HCE-0115-025-S04 | 1,15 | 2,5 | 40 | 4 | ☑ |
| 2HCE-012-030-S03 | 1,2 | 3 | 40 | 3 | ☑ |
| 2HCE-012-030-S04 | | 3 | 40 | 4 | ☑ |
| 2HCE-012-030-060 | | 3 | 60 | 6 | ☑ |
| 2HCE-0125-030-S04 | 1,25 | 3 | 40 | 4 | ☑ |
| 2HCE-013-032-S04 | 1,3 | 3,2 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCE-0135-032-S04 | 1,35 | 3,2 | 40 | 4 | ☑ |
| 2HCE-014-035-S04 | 1,4 | 3,5 | 40 | 4 | ☑ |
| 2HCE-0145-035-S04 | 1,45 | 3,5 | 40 | 4 | ☑ |
| 2HCE-015-040-S03 | 1,5 | 4 | 40 | 3 | ☑ |
| 2HCE-015-040-S04 | | 4 | 40 | 4 | ☑ |
| 2HCE-015-040-S06 | | 4 | 40 | 6 | ☑ |
| 2HCE-015-040-060 | | 4 | 60 | 6 | ☑ |
| 2HCE-0155-040-S04 | 1,55 | 4 | 40 | 4 | ☑ |
| 2HCE-016-040-S04 | 1,6 | 4 | 40 | 4 | ☑ |
| 2HCE-0165-040-S04 | 1,65 | 4 | 40 | 4 | ☑ |
| 2HCE-017-042-S04 | 1,7 | 4,2 | 40 | 4 | ☑ |
| 2HCE-0175-042-S04 | 1,75 | 4,2 | 40 | 4 | ☑ |
| 2HCE-018-045-S04 | 1,8 | 4,5 | 40 | 4 | ☑ |
| 2HCE-0185-045-S04 | 1,85 | 4,5 | 40 | 4 | ☑ |
| 2HCE-019-050-S04 | 1,9 | 5 | 40 | 4 | ☑ |
| 2HCE-0195-050-S04 | 1,95 | 5 | 40 | 4 | ☑ |
| 2HCE-020-060-S03 | 2 | 6 | 40 | 3 | ☑ |
| 2HCE-020-060-S04 | | 6 | 40 | 4 | ☑ |
| 2HCE-020-060-S06 | | 6 | 40 | 6 | ☑ |
| 2HCE-020-060-060 | | 6 | 60 | 6 | ☑ |
| 2HCE-021-060-S04 | 2,1 | 6 | 40 | 4 | ☑ |
| 2HCE-022-060-S04 | 2,2 | 6 | 40 | 4 | ☑ |
| 2HCE-023-060-S04 | 2,3 | 6 | 40 | 4 | ☑ |
| 2HCE-024-080-S04 | 2,4 | 8 | 45 | 4 | ☑ |
| 2HCE-025-080-S03 | 2,5 | 8 | 45 | 3 | ☑ |
| 2HCE-025-080-S04 | 2,5 | 8 | 45 | 4 | ☑ |
| 2HCE-025-080-S06 | 2,5 | 8 | 45 | 6 | ☑ |
| 2HCE-025-080-070 | 2,5 | 8 | 70 | 6 | ☑ |
| 2HCE-026-080-S04 | 2,6 | 8 | 45 | 4 | ☑ |
| 2HCE-027-080-S04 | 2,7 | 8 | 45 | 4 | ☑ |
| 2HCE-028-080-S04 | 2,8 | 8 | 45 | 4 | ☑ |
| 2HCE-029-080-S04 | 2,9 | 8 | 45 | 4 | ☑ |
| 2HCE-030-080-S03 | 3 | 8 | 45 | 3 | ☑ |
| 2HCE-030-080-S04 | | 8 | 45 | 4 | ☑ |
| 2HCE-030-080-S06 | | 8 | 45 | 6 | ☑ |
| 2HCE-030-080-070 | | 8 | 70 | 6 | ☑ |
| 2HCE-031-080-S06 | 3,1 | 8 | 45 | 6 | ☑ |
| 2HCE-032-080-S06 | 3,2 | 8 | 45 | 6 | ☑ |

◀ zpět na obsah

# 2HCE 2-břité OSTRÉ frézy pro kalené oceli do HRC 60

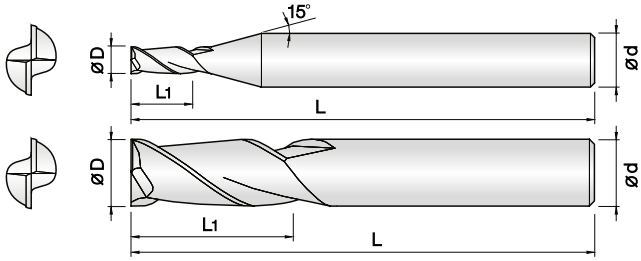
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCE-033-080-S06 | 3,3 | 8 | 45 | 6 | ☑ |
| 2HCE-034-080-S06 | 3,4 | 8 | 45 | 6 | ☑ |
| 2HCE-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 2HCE-036-100-S06 | 3,6 | 10 | 45 | 6 | ☑ |
| 2HCE-037-100-S06 | 3,7 | 10 | 45 | 6 | ☑ |
| 2HCE-038-100-S06 | 3,8 | 10 | 45 | 6 | ☑ |
| 2HCE-039-100-S06 | 3,9 | 10 | 45 | 6 | ☑ |
| 2HCE-040-100-S04 | 4 | 10 | 45 | 4 | ☑ |
| 2HCE-040-110-S06 | | 11 | 45 | 6 | ☑ |
| 2HCE-040-110-070 | | 11 | 70 | 6 | ☑ |
| 2HCE-041-110-S06 | 4,1 | 11 | 45 | 6 | ☑ |
| 2HCE-042-110-S06 | 4,2 | 11 | 45 | 6 | ☑ |
| 2HCE-043-110-S06 | 4,3 | 11 | 45 | 6 | ☑ |
| 2HCE-044-110-S06 | 4,4 | 11 | 45 | 6 | ☑ |
| 2HCE-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |
| 2HCE-046-110-S06 | 4,6 | 11 | 45 | 6 | ☑ |
| 2HCE-047-110-S06 | 4,7 | 11 | 45 | 6 | ☑ |
| 2HCE-048-110-S06 | 4,8 | 11 | 45 | 6 | ☑ |
| 2HCE-049-110-S06 | 4,9 | 11 | 45 | 6 | ☑ |
| 2HCE-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 2HCE-050-130-080 | | 13 | 80 | 6 | ☑ |
| 2HCE-051-130-S06 | 5,1 | 13 | 50 | 6 | ☑ |
| 2HCE-052-130-S06 | 5,2 | 13 | 50 | 6 | ☑ |
| 2HCE-053-130-S06 | 5,3 | 13 | 50 | 6 | ☑ |
| 2HCE-054-130-S06 | 5,4 | 13 | 50 | 6 | ☑ |
| 2HCE-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 2HCE-056-130-S06 | 5,6 | 13 | 50 | 6 | ☑ |
| 2HCE-057-130-S06 | 5,7 | 13 | 50 | 6 | ☑ |
| 2HCE-058-130-S06 | 5,8 | 13 | 50 | 6 | ☑ |
| 2HCE-059-130-S06 | 5,9 | 13 | 50 | 6 | ☑ |
| 2HCE-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 2HCE-060-130-080 | | 13 | 80 | 6 | ☑ |
| 2HCE-061-150-S08 | 6,1 | 15 | 70 | 8 | ☑ |
| 2HCE-062-150-S08 | 6,2 | 15 | 70 | 8 | ☑ |
| 2HCE-063-150-S08 | 6,3 | 15 | 70 | 8 | ☑ |
| 2HCE-064-150-S08 | 6,4 | 15 | 70 | 8 | ☑ |
| 2HCE-065-160-S08 | 6,5 | 16 | 60 | 8 | ☑ |
| 2HCE-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 2HCE-075-160-S08 | 7,5 | 16 | 60 | 8 | ☑ |
| 2HCE-080-190-S08 | 8 | 19 | 60 | 8 | ☑ |
| 2HCE-085-190-S10 | 8,5 | 19 | 70 | 10 | ☑ |
| 2HCE-090-190-S10 | 9 | 19 | 70 | 10 | ☑ |
| 2HCE-095-190-S10 | 9,5 | 19 | 70 | 10 | ☑ |
| 2HCE-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 2HCE-105-220-S12 | 10,5 | 22 | 75 | 12 | ☑ |
| 2HCE-110-220-S12 | 11 | 22 | 75 | 12 | ☑ |
| 2HCE-115-220-S12 | 11,5 | 22 | 75 | 12 | ☑ |
| 2HCE-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 2HCE-130-260-S14 | 13 | 26 | 80 | 14 | ☑ |
| 2HCE-140-260-S14 | 14 | 26 | 80 | 14 | ☑ |
| 2HCE-140-260-S16 | | 26 | 90 | 16 | ☑ |
| 2HCE-150-350-S16 | 15 | 35 | 100 | 16 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCE-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 2HCE-170-350-S18 | 17 | 35 | 100 | 18 | ☑ |
| 2HCE-180-350-S18 | 18 | 35 | 100 | 18 | ☑ |
| 2HCE-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |

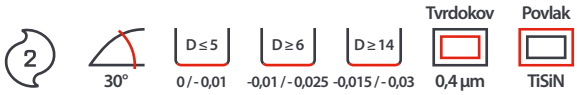
◀ zpět na obsah

# 2LEM

## 2-břité OSTRÉ frézy dlouhé pro oceli a kalené oceli do HRC 58




- Určeno pro oceli a kalené oceli do HRC 58
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Široký sortiment délek pro optimální volbu nástroje
- Minimalizace vyštipování díky zesílení řezné hrany a tvrdokovu se zvýšenou houževnatostí




NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2LEM-010-030-S06 | 1 | 3 | 60 | 6 | ☑ |
| 2LEM-010-050-S06 | | 5 | 60 | 6 | ☑ |
| 2LEM-010-070-S06 | | 7 | 60 | 6 | ☑ |
| 2LEM-010-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEM-010-120-S06 | | 12 | 60 | 6 | ☑ |
| 2LEM-010-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEM-012-060-S06 | 1,2 | 6 | 60 | 6 | ☑ |
| 2LEM-012-080-S06 | | 8 | 60 | 6 | ☑ |
| 2LEM-012-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEM-012-120-S06 | | 12 | 60 | 6 | ☑ |
| 2LEM-015-060-S06 | 1,5 | 6 | 60 | 6 | ☑ |
| 2LEM-015-075-S06 | | 7,5 | 60 | 6 | ☑ |
| 2LEM-015-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEM-015-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEM-015-200-S06 | | 20 | 60 | 6 | ☑ |
| 2LEM-020-060-S06 | 2 | 6 | 60 | 6 | ☑ |
| 2LEM-020-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEM-020-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEM-020-200-S06 | | 20 | 60 | 6 | ☑ |
| 2LEM-025-100-S06 | 2,5 | 10 | 60 | 6 | ☑ |
| 2LEM-025-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEM-025-200-S06 | | 20 | 60 | 6 | ☑ |
| 2LEM-030-120-S06 | 3 | 12 | 70 | 6 | ☑ |
| 2LEM-030-150-S06 | | 15 | 70 | 6 | ☑ |
| 2LEM-030-200-S06 | | 20 | 70 | 6 | ☑ |
| 2LEM-030-250-S06 | | 25 | 70 | 6 | ☑ |
| 2LEM-030-300-S06 | | 30 | 70 | 6 | ☑ |
| 2LEM-035-120-S06 | 3,5 | 12 | 70 | 6 | ☑ |
| 2LEM-035-150-S06 | | 15 | 70 | 6 | ☑ |
| 2LEM-035-200-S06 | | 20 | 70 | 6 | ☑ |
| 2LEM-040-150-S06 | 4 | 15 | 70 | 6 | ☑ |
| 2LEM-040-200-S06 | | 20 | 70 | 6 | ☑ |
| 2LEM-040-300-S06 | | 30 | 75 | 6 | ☑ |
| 2LEM-040-350-S06 | | 35 | 75 | 6 | ☑ |
| 2LEM-040-400-S06 | | 40 | 80 | 6 | ☑ |
| 2LEM-045-120-S06 | 4,5 | 12 | 70 | 6 | ☑ |
| 2LEM-045-150-S06 | | 15 | 70 | 6 | ☑ |
| 2LEM-045-200-S06 | | 20 | 70 | 6 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2LEM-050-200-S06 | 5 | 20 | 80 | 6 | ☑ |
| 2LEM-050-250-S06 | | 25 | 70 | 6 | ☑ |
| 2LEM-050-300-S06 | | 30 | 75 | 6 | ☑ |
| 2LEM-050-400-S06 | | 40 | 80 | 6 | ☑ |
| 2LEM-060-200-S06 | 6 | 20 | 75 | 6 | ☑ |
| 2LEM-060-200-100 | | 20 | 100 | 6 | ☑ |
| 2LEM-060-250-S06 | | 25 | 75 | 6 | ☑ |
| 2LEM-060-300-S06 | | 30 | 80 | 6 | ☑ |
| 2LEM-060-350-S06 | | 35 | 80 | 6 | ☑ |
| 2LEM-060-400-S06 | | 40 | 90 | 6 | ☑ |
| 2LEM-060-450-S06 | | 45 | 90 | 6 | ☑ |
| 2LEM-060-500-S06 | | 50 | 100 | 6 | ☑ |
| 2LEM-080-250-S08 | 8 | 25 | 75 | 8 | ☑ |
| 2LEM-080-250-100 | 8 | 25 | 100 | 8 | ☑ |
| 2LEM-080-300-S08 | | 30 | 80 | 8 | ☑ |
| 2LEM-080-350-S08 | | 35 | 80 | 8 | ☑ |
| 2LEM-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 2LEM-080-450-S08 | | 45 | 100 | 8 | ☑ |
| 2LEM-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 2LEM-080-550-S08 | | 55 | 100 | 8 | ☑ |
| 2LEM-080-600-S08 | | 60 | 110 | 8 | ☑ |
| 2LEM-100-300-S10 | 10 | 30 | 80 | 10 | ☑ |
| 2LEM-100-300-110 | | 30 | 110 | 10 | ☑ |
| 2LEM-100-350-S10 | | 35 | 90 | 10 | ☑ |
| 2LEM-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 2LEM-100-450-S10 | | 45 | 100 | 10 | ☑ |
| 2LEM-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 2LEM-100-550-S10 | | 55 | 110 | 10 | ☑ |
| 2LEM-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 2LEM-100-650-S10 | | 65 | 120 | 10 | ☑ |
| 2LEM-100-700-S10 | | 70 | 120 | 10 | ☑ |
| 2LEM-120-300-S12 | 12 | 30 | 90 | 12 | ☑ |
| 2LEM-120-350-110 | | 35 | 110 | 12 | ☑ |
| 2LEM-120-400-S12 | | 40 | 100 | 12 | ☑ |
| 2LEM-120-450-S12 | | 45 | 100 | 12 | ☑ |
| 2LEM-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 2LEM-120-550-S12 | | 55 | 110 | 12 | ☑ |
| 2LEM-120-600-S12 | | 60 | 110 | 12 | ☑ |

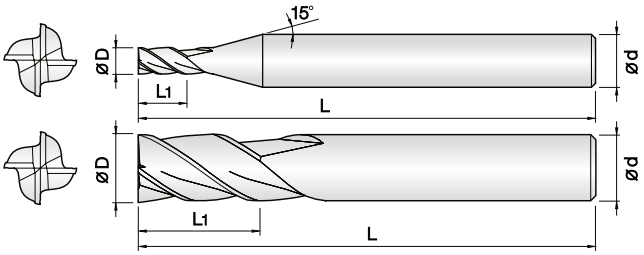
# 2LEM

## 2-břité OSTRÉ frézy dlouhé pro oceli a kalené oceli do HRC 58

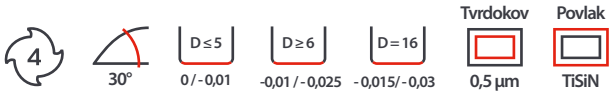
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2LEM-120-700-S12 | 12 | 70 | 130 | 12 | ☑ |
| 2LEM-120-800-S12 | | 80 | 130 | 12 | ☑ |
| 2LEM-140-500-S14 | 14 | 50 | 110 | 14 | ☑ |
| 2LEM-160-400-160 | 16 | 40 | 160 | 16 | ☑ |
| 2LEM-160-550-S16 | | 55 | 120 | 16 | ☑ |
| 2LEM-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 2LEM-160-800-S16 | | 80 | 160 | 16 | ☑ |
| 2LEM-160-1000-S16 | | 100 | 160 | 16 | ☑ |
| 2LEM-200-500-160 | 20 | 50 | 160 | 20 | ☑ |
| 2LEM-200-600-S20 | | 60 | 130 | 20 | ☑ |
| 2LEM-200-1000-S20 | | 100 | 200 | 20 | ☑ |
| 2LEM-250-750-S25 | 25 | 75 | 160 | 25 | ☑ |

◀ zpět na obsah

# 4HSE 4-břité OSTRÉ frézy krátké pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vysoká tuhost
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

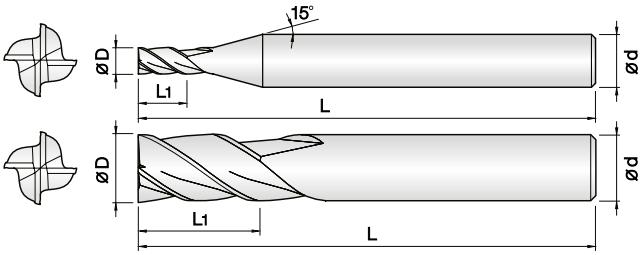



NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HSE-005-0075-S04 | 0,5 | 0,75 | 38 | 4 | ☑ |
| 4HSE-006-009-S04 | 0,6 | 0,9 | 38 | 4 | ☑ |
| 4HSE-008-012-S04 | 0,8 | 1,2 | 38 | 4 | ☑ |
| 4HSE-010-015-S04 | 1 | 1,5 | 40 | 4 | ☑ |
| 4HSE-012-020-S04 | 1,2 | 2 | 40 | 4 | ☑ |
| 4HSE-015-022-S04 | 1,5 | 2,2 | 40 | 4 | ☑ |
| 4HSE-020-035-S04 | 2 | 3,5 | 40 | 4 | ☑ |
| 4HSE-020-035-S06 | 2 | 3,5 | 40 | 6 | ☑ |
| 4HSE-025-038-S04 | 2,5 | 3,8 | 40 | 4 | ☑ |
| 4HSE-030-045-S04 | 3 | 4,5 | 40 | 4 | ☑ |
| 4HSE-030-045-S06 | 3 | 4,5 | 40 | 6 | ☑ |
| 4HSE-035-052-S06 | 3,5 | 5,2 | 40 | 6 | ☑ |
| 4HSE-040-060-S04 | 4 | 6 | 40 | 4 | ☑ |
| 4HSE-040-060-S06 | 4 | 6 | 40 | 6 | ☑ |
| 4HSE-045-068-S06 | 4,5 | 6,8 | 40 | 6 | ☑ |
| 4HSE-050-075-S06 | 5 | 7,5 | 45 | 6 | ☑ |
| 4HSE-060-090-S06 | 6 | 9 | 45 | 6 | ☑ |
| 4HSE-080-120-S08 | 8 | 12 | 55 | 8 | ☑ |
| 4HSE-100-150-S10 | 10 | 15 | 60 | 10 | ☑ |
| 4HSE-120-180-S12 | 12 | 18 | 65 | 12 | ☑ |
| 4HSE-160-240-S16 | 16 | 24 | 75 | 16 | ☑ |

◀ zpět na obsah

# 4HCE 4-břité OSTRÉ frézy pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| 4 | 30° | D≤5 | D≥6 | D≥13 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|
| | | 0 / -0,01 | -0,01 / -0,025 | -0,015 / -0,03 | 0,5 µm | TiSiN |

NOVINKA

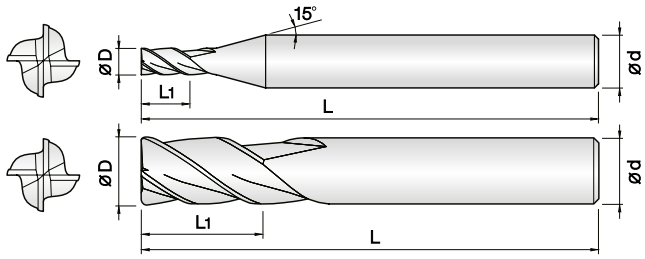
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HCE-003-006-S04 | 0,3 | 0,6 | 40 | 4 | ☑ |
| 4HCE-004-008-S04 | 0,4 | 0,8 | 40 | 4 | ☑ |
| 4HCE-005-010-S04 | 0,5 | 1 | 38 | 4 | ☑ |
| 4HCE-006-012-S04 | 0,6 | 1,2 | 38 | 4 | ☑ |
| 4HCE-007-014-S04 | 0,7 | 1,4 | 38 | 4 | ☑ |
| 4HCE-008-020-S04 | 0,8 | 2 | 38 | 4 | ☑ |
| 4HCE-009-018-S04 | 0,9 | 1,8 | 38 | 4 | ☑ |
| 4HCE-010-025-S03 | 1 | 2,5 | 40 | 3 | ☑ |
| 4HCE-010-025-S04 | | 2,5 | 40 | 4 | ☑ |
| 4HCE-010-025-S06 | | 2,5 | 40 | 6 | ☑ |
| 4HCE-010-025-060 | | 2,5 | 60 | 6 | ☑ |
| 4HCE-010-025-080 | | 2,5 | 80 | 6 | ☑ |
| 4HCE-012-030-S03 | 1,2 | 3 | 40 | 3 | ☑ |
| 4HCE-012-030-S04 | | 3 | 40 | 4 | ☑ |
| 4HCE-012-030-S06 | | 3 | 40 | 6 | ☑ |
| 4HCE-012-030-060 | | 3 | 60 | 6 | ☑ |
| 4HCE-015-040-S03 | 1,5 | 4 | 40 | 3 | ☑ |
| 4HCE-015-040-S04 | | 4 | 40 | 4 | ☑ |
| 4HCE-015-040-S06 | | 4 | 40 | 6 | ☑ |
| 4HCE-015-040-060 | | 4 | 60 | 6 | ☑ |
| 4HCE-015-040-080 | | 4 | 80 | 6 | ☑ |
| 4HCE-020-060-S03 | 2 | 6 | 40 | 3 | ☑ |
| 4HCE-020-060-S04 | | 6 | 40 | 4 | ☑ |
| 4HCE-020-060-S06 | | 6 | 40 | 6 | ☑ |
| 4HCE-020-060-060 | | 6 | 60 | 6 | ☑ |
| 4HCE-020-060-100 | | 6 | 100 | 6 | ☑ |
| 4HCE-025-080-S03 | 2,5 | 8 | 45 | 3 | ☑ |
| 4HCE-025-080-S04 | | 8 | 45 | 4 | ☑ |
| 4HCE-025-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HCE-025-080-070 | | 8 | 70 | 6 | ☑ |
| 4HCE-025-080-100 | | 8 | 100 | 6 | ☑ |
| 4HCE-030-080-S03 | 3 | 8 | 45 | 3 | ☑ |
| 4HCE-030-080-S04 | | 8 | 45 | 4 | ☑ |
| 4HCE-030-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HCE-030-080-070 | | 8 | 70 | 6 | ☑ |
| 4HCE-030-080-100 | | 8 | 100 | 6 | ☑ |
| 4HCE-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 4HCE-040-110-S04 | 4 | 11 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HCE-040-110-S06 | 4 | 11 | 45 | 6 | ☑ |
| 4HCE-040-110-070 | | 11 | 70 | 6 | ☑ |
| 4HCE-040-110-100 | | 11 | 100 | 6 | ☑ |
| 4HCE-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |
| 4HCE-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 4HCE-050-130-080 | | 13 | 80 | 6 | ☑ |
| 4HCE-050-130-100 | | 13 | 100 | 6 | ☑ |
| 4HCE-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 4HCE-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 4HCE-060-130-080 | | 13 | 80 | 6 | ☑ |
| 4HCE-060-130-100 | | 13 | 100 | 6 | ☑ |
| 4HCE-065-160-S08 | 6,5 | 16 | 60 | 8 | ☑ |
| 4HCE-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 4HCE-075-160-S08 | 7,5 | 16 | 60 | 8 | ☑ |
| 4HCE-080-190-S08 | 8 | 19 | 60 | 8 | ☑ |
| 4HCE-085-190-S10 | 8,5 | 19 | 70 | 10 | ☑ |
| 4HCE-090-190-S10 | 9 | 19 | 70 | 10 | ☑ |
| 4HCE-095-190-S10 | 9,5 | 19 | 70 | 10 | ☑ |
| 4HCE-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 4HCE-105-220-S12 | 10,5 | 22 | 75 | 12 | ☑ |
| 4HCE-110-220-S12 | 11 | 22 | 75 | 12 | ☑ |
| 4HCE-115-220-S12 | 11,5 | 22 | 75 | 12 | ☑ |
| 4HCE-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 4HCE-130-260-S14 | 13 | 26 | 80 | 14 | ☑ |
| 4HCE-140-260-S14 | 14 | 26 | 80 | 14 | ☑ |
| 4HCE-140-260-S16 | | 26 | 90 | 16 | ☑ |
| 4HCE-150-350-S16 | 15 | 35 | 100 | 16 | ☑ |
| 4HCE-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 4HCE-170-350-S18 | 17 | 35 | 100 | 18 | ☑ |
| 4HCE-180-350-S18 | 18 | 35 | 100 | 18 | ☑ |
| 4HCE-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |

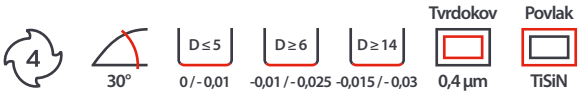
◀ zpět na obsah

# 4LEM

## 4-břité OSTRÉ frézy dlouhé pro oceli a kalené oceli do HRC 58




- Určeno pro oceli a kalené oceli do HRC 58
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Široký sortiment délek pro optimální volbu nástroje
- Minimalizace vyštipování díky zesílení řezné hrany a tvrdokovu se zvýšenou houževnatostí




NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4LEM-005-015-S04 | 0,5 | 1,5 | 40 | 4 | ☑ |
| 4LEM-005-020-S04 | | 2 | 40 | 4 | ☑ |
| 4LEM-006-018-S04 | 0,6 | 1,8 | 40 | 4 | ☑ |
| 4LEM-006-024-S04 | | 2,4 | 40 | 4 | ☑ |
| 4LEM-008-024-S04 | 0,8 | 2,4 | 40 | 4 | ☑ |
| 4LEM-008-032-S04 | | 3,2 | 40 | 4 | ☑ |
| 4LEM-010-030-S06 | 1 | 3 | 60 | 6 | ☑ |
| 4LEM-010-050-S06 | | 5 | 60 | 6 | ☑ |
| 4LEM-010-070-S06 | | 7 | 60 | 6 | ☑ |
| 4LEM-010-100-S06 | | 10 | 60 | 6 | ☑ |
| 4LEM-010-120-S06 | | 12 | 60 | 6 | ☑ |
| 4LEM-012-040-S06 | 1,2 | 4 | 60 | 6 | ☑ |
| 4LEM-012-060-S06 | | 6 | 60 | 6 | ☑ |
| 4LEM-012-080-S06 | | 8 | 60 | 6 | ☑ |
| 4LEM-012-100-S06 | | 10 | 60 | 6 | ☑ |
| 4LEM-015-060-S06 | 1,5 | 6 | 60 | 6 | ☑ |
| 4LEM-015-080-S06 | | 8 | 60 | 6 | ☑ |
| 4LEM-015-100-S06 | | 10 | 60 | 6 | ☑ |
| 4LEM-015-120-S06 | | 12 | 60 | 6 | ☑ |
| 4LEM-015-150-S06 | | 15 | 60 | 6 | ☑ |
| 4LEM-020-080-S06 | 2 | 8 | 60 | 6 | ☑ |
| 4LEM-020-100-S06 | | 10 | 60 | 6 | ☑ |
| 4LEM-020-120-S06 | | 12 | 60 | 6 | ☑ |
| 4LEM-020-150-S06 | | 15 | 60 | 6 | ☑ |
| 4LEM-020-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEM-030-100-S06 | 3 | 10 | 70 | 6 | ☑ |
| 4LEM-030-150-S06 | | 15 | 70 | 6 | ☑ |
| 4LEM-030-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEM-030-250-S06 | | 25 | 70 | 6 | ☑ |
| 4LEM-030-300-S06 | | 30 | 70 | 6 | ☑ |
| 4LEM-030-350-S06 | | 35 | 75 | 6 | ☑ |
| 4LEM-030-400-S06 | | 40 | 80 | 6 | ☑ |
| 4LEM-035-120-S06 | 3,5 | 12 | 70 | 6 | ☑ |
| 4LEM-035-150-S06 | | 15 | 70 | 6 | ☑ |
| 4LEM-035-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEM-040-120-S06 | 4 | 12 | 70 | 6 | ☑ |
| 4LEM-040-150-S04 | | 15 | 70 | 4 | ☑ |
| 4LEM-040-150-S06 | | 15 | 70 | 6 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4LEM-040-200-S04 | 4 | 20 | 70 | 4 | ☑ |
| 4LEM-040-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEM-040-250-S06 | | 25 | 70 | 6 | ☑ |
| 4LEM-040-300-S06 | | 30 | 75 | 6 | ☑ |
| 4LEM-040-350-S06 | | 35 | 75 | 6 | ☑ |
| 4LEM-040-400-S06 | | 40 | 80 | 6 | ☑ |
| 4LEM-040-450-S06 | | 45 | 90 | 6 | ☑ |
| 4LEM-040-500-S06 | | 50 | 100 | 6 | ☑ |
| 4LEM-045-150-S06 | 4,5 | 15 | 70 | 6 | ☑ |
| 4LEM-045-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEM-050-200-S06 | 5 | 20 | 70 | 6 | ☑ |
| 4LEM-050-250-S06 | | 25 | 75 | 6 | ☑ |
| 4LEM-050-300-S06 | | 30 | 80 | 6 | ☑ |
| 4LEM-050-400-S06 | | 40 | 80 | 6 | ☑ |
| 4LEM-050-500-S06 | | 50 | 100 | 6 | ☑ |
| 4LEM-060-200-S06 | 6 | 20 | 75 | 6 | ☑ |
| 4LEM-060-200-100 | | 20 | 100 | 6 | ☑ |
| 4LEM-060-250-S06 | | 25 | 75 | 6 | ☑ |
| 4LEM-060-300-S06 | | 30 | 80 | 6 | ☑ |
| 4LEM-060-350-S06 | | 35 | 80 | 6 | ☑ |
| 4LEM-060-400-S06 | | 40 | 90 | 6 | ☑ |
| 4LEM-060-450-S06 | | 45 | 90 | 6 | ☑ |
| 4LEM-060-500-S06 | | 50 | 100 | 6 | ☑ |
| 4LEM-080-250-S08 | 8 | 25 | 75 | 8 | ☑ |
| 4LEM-080-250-100 | | 25 | 100 | 8 | ☑ |
| 4LEM-080-300-S08 | | 30 | 80 | 8 | ☑ |
| 4LEM-080-350-S08 | | 35 | 90 | 8 | ☑ |
| 4LEM-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 4LEM-080-450-S08 | | 45 | 100 | 8 | ☑ |
| 4LEM-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 4LEM-080-550-S08 | | 55 | 100 | 8 | ☑ |
| 4LEM-080-600-S08 | | 60 | 110 | 8 | ☑ |
| 4LEM-100-300-S10 | 10 | 30 | 80 | 10 | ☑ |
| 4LEM-100-300-110 | | 30 | 110 | 10 | ☑ |
| 4LEM-100-350-S10 | | 35 | 90 | 10 | ☑ |
| 4LEM-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 4LEM-100-450-S10 | | 45 | 100 | 10 | ☑ |
| 4LEM-100-500-S10 | | 50 | 100 | 10 | ☑ |

◀ zpět na obsah

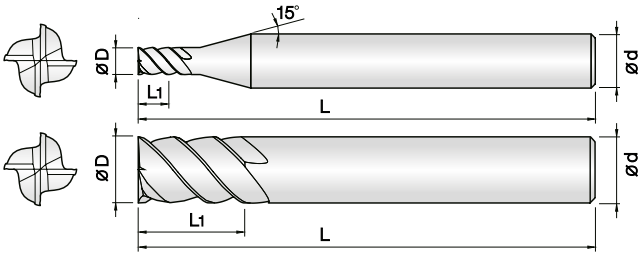
# 4LEM 4-břité OSTRÉ frézy dlouhé pro oceli a kalené oceli do HRC 58

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4LEM-100-550-S10 | 10 | 55 | 100 | 10 | ☑ |
| 4LEM-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 4LEM-100-650-S10 | | 65 | 120 | 10 | ☑ |
| 4LEM-100-700-S10 | | 70 | 120 | 10 | ☑ |
| 4LEM-120-300-S12 | 12 | 30 | 90 | 12 | ☑ |
| 4LEM-120-350-110 | | 35 | 110 | 12 | ☑ |
| 4LEM-120-400-S12 | | 40 | 100 | 12 | ☑ |
| 4LEM-120-450-S12 | | 45 | 100 | 12 | ☑ |
| 4LEM-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4LEM-120-550-S12 | | 55 | 110 | 12 | ☑ |
| 4LEM-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 4LEM-120-700-S12 | | 70 | 130 | 12 | ☑ |
| 4LEM-120-800-S12 | | 80 | 130 | 12 | ☑ |
| 4LEM-140-500-S14 | 14 | 50 | 110 | 14 | ☑ |
| 4LEM-160-400-160 | 16 | 40 | 160 | 16 | ☑ |
| 4LEM-160-550-S16 | | 55 | 120 | 16 | ☑ |
| 4LEM-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 4LEM-160-900-S16 | | 90 | 150 | 16 | ☑ |
| 4LEM-160-1000-S16 | | 100 | 160 | 16 | ☑ |
| 4LEM-200-500-160 | 20 | 50 | 160 | 20 | ☑ |
| 4LEM-200-600-S20 | | 60 | 130 | 20 | ☑ |
| 4LEM-200-800-S20 | | 80 | 160 | 20 | ☑ |
| 4LEM-200-1000-S20 | | 100 | 200 | 20 | ☑ |
| 4LEM-250-750-S25 | 25 | 75 | 160 | 25 | ☑ |

◀ zpět na obsah

# 4HEM

## 4-břité OSTRÉ frézy 45° pro kalené oceli do HRC 60




- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

| 4 | 45° | D≤5 | D≥6 | D≥14 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|
| | | 0 / -0,01 | -0,01 / -0,025 | -0,015 / -0,03 | 0,2 µm | TiSiN |

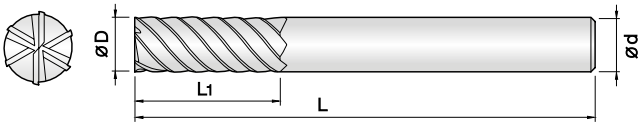
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HEM-010-025-S06 | 1 | 2,5 | 40 | 6 | ☑ |
| 4HEM-010-035-S06 | | 3,5 | 40 | 6 | ☑ |
| 4HEM-010-050-S06 | | 5 | 45 | 6 | ☑ |
| 4HEM-012-030-S06 | 1,2 | 3 | 40 | 6 | ☑ |
| 4HEM-015-040-S06 | 1,5 | 4 | 40 | 6 | ☑ |
| 4HEM-015-060-S06 | | 6 | 40 | 6 | ☑ |
| 4HEM-015-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HEM-020-050-S06 | 2 | 5 | 40 | 6 | ☑ |
| 4HEM-020-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HEM-020-100-S06 | | 10 | 50 | 6 | ☑ |
| 4HEM-030-080-S06 | 3 | 8 | 45 | 6 | ☑ |
| 4HEM-030-120-S06 | | 12 | 50 | 6 | ☑ |
| 4HEM-030-150-S06 | | 15 | 55 | 6 | ☑ |
| 4HEM-040-110-S06 | 4 | 11 | 45 | 6 | ☑ |
| 4HEM-040-160-S06 | | 16 | 55 | 6 | ☑ |
| 4HEM-040-200-S06 | | 20 | 60 | 6 | ☑ |
| 4HEM-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 4HEM-050-180-S06 | | 18 | 60 | 6 | ☑ |
| 4HEM-050-250-S06 | | 25 | 70 | 6 | ☑ |
| 4HEM-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 4HEM-060-200-S06 | | 20 | 60 | 6 | ☑ |
| 4HEM-060-250-S06 | | 25 | 70 | 6 | ☑ |
| 4HEM-080-200-S08 | 8 | 20 | 60 | 8 | ☑ |
| 4HEM-080-250-S08 | | 25 | 70 | 8 | ☑ |
| 4HEM-080-300-S08 | | 30 | 75 | 8 | ☑ |
| 4HEM-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 4HEM-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 4HEM-100-300-S10 | | 30 | 80 | 10 | ☑ |
| 4HEM-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 4HEM-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 4HEM-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 4HEM-120-400-S12 | | 40 | 90 | 12 | ☑ |
| 4HEM-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4HEM-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 4HEM-140-300-S14 | 14 | 30 | 80 | 14 | ☑ |
| 4HEM-140-500-S14 | | 50 | 110 | 14 | ☑ |
| 4HEM-160-350-S16 | 16 | 35 | 90 | 16 | ☑ |
| 4HEM-160-500-S16 | | 50 | 110 | 16 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HEM-160-650-S16 | 16 | 65 | 120 | 16 | ☑ |
| 4HEM-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |
| 4HEM-200-500-S20 | | 50 | 110 | 20 | ☑ |
| 4HEM-200-700-S20 | | 70 | 130 | 20 | ☑ |
| 4HEM-250-800-S25 | 25 | 80 | 160 | 25 | ☑ |

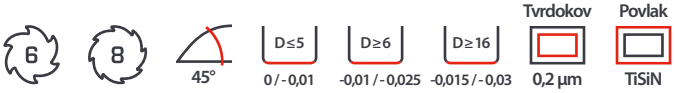
◀ zpět na obsah

# 6&8HEM

## 6 a 8-břité OSTRÉ frézy 45° pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky zesílení řezné hrany
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

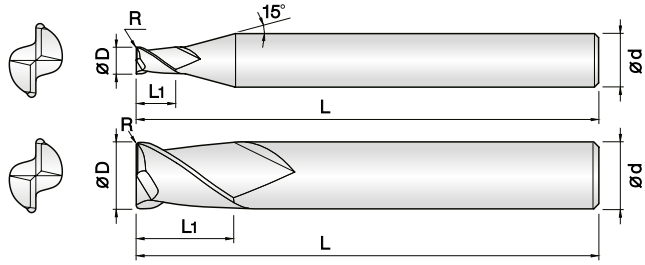



| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 6HEM-030-100-S06 | 3 | 10 | 50 | 6 | ☑ |
| 6HEM-030-150-S06 | | 15 | 50 | 6 | ☑ |
| 6HEM-040-120-S06 | 4 | 12 | 50 | 6 | ☑ |
| 6HEM-040-160-S06 | | 16 | 50 | 6 | ☑ |
| 6HEM-050-150-S06 | 5 | 15 | 50 | 6 | ☑ |
| 6HEM-050-200-S06 | | 20 | 60 | 6 | ☑ |
| 6HEM-060-150-S06 | 6 | 15 | 50 | 6 | ☑ |
| 6HEM-060-200-S06 | | 20 | 60 | 6 | ☑ |
| 6HEM-060-250-S06 | | 25 | 65 | 6 | ☑ |
| 6HEM-060-300-S06 | | 30 | 70 | 6 | ☑ |
| 6HEM-060-350-S06 | | 35 | 75 | 6 | ☑ |
| 6HEM-080-200-S08 | 8 | 20 | 60 | 8 | ☑ |
| 6HEM-080-250-S08 | | 25 | 65 | 8 | ☑ |
| 6HEM-080-300-S08 | | 30 | 75 | 8 | ☑ |
| 6HEM-080-350-S08 | | 35 | 80 | 8 | ☑ |
| 6HEM-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 6HEM-080-450-S08 | | 45 | 100 | 8 | ☑ |
| 6HEM-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 6HEM-100-250-S10 | 10 | 25 | 70 | 10 | ☑ |
| 6HEM-100-350-S10 | | 35 | 90 | 10 | ☑ |
| 6HEM-100-450-S10 | | 45 | 100 | 10 | ☑ |
| 6HEM-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 6HEM-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 6HEM-120-300-S12 | 12 | 30 | 80 | 12 | ☑ |
| 6HEM-120-400-S12 | | 40 | 90 | 12 | ☑ |
| 6HEM-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 6HEM-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 6HEM-120-700-S12 | | 70 | 120 | 12 | ☑ |
| 6HEM-160-350-S16 | 16 | 35 | 90 | 16 | ☑ |
| 6HEM-160-500-S16 | | 50 | 110 | 16 | ☑ |
| 6HEM-160-650-S16 | | 65 | 120 | 16 | ☑ |
| 6HEM-160-800-S16 | | 80 | 150 | 16 | ☑ |
| 6HEM-160-900-S16 | | 90 | 160 | 16 | ☑ |
| 6HEM-160-1000-S16 | | 100 | 160 | 16 | ☑ |
| 6HEM-200-450-S20 | 20 | 45 | 100 | 20 | ☑ |
| 6HEM-200-600-S20 | | 60 | 120 | 20 | ☑ |
| 6HEM-200-800-S20 | | 80 | 150 | 20 | ☑ |
| 6HEM-200-900-S20 | | 90 | 160 | 20 | ☑ |

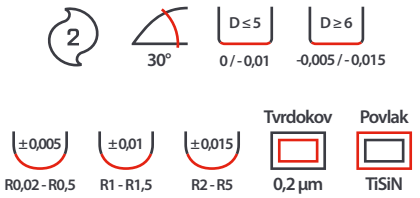
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 6HEM-200-1000-S20 | 20 | 100 | 160 | 20 | ☑ |
| 6HEM-200-1100-S20 | | 110 | 170 | 20 | ☑ |
| 6HEM-200-1200-S20 | | 120 | 180 | 20 | ☑ |
| 8HEM-250-1000-S25 | 25 | 100 | 160 | 25 | ☑ |
| 8HEM-250-1250-S25 | | 125 | 200 | 25 | ☑ |

◀ zpět na obsah

# 2NCR 2-břité TOROIDNÍ frézy pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a délek pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCR-002-0002-S04 | 0,2 | R 0,02 | 0,6 | 45 | 4 | ☑ |
| 2NCR-002-0005-S04 | | R 0,05 | 0,6 | 45 | 4 | ☑ |
| 2NCR-003-0002-S04 | 0,3 | R 0,02 | 0,6 | 45 | 4 | ☑ |
| 2NCR-003-0005-S04 | | R 0,05 | 0,6 | 45 | 4 | ☑ |
| 2NCR-003-001-S04 | | R 0,1 | 0,6 | 45 | 4 | ☑ |
| 2NCR-004-0002-S04 | 0,4 | R 0,02 | 0,8 | 45 | 4 | ☑ |
| 2NCR-004-0005-S04 | | R 0,05 | 0,8 | 45 | 4 | ☑ |
| 2NCR-004-001-S04 | | R 0,1 | 0,8 | 45 | 4 | ☑ |
| 2NCR-005-0002-S04 | 0,5 | R 0,02 | 1 | 45 | 4 | ☑ |
| 2NCR-005-0005-S04 | | R 0,05 | 1 | 45 | 4 | ☑ |
| 2NCR-005-001-S04 | | R 0,1 | 1 | 45 | 4 | ☑ |
| 2NCR-006-0002-S04 | 0,6 | R 0,02 | 1,2 | 45 | 4 | ☑ |
| 2NCR-006-0005-S04 | | R 0,05 | 1,2 | 45 | 4 | ☑ |
| 2NCR-006-001-S04 | | R 0,1 | 1,2 | 45 | 4 | ☑ |
| 2NCR-006-002-S04 | | R 0,2 | 1,2 | 45 | 4 | ☑ |
| 2NCR-007-0005-S04 | 0,7 | R 0,05 | 1,4 | 45 | 4 | ☑ |
| 2NCR-007-001-S04 | | R 0,1 | 1,4 | 45 | 4 | ☑ |
| 2NCR-007-002-S04 | | R 0,2 | 1,4 | 45 | 4 | ☑ |
| 2NCR-008-0002-S04 | 0,8 | R 0,02 | 1,6 | 45 | 4 | ☑ |
| 2NCR-008-0005-S04 | | R 0,05 | 1,6 | 45 | 4 | ☑ |
| 2NCR-008-001-S04 | | R 0,1 | 1,6 | 45 | 4 | ☑ |
| 2NCR-008-002-S04 | | R 0,2 | 1,6 | 45 | 4 | ☑ |
| 2NCR-009-0005-S04 | 0,9 | R 0,05 | 1,8 | 45 | 4 | ☑ |
| 2NCR-009-001-S04 | | R 0,1 | 1,8 | 45 | 4 | ☑ |
| 2NCR-010-0002-S04 | 1 | R 0,02 | 2,5 | 45 | 4 | ☑ |
| 2NCR-010-0005-S04 | | R 0,05 | 2,5 | 45 | 4 | ☑ |
| 2NCR-010-001-S04 | | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 2NCR-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 2NCR-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 2NCR-010-004-S04 | | R 0,4 | 2,5 | 45 | 4 | ☑ |
| 2NCR-012-0005-S04 | 1,2 | R 0,05 | 3,2 | 45 | 4 | ☑ |
| 2NCR-012-001-S04 | | R 0,1 | 3,2 | 45 | 4 | ☑ |
| 2NCR-012-002-S04 | | R 0,2 | 3,2 | 45 | 4 | ☑ |
| 2NCR-012-003-S04 | | R 0,3 | 3,2 | 45 | 4 | ☑ |
| 2NCR-015-0002-S04 | 1,5 | R 0,02 | 4 | 45 | 4 | ☑ |
| 2NCR-015-0005-S04 | | R 0,05 | 4 | 45 | 4 | ☑ |
| 2NCR-015-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 2NCR-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCR-015-003-S04 | 1,5 | R 0,3 | 4 | 45 | 4 | ☑ |
| 2NCR-015-004-S04 | | R 0,4 | 4 | 45 | 4 | ☑ |
| 2NCR-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 2NCR-020-0002-S04 | 2 | R 0,02 | 6 | 45 | 4 | ☑ |
| 2NCR-020-0005-S04 | | R 0,05 | 6 | 45 | 4 | ☑ |
| 2NCR-020-001-S04 | | R 0,1 | 6 | 45 | 4 | ☑ |
| 2NCR-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 2NCR-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 2NCR-020-004-S04 | | R 0,4 | 6 | 45 | 4 | ☑ |
| 2NCR-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 2NCR-025-0005-S04 | 2,5 | R 0,05 | 6 | 50 | 4 | ☑ |
| 2NCR-025-001-S04 | | R 0,1 | 6 | 50 | 4 | ☑ |
| 2NCR-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 2NCR-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 2NCR-025-004-S04 | | R 0,4 | 6 | 50 | 4 | ☑ |
| 2NCR-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 2NCR-030-0005-S06 | 3 | R 0,05 | 8 | 60 | 6 | ☑ |
| 2NCR-030-001-S06 | | R 0,1 | 8 | 60 | 6 | ☑ |
| 2NCR-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |
| 2NCR-030-003-S06 | | R 0,3 | 8 | 60 | 6 | ☑ |
| 2NCR-030-004-S06 | | R 0,4 | 8 | 60 | 6 | ☑ |
| 2NCR-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 2NCR-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |
| 2NCR-035-001-S06 | 3,5 | R 0,1 | 9 | 70 | 6 | ☑ |
| 2NCR-035-002-S06 | | R 0,2 | 9 | 70 | 6 | ☑ |
| 2NCR-035-003-S06 | | R 0,3 | 9 | 70 | 6 | ☑ |
| 2NCR-035-005-S06 | | R 0,5 | 9 | 70 | 6 | ☑ |
| 2NCR-035-010-S06 | | R 1 | 9 | 70 | 6 | ☑ |
| 2NCR-040-0005-060 | 4 | R 0,05 | 9 | 60 | 4 | ☑ |
| 2NCR-040-0005-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-0005-S06 | | | 9 | 70 | 6 | ☑ |
| 2NCR-040-001-060 | | R 0,1 | 9 | 60 | 4 | ☑ |
| 2NCR-040-001-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-001-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCR-040-002-060 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 2NCR-040-002-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-002-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCR-040-003-060 | | R 0,3 | 9 | 60 | 4 | ☑ |

◀ zpět na obsah

# 2NCR 2-břité TOROIDNÍ frézy pro kalené oceli do HRC 62

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCR-040-003-080 | 4 | R 0,3 | 9 | 80 | 4 | ☑ |
| 2NCR-040-003-S06 | | R 0,3 | 10 | 70 | 6 | ☑ |
| 2NCR-040-004-060 | | R 0,4 | 9 | 60 | 4 | ☑ |
| 2NCR-040-004-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-004-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCR-040-005-060 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 2NCR-040-005-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-005-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCR-040-010-060 | | R 1 | 9 | 60 | 4 | ☑ |
| 2NCR-040-010-080 | | | 9 | 80 | 4 | ☑ |
| 2NCR-040-010-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCR-045-001-S06 | 4,5 | R 0,1 | 11 | 75 | 6 | ☑ |
| 2NCR-045-002-S06 | | R 0,2 | 11 | 75 | 6 | ☑ |
| 2NCR-045-003-S06 | | R 0,3 | 11 | 75 | 6 | ☑ |
| 2NCR-045-005-S06 | | R 0,5 | 11 | 75 | 6 | ☑ |
| 2NCR-045-010-S06 | | R 1 | 11 | 75 | 6 | ☑ |
| 2NCR-050-001-S06 | 5 | R 0,1 | 13 | 75 | 6 | ☑ |
| 2NCR-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 2NCR-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 2NCR-050-004-S06 | | R 0,4 | 13 | 75 | 6 | ☑ |
| 2NCR-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 2NCR-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 2NCR-055-002-S06 | 5,5 | R 0,2 | 13 | 75 | 6 | ☑ |
| 2NCR-055-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 2NCR-055-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 2NCR-055-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 2NCR-060-0005-060 | 6 | R 0,05 | 11 | 60 | 6 | ☑ |
| 2NCR-060-0005-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-001-060 | | R 0,1 | 11 | 60 | 6 | ☑ |
| 2NCR-060-001-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-002-060 | | R 0,2 | 11 | 60 | 6 | ☑ |
| 2NCR-060-002-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-003-060 | | R 0,3 | 11 | 60 | 6 | ☑ |
| 2NCR-060-003-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-004-060 | | R 0,4 | 11 | 60 | 6 | ☑ |
| 2NCR-060-004-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-005-060 | | R 0,5 | 11 | 60 | 6 | ☑ |
| 2NCR-060-005-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-010-060 | | R 1 | 11 | 60 | 6 | ☑ |
| 2NCR-060-010-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-015-060 | | R 1,5 | 11 | 60 | 6 | ☑ |
| 2NCR-060-015-090 | | | 13 | 90 | 6 | ☑ |
| 2NCR-060-020-060 | | R 2 | 11 | 60 | 6 | ☑ |
| 2NCR-060-020-090 | 8 | R 2 | 13 | 90 | 6 | ☑ |
| 2NCR-060-025-090 | | R 2,5 | 13 | 90 | 6 | ☑ |
| 2NCR-080-001-070 | | R 0,1 | 16 | 70 | 8 | ☑ |
| 2NCR-080-001-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-002-070 | | R 0,2 | 16 | 70 | 8 | ☑ |
| 2NCR-080-002-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-003-070 | | R 0,3 | 16 | 70 | 8 | ☑ |
| 2NCR-080-003-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCR-080-005-100 | 8 | R 0,5 | 19 | 100 | 8 | ☑ |
| 2NCR-080-005-120 | | | 19 | 120 | 8 | ☑ |
| 2NCR-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 2NCR-080-010-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-010-120 | | | 19 | 120 | 8 | ☑ |
| 2NCR-080-015-070 | | R 1,5 | 16 | 70 | 8 | ☑ |
| 2NCR-080-015-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-020-070 | | R 2 | 16 | 70 | 8 | ☑ |
| 2NCR-080-020-100 | | | 19 | 100 | 8 | ☑ |
| 2NCR-080-025-100 | | R 2,5 | 19 | 100 | 8 | ☑ |
| 2NCR-080-030-100 | | R 3 | 19 | 100 | 8 | ☑ |
| 2NCR-080-035-100 | | R 3,5 | 19 | 100 | 8 | ☑ |
| 2NCR-100-001-075 | 10 | R 0,1 | 19 | 75 | 10 | ☑ |
| 2NCR-100-001-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-002-075 | | R 0,2 | 19 | 75 | 10 | ☑ |
| 2NCR-100-002-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-003-075 | | R 0,3 | 19 | 75 | 10 | ☑ |
| 2NCR-100-003-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-005-075 | | R 0,5 | 19 | 75 | 10 | ☑ |
| 2NCR-100-005-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-005-130 | | | 22 | 130 | 10 | ☑ |
| 2NCR-100-010-075 | | R 1 | 19 | 75 | 10 | ☑ |
| 2NCR-100-010-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-010-130 | | | 22 | 130 | 10 | ☑ |
| 2NCR-100-015-075 | | R 1,5 | 19 | 75 | 10 | ☑ |
| 2NCR-100-015-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-015-130 | | | 22 | 130 | 10 | ☑ |
| 2NCR-100-020-075 | | R 2 | 19 | 75 | 10 | ☑ |
| 2NCR-100-020-100 | | | 22 | 100 | 10 | ☑ |
| 2NCR-100-025-100 | | R 2,5 | 22 | 100 | 10 | ☑ |
| 2NCR-100-030-100 | | R 3 | 22 | 100 | 10 | ☑ |
| 2NCR-100-040-100 | | R 4 | 22 | 100 | 10 | ☑ |
| 2NCR-120-001-080 | 12 | R 0,1 | 22 | 80 | 12 | ☑ |
| 2NCR-120-001-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-002-080 | | R 0,2 | 22 | 80 | 12 | ☑ |
| 2NCR-120-002-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-003-080 | | R 0,3 | 22 | 80 | 12 | ☑ |
| 2NCR-120-003-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-005-080 | | R 0,5 | 22 | 80 | 12 | ☑ |
| 2NCR-120-005-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-005-130 | | | 26 | 130 | 12 | ☑ |
| 2NCR-120-010-080 | | R 1 | 22 | 80 | 12 | ☑ |
| 2NCR-120-010-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-010-130 | | R 1 | 26 | 130 | 12 | ☑ |
| 2NCR-120-015-080 | | R 1,5 | 22 | 80 | 12 | ☑ |
| 2NCR-120-015-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-015-130 | | | 26 | 130 | 12 | ☑ |
| 2NCR-120-020-080 | | R 2 | 22 | 80 | 12 | ☑ |
| 2NCR-120-020-110 | | | 26 | 110 | 12 | ☑ |
| 2NCR-120-020-130 | | | 26 | 130 | 12 | ☑ |
| 2NCR-120-025-110 | | R 2,5 | 26 | 110 | 12 | ☑ |
| 2NCR-120-030-110 | | R 3 | 26 | 110 | 12 | ☑ |

◀ zpět na obsah

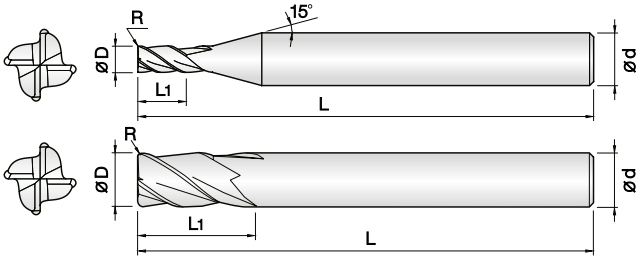
# 2NCR 2-břité TOROIDNÍ frézy pro kalené oceli do HRC 62

NOVINKA

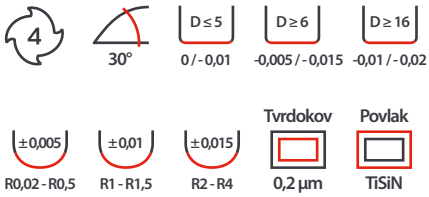
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCR-120-040-110 | 12 | R 4 | 26 | 110 | 12 | ☑ |
| 2NCR-120-050-110 | | R 5 | 26 | 110 | 12 | ☑ |
| 2NCR-140-005-110 | 14 | R 0,5 | 30 | 110 | 14 | ☑ |
| 2NCR-140-010-110 | | R 1 | 30 | 110 | 14 | ☑ |
| 2NCR-140-020-110 | | R 2 | 30 | 110 | 14 | ☑ |
| 2NCR-160-005-160 | 16 | R 0,5 | 32 | 160 | 16 | ☑ |
| 2NCR-160-010-160 | | R 1 | 32 | 160 | 16 | ☑ |

◀ zpět na obsah

# 4NCR 4-břité TOROIDNÍ frézy pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Široký sortiment rádiusů a délek pro optimální výběr nástroje
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu




NOVINKA

| Objednací-číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d-h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCR-005-0005-S04 | 0,5 | R 0,05 | 1 | 45 | 4 | ☑ |
| 4NCR-005-001-S04 | | R 0,1 | 1 | 45 | 4 | ☑ |
| 4NCR-006-001-S04 | 0,6 | R 0,1 | 1,2 | 45 | 4 | ☑ |
| 4NCR-006-002-S04 | | R 0,02 | 1,2 | 45 | 4 | ☑ |
| 4NCR-008-001-S04 | 0,8 | R 0,1 | 1,6 | 45 | 4 | ☑ |
| 4NCR-008-002-S04 | | R 0,02 | 1,6 | 45 | 4 | ☑ |
| 4NCR-010-0002-S04 | 1 | R 0,02 | 2,5 | 45 | 4 | ☑ |
| 4NCR-010-0005-S04 | | R 0,05 | 2,5 | 45 | 4 | ☑ |
| 4NCR-010-001-S04 | | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 4NCR-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 4NCR-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 4NCR-012-0002-S04 | 1,2 | R 0,02 | 4 | 45 | 4 | ☑ |
| 4NCR-012-0005-S04 | | R 0,05 | 4 | 45 | 4 | ☑ |
| 4NCR-012-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 4NCR-012-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |
| 4NCR-012-003-S04 | | R 0,3 | 4 | 45 | 4 | ☑ |
| 4NCR-015-0002-S04 | 1,5 | R 0,02 | 4 | 45 | 4 | ☑ |
| 4NCR-015-0005-S04 | | R 0,05 | 4 | 45 | 4 | ☑ |
| 4NCR-015-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 4NCR-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |
| 4NCR-015-003-S04 | | R 0,3 | 4 | 45 | 4 | ☑ |
| 4NCR-015-004-S04 | | R 0,4 | 4 | 45 | 4 | ☑ |
| 4NCR-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 4NCR-020-0002-S04 | 2 | R 0,02 | 6 | 45 | 4 | ☑ |
| 4NCR-020-0005-S04 | | R 0,05 | 6 | 45 | 4 | ☑ |
| 4NCR-020-001-S04 | | R 0,1 | 6 | 45 | 4 | ☑ |
| 4NCR-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 4NCR-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 4NCR-020-004-S04 | | R 0,4 | 6 | 45 | 4 | ☑ |
| 4NCR-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 4NCR-025-0005-S04 | 2,5 | R 0,05 | 6 | 50 | 4 | ☑ |
| 4NCR-025-001-S04 | | R 0,1 | 6 | 50 | 4 | ☑ |
| 4NCR-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 4NCR-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 4NCR-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 4NCR-030-0005-S06 | 3 | R 0,05 | 8 | 60 | 6 | ☑ |
| 4NCR-030-001-S06 | | R 0,1 | 8 | 60 | 6 | ☑ |
| 4NCR-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |

| Objednací-číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d-h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCR-030-003-S06 | 3 | R 0,3 | 8 | 60 | 6 | ☑ |
| 4NCR-030-004-S06 | | R 0,4 | 8 | 60 | 6 | ☑ |
| 4NCR-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 4NCR-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |
| 4NCR-040-0005-060 | 4 | R 0,05 | 9 | 60 | 4 | ☑ |
| 4NCR-040-0005-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-0005-S06 | | R 0,05 | 10 | 70 | 6 | ☑ |
| 4NCR-040-001-060 | | R 0,1 | 9 | 60 | 4 | ☑ |
| 4NCR-040-001-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-001-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-040-002-060 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 4NCR-040-002-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-002-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-040-003-060 | | R 0,3 | 9 | 60 | 4 | ☑ |
| 4NCR-040-003-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-003-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-040-004-060 | | R 0,4 | 9 | 60 | 4 | ☑ |
| 4NCR-040-004-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-004-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-040-005-060 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 4NCR-040-005-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-005-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-040-010-060 | | R 1 | 9 | 60 | 4 | ☑ |
| 4NCR-040-010-080 | | | 9 | 80 | 4 | ☑ |
| 4NCR-040-010-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCR-050-0005-S06 | 5 | R 0,05 | 13 | 75 | 6 | ☑ |
| 4NCR-050-001-S06 | | R 0,1 | 13 | 75 | 6 | ☑ |
| 4NCR-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 4NCR-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 4NCR-050-004-S06 | | R 0,4 | 13 | 75 | 6 | ☑ |
| 4NCR-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 4NCR-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 4NCR-055-002-S06 | 5,5 | R 0,2 | 13 | 75 | 6 | ☑ |
| 4NCR-055-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 4NCR-055-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 4NCR-055-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 4NCR-060-0005-080 | 6 | R 0,05 | 13 | 80 | 6 | ☑ |
| 4NCR-060-001-060 | | R 0,1 | 11 | 60 | 6 | ☑ |

◀ zpět na obsah

# 4NCR 4-břité TOROIDNÍ frézy pro kalené oceli do HRC 62

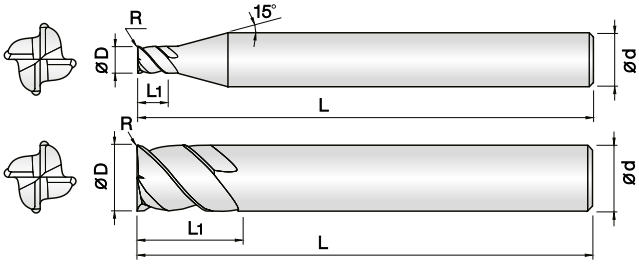
NOVINKA

| Objednací-číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d-h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCR-060-001-080 | 6 | R 0,1 | 13 | 80 | 6 | ☑ |
| 4NCR-060-002-060 | | R 0,2 | 11 | 60 | 6 | ☑ |
| 4NCR-060-002-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-060-003-060 | | R 0,3 | 11 | 60 | 6 | ☑ |
| 4NCR-060-003-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-060-004-080 | | R 0,4 | 13 | 80 | 6 | ☑ |
| 4NCR-060-005-060 | | R 0,5 | 11 | 60 | 6 | ☑ |
| 4NCR-060-005-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-060-010-060 | | R 1 | 11 | 60 | 6 | ☑ |
| 4NCR-060-010-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-060-015-060 | | R 1,5 | 11 | 60 | 6 | ☑ |
| 4NCR-060-015-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-060-020-060 | | R 2 | 11 | 60 | 6 | ☑ |
| 4NCR-060-020-080 | | | 13 | 80 | 6 | ☑ |
| 4NCR-080-001-070 | 8 | R 0,1 | 16 | 70 | 8 | ☑ |
| 4NCR-080-001-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-002-070 | | R 0,2 | 16 | 70 | 8 | ☑ |
| 4NCR-080-002-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-003-070 | | R 0,3 | 16 | 70 | 8 | ☑ |
| 4NCR-080-003-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |
| 4NCR-080-005-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-005-110 | | | 19 | 110 | 8 | ☑ |
| 4NCR-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 4NCR-080-010-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-010-110 | | | 19 | 110 | 8 | ☑ |
| 4NCR-080-015-070 | | R 1,5 | 16 | 70 | 8 | ☑ |
| 4NCR-080-015-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-015-110 | | | 19 | 110 | 8 | ☑ |
| 4NCR-080-020-070 | | R 2 | 16 | 70 | 8 | ☑ |
| 4NCR-080-020-090 | | | 19 | 90 | 8 | ☑ |
| 4NCR-080-020-110 | | | 19 | 110 | 8 | ☑ |
| 4NCR-080-025-090 | | R 2,5 | 19 | 90 | 8 | ☑ |
| 4NCR-100-001-075 | 10 | R 0,1 | 19 | 75 | 10 | ☑ |
| 4NCR-100-001-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-002-075 | | R 0,2 | 19 | 75 | 10 | ☑ |
| 4NCR-100-002-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-002-120 | | | 22 | 120 | 10 | ☑ |
| 4NCR-100-003-075 | | R 0,3 | 19 | 75 | 10 | ☑ |
| 4NCR-100-003-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-005-075 | | R 0,5 | 19 | 75 | 10 | ☑ |
| 4NCR-100-005-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-005-120 | | | 22 | 120 | 10 | ☑ |
| 4NCR-100-010-075 | | R 1 | 19 | 75 | 10 | ☑ |
| 4NCR-100-010-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-010-120 | | | 22 | 120 | 10 | ☑ |
| 4NCR-100-015-075 | | R 1,5 | 19 | 75 | 10 | ☑ |
| 4NCR-100-015-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-015-120 | | | 22 | 120 | 10 | ☑ |
| 4NCR-100-020-075 | | R 2 | 19 | 75 | 10 | ☑ |
| 4NCR-100-020-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-020-120 | | | 22 | 120 | 10 | ☑ |

| Objednací-číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d-h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCR-100-025-075 | 10 | R 2,5 | 19 | 75 | 10 | ☑ |
| 4NCR-100-025-100 | | | 22 | 100 | 10 | ☑ |
| 4NCR-100-025-120 | | | 22 | 120 | 10 | ☑ |
| 4NCR-100-030-100 | | R 3 | 22 | 100 | 10 | ☑ |
| 4NCR-120-002-080 | 12 | R 0,2 | 22 | 80 | 12 | ☑ |
| 4NCR-120-002-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-002-130 | | | 22 | 120 | 10 | ☑ |
| 4NCR-120-003-080 | | R 0,3 | 22 | 80 | 12 | ☑ |
| 4NCR-120-003-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-005-080 | | R 0,5 | 22 | 80 | 12 | ☑ |
| 4NCR-120-005-110 | 12 | R 0,5 | 26 | 110 | 12 | ☑ |
| 4NCR-120-005-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-010-080 | | R 1 | 22 | 80 | 12 | ☑ |
| 4NCR-120-010-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-010-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-015-080 | | R 1,5 | 22 | 80 | 12 | ☑ |
| 4NCR-120-015-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-015-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-020-080 | | R 2 | 22 | 80 | 12 | ☑ |
| 4NCR-120-020-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-020-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-025-080 | | R 2,5 | 22 | 80 | 12 | ☑ |
| 4NCR-120-025-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-025-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-030-080 | | R 3 | 22 | 80 | 12 | ☑ |
| 4NCR-120-030-110 | | | 26 | 110 | 12 | ☑ |
| 4NCR-120-030-130 | | | 26 | 130 | 12 | ☑ |
| 4NCR-120-035-110 | | R 3,5 | 26 | 110 | 12 | ☑ |
| 4NCR-120-040-110 | | R 4 | 26 | 110 | 12 | ☑ |
| 4NCR-140-005-110 | 14 | R 0,5 | 30 | 110 | 14 | ☑ |
| 4NCR-140-010-110 | | R 1 | 30 | 110 | 14 | ☑ |
| 4NCR-140-020-110 | | R 2 | 30 | 110 | 14 | ☑ |
| 4NCR-160-005-110 | 16 | R 0,5 | 32 | 110 | 16 | ☑ |
| 4NCR-160-005-160 | | | 32 | 160 | 16 | ☑ |
| 4NCR-160-010-110 | | R 1 | 32 | 110 | 16 | ☑ |
| 4NCR-160-010-160 | | | 32 | 160 | 16 | ☑ |
| 4NCR-160-015-110 | | R 1,5 | 32 | 110 | 16 | ☑ |
| 4NCR-160-020-110 | | R 2 | 32 | 110 | 16 | ☑ |
| 4NCR-160-030-110 | | R 3 | 32 | 110 | 16 | ☑ |
| 4NCR-200-005-160 | 20 | R 0,5 | 38 | 160 | 20 | ☑ |
| 4NCR-200-010-160 | | R 1 | 38 | 160 | 20 | ☑ |
| 4NCR-200-015-160 | | R 1,5 | 38 | 160 | 20 | ☑ |
| 4NCR-200-020-160 | | R 2 | 38 | 160 | 20 | ☑ |

◀ zpět na obsah

# 4CRL 4-břité TOROIDNÍ frézy 45° pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu

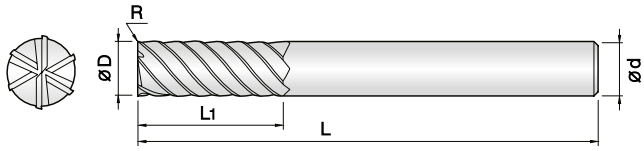
NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4CRL-010-0005-S06 | 1 | R 0,05 | 2 | 50 | 6 | ☑ |
| 4CRL-010-001-S06 | | R 0,1 | 2 | 50 | 6 | ☑ |
| 4CRL-010-002-S06 | | R 0,2 | 2 | 50 | 6 | ☑ |
| 4CRL-010-003-S06 | | R 0,3 | 2 | 50 | 6 | ☑ |
| 4CRL-012-0005-S06 | 1,2 | R 0,05 | 2,5 | 50 | 6 | ☑ |
| 4CRL-012-001-S06 | | R 0,1 | 2,5 | 50 | 6 | ☑ |
| 4CRL-012-002-S06 | | R 0,2 | 2,5 | 50 | 6 | ☑ |
| 4CRL-012-003-S06 | | R 0,3 | 2,5 | 50 | 6 | ☑ |
| 4CRL-015-0005-S06 | 1,5 | R 0,05 | 3 | 50 | 6 | ☑ |
| 4CRL-015-001-S06 | | R 0,1 | 3 | 50 | 6 | ☑ |
| 4CRL-015-002-S06 | | R 0,2 | 3 | 50 | 6 | ☑ |
| 4CRL-015-003-S06 | | R 0,3 | 3 | 50 | 6 | ☑ |
| 4CRL-015-005-S06 | | R 0,5 | 3 | 50 | 6 | ☑ |
| 4CRL-020-001-S06 | 2 | R 0,1 | 5 | 50 | 6 | ☑ |
| 4CRL-020-002-S06 | | R 0,2 | 5 | 50 | 6 | ☑ |
| 4CRL-020-003-S06 | | R 0,3 | 5 | 50 | 6 | ☑ |
| 4CRL-020-005-S06 | | R 0,5 | 5 | 50 | 6 | ☑ |
| 4CRL-025-001-S06 | 2,5 | R 0,1 | 6 | 60 | 6 | ☑ |
| 4CRL-025-002-S06 | | R 0,2 | 6 | 60 | 6 | ☑ |
| 4CRL-025-003-S06 | | R 0,3 | 6 | 60 | 6 | ☑ |
| 4CRL-025-005-S06 | | R 0,5 | 6 | 60 | 6 | ☑ |
| 4CRL-030-001-S06 | 3 | R 0,1 | 6 | 70 | 6 | ☑ |
| 4CRL-030-002-S06 | | R 0,2 | 6 | 70 | 6 | ☑ |
| 4CRL-030-003-S06 | | R 0,3 | 6 | 70 | 6 | ☑ |
| 4CRL-030-005-S06 | | R 0,5 | 6 | 70 | 6 | ☑ |
| 4CRL-030-010-S06 | | R 1 | 6 | 70 | 6 | ☑ |
| 4CRL-040-001-S06 | 4 | R 0,1 | 8 | 70 | 6 | ☑ |
| 4CRL-040-002-S06 | | R 0,2 | 8 | 70 | 6 | ☑ |
| 4CRL-040-003-S06 | | R 0,3 | 8 | 70 | 6 | ☑ |
| 4CRL-040-005-S06 | | R 0,5 | 8 | 70 | 6 | ☑ |
| 4CRL-040-010-S06 | | R 1 | 8 | 70 | 6 | ☑ |
| 4CRL-050-001-S06 | 5 | R 0,1 | 10 | 80 | 6 | ☑ |
| 4CRL-050-002-S06 | | R 0,2 | 10 | 80 | 6 | ☑ |
| 4CRL-050-003-S06 | | R 0,3 | 10 | 80 | 6 | ☑ |
| 4CRL-050-005-S06 | | R 0,5 | 10 | 80 | 6 | ☑ |
| 4CRL-050-010-S06 | | R 1 | 10 | 80 | 6 | ☑ |
| 4CRL-060-001-S06 | 6 | R 0,1 | 12 | 90 | 6 | ☑ |
| 4CRL-060-002-S06 | | R 0,2 | 12 | 90 | 6 | ☑ |

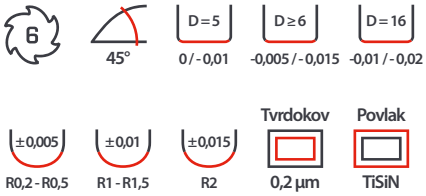
| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4CRL-060-003-S06 | 6 | R 0,3 | 12 | 90 | 6 | ☑ |
| 4CRL-060-005-S06 | | R 0,5 | 12 | 90 | 6 | ☑ |
| 4CRL-060-010-S06 | | R 1 | 12 | 90 | 6 | ☑ |
| 4CRL-060-015-S06 | | R 1,5 | 12 | 90 | 6 | ☑ |
| 4CRL-060-020-S06 | | R 2 | 12 | 90 | 6 | ☑ |
| 4CRL-080-002-S08 | 8 | R 0,2 | 16 | 90 | 8 | ☑ |
| 4CRL-080-003-S08 | | R 0,3 | 16 | 90 | 8 | ☑ |
| 4CRL-080-005-S08 | | R 0,5 | 16 | 90 | 8 | ☑ |
| 4CRL-080-010-S08 | | R 1 | 16 | 90 | 8 | ☑ |
| 4CRL-080-015-S08 | | R 1,5 | 16 | 90 | 8 | ☑ |
| 4CRL-080-020-S08 | | R 2 | 16 | 90 | 8 | ☑ |
| 4CRL-100-002-S10 | 10 | R 0,2 | 20 | 100 | 10 | ☑ |
| 4CRL-100-003-S10 | | R 0,3 | 20 | 100 | 10 | ☑ |
| 4CRL-100-005-S10 | | R 0,5 | 20 | 100 | 10 | ☑ |
| 4CRL-100-010-S10 | | R 1 | 20 | 100 | 10 | ☑ |
| 4CRL-100-015-S10 | | R 1,5 | 20 | 100 | 10 | ☑ |
| 4CRL-100-020-S10 | | R 2 | 20 | 100 | 10 | ☑ |
| 4CRL-120-003-S12 | 12 | R 0,3 | 24 | 110 | 12 | ☑ |
| 4CRL-120-005-S12 | | R 0,5 | 24 | 110 | 12 | ☑ |
| 4CRL-120-010-S12 | | R 1 | 24 | 110 | 12 | ☑ |
| 4CRL-120-015-S12 | | R 1,5 | 24 | 110 | 12 | ☑ |
| 4CRL-120-020-S12 | | R 2 | 24 | 110 | 12 | ☑ |
| 4CRL-120-030-S12 | | R 3 | 24 | 110 | 12 | ☑ |
| 4CRL-160-005-S16 | 16 | R 0,5 | 32 | 120 | 16 | ☑ |
| 4CRL-160-010-S16 | | R 1 | 32 | 120 | 16 | ☑ |
| 4CRL-160-020-S16 | | R 2 | 32 | 120 | 16 | ☑ |
| 4CRL-160-030-S16 | | R 3 | 32 | 120 | 16 | ☑ |
| 4CRL-200-005-S20 | 20 | R 0,5 | 38 | 130 | 20 | ☑ |
| 4CRL-200-010-S20 | | R 1 | 38 | 130 | 20 | ☑ |
| 4CRL-200-020-S20 | | R 2 | 38 | 130 | 20 | ☑ |
| 4CRL-200-030-S20 | | R 3 | 38 | 130 | 20 | ☑ |
| 4CRL-200-040-S20 | | R 4 | 38 | 130 | 20 | ☑ |
| 4CRL-200-050-S20 | | R 5 | 38 | 130 | 20 | ☑ |

◀ zpět na obsah

# 6CRL 6-břité TOROIDNÍ frézy 45° pro kalené oceli do HRC 62




- Určeno pro kalené oceli (50–62 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Vyšší posuvy díky 45° geometrii
- Vynikající výkon při vysokých řezných rychlostech díky 0,2 µm tvrdokovu



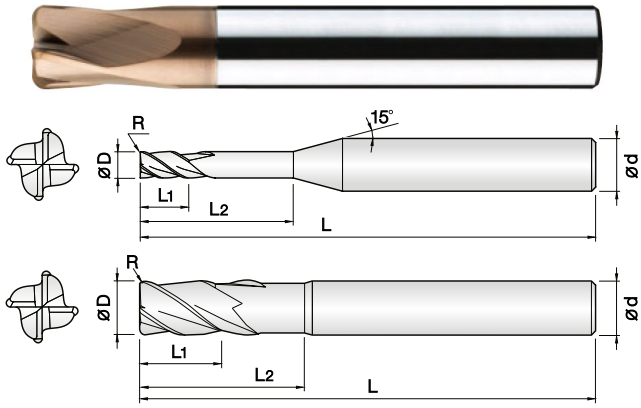

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 6CRL-030-001-060 | 3 | R 0,1 | 7,5 | 60 | 6 | ☑ |
| 6CRL-030-002-060 | | R 0,2 | 7,5 | 60 | 6 | ☑ |
| 6CRL-030-003-060 | | R 0,3 | 7,5 | 60 | 6 | ☑ |
| 6CRL-030-005-060 | | R 0,5 | 7,5 | 60 | 6 | ☑ |
| 6CRL-030-010-060 | | R 1 | 7,5 | 60 | 6 | ☑ |
| 6CRL-040-001-060 | 4 | R 0,1 | 10 | 60 | 6 | ☑ |
| 6CRL-040-002-060 | | R 0,2 | 10 | 60 | 6 | ☑ |
| 6CRL-040-003-060 | | R 0,3 | 10 | 60 | 6 | ☑ |
| 6CRL-040-005-060 | | R 0,5 | 10 | 60 | 6 | ☑ |
| 6CRL-040-010-060 | | R 1 | 10 | 60 | 6 | ☑ |
| 6CRL-050-002-060 | 5 | R 0,2 | 13 | 60 | 6 | ☑ |
| 6CRL-050-003-060 | | R 0,3 | 13 | 60 | 6 | ☑ |
| 6CRL-050-005-060 | | R 0,5 | 13 | 60 | 6 | ☑ |
| 6CRL-050-010-060 | | R 1 | 13 | 60 | 6 | ☑ |
| 6CRL-060-001-060 | 6 | R 0,1 | 15 | 60 | 6 | ☑ |
| 6CRL-060-002-060 | | R 0,2 | 15 | 60 | 6 | ☑ |
| 6CRL-060-002-080 | | | 15 | 80 | 6 | ☑ |
| 6CRL-060-003-060 | | R 0,3 | 15 | 60 | 6 | ☑ |
| 6CRL-060-003-080 | | | 15 | 80 | 6 | ☑ |
| 6CRL-060-005-060 | | R 0,5 | 15 | 60 | 6 | ☑ |
| 6CRL-060-005-080 | | | 15 | 80 | 6 | ☑ |
| 6CRL-060-010-060 | | R 1 | 15 | 60 | 6 | ☑ |
| 6CRL-060-010-080 | | | 15 | 80 | 6 | ☑ |
| 6CRL-080-002-070 | 8 | R 0,2 | 20 | 70 | 8 | ☑ |
| 6CRL-080-003-070 | | R 0,3 | 20 | 70 | 8 | ☑ |
| 6CRL-080-003-090 | | | 20 | 90 | 8 | ☑ |
| 6CRL-080-005-070 | | R 0,5 | 20 | 70 | 8 | ☑ |
| 6CRL-080-005-090 | | | 20 | 90 | 8 | ☑ |
| 6CRL-080-010-070 | | R 1 | 20 | 70 | 8 | ☑ |
| 6CRL-080-010-090 | | | 20 | 90 | 8 | ☑ |
| 6CRL-080-015-070 | | R 1,5 | 20 | 70 | 8 | ☑ |
| 6CRL-100-002-075 | 10 | R 0,2 | 20 | 75 | 10 | ☑ |
| 6CRL-100-003-075 | | R 0,3 | 25 | 75 | 10 | ☑ |
| 6CRL-100-003-100 | | | 25 | 100 | 10 | ☑ |
| 6CRL-100-005-075 | | R 0,5 | 25 | 75 | 10 | ☑ |
| 6CRL-100-005-100 | | | 25 | 100 | 10 | ☑ |
| 6CRL-100-010-075 | | R 1 | 25 | 75 | 10 | ☑ |
| 6CRL-100-010-100 | | | 25 | 100 | 10 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 6CRL-100-020-075 | 10 | R 2 | 25 | 75 | 10 | ☑ |
| 6CRL-120-002-080 | 12 | R 0,2 | 25 | 80 | 12 | ☑ |
| 6CRL-120-003-080 | | R 0,3 | 30 | 80 | 12 | ☑ |
| 6CRL-120-003-110 | | | 30 | 110 | 12 | ☑ |
| 6CRL-120-005-080 | | R 0,5 | 30 | 80 | 12 | ☑ |
| 6CRL-120-005-110 | | | 30 | 110 | 12 | ☑ |
| 6CRL-120-010-080 | | R 1 | 30 | 80 | 12 | ☑ |
| 6CRL-120-010-110 | | | 30 | 110 | 12 | ☑ |
| 6CRL-120-020-080 | | R 2 | 30 | 80 | 12 | ☑ |
| 6CRL-160-005-110 | 16 | R 0,5 | 50 | 110 | 16 | ☑ |
| 6CRL-160-010-110 | | R 1 | 50 | 110 | 16 | ☑ |
| 6CRL-160-020-110 | | R 2 | 50 | 110 | 16 | ☑ |

◀ zpět na obsah

# 4RCU 4-břité TOROIDNÍ frézy 15° pro kalené oceli do HRC 60



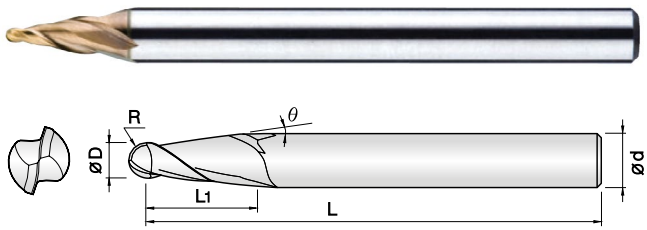

- Určeno pro kalené oceli (50–60 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Určeno pro vysoké posuvy při nižších řezných rychlostech
- Vhodné pro náročné a hrubovací obrábění
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4RCU-010-002-025 | 1 | R 0,2 | 2,5 | 1 | 50 | 4 | ☑ |
| 4RCU-015-005-040 | 1,5 | R 0,5 | 4 | 1,5 | 50 | 4 | ☑ |
| 4RCU-020-005-060 | 2 | R 0,5 | 6 | 2 | 50 | 6 | ☑ |
| 4RCU-030-005-080 | 3 | R 0,5 | 8 | 3 | 50 | 6 | ☑ |
| 4RCU-040-005-120 | 4 | R 0,5 | 12 | 4 | 60 | 6 | ☑ |
| 4RCU-040-005-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 4RCU-040-010-120 | | R 1 | 12 | 4 | 60 | 6 | ☑ |
| 4RCU-040-010-160 | | | 16 | 4 | 60 | 6 | ☑ |
| 4RCU-050-005-150 | 5 | R 0,5 | 15 | 5 | 60 | 6 | ☑ |
| 4RCU-050-010-150 | | R 1 | 15 | 5 | 60 | 6 | ☑ |
| 4RCU-060-003-150 | 6 | R 0,3 | 15 | 6 | 60 | 6 | ☑ |
| 4RCU-060-005-150 | | R 0,5 | 15 | 6 | 60 | 6 | ☑ |
| 4RCU-060-010-150 | | R 1 | 15 | 6 | 60 | 6 | ☑ |
| 4RCU-060-015-150 | | R 1,5 | 15 | 6 | 60 | 6 | ☑ |
| 4RCU-080-003-160 | 8 | R 0,3 | 16 | 8 | 60 | 8 | ☑ |
| 4RCU-080-005-160 | | R 0,5 | 16 | 8 | 60 | 8 | ☑ |
| 4RCU-080-005-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4RCU-080-005-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4RCU-080-010-160 | | R 1 | 16 | 8 | 60 | 8 | ☑ |
| 4RCU-080-010-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4RCU-080-010-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4RCU-080-020-160 | | R 2 | 16 | 8 | 60 | 8 | ☑ |
| 4RCU-080-020-200 | | | 20 | 8 | 80 | 8 | ☑ |
| 4RCU-080-020-300 | | | 30 | 8 | 110 | 8 | ☑ |
| 4RCU-100-003-200 | 10 | R 0,3 | 20 | 10 | 70 | 10 | ☑ |
| 4RCU-100-005-200 | | R 0,5 | 20 | 10 | 70 | 10 | ☑ |
| 4RCU-100-005-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4RCU-100-005-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4RCU-100-010-200 | | R 1 | 20 | 10 | 70 | 10 | ☑ |
| 4RCU-100-010-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4RCU-100-010-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4RCU-100-020-200 | | R 2 | 20 | 10 | 70 | 10 | ☑ |
| 4RCU-100-020-250 | | | 25 | 10 | 90 | 10 | ☑ |
| 4RCU-100-020-300 | | | 30 | 10 | 120 | 10 | ☑ |
| 4RCU-120-005-250 | 12 | R 0,5 | 25 | 12 | 80 | 12 | ☑ |
| 4RCU-120-005-300 | | | 30 | 12 | 100 | 12 | ☑ |
| 4RCU-120-005-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4RCU-120-010-250 | | R 1 | 25 | 12 | 80 | 12 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4RCU-120-010-300 | 12 | R 1 | 30 | 12 | 100 | 12 | ☑ |
| 4RCU-120-010-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4RCU-120-020-250 | | R 2 | 25 | 12 | 80 | 12 | ☑ |
| 4RCU-120-020-300 | | | 30 | 12 | 100 | 12 | ☑ |
| 4RCU-120-020-350 | | | 35 | 12 | 130 | 12 | ☑ |
| 4RCU-120-030-250 | | R 3 | 25 | 12 | 80 | 12 | ☑ |
| 4RCU-160-010-300 | 16 | R 1 | 30 | 16 | 110 | 16 | ☑ |
| 4RCU-160-010-400 | | | 40 | 16 | 160 | 16 | ☑ |
| 4RCU-160-020-300 | | R 2 | 30 | 16 | 110 | 16 | ☑ |
| 4RCU-160-020-400 | | | 40 | 16 | 160 | 16 | ☑ |

◀ zpět na obsah

# 2CTB 2-břité KUŽELOVÉ kulové frézy pro kalené oceli do HRC 55




- Určeno pro kalené oceli (45–55 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Zesílená řezná hrana pro minimalizaci vyštipování
- Vynikající výkon při vysokých řezných rychlostech díky 0,5 µm tvrdokovu

| 2 | 30° | D≤3 | D≥3 | ±0,005 | ±0,01 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|---|
| | | -0,01 / -0,025 | -0,015 / -0,03 | R0,2 - R1,5 | R1,5 - R3 | 0,5 µm | TiSiN |

NOVINKA

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CTB-002-010-015 | 0,2 | R 0,1 | 1° | 1,5 | 40 | 4 | ☑ |
| 2CTB-002-020-015 | | | 2° | 1,5 | 40 | 4 | ☑ |
| 2CTB-002-030-015 | | | 3° | 1,5 | 40 | 4 | ☑ |
| 2CTB-002-050-015 | | | 5° | 1,5 | 40 | 4 | ☑ |
| 2CTB-002-070-015 | | | 7° | 1,5 | 40 | 4 | ☑ |
| 2CTB-002-100-015 | | | 10° | 1,5 | 40 | 4 | ☑ |
| 2CTB-003-010-020 | 0,3 | R 0,15 | 1° | 2 | 40 | 4 | ☑ |
| 2CTB-003-020-020 | | | 2° | 2 | 40 | 4 | ☑ |
| 2CTB-003-030-020 | | | 3° | 2 | 40 | 4 | ☑ |
| 2CTB-003-050-020 | | | 5° | 2 | 40 | 4 | ☑ |
| 2CTB-003-070-020 | | | 7° | 2 | 40 | 4 | ☑ |
| 2CTB-003-100-020 | | | 10° | 2 | 40 | 4 | ☑ |
| 2CTB-003-150-020 | | | 15° | 2 | 40 | 4 | ☑ |
| 2CTB-004-010-030 | 0,4 | R 0,2 | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-004-020-030 | | | 2° | 3 | 40 | 4 | ☑ |
| 2CTB-004-030-030 | | | 3° | 3 | 40 | 4 | ☑ |
| 2CTB-004-040-030 | | | 4° | 3 | 40 | 4 | ☑ |
| 2CTB-004-050-030 | | | 5° | 3 | 40 | 4 | ☑ |
| 2CTB-004-070-030 | | | 7° | 3 | 40 | 4 | ☑ |
| 2CTB-004-100-030 | | | 10° | 3 | 40 | 4 | ☑ |
| 2CTB-004-150-030 | | | 15° | 3 | 40 | 4 | ☑ |
| 2CTB-005-010-030 | 0,5 | | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-005-020-030 | | R 0,25 | 2° | 3 | 40 | 4 | ☑ |
| 2CTB-005-030-030 | | | 3° | 3 | 40 | 4 | ☑ |
| 2CTB-005-040-035 | | | 4° | 3,5 | 40 | 4 | ☑ |
| 2CTB-005-050-035 | | | 5° | 3,5 | 40 | 4 | ☑ |
| 2CTB-005-070-035 | | | 7° | 3,5 | 40 | 4 | ☑ |
| 2CTB-005-100-035 | | | 10° | 3,5 | 40 | 4 | ☑ |
| 2CTB-005-150-035 | | | 15° | 3,5 | 40 | 4 | ☑ |
| 2CTB-006-010-030 | 0,6 | R 0,3 | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-006-020-030 | | | 2° | 3 | 40 | 4 | ☑ |
| 2CTB-006-030-030 | | | 3° | 3 | 40 | 4 | ☑ |
| 2CTB-006-040-035 | | | 4° | 3,5 | 40 | 4 | ☑ |
| 2CTB-006-050-035 | | | 5° | 3,5 | 40 | 4 | ☑ |
| 2CTB-006-070-035 | | | 7° | 3,5 | 40 | 4 | ☑ |
| 2CTB-006-100-035 | | | 10° | 3,5 | 40 | 4 | ☑ |
| 2CTB-006-150-035 | | | 15° | 3,5 | 40 | 4 | ☑ |
| 2CTB-007-010-030 | 0,7 | R 0,35 | 1° | 3 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CTB-007-020-030 | 0,7 | R 0,35 | 2° | 3 | 40 | 4 | ☑ |
| 2CTB-007-030-040 | | | 3° | 4 | 40 | 4 | ☑ |
| 2CTB-007-050-040 | | | 5° | 4 | 40 | 4 | ☑ |
| 2CTB-007-070-040 | | | 7° | 4 | 40 | 4 | ☑ |
| 2CTB-007-100-040 | | | 10° | 4 | 40 | 4 | ☑ |
| 2CTB-007-150-040 | | | 15° | 4 | 40 | 4 | ☑ |
| 2CTB-008-010-030 | 0,8 | R 0,4 | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-008-020-030 | | | 2° | 3 | 40 | 4 | ☑ |
| 2CTB-008-030-030 | | | 3° | 3 | 40 | 4 | ☑ |
| 2CTB-008-040-040 | | | 4° | 4 | 40 | 4 | ☑ |
| 2CTB-008-050-040 | | | 5° | 4 | 40 | 4 | ☑ |
| 2CTB-008-070-040 | | | 7° | 4 | 40 | 4 | ☑ |
| 2CTB-008-100-040 | | | 10° | 4 | 40 | 4 | ☑ |
| 2CTB-008-150-040 | | | 15° | 4 | 40 | 4 | ☑ |
| 2CTB-010-003-030 | 1 | R 0,5 | 0°30′ | 3 | 40 | 4 | ☑ |
| 2CTB-010-010-030 | | | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-010-013-040 | | | 1°30′ | 4 | 40 | 4 | ☑ |
| 2CTB-010-020-040 | | | 2° | 4 | 40 | 4 | ☑ |
| 2CTB-010-030-040 | | | 3° | 4 | 40 | 4 | ☑ |
| 2CTB-010-040-060 | | | 4° | 6 | 45 | 4 | ☑ |
| 2CTB-010-050-060 | | | 5° | 6 | 45 | 4 | ☑ |
| 2CTB-010-070-060 | | | 7° | 6 | 45 | 4 | ☑ |
| 2CTB-010-100-060 | | | 10° | 6 | 45 | 4 | ☑ |
| 2CTB-010-150-056 | | | 15° | 5,6 | 45 | 4 | ☑ |
| 2CTB-012-003-030 | 1,2 | R 0,6 | 0°30 | 3 | 40 | 4 | ☑ |
| 2CTB-012-010-030 | | | 1° | 3 | 40 | 4 | ☑ |
| 2CTB-012-013-040 | | | 1°30 | 4 | 40 | 4 | ☑ |
| 2CTB-012-020-040 | | | 2° | 4 | 40 | 4 | ☑ |
| 2CTB-012-030-040 | | | 3° | 4 | 40 | 4 | ☑ |
| 2CTB-012-040-060 | | | 4° | 6 | 45 | 4 | ☑ |
| 2CTB-012-050-060 | | | 5° | 6 | 45 | 4 | ☑ |
| 2CTB-012-070-060 | | | 7° | 6 | 45 | 4 | ☑ |
| 2CTB-012-100-060 | | | 10° | 6 | 45 | 4 | ☑ |
| 2CTB-012-150-050 | | | 15° | 5 | 45 | 4 | ☑ |
| 2CTB-015-003-060 | 1,5 | R 0,75 | 0°30′ | 6 | 45 | 4 | ☑ |
| 2CTB-015-010-060 | | | 1° | 6 | 45 | 4 | ☑ |
| 2CTB-015-013-060 | | | 1°30′ | 6 | 45 | 4 | ☑ |
| 2CTB-015-020-060 | | | 2° | 6 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2CTB 2-břité KUŽELOVÉ kulové frézy pro kalené oceli do HRC 55

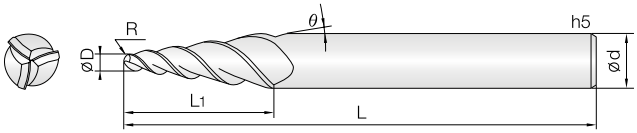
NOVINKA

| Objednací číslo | D (mm) | R (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CTB-015-030-060 | 1,5 | R 0,75 | 3° | 6 | 45 | 4 | ☑ |
| 2CTB-015-040-060 | | | 4° | 6 | 45 | 4 | ☑ |
| 2CTB-015-050-060 | | | 5° | 6 | 45 | 4 | ☑ |
| 2CTB-015-070-060 | | | 7° | 6 | 45 | 4 | ☑ |
| 2CTB-015-100-060 | | | 10° | 6 | 45 | 4 | ☑ |
| 2CTB-015-150-060 | | | 15° | 6 | 50 | 6 | ☑ |
| 2CTB-020-003-080 | 2 | R 1 | 0°30′ | 8 | 45 | 4 | ☑ |
| 2CTB-020-010-080 | | | 1° | 8 | 45 | 4 | ☑ |
| 2CTB-020-013-080 | | | 1°30′ | 8 | 45 | 4 | ☑ |
| 2CTB-020-020-080 | | | 2° | 8 | 45 | 4 | ☑ |
| 2CTB-020-030-080 | | | 3° | 8 | 45 | 4 | ☑ |
| 2CTB-020-040-080 | | | 4° | 8 | 45 | 4 | ☑ |
| 2CTB-020-050-080 | | | 5° | 8 | 45 | 4 | ☑ |
| 2CTB-020-070-080 | | | 7° | 8 | 45 | 4 | ☑ |
| 2CTB-020-100-080 | | | 10° | 8 | 50 | 6 | ☑ |
| 2CTB-020-150-080 | | | 15° | 8 | 50 | 6 | ☑ |
| 2CTB-030-003-120 | 3 | R 1,5 | 0°30′ | 12 | 60 | 6 | ☑ |
| 2CTB-030-010-120 | | | 1° | 12 | 60 | 6 | ☑ |
| 2CTB-030-013-120 | | | 1°30′ | 12 | 60 | 6 | ☑ |
| 2CTB-030-020-120 | | | 2° | 12 | 60 | 6 | ☑ |
| 2CTB-030-030-120 | | | 3° | 12 | 60 | 6 | ☑ |
| 2CTB-030-040-120 | | | 4° | 12 | 60 | 6 | ☑ |
| 2CTB-030-050-120 | | | 5° | 12 | 60 | 6 | ☑ |
| 2CTB-030-070-120 | | | 7° | 12 | 60 | 6 | ☑ |
| 2CTB-030-100-120 | | | 10° | 12 | 60 | 8 | ☑ |
| 2CTB-030-150-120 | | | 15° | 12 | 70 | 10 | ☑ |
| 2CTB-040-003-160 | 4 | R 2 | 0°30′ | 16 | 70 | 8 | ☑ |
| 2CTB-040-010-160 | | | 1° | 16 | 70 | 8 | ☑ |
| 2CTB-040-013-160 | | | 1°30′ | 16 | 70 | 8 | ☑ |
| 2CTB-040-020-160 | | | 2° | 16 | 70 | 8 | ☑ |
| 2CTB-040-030-160 | | | 3° | 16 | 70 | 8 | ☑ |
| 2CTB-040-040-160 | | | 4° | 16 | 70 | 8 | ☑ |
| 2CTB-040-050-160 | | | 5° | 16 | 70 | 8 | ☑ |
| 2CTB-040-070-160 | | | 7° | 16 | 70 | 8 | ☑ |
| 2CTB-040-100-160 | | | 10° | 16 | 70 | 10 | ☑ |
| 2CTB-040-150-160 | | | 15° | 16 | 80 | 12 | ☑ |
| 2CTB-050-003-200 | 5 | R 2,5 | 0°30′ | 20 | 75 | 8 | ☑ |
| 2CTB-050-010-200 | | | 1° | 20 | 75 | 8 | ☑ |
| 2CTB-050-013-200 | | | 1°30′ | 20 | 75 | 8 | ☑ |
| 2CTB-050-020-200 | | | 2° | 20 | 75 | 8 | ☑ |
| 2CTB-050-030-200 | | | 3° | 20 | 75 | 8 | ☑ |
| 2CTB-050-040-200 | | | 4° | 20 | 75 | 8 | ☑ |
| 2CTB-050-050-200 | | | 5° | 20 | 80 | 10 | ☑ |
| 2CTB-050-070-200 | | | 7° | 20 | 80 | 10 | ☑ |
| 2CTB-060-003-240 | 6 | R 3 | 0°30′ | 24 | 80 | 10 | ☑ |
| 2CTB-060-010-240 | | | 1° | 24 | 80 | 10 | ☑ |
| 2CTB-060-013-240 | | | 1°30′ | 24 | 80 | 10 | ☑ |
| 2CTB-060-020-240 | 6 | R 3 | 2° | 24 | 80 | 10 | ☑ |
| 2CTB-060-030-240 | | | 3° | 24 | 80 | 10 | ☑ |
| 2CTB-060-040-240 | | | 4° | 24 | 80 | 10 | ☑ |
| 2CTB-060-050-240 | | | 5° | 24 | 90 | 12 | ☑ |
| 2CTB-060-070-240 | | | 7° | 24 | 90 | 12 | ☑ |

◀ zpět na obsah

# 3TBIC

## 3-břité KUŽELOVÉ kulové frézy pro výrobu rotorů, turbín a kompresorových kol




- Určeno pro obrábění ocelí, korozivzdorných ocelí, litiny, slitin hliníku a pro superslitiny (Inconel, ...)
- Zvýšená odolnost proti opotřebení díky novému AlCrN povlaku
- Vhodné pro tvarové obrábění rotorů, lopatek turbín, kompresorových kol a profilů pneumatik
- Možnost hrubování a dokončování jedním nástrojem

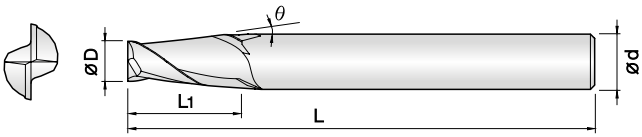
3 | 35° | D≥6 +0,01/-0,01 | ±0,005 R0,5 - R1 | ±0,01 R2 - R3 | Tvrdokov MG | Povlak ALCrN

| Objednací-číslo | D (mm) | R (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3TBIC-010-010-120 | 1 | R 0,5 | 1 | 12 | 50 | 6 | ☑ |
| 3TBIC-010-010-200 | | R 0,5 | 1 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-020-150 | | R 0,5 | 2 | 15 | 55 | 6 | ☑ |
| 3TBIC-010-020-200 | | R 0,5 | 2 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-030-150 | | R 0,5 | 3 | 15 | 55 | 6 | ☑ |
| 3TBIC-010-030-200 | | R 0,5 | 3 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-040-200 | | R 0,5 | 4 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-050-200 | | R 0,5 | 5 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-060-200 | | R 0,5 | 6 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-070-200 | | R 0,5 | 7 | 20 | 60 | 6 | ☑ |
| 3TBIC-010-080-180 | | R 0,5 | 8 | 18 | 60 | 6 | ☑ |
| 3TBIC-020-010-120 | 2 | R 1 | 1 | 12 | 50 | 6 | ☑ |
| 3TBIC-020-010-200 | | R 1 | 1 | 20 | 60 | 6 | ☑ |
| 3TBIC-020-020-150 | | R 1 | 2 | 15 | 55 | 6 | ☑ |
| 3TBIC-020-020-200 | | R 1 | 2 | 20 | 60 | 6 | ☑ |
| 3TBIC-020-030-150 | | R 1 | 3 | 15 | 55 | 6 | ☑ |
| 3TBIC-020-030-200 | | R 1 | 3 | 20 | 60 | 6 | ☑ |
| 3TBIC-020-030-300 | | R 1 | 3 | 30 | 70 | 6 | ☑ |
| 3TBIC-020-040-200 | | R 1 | 4 | 20 | 60 | 6 | ☑ |
| 3TBIC-020-050-200 | | R 1 | 5 | 20 | 60 | 6 | ☑ |
| 3TBIC-020-050-300 | | R 1 | 5 | 30 | 75 | 8 | ☑ |
| 3TBIC-020-060-190 | | R 1 | 6 | 19 | 60 | 6 | ☑ |
| 3TBIC-020-060-290 | | R 1 | 6 | 29 | 75 | 8 | ☑ |
| 3TBIC-020-070-160 | | R 1 | 7 | 16 | 60 | 6 | ☑ |
| 3TBIC-020-070-250 | | R 1 | 7 | 25 | 70 | 8 | ☑ |
| 3TBIC-020-080-150 | | R 1 | 8 | 15 | 60 | 6 | ☑ |
| 3TBIC-020-080-220 | | R 1 | 8 | 22 | 70 | 8 | ☑ |
| 3TBIC-030-010-200 | 3 | R 1,5 | 1 | 20 | 60 | 6 | ☑ |
| 3TBIC-030-010-320 | | R 1,5 | 1 | 32 | 75 | 6 | ☑ |
| 3TBIC-030-020-200 | | R 1,5 | 2 | 20 | 60 | 6 | ☑ |
| 3TBIC-030-030-200 | | R 1,5 | 3 | 20 | 60 | 6 | ☑ |
| 3TBIC-030-030-300 | | R 1,5 | 3 | 30 | 70 | 6 | ☑ |
| 3TBIC-030-030-390 | | R 1,5 | 3 | 39 | 80 | 8 | ☑ |
| 3TBIC-030-040-200 | | R 1,5 | 4 | 20 | 65 | 6 | ☑ |
| 3TBIC-030-050-180 | | R 1,5 | 5 | 18 | 60 | 6 | ☑ |
| 3TBIC-030-050-300 | | R 1,5 | 5 | 30 | 75 | 8 | ☑ |
| 3TBIC-030-060-150 | | R 1,5 | 6 | 15 | 60 | 6 | ☑ |
| 3TBIC-030-060-250 | | R 1,5 | 6 | 25 | 70 | 8 | ☑ |

| Objednací-číslo | D (mm) | R (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3TBIC-030-070-190 | 3 | R 1,5 | 7 | 19 | 70 | 8 | ☑ |
| 3TBIC-030-070-300 | | R 1,5 | 7 | 30 | 80 | 10 | ☑ |
| 3TBIC-030-080-190 | | R 1,5 | 8 | 19 | 70 | 8 | ☑ |
| 3TBIC-030-080-260 | | R 1,5 | 8 | 26 | 75 | 10 | ☑ |
| 3TBIC-040-010-200 | 4 | R 2 | 1 | 20 | 60 | 6 | ☑ |
| 3TBIC-040-010-320 | | R 2 | 1 | 32 | 75 | 6 | ☑ |
| 3TBIC-040-020-200 | | R 2 | 2 | 20 | 60 | 6 | ☑ |
| 3TBIC-040-020-300 | | R 2 | 2 | 30 | 70 | 6 | ☑ |
| 3TBIC-040-030-210 | | R 2 | 3 | 21 | 70 | 6 | ☑ |
| 3TBIC-040-030-320 | | R 2 | 3 | 32 | 80 | 8 | ☑ |
| 3TBIC-040-030-400 | | R 2 | 3 | 40 | 90 | 8 | ☑ |
| 3TBIC-040-040-200 | | R 2 | 4 | 20 | 70 | 8 | ☑ |
| 3TBIC-040-040-300 | | R 2 | 4 | 30 | 75 | 8 | ☑ |
| 3TBIC-040-050-200 | | R 2 | 5 | 20 | 70 | 8 | ☑ |
| 3TBIC-040-050-320 | | R 2 | 5 | 32 | 80 | 10 | ☑ |
| 3TBIC-040-060-200 | | R 2 | 6 | 20 | 70 | 8 | ☑ |
| 3TBIC-040-060-300 | | R 2 | 6 | 30 | 80 | 10 | ☑ |
| 3TBIC-040-070-180 | | R 2 | 7 | 18 | 70 | 8 | ☑ |
| 3TBIC-040-070-260 | | R 2 | 7 | 26 | 80 | 10 | ☑ |
| 3TBIC-040-080-230 | | R 2 | 8 | 23 | 75 | 10 | ☑ |
| 3TBIC-060-010-320 | 6 | R 3 | 1 | 32 | 75 | 8 | ☑ |
| 3TBIC-060-020-300 | | R 3 | 2 | 30 | 75 | 8 | ☑ |
| 3TBIC-060-030-220 | | R 3 | 3 | 22 | 75 | 8 | ☑ |
| 3TBIC-060-030-320 | | R 3 | 3 | 32 | 80 | 10 | ☑ |
| 3TBIC-060-030-400 | | R 3 | 3 | 40 | 90 | 10 | ☑ |
| 3TBIC-060-040-250 | | R 3 | 4 | 25 | 75 | 10 | ☑ |
| 3TBIC-060-040-310 | | R 3 | 4 | 31 | 80 | 10 | ☑ |
| 3TBIC-060-050-210 | | R 3 | 5 | 21 | 75 | 10 | ☑ |
| 3TBIC-060-050-320 | | R 3 | 5 | 32 | 80 | 12 | ☑ |
| 3TBIC-060-060-210 | | R 3 | 6 | 21 | 75 | 10 | ☑ |
| 3TBIC-060-060-310 | | R 3 | 6 | 31 | 80 | 12 | ☑ |
| 3TBIC-060-070-190 | | R 3 | 7 | 19 | 75 | 10 | ☑ |
| 3TBIC-060-070-270 | | R 3 | 7 | 27 | 80 | 12 | ☑ |

◀ zpět na obsah

# 2CTE 2-břité KUŽELOVÉ ostré frézy pro kalené oceli do HRC 55




- Určeno pro kalené oceli (45–55 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Zesílená řezná hrana pro minimalizaci vyštipování
- Vynikající výkon při vysokých řezných rychlostech díky 0,5 µm tvrdokovu

| 2 | 30° | D≤4 | D≥6 | Tvrdokov | Povlak |
|---|---|---|---|---|---|
| | | 0 / - 0,01 | -0,01 / - 0,025 | 0,5 µm | TiSiN |

NOVINKA

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2CTE-002-003-010 | 0,2 | 0°30′ | 1 | 40 | 4 | ☑ |
| 2CTE-002-010-010 | | 1° | 1 | 40 | 4 | ☑ |
| 2CTE-002-013-010 | | 1°30′ | 1 | 40 | 4 | ☑ |
| 2CTE-002-020-010 | | 2° | 1 | 40 | 4 | ☑ |
| 2CTE-002-030-010 | | 3° | 1 | 40 | 4 | ☑ |
| 2CTE-002-050-010 | | 5° | 1 | 40 | 4 | ☑ |
| 2CTE-002-070-010 | | 7° | 1 | 40 | 4 | ☑ |
| 2CTE-002-100-010 | | 10° | 1 | 40 | 4 | ☑ |
| 2CTE-002-150-010 | | 15° | 1 | 40 | 4 | ☑ |
| 2CTE-003-003-012 | 0,3 | 0°30′ | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-010-012 | | 1° | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-013-012 | | 1°30′ | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-020-012 | | 2° | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-030-012 | | 3° | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-050-012 | | 5° | 1,2 | 40 | 4 | ☑ |
| 2CTE-003-070-015 | | 7° | 1,5 | 40 | 4 | ☑ |
| 2CTE-003-100-015 | | 10° | 1,5 | 40 | 4 | ☑ |
| 2CTE-003-150-015 | | 15° | 1,5 | 40 | 4 | ☑ |
| 2CTE-004-003-016 | 0,4 | 0°30′ | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-010-016 | | 1° | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-013-016 | | 1°30′ | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-020-016 | | 2° | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-030-016 | | 3° | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-050-016 | | 5° | 1,6 | 40 | 4 | ☑ |
| 2CTE-004-070-020 | | 7° | 2 | 40 | 4 | ☑ |
| 2CTE-004-100-020 | | 10° | 2 | 40 | 4 | ☑ |
| 2CTE-004-150-020 | | 15° | 2 | 40 | 4 | ☑ |
| 2CTE-005-003-020 | 0,5 | 0°30′ | 2 | 40 | 4 | ☑ |
| 2CTE-005-010-020 | | 1° | 2 | 40 | 4 | ☑ |
| 2CTE-005-013-020 | | 1°30′ | 2 | 40 | 4 | ☑ |
| 2CTE-005-020-020 | | 2° | 2 | 40 | 4 | ☑ |
| 2CTE-005-030-020 | | 3° | 2 | 40 | 4 | ☑ |
| 2CTE-005-050-020 | | 5° | 2 | 40 | 4 | ☑ |
| 2CTE-005-070-025 | | 7° | 2,5 | 40 | 4 | ☑ |
| 2CTE-005-100-025 | | 10° | 2,5 | 40 | 4 | ☑ |
| 2CTE-005-150-025 | | 15° | 2,5 | 40 | 4 | ☑ |
| 2CTE-005-200-025 | | 20° | 2,5 | 40 | 4 | ☑ |
| 2CTE-006-003-020 | 0,6 | 0°30′ | 2 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2CTE-006-003-020 | 0,6 | 1° | 2 | 40 | 4 | ☑ |
| 2CTE-006-013-020 | | 1°30′ | 2 | 40 | 4 | ☑ |
| 2CTE-006-020-020 | | 2° | 2 | 40 | 4 | ☑ |
| 2CTE-006-030-020 | | 3° | 2 | 40 | 4 | ☑ |
| 2CTE-006-050-020 | | 5° | 2 | 40 | 4 | ☑ |
| 2CTE-006-070-025 | | 7° | 2,5 | 40 | 4 | ☑ |
| 2CTE-006-100-025 | | 10° | 2,5 | 40 | 4 | ☑ |
| 2CTE-006-150-025 | | 15° | 2,5 | 40 | 4 | ☑ |
| 2CTE-006-200-025 | | 20° | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-010-025 | 0,7 | 1° | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-013-025 | | 1°30′ | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-020-025 | | 2° | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-030-025 | | 3° | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-050-025 | | 5° | 2,5 | 40 | 4 | ☑ |
| 2CTE-007-070-030 | | 7° | 3 | 40 | 4 | ☑ |
| 2CTE-007-100-030 | | 10° | 3 | 40 | 4 | ☑ |
| 2CTE-007-150-030 | | 15° | 3 | 40 | 4 | ☑ |
| 2CTE-007-200-030 | | 20° | 3 | 40 | 4 | ☑ |
| 2CTE-008-003-030 | 0,8 | 0°30′ | 3 | 40 | 4 | ☑ |
| 2CTE-008-010-030 | | 1° | 3 | 40 | 4 | ☑ |
| 2CTE-008-013-030 | | 1°30′ | 3 | 40 | 4 | ☑ |
| 2CTE-008-020-030 | | 2° | 3 | 40 | 4 | ☑ |
| 2CTE-008-030-030 | | 3° | 3 | 40 | 4 | ☑ |
| 2CTE-008-050-030 | | 5° | 3 | 40 | 4 | ☑ |
| 2CTE-008-070-030 | | 7° | 3 | 40 | 4 | ☑ |
| 2CTE-008-100-030 | | 10° | 3 | 40 | 4 | ☑ |
| 2CTE-008-150-030 | | 15° | 3 | 40 | 4 | ☑ |
| 2CTE-008-200-030 | | 20° | 3 | 40 | 4 | ☑ |
| 2CTE-010-003-040 | 1 | 0°30′ | 4 | 45 | 4 | ☑ |
| 2CTE-010-010-040 | | 1° | 4 | 45 | 4 | ☑ |
| 2CTE-010-013-040 | | 1°30′ | 4 | 45 | 4 | ☑ |
| 2CTE-010-020-040 | | 2° | 4 | 45 | 4 | ☑ |
| 2CTE-010-030-040 | | 3° | 4 | 45 | 4 | ☑ |
| 2CTE-010-050-040 | | 5° | 4 | 45 | 4 | ☑ |
| 2CTE-010-070-040 | | 7° | 4 | 45 | 4 | ☑ |
| 2CTE-010-100-040 | | 10° | 4 | 45 | 4 | ☑ |
| 2CTE-010-150-040 | | 15° | 4 | 50 | 4 | ☑ |
| 2CTE-010-200-040 | | 20° | 4 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2CTE 2-břité KUŽELOVÉ ostré frézy pro kalené oceli do HRC 55

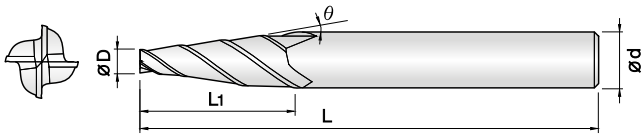
NOVINKA

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2CTE-015-003-050 | 1,5 | 0°30′ | 5 | 45 | 4 | ☑ |
| 2CTE-015-010-050 | | 1° | 5 | 45 | 4 | ☑ |
| 2CTE-015-013-060 | | 1°30′ | 6 | 45 | 4 | ☑ |
| 2CTE-015-020-070 | | 2° | 7 | 45 | 4 | ☑ |
| 2CTE-015-030-080 | | 3° | 8 | 45 | 4 | ☑ |
| 2CTE-015-050-100 | | 5° | 10 | 50 | 4 | ☑ |
| 2CTE-015-070-100 | | 7° | 10 | 50 | 4 | ☑ |
| 2CTE-015-100-100 | | 10° | 10 | 50 | 6 | ☑ |
| 2CTE-015-150-060 | | 15° | 6 | 50 | 6 | ☑ |
| 2CTE-015-200-060 | | 20° | 6 | 50 | 6 | ☑ |
| 2CTE-020-003-060 | 2 | 0°30′ | 6 | 45 | 4 | ☑ |
| 2CTE-020-010-060 | | 1° | 6 | 45 | 4 | ☑ |
| 2CTE-020-013-060 | | 1°30′ | 6 | 45 | 4 | ☑ |
| 2CTE-020-020-080 | | 2° | 8 | 45 | 4 | ☑ |
| 2CTE-020-030-100 | | 3° | 10 | 50 | 4 | ☑ |
| 2CTE-020-050-100 | | 5° | 10 | 50 | 4 | ☑ |
| 2CTE-020-070-100 | | 7° | 10 | 50 | 6 | ☑ |
| 2CTE-020-100-110 | | 10° | 11 | 50 | 6 | ☑ |
| 2CTE-020-150-070 | | 15° | 7 | 50 | 6 | ☑ |
| 2CTE-020-200-070 | | 20° | 7 | 50 | 8 | ☑ |
| 2CTE-025-003-080 | 2,5 | 0°30′ | 8 | 45 | 6 | ☑ |
| 2CTE-025-010-100 | | 1° | 10 | 50 | 6 | ☑ |
| 2CTE-025-013-100 | | 1°30′ | 10 | 50 | 6 | ☑ |
| 2CTE-025-020-120 | | 2° | 12 | 50 | 6 | ☑ |
| 2CTE-025-030-120 | | 3° | 12 | 50 | 6 | ☑ |
| 2CTE-025-050-120 | 2,5 | 5° | 12 | 50 | 6 | ☑ |
| 2CTE-025-070-120 | | 7° | 12 | 50 | 6 | ☑ |
| 2CTE-025-100-100 | | 10° | 10 | 50 | 6 | ☑ |
| 2CTE-025-150-100 | | 15° | 10 | 60 | 6 | ☑ |
| 2CTE-025-200-100 | | 20° | 10 | 70 | 8 | ☑ |
| 2CTE-030-003-120 | 3 | 0°30′ | 12 | 50 | 10 | ☑ |
| 2CTE-030-010-120 | | 1° | 12 | 50 | 6 | ☑ |
| 2CTE-030-013-120 | | 1°30′ | 12 | 50 | 6 | ☑ |
| 2CTE-030-020-120 | | 2° | 12 | 50 | 6 | ☑ |
| 2CTE-030-030-120 | | 3° | 12 | 50 | 6 | ☑ |
| 2CTE-030-050-120 | | 5° | 12 | 50 | 6 | ☑ |
| 2CTE-030-070-120 | | 7° | 12 | 50 | 6 | ☑ |
| 2CTE-030-100-080 | | 10° | 8 | 50 | 6 | ☑ |
| 2CTE-030-150-090 | | 15° | 9 | 60 | 8 | ☑ |
| 2CTE-030-200-090 | | 20° | 9 | 70 | 10 | ☑ |
| 2CTE-040-003-150 | 4 | 0°30′ | 15 | 60 | 6 | ☑ |
| 2CTE-040-010-150 | | 1° | 15 | 60 | 6 | ☑ |
| 2CTE-040-013-150 | | 1°30′ | 15 | 60 | 6 | ☑ |
| 2CTE-040-020-150 | | 2° | 15 | 60 | 6 | ☑ |
| 2CTE-040-030-180 | | 3° | 18 | 60 | 6 | ☑ |
| 2CTE-040-050-230 | | 5° | 23 | 65 | 8 | ☑ |
| 2CTE-040-070-240 | | 7° | 24 | 75 | 10 | ☑ |
| 2CTE-040-100-220 | | 10° | 22 | 75 | 12 | ☑ |
| 2CTE-060-003-200 | 6 | 0°30′ | 20 | 65 | 8 | ☑ |
| 2CTE-060-010-200 | | 1° | 20 | 65 | 8 | ☑ |
| 2CTE-060-013-200 | | 1°30′ | 20 | 65 | 8 | ☑ |
| 2CTE-060-020-200 | | 2° | 20 | 65 | 8 | ☑ |

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2CTE-060-030-190 | 6 | 3° | 19 | 65 | 8 | ☑ |
| 2CTE-060-050-230 | | 5° | 23 | 75 | 10 | ☑ |
| 2CTE-060-070-240 | | 7° | 24 | 75 | 12 | ☑ |
| 2CTE-060-100-170 | | 10° | 17 | 75 | 12 | ☑ |
| 2CTE-070-003-250 | 7 | 0°30′ | 25 | 70 | 8 | ☑ |
| 2CTE-070-010-250 | | 1° | 25 | 70 | 8 | ☑ |
| 2CTE-070-013-250 | | 1°30′ | 25 | 70 | 10 | ☑ |
| 2CTE-070-030-280 | | 3° | 28 | 80 | 10 | ☑ |
| 2CTE-070-050-280 | | 5° | 28 | 80 | 12 | ☑ |
| 2CTE-080-003-320 | 8 | 0°30′ | 32 | 90 | 10 | ☑ |
| 2CTE-080-010-350 | | 1° | 35 | 90 | 10 | ☑ |
| 2CTE-080-013-350 | | 1°30′ | 35 | 90 | 10 | ☑ |
| 2CTE-080-020-280 | | 2° | 28 | 75 | 10 | ☑ |
| 2CTE-080-030-350 | | 3° | 35 | 90 | 12 | ☑ |
| 2CTE-080-050-450 | | 5° | 45 | 100 | 16 | ☑ |
| 2CTE-080-070-320 | | 7° | 32 | 90 | 16 | ☑ |
| 2CTE-080-100-340 | | 10° | 34 | 100 | 20 | ☑ |

◀ zpět na obsah

# 4CTE 4-břité KUŽELOVÉ ostré frézy pro kalené oceli do HRC 55




- Určeno pro kalené oceli (45–55 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Zesílená řezná hrana pro minimalizaci vyštipování
- Vynikající výkon při vysokých řezných rychlostech díky 0,5 µm tvrdokovu

4 | 30° | D≤5 0 / - 0,01 | D≥6 -0,01 / - 0,025 | Tvrdokov 0,5 µm | Povlak TiSiN

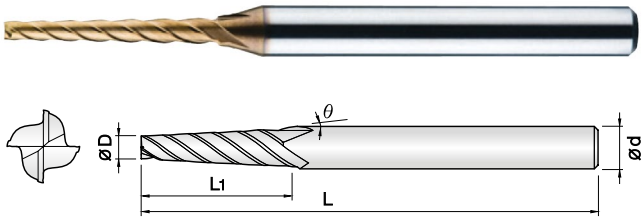
NOVINKA

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4CTE-030-003-110 | 3 | 0°30′ | 11 | 50 | 6 | ☑ |
| 4CTE-030-010-110 | | 1° | 11 | 50 | 6 | ☑ |
| 4CTE-030-013-110 | | 1°30′ | 11 | 50 | 6 | ☑ |
| 4CTE-030-020-150 | | 2° | 15 | 60 | 6 | ☑ |
| 4CTE-030-023-150 | | 2°30′ | 15 | 60 | 6 | ☑ |
| 4CTE-030-030-150 | | 3° | 15 | 60 | 6 | ☑ |
| 4CTE-030-050-150 | | 5° | 15 | 60 | 6 | ☑ |
| 4CTE-030-070-120 | | 7° | 12 | 60 | 6 | ☑ |
| 4CTE-030-100-190 | | 10° | 19 | 80 | 10 | ☑ |
| 4CTE-040-003-150 | 4 | 0°30′ | 15 | 60 | 6 | ☑ |
| 4CTE-040-010-150 | | 1° | 15 | 60 | 6 | ☑ |
| 4CTE-040-013-150 | | 1°30′ | 15 | 60 | 6 | ☑ |
| 4CTE-040-020-180 | | 2° | 18 | 60 | 6 | ☑ |
| 4CTE-040-023-180 | | 2°30′ | 18 | 60 | 6 | ☑ |
| 4CTE-040-030-180 | | 3° | 18 | 60 | 6 | ☑ |
| 4CTE-040-050-230 | | 5° | 23 | 65 | 8 | ☑ |
| 4CTE-040-070-250 | | 7° | 25 | 75 | 10 | ☑ |
| 4CTE-050-003-180 | 5 | 0°30′ | 18 | 60 | 6 | ☑ |
| 4CTE-050-010-180 | | 1° | 18 | 60 | 6 | ☑ |
| 4CTE-050-013-180 | | 1°30′ | 18 | 60 | 6 | ☑ |
| 4CTE-050-020-150 | | 2° | 15 | 60 | 6 | ☑ |
| 4CTE-050-023-200 | | 2°30′ | 20 | 65 | 8 | ☑ |
| 4CTE-050-030-210 | | 3° | 21 | 65 | 8 | ☑ |
| 4CTE-050-050-280 | | 5° | 28 | 80 | 10 | ☑ |
| 4CTE-050-070-280 | | 7° | 28 | 80 | 12 | ☑ |
| 4CTE-052-0147-120 | 5,2 | 1°47′ | 12 | 60 | 6 | ☑ |
| 4CTE-060-003-200 | 6 | 0°30′ | 20 | 65 | 8 | ☑ |
| 4CTE-060-010-200 | | 1° | 20 | 65 | 8 | ☑ |
| 4CTE-060-013-200 | | 1°30′ | 20 | 65 | 8 | ☑ |
| 4CTE-060-020-200 | | 2° | 20 | 65 | 8 | ☑ |
| 4CTE-060-023-200 | | 2°30′ | 20 | 65 | 8 | ☑ |
| 4CTE-060-030-260 | | 3° | 26 | 75 | 10 | ☑ |
| 4CTE-060-050-230 | | 5° | 23 | 75 | 10 | ☑ |
| 4CTE-060-070-240 | | 7° | 24 | 80 | 12 | ☑ |
| 4CTE-060-100-390 | | 10° | 39 | 110 | 20 | ☑ |
| 4CTE-080-003-250 | 8 | 0°30′ | 25 | 75 | 10 | ☑ |
| 4CTE-080-010-250 | | 1° | 25 | 75 | 10 | ☑ |
| 4CTE-080-013-250 | | 1°30′ | 25 | 75 | 10 | ☑ |

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4CTE-080-020-250 | 8 | 2° | 25 | 75 | 10 | ☑ |
| 4CTE-080-023-230 | | 2°30′ | 23 | 75 | 10 | ☑ |
| 4CTE-080-030-300 | | 3° | 30 | 80 | 12 | ☑ |
| 4CTE-080-050-230 | | 5° | 23 | 85 | 12 | ☑ |
| 4CTE-085-0147-240 | 8,5 | 1°47′ | 24 | 75 | 10 | ☑ |
| 4CTE-100-003-300 | 10 | 0°30′ | 30 | 80 | 12 | ☑ |
| 4CTE-100-010-300 | | 1° | 30 | 80 | 12 | ☑ |
| 4CTE-100-013-300 | | 1°30′ | 30 | 80 | 12 | ☑ |
| 4CTE-100-0147-320 | | 1°47′ | 32 | 85 | 12 | ☑ |
| 4CTE-100-020-280 | | 2° | 28 | 80 | 12 | ☑ |
| 4CTE-100-030-400 | | 3° | 40 | 100 | 16 | ☑ |
| 4CTE-100-050-340 | | 5° | 34 | 100 | 16 | ☑ |

◀ zpět na obsah

# 4RTE 4-břité KUŽELOVÉ ostré frézy pro žebrování pro kalené oceli do HRC 55




- Určeno pro kalené oceli (45–55 HRC)
- Vysoká odolnost proti opotřebení díky PVD povlaku na bázi Si
- Velmi přesné tolerance řezných hran
- Zesílená řezná hrana pro minimalizaci vyštipování
- Vynikající výkon při vysokých řezných rychlostech díky 0,5 µm tvrdokovu

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4RTE-005-030-040 | 0,5 | 0°30′ | 4 | 45 | 4 | ☑ |
| 4RTE-005-030-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-005-045-040 | | 0°45′ | 4 | 45 | 4 | ☑ |
| 4RTE-005-045-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-005-100-040 | | 1° | 4 | 45 | 4 | ☑ |
| 4RTE-005-100-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-006-030-040 | 0,6 | 0°30′ | 4 | 45 | 4 | ☑ |
| 4RTE-006-030-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-006-045-040 | | 0°45′ | 4 | 45 | 4 | ☑ |
| 4RTE-006-045-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-006-100-040 | | 1° | 4 | 45 | 4 | ☑ |
| 4RTE-006-100-060 | | | 6 | 45 | 4 | ☑ |
| 4RTE-007-030-060 | 0,7 | 0°30′ | 6 | 45 | 4 | ☑ |
| 4RTE-007-030-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-007-045-060 | | 0°45′ | 6 | 45 | 4 | ☑ |
| 4RTE-007-045-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-007-100-060 | | 1° | 6 | 45 | 4 | ☑ |
| 4RTE-007-100-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-008-030-060 | 0,8 | 0°30′ | 6 | 45 | 4 | ☑ |
| 4RTE-008-030-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-008-030-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-008-045-060 | | 0°45′ | 6 | 45 | 4 | ☑ |
| 4RTE-008-045-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-008-045-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-008-100-060 | | 1° | 6 | 45 | 4 | ☑ |
| 4RTE-008-100-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-008-100-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-009-030-060 | 0,9 | 0°30′ | 6 | 45 | 4 | ☑ |
| 4RTE-009-030-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-009-030-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-009-045-060 | | 0°45′ | 6 | 45 | 4 | ☑ |
| 4RTE-009-045-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-009-045-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-009-100-060 | | 1° | 6 | 45 | 4 | ☑ |
| 4RTE-009-100-080 | | | 8 | 45 | 4 | ☑ |
| 4RTE-009-100-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-010-030-080 | 1 | 0°30′ | 8 | 45 | 4 | ☑ |
| 4RTE-010-030-100 | | | 10 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4RTE-010-030-120 | 1 | 0°30′ | 12 | 45 | 4 | ☑ |
| 4RTE-010-045-080 | | 0°45′ | 8 | 45 | 4 | ☑ |
| 4RTE-010-045-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-010-045-120 | | | 12 | 45 | 4 | ☑ |
| 4RTE-010-100-080 | | 1° | 8 | 45 | 4 | ☑ |
| 4RTE-010-100-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-010-100-120 | | | 12 | 45 | 4 | ☑ |
| 4RTE-012-030-080 | 1,2 | 0°30′ | 8 | 45 | 4 | ☑ |
| 4RTE-012-030-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-012-030-120 | | | 12 | 45 | 4 | ☑ |
| 4RTE-012-030-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-012-045-080 | | 0°45′ | 8 | 45 | 4 | ☑ |
| 4RTE-012-045-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-012-045-120 | | | 12 | 45 | 4 | ☑ |
| 4RTE-012-045-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-012-100-080 | | 1° | 8 | 45 | 4 | ☑ |
| 4RTE-012-100-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-012-100-120 | | | 12 | 45 | 4 | ☑ |
| 4RTE-012-100-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-015-030-060 | 1,5 | 0°30′ | 6 | 45 | 4 | ☑ |
| 4RTE-015-030-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-015-030-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-015-030-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-015-100-060 | | 1° | 6 | 45 | 4 | ☑ |
| 4RTE-015-100-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-015-100-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-015-100-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-015-100-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-015-130-060 | | 1°30′ | 6 | 45 | 4 | ☑ |
| 4RTE-015-130-100 | | | 10 | 45 | 4 | ☑ |
| 4RTE-015-130-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-015-130-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-015-130-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-020-030-100 | 2 | 0°30′ | 10 | 45 | 4 | ☑ |
| 4RTE-020-030-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-020-030-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-020-030-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-020-100-100 | | 1° | 10 | 45 | 4 | ☑ |

◀ zpět na obsah

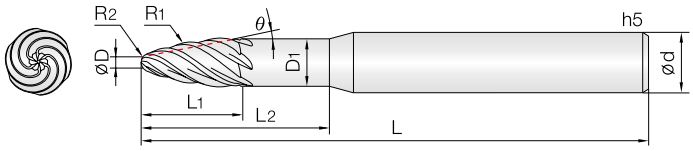
# 4RTE 4-břité KUŽELOVÉ ostré frézy pro žebrování pro kalené oceli do HRC 55

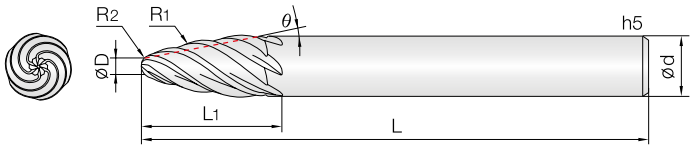
| Objednací číslo | D (mm) | Úhel θ | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4RTE-020-100-160 | 2 | 1° | 16 | 50 | 4 | ☑ |
| 4RTE-020-100-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-020-100-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-020-130-100 | | 1°30′ | 10 | 45 | 4 | ☑ |
| 4RTE-020-130-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-020-130-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-020-130-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-025-030-100 | 2,5 | 0°30′ | 10 | 45 | 4 | ☑ |
| 4RTE-025-030-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-025-030-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-025-030-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-025-100-100 | | 1° | 10 | 45 | 4 | ☑ |
| 4RTE-025-100-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-025-100-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-025-100-250 | | | 25 | 60 | 4 | ☑ |
| 4RTE-025-130-100 | | 1°30′ | 10 | 45 | 4 | ☑ |
| 4RTE-025-130-160 | | | 16 | 50 | 4 | ☑ |
| 4RTE-025-130-200 | | | 20 | 60 | 4 | ☑ |
| 4RTE-025-130-250 | | | 25 | 60 | 4 | ☑ |

◀ zpět na obsah

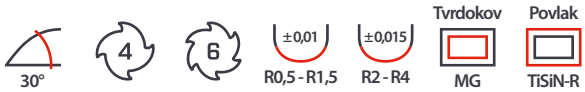
# 4&6CTDB

## 4 a 6-břité soudečkové frézy pro tvarově složité obrobky




- Speciálně určeno pro tvarově složité obrobky jako jsou rotory, lopatky turbín, kompresorová kola a profily pneumatik
- Vysoká produktivita obrábění díky vyššímu počtu břitů (4 a 6)
- Extrémní zrychlení dokončovacího obrábění díky vyššímu *ap*
- Možnost hrubování a dokončování jedním nástrojem




NOVINKA

| Objednací číslo | D (mm) | R1 (mm) | R2 (mm) | Úhel θ | D1 (mm) | L1 (mm) | L2 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|---|---|
| 4CTDB-010-013-047 | 1 | 13 | 0,5 | 10 | 2,4 | 4,7 | 10 | 50 | 4 | ☑ |
| 4CTDB-015-020-071 | 1,5 | 20 | 0,75 | 10 | 3,6 | 7,1 | 15 | 50 | 4 | ☑ |
| 4CTDB-020-025-094 | 2 | 25 | 1 | 10 | 4,8 | 9,4 | 20 | 60 | 6 | ☑ |
| 4CTDB-020-350-116 | | 350 | 1 | 15 | 7 | 11,6 | 18 | 80 | 8 | ☑ |
| 4CTDB-030-040-141 | 3 | 40 | 1,5 | 10 | 7,3 | 14,1 | 30 | 80 | 8 | ☑ |
| 6CTDB-040-050-187 | 4 | 50 | 2 | 10 | 9,5 | 18,7 | 40 | 100 | 12 | ☑ |
| 6CTDB-040-750-124 | | 750 | 2 | 30 | - | 12,4 | - | 110 | 16 | ☑ |
| 6CTDB-060-075-200 | 6 | 75 | 3 | 10 | - | 20 | - | 100 | 12 | ☑ |
| 6CTDB-060-1000-167 | | 1000 | 3 | 20 | - | 16,7 | - | 110 | 16 | ☑ |
| 6CTDB-080-100-268 | 8 | 100 | 4 | 5 | - | 26,8 | - | 110 | 12 | ☑ |
| 6CTDB-080-1000-267 | | 1000 | 4 | 10 | - | 26,7 | - | 110 | 16 | ☑ |

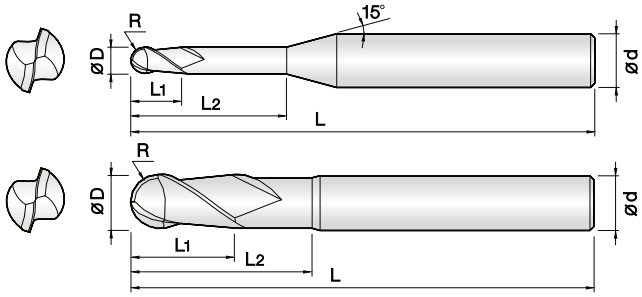
# G

▶ Tvrdokovové frézy pro široký sortiment  ocelí do HRC 52

◀ zpět na obsah

# 2HRBG

## 2-břité KULOVÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

2 | 35° | D=0,1 0/-0,005 | D≥0,2 0/-0,01 | D≥6 -0,005/-0,015

±0,005 R0,05-R2,5 | ±0,01 R3-R6 | Tvrdokov 0,5 µm | Povlak AlCrN

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRBG-001-003-S04 | 0,1 | R 0,05 | - | 0,3 | 40 | 4 | ☑ |
| 2HRBG-001-005-S04 | | | - | 0,5 | 40 | 4 | ☑ |
| 2HRBG-002-005-S04 | 0,2 | R 0,1 | 0,5 | 0,2 | 40 | 4 | ☑ |
| 2HRBG-002-010-S04 | | | 1 | 0,2 | 40 | 4 | ☑ |
| 2HRBG-002-015-S04 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2HRBG-002-020-S04 | | | 2 | 0,2 | 40 | 4 | ☑ |
| 2HRBG-003-010-S04 | 0,3 | R 0,15 | 1 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-003-015-S04 | | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-003-020-S04 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-003-030-S04 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-003-040-S04 | | | 4 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-003-050-S04 | | | 5 | 0,3 | 40 | 4 | ☑ |
| 2HRBG-004-010-S04 | 0,4 | R 0,2 | 1 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-020-S04 | | | 2 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-030-S04 | | | 3 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004040-S04 | | | 4 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-050-S04 | | | 5 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-060-S04 | | | 6 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-080-S04 | | | 8 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-004-100-S04 | | | 10 | 0,5 | 40 | 4 | ☑ |
| 2HRBG-005-010-S04 | 0,5 | R 0,25 | 1 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-020-S04 | | | 2 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-030-S04 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-040-S04 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-050-S04 | | | 5 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-060-S04 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-080-S04 | | | 8 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-100-S04 | | | 10 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-120-S04 | | | 12 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-005-140-S04 | | | 14 | 0,6 | 45 | 4 | ☑ |
| 2HRBG-006-010-S04 | 0,6 | R 0,3 | 1 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-020-S04 | | | 2 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-030-S04 | | | 3 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-040-S04 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-050-S04 | | | 5 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-060-S04 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-080-S04 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-100-S04 | | | 10 | 0,7 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRBG-006-120-S04 | 0,6 | R 0,3 | 12 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-140-S04 | | | 14 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-006-160-S04 | | | 16 | 0,7 | 45 | 4 | ☑ |
| 2HRBG-007-020-S04 | 0,7 | R 0,35 | 2 | 0,8 | 45 | 4 | ☑ |
| 2HRBG-007-040-S04 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2HRBG-007-080-S04 | | | 8 | 0,8 | 45 | 4 | ☑ |
| 2HRBG-007-100-S04 | | | 10 | 0,8 | 45 | 4 | ☑ |
| 2HRBG-007-120-S04 | | | 12 | 0,8 | 45 | 4 | ☑ |
| 2HRBG-008-020-S04 | 0,8 | R 0,4 | 2 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-040-S04 | | | 4 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-060-S04 | | | 6 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-080-S04 | | | 8 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-100-S04 | | | 10 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-120-S04 | | | 12 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-140-S04 | | | 14 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-008-160-S04 | | | 16 | 0,9 | 45 | 4 | ☑ |
| 2HRBG-009-040-S04 | 0,9 | R 0,45 | 4 | 1 | 45 | 4 | ☑ |
| 2HRBG-010-020-S04 | 1 | R 0,5 | 2 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-020-S06 | | | 2 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-030-S04 | | | 3 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-030-S06 | | | 3 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-040-S04 | | | 4 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-040-S06 | | | 4 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-050-S04 | | | 5 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-050-S06 | | | 5 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-060-S04 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-060-S06 | | | 6 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-080-S04 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2HRBG-010-080-S06 | | | 8 | 1,2 | 45 | 6 | ☑ |
| 2HRBG-010-100-S04 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2HRBG-010-100-S06 | | | 10 | 1,2 | 50 | 6 | ☑ |
| 2HRBG-010-120-S04 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2HRBG-010-120-S06 | | | 12 | 1,2 | 50 | 6 | ☑ |
| 2HRBG-010-140-S04 | | | 14 | 1,2 | 50 | 4 | ☑ |
| 2HRBG-010-140-S06 | | | 14 | 1,2 | 50 | 6 | ☑ |
| 2HRBG-010-160-S04 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2HRBG-010-160-S06 | | | 16 | 1,2 | 55 | 6 | ☑ |
| 2HRBG-010-180-S04 | | | 18 | 1,2 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2HRBG

## 2-břité KULOVÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRBG-010-180-S06 | 1 | R 0,5 | 18 | 1,2 | 60 | 6 | ☑ |
| 2HRBG-010-200-S04 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2HRBG-010-200-S06 | | | 20 | 1,2 | 60 | 6 | ☑ |
| 2HRBG-010-220-S04 | | | 22 | 1,2 | 60 | 4 | ☑ |
| 2HRBG-010-220-S06 | | | 22 | 1,2 | 65 | 6 | ☑ |
| 2HRBG-010-250-S04 | | | 25 | 1,2 | 60 | 4 | ☑ |
| 2HRBG-012-040-S04 | 1,2 | R 0,6 | 4 | 1,4 | 45 | 4 | ☑ |
| 2HRBG-012-040-S06 | | | 4 | 1,4 | 45 | 6 | ☑ |
| 2HRBG-012-060-S04 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 2HRBG-012-060-S06 | | | 6 | 1,4 | 45 | 6 | ☑ |
| 2HRBG-012-080-S04 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 2HRBG-012-080-S06 | | | 8 | 1,4 | 45 | 6 | ☑ |
| 2HRBG-012-100-S04 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 2HRBG-012-100-S06 | | | 10 | 1,4 | 50 | 6 | ☑ |
| 2HRBG-012-120-S04 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2HRBG-012-120-S06 | | | 12 | 1,4 | 50 | 6 | ☑ |
| 2HRBG-012-160-S04 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2HRBG-012-160-S06 | | | 16 | 1,4 | 55 | 6 | ☑ |
| 2HRBG-012-200-S04 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 2HRBG-012-200-S06 | | | 20 | 1,4 | 60 | 6 | ☑ |
| 2HRBG-012-240-S04 | | | 24 | 1,4 | 60 | 4 | ☑ |
| 2HRBG-012-240-S06 | | | 24 | 1,4 | 65 | 6 | ☑ |
| 2HRBG-014-060-S04 | 1,4 | R 0,7 | 6 | 1,6 | 45 | 4 | ☑ |
| 2HRBG-014-080-S04 | | | 8 | 1,6 | 45 | 4 | ☑ |
| 2HRBG-014-120-S04 | | | 12 | 1,6 | 50 | 4 | ☑ |
| 2HRBG-014-160-S04 | | | 16 | 1,6 | 50 | 4 | ☑ |
| 2HRBG-015-030-S04 | 1,5 | R 0,75 | 3 | 1,8 | 45 | 4 | ☑ |
| 2HRBG-015-030-S06 | | | 3 | 1,8 | 45 | 6 | ☑ |
| 2HRBG-015-040-S04 | | | 4 | 1,8 | 45 | 4 | ☑ |
| 2HRBG-015-040-S06 | | | 4 | 1,8 | 45 | 6 | ☑ |
| 2HRBG-015-060-S04 | | | 6 | 1,8 | 45 | 4 | ☑ |
| 2HRBG-015-060-S06 | | | 6 | 1,8 | 45 | 6 | ☑ |
| 2HRBG-015-080-S04 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2HRBG-015-080-S06 | | | 8 | 1,8 | 45 | 6 | ☑ |
| 2HRBG-015-100-S04 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-100-S06 | | | 10 | 1,8 | 50 | 6 | ☑ |
| 2HRBG-015-120-S04 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-120-S06 | | | 12 | 1,8 | 50 | 6 | ☑ |
| 2HRBG-015-140-S04 | | | 14 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-140-S06 | | | 14 | 1,8 | 50 | 6 | ☑ |
| 2HRBG-015-160-S04 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-160-S06 | | | 16 | 1,8 | 55 | 6 | ☑ |
| 2HRBG-015-180-S04 | | | 18 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-180-S06 | | | 18 | 1,8 | 60 | 6 | ☑ |
| 2HRBG-015-200-S04 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2HRBG-015-200-S06 | | | 20 | 1,8 | 60 | 6 | ☑ |
| 2HRBG-015-220-S04 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 2HRBG-015-220-S06 | | | 22 | 1,8 | 65 | 6 | ☑ |
| 2HRBG-015-250-S04 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 2HRBG-015-250-S06 | | | 25 | 1,8 | 65 | 6 | ☑ |
| 2HRBG-015-300-S04 | | | 30 | 1,8 | 70 | 4 | ☑ |
| 2HRBG-015-300-S06 | | | 30 | 1,8 | 70 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRBG-015-350-S04 | 1,5 | R 0,75 | 35 | 1,8 | 70 | 4 | ☑ |
| 2HRBG-016-060-S04 | 1,6 | R 0,8 | 6 | 1,9 | 45 | 4 | ☑ |
| 2HRBG-016-080-S04 | | | 8 | 1,9 | 45 | 4 | ☑ |
| 2HRBG-016-120-S04 | | | 12 | 1,9 | 50 | 4 | ☑ |
| 2HRBG-016-160-S04 | | | 16 | 1,9 | 50 | 4 | ☑ |
| 2HRBG-016-200-S04 | | | 20 | 1,9 | 50 | 4 | ☑ |
| 2HRBG-018-060-S04 | 1,8 | R 0,9 | 6 | 2,1 | 45 | 4 | ☑ |
| 2HRBG-018-080-S04 | | | 8 | 2,1 | 45 | 4 | ☑ |
| 2HRBG-018-120-S04 | | | 12 | 2,1 | 50 | 4 | ☑ |
| 2HRBG-018-160-S04 | | | 16 | 2,1 | 50 | 4 | ☑ |
| 2HRBG-018-200-S04 | | | 20 | 2,1 | 50 | 4 | ☑ |
| 2HRBG-020-040-S04 | 2 | R 1 | 4 | 2,4 | 45 | 4 | ☑ |
| 2HRBG-020-040-S06 | | | 4 | 2,4 | 45 | 6 | ☑ |
| 2HRBG-020-060-S04 | | | 6 | 2,4 | 45 | 4 | ☑ |
| 2HRBG-020-060-S06 | | | 6 | 2,4 | 45 | 6 | ☑ |
| 2HRBG-020-080-S04 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 2HRBG-020-080-S06 | | | 8 | 2,4 | 45 | 6 | ☑ |
| 2HRBG-020-100-S04 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-100-S06 | | | 10 | 2,4 | 50 | 6 | ☑ |
| 2HRBG-020-120-S04 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-120-S06 | | | 12 | 2,4 | 50 | 6 | ☑ |
| 2HRBG-020-140-S04 | | | 14 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-140-S06 | | | 14 | 2,4 | 50 | 6 | ☑ |
| 2HRBG-020-160-S04 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-160-S06 | | | 16 | 2,4 | 60 | 6 | ☑ |
| 2HRBG-020-180-S04 | | | 18 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-180-S06 | | | 18 | 2,4 | 60 | 6 | ☑ |
| 2HRBG-020-200-S04 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 2HRBG-020-200-S06 | | | 20 | 2,4 | 60 | 6 | ☑ |
| 2HRBG-020-220-S04 | | | 22 | 2,4 | 60 | 4 | ☑ |
| 2HRBG-020-220-S06 | | | 22 | 2,4 | 65 | 6 | ☑ |
| 2HRBG-020-250-S04 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 2HRBG-020-250-S06 | | | 25 | 2,4 | 65 | 6 | ☑ |
| 2HRBG-020-300-S04 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 2HRBG-020-300-S06 | | | 30 | 2,4 | 70 | 6 | ☑ |
| 2HRBG-020-350-S04 | | | 35 | 2,4 | 70 | 4 | ☑ |
| 2HRBG-020-350-S06 | | | 35 | 2,4 | 75 | 6 | ☑ |
| 2HRBG-020-400-S04 | | | 40 | 2,4 | 80 | 4 | ☑ |
| 2HRBG-020-400-S06 | | | 40 | 2,4 | 80 | 6 | ☑ |
| 2HRBG-020-450-S04 | | | 45 | 2,4 | 80 | 4 | ☑ |
| 2HRBG-025-080-S04 | 2,5 | R 1,25 | 8 | 3 | 45 | 4 | ☑ |
| 2HRBG-025-100-S04 | | | 10 | 3 | 50 | 4 | ☑ |
| 2HRBG-025-160-S04 | | | 16 | 3 | 50 | 4 | ☑ |
| 2HRBG-025-200-S04 | | | 20 | 3 | 50 | 4 | ☑ |
| 2HRBG-025-250-S04 | | | 25 | 3 | 60 | 4 | ☑ |
| 2HRBG-025-300-S04 | | | 30 | 3 | 70 | 4 | ☑ |
| 2HRBG-025-350-S04 | | | 35 | 3 | 70 | 4 | ☑ |
| 2HRBG-030-060-S06 | 3 | R 1,5 | 6 | 3,6 | 45 | 6 | ☑ |
| 2HRBG-030-080-S06 | | | 8 | 3,6 | 45 | 6 | ☑ |
| 2HRBG-030-100-S06 | | | 10 | 3,6 | 50 | 6 | ☑ |
| 2HRBG-030-120-S06 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2HRBG-030-160-S06 | | | 16 | 3,6 | 55 | 6 | ☑ |

◀ zpět na obsah

# 2HRBG

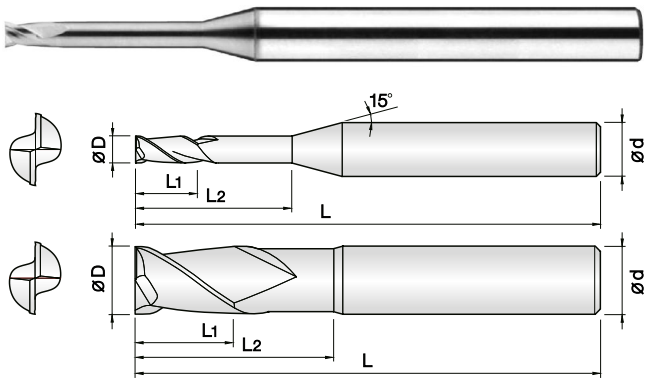
## 2-břité KULOVÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2HRBG-030-200-S06 | 3 | R 1,5 | 20 | 3,6 | 60 | 6 | ☑ |
| 2HRBG-030-250-S06 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2HRBG-030-300-S06 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2HRBG-030-350-S06 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2HRBG-030-400-S06 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2HRBG-030-450-S06 | | | 45 | 3,6 | 90 | 6 | ☑ |
| 2HRBG-030-500-S06 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 2HRBG-030-600-S06 | | | 60 | 3,6 | 100 | 6 | ☑ |
| 2HRBG-040-080-S06 | 4 | R 2 | 8 | 4,8 | 45 | 6 | ☑ |
| 2HRBG-040-100-S06 | | | 10 | 4,8 | 50 | 6 | ☑ |
| 2HRBG-040-120-S06 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2HRBG-040-160-S06 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2HRBG-040-200-S06 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2HRBG-040-250-S06 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2HRBG-040-300-S06 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2HRBG-040-350-S06 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2HRBG-040-400-S06 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 2HRBG-040-450-S06 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 2HRBG-040-500-S06 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2HRBG-040-550-S06 | | | 55 | 4,8 | 100 | 6 | ☑ |
| 2HRBG-040-600-S06 | | | 60 | 4,8 | 100 | 6 | ☑ |
| 2HRBG-050-150-S06 | 5 | R 2,5 | 15 | 6 | 55 | 6 | ☑ |
| 2HRBG-050-200-S06 | | | 20 | 6 | 60 | 6 | ☑ |
| 2HRBG-050-250-S06 | | | 25 | 6 | 70 | 6 | ☑ |
| 2HRBG-050-300-S06 | | | 30 | 6 | 75 | 6 | ☑ |
| 2HRBG-050-400-S06 | | | 40 | 6 | 80 | 6 | ☑ |
| 2HRBG-050-450-S06 | | | 45 | 6 | 90 | 6 | ☑ |
| 2HRBG-050-500-S06 | | | 50 | 6 | 100 | 6 | ☑ |
| 2HRBG-050-600-S06 | | | 60 | 6 | 100 | 6 | ☑ |
| 2HRBG-060-150-S06 | 6 | R 3 | 15 | 10 | 55 | 6 | ☑ |
| 2HRBG-060-300-S06 | | | 30 | 10 | 110 | 6 | ☑ |
| 2HRBG-080-250-060 | 8 | R 4 | 25 | 12 | 60 | 8 | ☑ |
| 2HRBG-080-300-100 | | | 30 | 12 | 100 | 8 | ☑ |
| 2HRBG-100-300-070 | 10 | R 5 | 30 | 16 | 70 | 10 | ☑ |
| 2HRBG-100-350-100 | | | 35 | 16 | 100 | 10 | ☑ |
| 2HRBG-120-300-075 | 12 | R 6 | 30 | 18 | 75 | 12 | ☑ |
| 2HRBG-120-400-110 | | | 40 | 18 | 110 | 12 | ☑ |

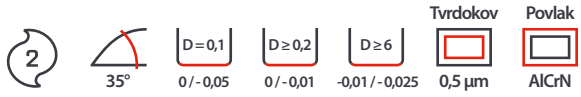
◀ zpět na obsah

# 2HREG

## 2-břité OSTRÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí




| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HREG-001-003-S04 | 0,1 | - | 0,3 | 40 | 4 | ☑ |
| 2HREG-001-005-S04 | | - | 0,5 | 40 | 4 | ☑ |
| 2HREG-002-005-S04 | 0,2 | 0,5 | 0,3 | 40 | 4 | ☑ |
| 2HREG-002-010-S04 | | 1 | 0,2 | 40 | 4 | ☑ |
| 2HREG-002-015-S04 | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2HREG-002-020-S04 | | 2 | 0,2 | 40 | 4 | ☑ |
| 2HREG-003-010-S04 | 0,3 | 1 | 0,3 | 40 | 4 | ☑ |
| 2HREG-003-015-S04 | | 1,5 | 0,3 | 40 | 4 | ☑ |
| 2HREG-003-020-S04 | | 2 | 0,3 | 40 | 4 | ☑ |
| 2HREG-003-030-S04 | | 3 | 0,3 | 40 | 4 | ☑ |
| 2HREG-003-040-S04 | | 4 | 0,3 | 40 | 4 | ☑ |
| 2HREG-003-050-S04 | | 5 | 0,3 | 40 | 4 | ☑ |
| 2HREG-004-010-S04 | 0,4 | 1 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-020-S04 | | 2 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-030-S04 | | 3 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-040-S04 | | 4 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-050-S04 | | 5 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-060-S04 | | 6 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-080-S04 | | 8 | 0,5 | 40 | 4 | ☑ |
| 2HREG-004-100-S04 | | 10 | 0,5 | 40 | 4 | ☑ |
| 2HREG-005-020-S04 | 0,5 | 2 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-030-S04 | | 3 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-040-S04 | | 4 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-050-S04 | | 5 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-060-S04 | | 6 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-080-S04 | | 8 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-100-S04 | | 10 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-120-S04 | | 12 | 0,6 | 45 | 4 | ☑ |
| 2HREG-005-140-S04 | | 14 | 0,6 | 45 | 4 | ☑ |
| 2HREG-006-020-S04 | 0,6 | 2 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-030-S04 | | 3 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-040-S04 | | 4 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-050-S04 | | 5 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-060-S04 | | 6 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-080-S04 | | 8 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-100-S04 | | 10 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-120-S04 | | 12 | 0,7 | 45 | 4 | ☑ |
| 2HREG-006-140-S04 | | 14 | 0,7 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HREG-006-160-S04 | 0,6 | 16 | 0,7 | 45 | 4 | ☑ |
| 2HREG-007-020-S04 | 0,7 | 2 | 0,8 | 45 | 4 | ☑ |
| 2HREG-007-040-S04 | | 4 | 0,8 | 45 | 4 | ☑ |
| 2HREG-007-060-S04 | | 6 | 0,8 | 45 | 4 | ☑ |
| 2HREG-007-080-S04 | | 8 | 0,8 | 45 | 4 | ☑ |
| 2HREG-007-100-S04 | | 10 | 0,8 | 45 | 4 | ☑ |
| 2HREG-007-120-S04 | | 12 | 0,8 | 45 | 4 | ☑ |
| 2HREG-008-020-S04 | 0,8 | 2 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-040-S04 | | 4 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-060-S04 | | 6 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-080-S04 | | 8 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-100-S04 | | 10 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-120-S04 | | 12 | 0,9 | 45 | 4 | ☑ |
| 2HREG-008-140-S04 | | 14 | 0,9 | 45 | 4 | ☑ |
| 2HREG-009-060-S04 | 0,9 | 6 | 1 | 45 | 4 | ☑ |
| 2HREG-009-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 2HREG-009-100-S04 | | 10 | 1 | 45 | 4 | ☑ |
| 2HREG-010-020-S04 | 1 | 2 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-030-S04 | | 3 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-040-S04 | | 4 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-050-S04 | | 5 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 2HREG-010-100-S04 | | 10 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-120-S04 | | 12 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-140-S04 | | 14 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-180-S04 | | 18 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-200-S04 | | 20 | 1,2 | 50 | 4 | ☑ |
| 2HREG-010-250-S04 | | 25 | 1,2 | 60 | 4 | ☑ |
| 2HREG-010-300-S04 | | 30 | 1,2 | 70 | 4 | ☑ |
| 2HREG-012-040-S04 | 1,2 | 4 | 1,4 | 45 | 4 | ☑ |
| 2HREG-012-060-S04 | | 6 | 1,4 | 45 | 4 | ☑ |
| 2HREG-012-080-S04 | | 8 | 1,4 | 45 | 4 | ☑ |
| 2HREG-012-100-S04 | | 10 | 1,4 | 50 | 4 | ☑ |
| 2HREG-012-120-S04 | | 12 | 1,4 | 50 | 4 | ☑ |
| 2HREG-012-160-S04 | | 16 | 1,4 | 50 | 4 | ☑ |
| 2HREG-012-200-S04 | | 20 | 1,4 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2HREG

## 2-břité OSTRÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52

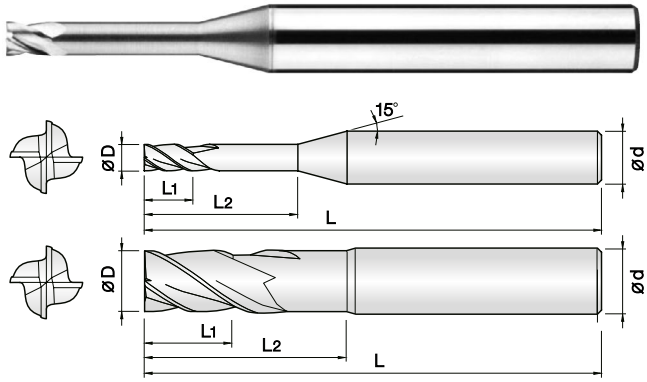
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HREG-012-250-S04 | 1,2 | 25 | 1,4 | 60 | 4 | ☑ |
| 2HREG-012-300-S04 | | 30 | 1,4 | 70 | 4 | ☑ |
| 2HREG-014-060-S04 | 1,4 | 6 | 1,6 | 45 | 4 | ☑ |
| 2HREG-014-080-S04 | | 8 | 1,6 | 45 | 4 | ☑ |
| 2HREG-014-100-S04 | | 10 | 1,6 | 50 | 4 | ☑ |
| 2HREG-014-140-S04 | | 14 | 1,6 | 50 | 4 | ☑ |
| 2HREG-014-160-S04 | | 16 | 1,6 | 50 | 4 | ☑ |
| 2HREG-014-200-S04 | | 20 | 1,6 | 50 | 4 | ☑ |
| 2HREG-015-040-S04 | 1,5 | 4 | 1,8 | 45 | 4 | ☑ |
| 2HREG-015-060-S04 | | 6 | 1,8 | 45 | 4 | ☑ |
| 2HREG-015-080-S04 | | 8 | 1,8 | 45 | 4 | ☑ |
| 2HREG-015-100-S04 | | 10 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-120-S04 | | 12 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-140-S04 | | 14 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-160-S04 | | 16 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-180-S04 | | 18 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-200-S04 | | 20 | 1,8 | 50 | 4 | ☑ |
| 2HREG-015-250-S04 | | 25 | 1,8 | 60 | 4 | ☑ |
| 2HREG-015-300-S04 | | 30 | 1,8 | 70 | 4 | ☑ |
| 2HREG-016-100-S04 | 1,6 | 10 | 1,9 | 50 | 4 | ☑ |
| 2HREG-016-140-S04 | | 14 | 1,9 | 50 | 4 | ☑ |
| 2HREG-016-180-S04 | | 18 | 1,9 | 50 | 4 | ☑ |
| 2HREG-018-100-S04 | 1,8 | 10 | 2,1 | 50 | 4 | ☑ |
| 2HREG-018-140-S04 | | 14 | 2,1 | 50 | 4 | ☑ |
| 2HREG-018-180-S04 | | 18 | 2,1 | 50 | 4 | ☑ |
| 2HREG-020-040-S04 | 2 | 4 | 2,4 | 45 | 4 | ☑ |
| 2HREG-020-060-S04 | | 6 | 2,4 | 45 | 4 | ☑ |
| 2HREG-020-080-S04 | | 8 | 2,4 | 45 | 4 | ☑ |
| 2HREG-020-100-S04 | | 10 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-120-S04 | | 12 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-140-S04 | | 14 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-160-S04 | | 16 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-180-S04 | | 18 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-200-S04 | | 20 | 2,4 | 50 | 4 | ☑ |
| 2HREG-020-220-S04 | | 22 | 2,4 | 60 | 4 | ☑ |
| 2HREG-020-250-S04 | | 25 | 2,4 | 60 | 4 | ☑ |
| 2HREG-020-300-S04 | | 30 | 2,4 | 70 | 4 | ☑ |
| 2HREG-020-350-S04 | | 35 | 2,4 | 70 | 4 | ☑ |
| 2HREG-020-400-S04 | | 40 | 2,4 | 80 | 4 | ☑ |
| 2HREG-020-450-S04 | | 45 | 2,4 | 80 | 4 | ☑ |
| 2HREG-020-500-S04 | | 50 | 2,4 | 90 | 4 | ☑ |
| 2HREG-025-080-S04 | 2,5 | 8 | 3 | 45 | 4 | ☑ |
| 2HREG-025-100-S04 | | 10 | 3 | 50 | 4 | ☑ |
| 2HREG-025-120-S04 | | 12 | 3 | 50 | 4 | ☑ |
| 2HREG-025-160-S04 | | 16 | 3 | 50 | 4 | ☑ |
| 2HREG-025-200-S04 | | 20 | 3 | 50 | 4 | ☑ |
| 2HREG-025-250-S04 | | 25 | 3 | 60 | 4 | ☑ |
| 2HREG-025-300-S04 | | 30 | 3 | 70 | 4 | ☑ |
| 2HREG-025-350-S04 | | 35 | 3 | 70 | 4 | ☑ |
| 2HREG-025-400-S04 | | 40 | 3 | 80 | 4 | ☑ |
| 2HREG-025-500-S04 | | 50 | 3 | 90 | 4 | ☑ |
| 2HREG-030-060-S06 | 3 | 6 | 3,6 | 45 | 6 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HREG-030-080-S06 | 3 | 8 | 3,6 | 45 | 6 | ☑ |
| 2HREG-030-100-S06 | | 10 | 3,6 | 50 | 6 | ☑ |
| 2HREG-030-120-S06 | | 12 | 3,6 | 50 | 6 | ☑ |
| 2HREG-030-160-S06 | | 16 | 3,6 | 55 | 6 | ☑ |
| 2HREG-030-200-S06 | | 20 | 3,6 | 60 | 6 | ☑ |
| 2HREG-030-250-S06 | | 25 | 3,6 | 65 | 6 | ☑ |
| 2HREG-030-300-S06 | | 30 | 3,6 | 70 | 6 | ☑ |
| 2HREG-030-350-S06 | | 35 | 3,6 | 75 | 6 | ☑ |
| 2HREG-030-400-S06 | | 40 | 3,6 | 80 | 6 | ☑ |
| 2HREG-030-450-S06 | | 45 | 3,6 | 90 | 6 | ☑ |
| 2HREG-030-500-S06 | | 50 | 3,6 | 100 | 6 | ☑ |
| 2HREG-030-600-S06 | | 60 | 3,6 | 100 | 6 | ☑ |
| 2HREG-040-080-S06 | 4 | 8 | 4,8 | 45 | 6 | ☑ |
| 2HREG-040-100-S06 | | 10 | 4,8 | 50 | 6 | ☑ |
| 2HREG-040-120-S06 | | 12 | 4,8 | 50 | 6 | ☑ |
| 2HREG-040-160-S06 | | 16 | 4,8 | 55 | 6 | ☑ |
| 2HREG-040-200-S06 | | 20 | 4,8 | 60 | 6 | ☑ |
| 2HREG-040-250-S06 | | 25 | 4,8 | 65 | 6 | ☑ |
| 2HREG-040-300-S06 | | 30 | 4,8 | 70 | 6 | ☑ |
| 2HREG-040-350-S06 | | 35 | 4,8 | 75 | 6 | ☑ |
| 2HREG-040-400-S06 | | 40 | 4,8 | 80 | 6 | ☑ |
| 2HREG-040-450-S06 | | 45 | 4,8 | 90 | 6 | ☑ |
| 2HREG-040-500-S06 | | 50 | 4,8 | 100 | 6 | ☑ |
| 2HREG-040-550-S06 | | 55 | 4,8 | 100 | 6 | ☑ |
| 2HREG-040-600-S06 | | 60 | 4,8 | 100 | 6 | ☑ |
| 2HREG-050-150-S06 | 5 | 15 | 6 | 55 | 6 | ☑ |
| 2HREG-050-200-S06 | | 20 | 6 | 60 | 6 | ☑ |
| 2HREG-050-250-S06 | | 25 | 6 | 70 | 6 | ☑ |
| 2HREG-050-300-S06 | | 30 | 6 | 75 | 6 | ☑ |
| 2HREG-050-350-S06 | | 35 | 6 | 75 | 6 | ☑ |
| 2HREG-050-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 2HREG-050-500-S06 | | 50 | 6 | 100 | 6 | ☑ |
| 2HREG-050-600-S06 | | 60 | 6 | 100 | 6 | ☑ |
| 2HREG-060-200-S06 | 6 | 20 | 10 | 60 | 6 | ☑ |
| 2HREG-060-300-S06 | | 30 | 10 | 75 | 6 | ☑ |
| 2HREG-060-400-S06 | | 40 | 10 | 80 | 6 | ☑ |
| 2HREG-060-500-S06 | | 50 | 10 | 90 | 6 | ☑ |
| 2HREG-060-600-S06 | | 60 | 10 | 110 | 6 | ☑ |
| 2HREG-080-200-S08 | 8 | 20 | 12 | 65 | 8 | ☑ |
| 2HREG-080-300-S08 | | 30 | 12 | 80 | 8 | ☑ |
| 2HREG-080-400-S08 | | 40 | 12 | 100 | 8 | ☑ |
| 2HREG-100-250-S10 | 10 | 25 | 15 | 70 | 10 | ☑ |
| 2HREG-100-350-S10 | | 35 | 15 | 80 | 10 | ☑ |
| 2HREG-100-450-S10 | | 45 | 15 | 100 | 10 | ☑ |
| 2HREG-120-300-S12 | 12 | 30 | 18 | 80 | 12 | ☑ |
| 2HREG-120-400-S12 | | 40 | 18 | 100 | 12 | ☑ |
| 2HREG-120-500-S12 | | 50 | 18 | 120 | 12 | ☑ |

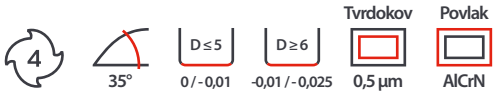
◀ zpět na obsah

# 4HREG

## 4-břité OSTRÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení pro optimální výběr nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí




| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HREG-008-020-S04 | 0,8 | 2 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-040-S04 | | 4 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-060-S04 | | 6 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-080-S04 | | 8 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-100-S04 | | 10 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-120-S04 | | 12 | 0,9 | 45 | 4 | ☑ |
| 4HREG-008-160-S04 | | 16 | 0,9 | 45 | 4 | ☑ |
| 4HREG-009-020-S04 | 0,9 | 2 | 1 | 45 | 4 | ☑ |
| 4HREG-009-060-S04 | | 6 | 1 | 45 | 4 | ☑ |
| 4HREG-009-080-S04 | | 8 | 1 | 45 | 4 | ☑ |
| 4HREG-009-100-S04 | | 10 | 1 | 45 | 4 | ☑ |
| 4HREG-010-030-S04 | 1 | 3 | 1,2 | 45 | 4 | ☑ |
| 4HREG-010-040-S04 | | 4 | 1,2 | 45 | 4 | ☑ |
| 4HREG-010-060-S04 | | 6 | 1,2 | 45 | 4 | ☑ |
| 4HREG-010-080-S04 | | 8 | 1,2 | 45 | 4 | ☑ |
| 4HREG-010-100-S04 | | 10 | 1,2 | 50 | 4 | ☑ |
| 4HREG-010-120-S04 | | 12 | 1,2 | 50 | 4 | ☑ |
| 4HREG-010-160-S04 | | 16 | 1,2 | 50 | 4 | ☑ |
| 4HREG-010-200-S04 | | 20 | 1,2 | 50 | 4 | ☑ |
| 4HREG-010-250-S04 | | 25 | 1,2 | 60 | 4 | ☑ |
| 4HREG-012-060-S04 | 1,2 | 6 | 1,4 | 45 | 4 | ☑ |
| 4HREG-012-080-S04 | | 8 | 1,4 | 45 | 4 | ☑ |
| 4HREG-012-100-S04 | | 10 | 1,4 | 50 | 4 | ☑ |
| 4HREG-012-120-S04 | | 12 | 1,4 | 50 | 4 | ☑ |
| 4HREG-012-160-S04 | | 16 | 1,4 | 50 | 4 | ☑ |
| 4HREG-015-060-S04 | 1,5 | 6 | 1,8 | 45 | 4 | ☑ |
| 4HREG-015-080-S04 | | 8 | 1,8 | 45 | 4 | ☑ |
| 4HREG-015-100-S04 | | 10 | 1,8 | 50 | 4 | ☑ |
| 4HREG-015-120-S04 | | 12 | 1,8 | 50 | 4 | ☑ |
| 4HREG-015-160-S04 | | 16 | 1,8 | 50 | 4 | ☑ |
| 4HREG-015-200-S04 | | 20 | 1,8 | 50 | 4 | ☑ |
| 4HREG-015-250-S04 | | 25 | 1,8 | 60 | 4 | ☑ |
| 4HREG-020-060-S04 | 2 | 6 | 2,4 | 45 | 4 | ☑ |
| 4HREG-020-080-S04 | | 8 | 2,4 | 45 | 4 | ☑ |
| 4HREG-020-100-S04 | | 10 | 2,4 | 50 | 4 | ☑ |
| 4HREG-020-120-S04 | | 12 | 2,4 | 50 | 4 | ☑ |
| 4HREG-020-160-S04 | | 16 | 2,4 | 50 | 4 | ☑ |
| 4HREG-020-200-S04 | | 20 | 2,4 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HREG-020-250-S04 | 2 | 25 | 2,4 | 60 | 4 | ☑ |
| 4HREG-020-300-S04 | | 30 | 2,4 | 70 | 4 | ☑ |
| 4HREG-025-100-S04 | 2,5 | 10 | 3 | 50 | 4 | ☑ |
| 4HREG-025-120-S04 | | 12 | 3 | 50 | 4 | ☑ |
| 4HREG-025-160-S04 | | 16 | 3 | 50 | 4 | ☑ |
| 4HREG-025-200-S04 | | 20 | 3 | 50 | 4 | ☑ |
| 4HREG-025-250-S04 | | 25 | 3 | 60 | 4 | ☑ |
| 4HREG-025-300-S04 | | 30 | 3 | 70 | 4 | ☑ |
| 4HREG-030-100-S06 | 3 | 10 | 3,6 | 50 | 6 | ☑ |
| 4HREG-030-120-S06 | | 12 | 3,6 | 50 | 6 | ☑ |
| 4HREG-030-160-S06 | | 16 | 3,6 | 55 | 6 | ☑ |
| 4HREG-030-200-S06 | | 20 | 3,6 | 60 | 6 | ☑ |
| 4HREG-030-250-S06 | | 25 | 3,6 | 65 | 6 | ☑ |
| 4HREG-030-300-S06 | | 30 | 3,6 | 70 | 6 | ☑ |
| 4HREG-030-350-S06 | | 35 | 3,6 | 75 | 6 | ☑ |
| 4HREG-030-400-S06 | | 40 | 3,6 | 80 | 6 | ☑ |
| 4HREG-040-100-S06 | 4 | 10 | 4,8 | 50 | 6 | ☑ |
| 4HREG-040-120-S06 | | 12 | 4,8 | 50 | 6 | ☑ |
| 4HREG-040-160-S06 | | 16 | 4,8 | 55 | 6 | ☑ |
| 4HREG-040-200-S06 | | 20 | 4,8 | 60 | 6 | ☑ |
| 4HREG-040-250-S06 | | 25 | 4,8 | 65 | 6 | ☑ |
| 4HREG-040-300-S06 | | 30 | 4,8 | 70 | 6 | ☑ |
| 4HREG-040-400-S06 | | 40 | 4,8 | 80 | 6 | ☑ |
| 4HREG-040-450-S06 | | 45 | 4,8 | 90 | 6 | ☑ |
| 4HREG-040-500-S06 | | 50 | 4,8 | 100 | 6 | ☑ |
| 4HREG-050-150-S06 | 5 | 15 | 6 | 55 | 6 | ☑ |
| 4HREG-050-200-S06 | | 20 | 6 | 60 | 6 | ☑ |
| 4HREG-050-250-S06 | | 25 | 6 | 65 | 6 | ☑ |
| 4HREG-050-300-S06 | | 30 | 6 | 70 | 6 | ☑ |
| 4HREG-050-400-S06 | | 40 | 6 | 80 | 6 | ☑ |
| 4HREG-050-500-S06 | | 50 | 6 | 100 | 6 | ☑ |
| 4HREG-060-200-S06 | 6 | 20 | 10 | 60 | 6 | ☑ |
| 4HREG-060-300-S06 | | 30 | 10 | 75 | 6 | ☑ |
| 4HREG-060-400-S06 | | 40 | 10 | 80 | 6 | ☑ |
| 4HREG-060-500-S06 | | 50 | 10 | 90 | 6 | ☑ |
| 4HREG-080-200-S08 | 8 | 20 | 12 | 65 | 8 | ☑ |
| 4HREG-080-300-S08 | | 30 | 12 | 80 | 8 | ☑ |
| 4HREG-080-400-S08 | | 40 | 12 | 100 | 8 | ☑ |

# 4HREG

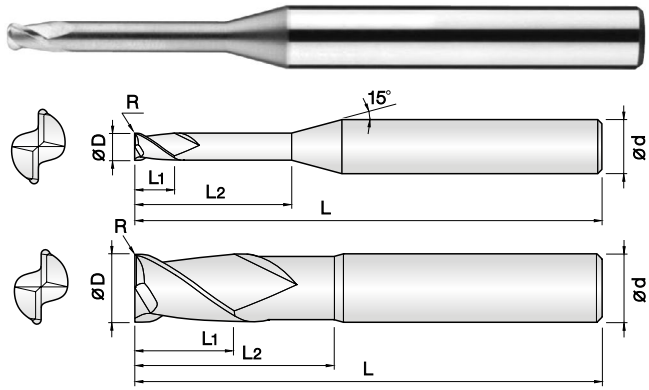
## 4-břité OSTRÉ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4HREG-100-250-S10 | 10 | 25 | 15 | 70 | 10 | ☑ |
| 4HREG-100-350-S10 | | 35 | 15 | 90 | 10 | ☑ |
| 4HREG-100-450-S10 | | 45 | 15 | 110 | 10 | ☑ |
| 4HREG-120-300-S12 | 12 | 30 | 18 | 80 | 12 | ☑ |
| 4HREG-120-400-S12 | | 40 | 18 | 100 | 12 | ☑ |
| 4HREG-120-500-S12 | | 50 | 18 | 120 | 12 | ☑ |

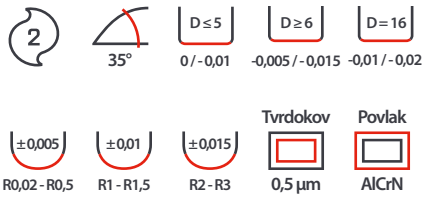
◀ zpět na obsah

# 2CREG

## 2-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení a rádiusů pro optimální výběr nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí




| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-002-0002-010 | 0,2 | R 0,02 | 1 | 0,2 | 40 | 4 | ☑ |
| 2CREG-002-0002-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2CREG-002-0005-010 | | R 0,05 | 1 | 0,2 | 40 | 4 | ☑ |
| 2CREG-002-0005-015 | | | 1,5 | 0,2 | 40 | 4 | ☑ |
| 2CREG-003-0005-010 | 0,3 | R 0,05 | 1 | 0,3 | 40 | 4 | ☑ |
| 2CREG-003-0005-020 | | | 2 | 0,3 | 40 | 4 | ☑ |
| 2CREG-003-0005-030 | | | 3 | 0,3 | 40 | 4 | ☑ |
| 2CREG-004-0005-010 | 0,4 | R 0,05 | 1 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-0005-020 | | | 2 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-0005-030 | | | 3 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-0005-040 | | | 4 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-001-010 | | R 0,1 | 1 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-001-015 | | | 1,5 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-001-020 | | | 2 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-001-030 | | | 3 | 0,5 | 40 | 4 | ☑ |
| 2CREG-004-001-040 | | | 4 | 0,5 | 40 | 4 | ☑ |
| 2CREG-005-0005-010 | 0,5 | R 0,05 | 1 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-015 | | | 1,5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-020 | | | 2 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-025 | | | 2,5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-050 | | | 5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-0005-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-010 | | R 0,1 | 1 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-015 | | | 1,5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-020 | | | 2 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-025 | | | 2,5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-030 | | | 3 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-040 | | | 4 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-050 | | | 5 | 0,6 | 45 | 4 | ☑ |
| 2CREG-005-001-060 | | | 6 | 0,6 | 45 | 4 | ☑ |
| 2CREG-006-0005-020 | 0,6 | R 0,05 | 2 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-0005-030 | | | 3 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-0005-040 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-0005-060 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-0005-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-001-020 | | R 0,1 | 2 | 0,7 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-006-001-030 | 0,6 | R 0,1 | 3 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-001-040 | | | 4 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-001-060 | | | 6 | 0,7 | 45 | 4 | ☑ |
| 2CREG-006-001-080 | | | 8 | 0,7 | 45 | 4 | ☑ |
| 2CREG-007-001-020 | 0,7 | R 0,1 | 2 | 0,8 | 45 | 4 | ☑ |
| 2CREG-007-001-040 | | | 4 | 0,8 | 45 | 4 | ☑ |
| 2CREG-007-001-060 | | | 6 | 0,8 | 45 | 4 | ☑ |
| 2CREG-008-001-020 | 0,8 | R 0,1 | 2 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-001-040 | | | 4 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-001-060 | | | 6 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-001-080 | | | 8 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-002-020 | | R 0,2 | 2 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-002-040 | | | 4 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-002-060 | | | 6 | 0,9 | 45 | 4 | ☑ |
| 2CREG-008-002-080 | | | 8 | 0,9 | 45 | 4 | ☑ |
| 2CREG-010-001-040 | 1 | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 2CREG-010-003-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-003-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 2CREG-010-003-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 2CREG-012-001-040 | 1,2 | R 0,1 | 4 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-001-060 | | | 6 | 1,4 | 45 | 4 | ☑ |

◀ zpět na obsah

# 2CREG

## 2-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-012-001-080 | 1,2 | R 0,1 | 8 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-001-100 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-001-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-001-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-001-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-002-040 | | R 0,2 | 4 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-002-060 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-002-080 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-002-100 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-002-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-002-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-002-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-003-040 | | R 0,3 | 4 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-003-060 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-003-080 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 2CREG-012-003-100 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-003-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-003-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 2CREG-012-003-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 2CREG-015-001-040 | 1,5 | R 0,1 | 4 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-001-060 | | | 6 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-001-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-001-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-001-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-001-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-001-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-001-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-001-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-002-040 | | R 0,2 | 4 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-002-060 | | | 6 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-002-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-002-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-002-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-002-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-002-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-002-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-002-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-003-040 | | R 0,3 | 4 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-003-060 | | | 6 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-003-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-003-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-003-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-003-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-003-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-003-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-003-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-005-040 | | R 0,5 | 4 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-005-060 | | | 6 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-005-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 2CREG-015-005-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-005-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-005-160 | | | 16 | 1,8 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-015-005-200 | 1,5 | R 0,5 | 20 | 1,8 | 50 | 4 | ☑ |
| 2CREG-015-005-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 2CREG-015-005-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 2CREG-020-001-060 | 2 | R 0,1 | 6 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-001-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-001-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-001-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-001-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-001-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-001-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 2CREG-020-001-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 2CREG-020-002-060 | | R 0,2 | 6 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-002-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-002-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-002-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-002-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-002-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-002-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 2CREG-020-002-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 2CREG-020-003-060 | | R 0,3 | 6 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-003-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-003-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-003-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-003-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-003-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-003-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 2CREG-020-003-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 2CREG-020-005-060 | | R 0,5 | 6 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-005-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 2CREG-020-005-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-005-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-005-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-005-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 2CREG-020-005-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 2CREG-020-005-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 2CREG-025-001-100 | 2,5 | R 0,1 | 10 | 3 | 50 | 4 | ☑ |
| 2CREG-025-001-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 2CREG-025-001-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 2CREG-025-001-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 2CREG-025-001-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 2CREG-025-002-100 | | R 0,2 | 10 | 3 | 50 | 4 | ☑ |
| 2CREG-025-002-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 2CREG-025-002-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 2CREG-025-002-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 2CREG-025-002-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 2CREG-025-003-100 | | R 0,3 | 10 | 3 | 50 | 4 | ☑ |
| 2CREG-025-003-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 2CREG-025-003-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 2CREG-025-003-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 2CREG-025-003-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 2CREG-025-005-100 | | R 0,5 | 10 | 3 | 50 | 4 | ☑ |
| 2CREG-025-005-160 | | | 16 | 3 | 50 | 4 | ☑ |

◀ zpět na obsah

# 2CREG

## 2-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-025-005-200 | 2,5 | R 0,5 | 20 | 3 | 50 | 4 | ☑ |
| 2CREG-025-005-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 2CREG-025-005-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 2CREG-030-001-100 | 3 | R 0,1 | 10 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-001-120 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-001-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 2CREG-030-001-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 2CREG-030-001-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2CREG-030-001-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2CREG-030-001-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2CREG-030-001-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2CREG-030-002-100 | | R 0,2 | 10 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-002-120 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-002-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 2CREG-030-002-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 2CREG-030-002-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2CREG-030-002-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2CREG-030-002-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2CREG-030-002-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2CREG-030-003-100 | | R 0,3 | 10 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-003-120 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-003-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 2CREG-030-003-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 2CREG-030-003-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2CREG-030-003-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2CREG-030-003-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2CREG-030-003-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2CREG-030-005-100 | | R 0,5 | 10 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-005-120 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-005-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 2CREG-030-005-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 2CREG-030-005-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2CREG-030-005-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2CREG-030-005-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2CREG-030-005-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2CREG-030-010-100 | | R 1 | 10 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-010-120 | | | 12 | 3,6 | 50 | 6 | ☑ |
| 2CREG-030-010-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 2CREG-030-010-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 2CREG-030-010-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 2CREG-030-010-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 2CREG-030-010-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 2CREG-030-010-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 2CREG-040-001-050 | 4 | R 0,1 | 12 | 4,8 | 50 | 4 | ☑ |
| 2CREG-040-001-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 2CREG-040-001-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2CREG-040-001-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2CREG-040-001-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2CREG-040-001-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2CREG-040-001-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2CREG-040-001-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2CREG-040-001-400 | | | 40 | 4,8 | 80 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-040-001-450 | 4 | R 0,1 | 45 | 4,8 | 90 | 6 | ☑ |
| 2CREG-040-001-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2CREG-040-002-050 | | R 0,2 | 12 | 4,8 | 50 | 4 | ☑ |
| 2CREG-040-002-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 2CREG-040-002-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2CREG-040-002-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2CREG-040-002-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2CREG-040-002-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2CREG-040-002-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2CREG-040-002-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2CREG-040-002-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 2CREG-040-002-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 2CREG-040-002-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2CREG-040-003-050 | | R 0,3 | 12 | 4,8 | 50 | 4 | ☑ |
| 2CREG-040-003-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 2CREG-040-003-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2CREG-040-003-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2CREG-040-003-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2CREG-040-003-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2CREG-040-003-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2CREG-040-003-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2CREG-040-003-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 2CREG-040-003-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 2CREG-040-003-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2CREG-040-005-050 | | R 0,5 | 12 | 4,8 | 50 | 4 | ☑ |
| 2CREG-040-005-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 2CREG-040-005-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2CREG-040-005-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2CREG-040-005-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2CREG-040-005-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2CREG-040-005-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2CREG-040-005-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2CREG-040-005-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 2CREG-040-005-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 2CREG-040-005-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2CREG-040-010-050 | | R 1 | 12 | 4,8 | 50 | 4 | ☑ |
| 2CREG-040-010-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 2CREG-040-010-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 2CREG-040-010-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 2CREG-040-010-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 2CREG-040-010-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 2CREG-040-010-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 2CREG-040-010-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 2CREG-040-010-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 2CREG-040-010-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 2CREG-040-010-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 2CREG-050-002-150 | 5 | R 0,2 | 15 | 6 | 55 | 6 | ☑ |
| 2CREG-050-002-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2CREG-050-002-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CREG-050-002-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CREG-050-002-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CREG-050-005-150 | | R 0,5 | 15 | 6 | 55 | 6 | ☑ |

◀ zpět na obsah

# 2CREG

## 2-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

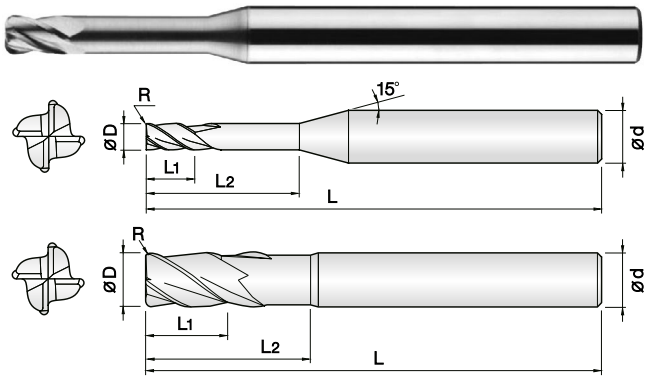
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-050-005-250 | 5 | R 0,5 | 25 | 6 | 70 | 6 | ☑ |
| 2CREG-050-005-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CREG-050-005-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CREG-050-005-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CREG-050-010-150 | | R 1 | 15 | 6 | 55 | 6 | ☑ |
| 2CREG-050-010-250 | | | 25 | 6 | 70 | 6 | ☑ |
| 2CREG-050-010-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 2CREG-050-010-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 2CREG-050-010-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 2CREG-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-001-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-060-002-200 | | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-002-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-003-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-005-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-010-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 2CREG-060-015-400 | | | 40 | 7 | 90 | 6 | ☑ |
| 2CREG-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 2CREG-080-002-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CREG-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 2CREG-080-003-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CREG-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 2CREG-080-005-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CREG-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 2CREG-080-010-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CREG-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 2CREG-080-015-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 2CREG-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-002-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-003-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-005-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-010-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-015-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 2CREG-100-020-450 | | | 45 | 11 | 100 | 10 | ☑ |
| 2CREG-120-002-260 | 12 | R 0,2 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-002-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-003-260 | | R 0,3 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-003-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-005-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-010-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 2CREG-120-015-500 | 12 | R 1,5 | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-020-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |
| 2CREG-120-030-500 | | | 50 | 13 | 110 | 12 | ☑ |
| 2CREG-160-005-110 | 16 | R 0,5 | 35 | 20 | 110 | 16 | ☑ |
| 2CREG-160-005-160 | | | 35 | 20 | 160 | 16 | ☑ |
| 2CREG-160-010-110 | | R 1 | 35 | 20 | 110 | 16 | ☑ |
| 2CREG-160-010-160 | | | 35 | 20 | 160 | 16 | ☑ |

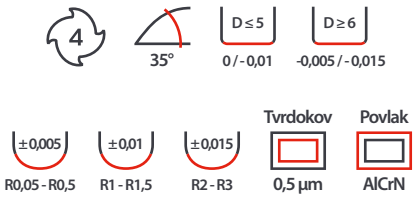
◀ zpět na obsah

# 4CREG

## 4-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Široký sortiment vyložení a rádiusů pro optimální výběr nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí




| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-010-0005-040 | 1 | R 0,05 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-0005-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-0005-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-0005-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-0005-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-0005-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-0005-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-001-040 | | R 0,1 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-001-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-001-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-001-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-001-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-001-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-001-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-002-040 | | R 0,2 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-002-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-002-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-002-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-002-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-002-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-002-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-003-040 | | R 0,3 | 4 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-003-060 | | | 6 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-003-080 | | | 8 | 1,2 | 45 | 4 | ☑ |
| 4CREG-010-003-100 | | | 10 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-003-120 | | | 12 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-003-160 | | | 16 | 1,2 | 50 | 4 | ☑ |
| 4CREG-010-003-200 | | | 20 | 1,2 | 50 | 4 | ☑ |
| 4CREG-012-001-040 | 1,2 | R 0,1 | 4 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-001-060 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-001-080 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-001-100 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-001-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-001-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-001-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-002-040 | | R 0,2 | 4 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-002-060 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-002-080 | | | 8 | 1,4 | 45 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-012-002-100 | 1,2 | R 0,2 | 10 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-002-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-002-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-002-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-003-040 | | R 0,3 | 4 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-003-060 | | | 6 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-003-080 | | | 8 | 1,4 | 45 | 4 | ☑ |
| 4CREG-012-003-100 | | | 10 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-003-120 | | | 12 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-003-160 | | | 16 | 1,4 | 50 | 4 | ☑ |
| 4CREG-012-003-200 | | | 20 | 1,4 | 50 | 4 | ☑ |
| 4CREG-015-001-060 | 1,5 | R 0,1 | 6 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-001-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-001-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-001-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-001-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-001-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-001-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-001-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-002-060 | | R 0,2 | 6 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-002-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-002-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-002-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-002-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-002-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-002-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-002-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-003-060 | | R 0,3 | 6 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-003-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-003-100 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-003-120 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-003-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-003-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-003-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-003-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-005-060 | | R 0,5 | 6 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-005-080 | | | 8 | 1,8 | 45 | 4 | ☑ |
| 4CREG-015-005-100 | | | 10 | 1,8 | 50 | 4 | ☑ |

◀ zpět na obsah

# 4CREG

## 4-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-015-005-120 | 1,5 | R 0,5 | 12 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-005-160 | | | 16 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-005-200 | | | 20 | 1,8 | 50 | 4 | ☑ |
| 4CREG-015-005-220 | | | 22 | 1,8 | 60 | 4 | ☑ |
| 4CREG-015-005-250 | | | 25 | 1,8 | 60 | 4 | ☑ |
| 4CREG-020-001-060 | 2 | R 0,1 | 6 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-001-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-001-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-001-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-001-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-001-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-001-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 4CREG-020-001-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-001-350 | | | 35 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-002-060 | | R 0,2 | 6 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-002-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-002-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-002-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-002-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-002-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-002-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 4CREG-020-002-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-002-350 | | | 35 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-003-060 | | R 0,3 | 6 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-003-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-003-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-003-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-003-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-003-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-003-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 4CREG-020-003-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-003-350 | | | 35 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-005-060 | | R 0,5 | 6 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-005-080 | | | 8 | 2,4 | 45 | 4 | ☑ |
| 4CREG-020-005-100 | | | 10 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-005-120 | | | 12 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-005-160 | | | 16 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-005-200 | | | 20 | 2,4 | 50 | 4 | ☑ |
| 4CREG-020-005-250 | | | 25 | 2,4 | 60 | 4 | ☑ |
| 4CREG-020-005-300 | | | 30 | 2,4 | 70 | 4 | ☑ |
| 4CREG-020-005-350 | | | 35 | 2,4 | 70 | 4 | ☑ |
| 4CREG-025-001-100 | 2,5 | R 0,1 | 10 | 3 | 50 | 4 | ☑ |
| 4CREG-025-001-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 4CREG-025-001-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 4CREG-025-001-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 4CREG-025-001-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 4CREG-025-002-100 | | R 0,2 | 10 | 3 | 50 | 4 | ☑ |
| 4CREG-025-002-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 4CREG-025-002-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 4CREG-025-002-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 4CREG-025-002-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 4CREG-025-003-100 | | R 0,3 | 10 | 3 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-025-003-160 | 2,5 | R 0,3 | 16 | 3 | 50 | 4 | ☑ |
| 4CREG-025-003-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 4CREG-025-003-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 4CREG-025-003-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 4CREG-025-005-100 | | R 0,5 | 10 | 3 | 50 | 4 | ☑ |
| 4CREG-025-005-160 | | | 16 | 3 | 50 | 4 | ☑ |
| 4CREG-025-005-200 | | | 20 | 3 | 50 | 4 | ☑ |
| 4CREG-025-005-250 | | | 25 | 3 | 60 | 4 | ☑ |
| 4CREG-025-005-300 | | | 30 | 3 | 70 | 4 | ☑ |
| 4CREG-030-001-100 | 3 | R 0,1 | 10 | 3,6 | 50 | 6 | ☑ |
| 4CREG-030-001-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 4CREG-030-001-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 4CREG-030-001-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 4CREG-030-001-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 4CREG-030-001-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 4CREG-030-001-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 4CREG-030-001-500 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 4CREG-030-002-100 | | R 0,2 | 10 | 3,6 | 50 | 6 | ☑ |
| 4CREG-030-002-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 4CREG-030-002-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 4CREG-030-002-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 4CREG-030-002-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 4CREG-030-002-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 4CREG-030-002-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 4CREG-030-002-500 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 4CREG-030-003-100 | | R 0,3 | 10 | 3,6 | 50 | 6 | ☑ |
| 4CREG-030-003-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 4CREG-030-003-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 4CREG-030-003-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 4CREG-030-003-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 4CREG-030-003-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 4CREG-030-003-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 4CREG-030-003-500 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 4CREG-030-005-100 | | R 0,5 | 10 | 3,6 | 50 | 6 | ☑ |
| 4CREG-030-005-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 4CREG-030-005-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 4CREG-030-005-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 4CREG-030-005-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 4CREG-030-005-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 4CREG-030-005-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 4CREG-030-005-500 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 4CREG-030-010-100 | | R 1 | 10 | 3,6 | 50 | 6 | ☑ |
| 4CREG-030-010-160 | | | 16 | 3,6 | 55 | 6 | ☑ |
| 4CREG-030-010-200 | | | 20 | 3,6 | 60 | 6 | ☑ |
| 4CREG-030-010-250 | | | 25 | 3,6 | 65 | 6 | ☑ |
| 4CREG-030-010-300 | | | 30 | 3,6 | 70 | 6 | ☑ |
| 4CREG-030-010-350 | | | 35 | 3,6 | 75 | 6 | ☑ |
| 4CREG-030-010-400 | | | 40 | 3,6 | 80 | 6 | ☑ |
| 4CREG-030-010-500 | | | 50 | 3,6 | 100 | 6 | ☑ |
| 4CREG-040-001-050 | 4 | R 0,1 | 12 | 4,8 | 50 | 4 | ☑ |
| 4CREG-040-001-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 4CREG-040-001-120 | | | 12 | 4,8 | 50 | 6 | ☑ |

◀ zpět na obsah

# 4CREG

## 4-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-040-001-160 | 4 | R 0,1 | 16 | 4,8 | 55 | 6 | ☑ |
| 4CREG-040-001-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 4CREG-040-001-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 4CREG-040-001-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 4CREG-040-001-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 4CREG-040-001-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 4CREG-040-001-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 4CREG-040-001-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 4CREG-040-002-050 | | R 0,2 | 12 | 4,8 | 50 | 4 | ☑ |
| 4CREG-040-002-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 4CREG-040-002-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 4CREG-040-002-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 4CREG-040-002-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 4CREG-040-002-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 4CREG-040-002-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 4CREG-040-002-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 4CREG-040-002-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 4CREG-040-002-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 4CREG-040-002-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 4CREG-040-003-050 | | R 0,3 | 12 | 4,8 | 50 | 4 | ☑ |
| 4CREG-040-003-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 4CREG-040-003-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 4CREG-040-003-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 4CREG-040-003-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 4CREG-040-003-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 4CREG-040-003-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 4CREG-040-003-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 4CREG-040-003-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 4CREG-040-003-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 4CREG-040-003-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 4CREG-040-005-050 | | R 0,5 | 12 | 4,8 | 50 | 4 | ☑ |
| 4CREG-040-005-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 4CREG-040-005-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 4CREG-040-005-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 4CREG-040-005-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 4CREG-040-005-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 4CREG-040-005-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 4CREG-040-005-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 4CREG-040-005-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 4CREG-040-005-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 4CREG-040-005-500 | | | 50 | 4,8 | 100 | 6 | ☑ |
| 4CREG-040-010-050 | | R 1 | 12 | 4,8 | 50 | 4 | ☑ |
| 4CREG-040-010-070 | | | 20 | 4,8 | 70 | 4 | ☑ |
| 4CREG-040-010-120 | | | 12 | 4,8 | 50 | 6 | ☑ |
| 4CREG-040-010-160 | | | 16 | 4,8 | 55 | 6 | ☑ |
| 4CREG-040-010-200 | | | 20 | 4,8 | 60 | 6 | ☑ |
| 4CREG-040-010-250 | | | 25 | 4,8 | 65 | 6 | ☑ |
| 4CREG-040-010-300 | | | 30 | 4,8 | 70 | 6 | ☑ |
| 4CREG-040-010-350 | | | 35 | 4,8 | 75 | 6 | ☑ |
| 4CREG-040-010-400 | | | 40 | 4,8 | 80 | 6 | ☑ |
| 4CREG-040-010-450 | | | 45 | 4,8 | 90 | 6 | ☑ |
| 4CREG-040-010-500 | | | 50 | 4,8 | 100 | 6 | ☑ |

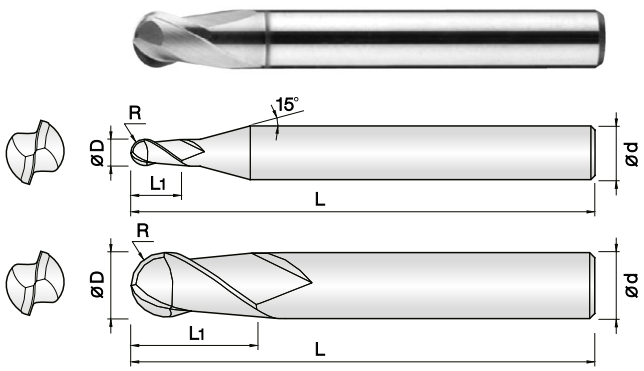
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-050-001-150 | 5 | R 0,1 | 15 | 6 | 55 | 6 | ☑ |
| 4CREG-050-001-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 4CREG-050-001-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 4CREG-050-001-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 4CREG-050-002-150 | | R 0,2 | 15 | 6 | 55 | 6 | ☑ |
| 4CREG-050-002-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 4CREG-050-002-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 4CREG-050-002-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 4CREG-050-003-150 | | R 0,3 | 15 | 6 | 55 | 6 | ☑ |
| 4CREG-050-003-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 4CREG-050-003-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 4CREG-050-003-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 4CREG-050-005-150 | | R 0,5 | 15 | 6 | 55 | 6 | ☑ |
| 4CREG-050-005-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 4CREG-050-005-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 4CREG-050-005-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 4CREG-050-010-150 | | R 1 | 15 | 6 | 55 | 6 | ☑ |
| 4CREG-050-010-300 | | | 30 | 6 | 70 | 6 | ☑ |
| 4CREG-050-010-400 | | | 40 | 6 | 80 | 6 | ☑ |
| 4CREG-050-010-500 | | | 50 | 6 | 100 | 6 | ☑ |
| 4CREG-060-001-200 | 6 | R 0,1 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-001-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-001-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-060-002-200 | | R 0,2 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-002-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-002-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-060-003-200 | | R 0,3 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-003-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-003-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-060-005-200 | | R 0,5 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-005-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-005-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-060-010-200 | | R 1 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-010-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-010-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-060-015-200 | | R 1,5 | 20 | 7 | 60 | 6 | ☑ |
| 4CREG-060-015-400 | | | 40 | 7 | 80 | 6 | ☑ |
| 4CREG-060-015-500 | | | 50 | 7 | 100 | 6 | ☑ |
| 4CREG-080-002-220 | 8 | R 0,2 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-080-003-220 | | R 0,3 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-080-005-220 | | R 0,5 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-080-005-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CREG-080-010-220 | | R 1 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-080-010-400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CREG-080-015-220 | | R 1,5 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-080-015400 | | | 40 | 9 | 100 | 8 | ☑ |
| 4CREG-080-020-220 | | R 2 | 22 | 9 | 65 | 8 | ☑ |
| 4CREG-100-002-240 | 10 | R 0,2 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-100-003-240 | | R 0,3 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-100-005-240 | | R 0,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-100-005-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CREG-100-010-240 | | R 1 | 24 | 11 | 70 | 10 | ☑ |

# 4CREG 4-břité TOROIDNÍ frézy pro žebrování pro široký sortiment ocelí do HRC 52

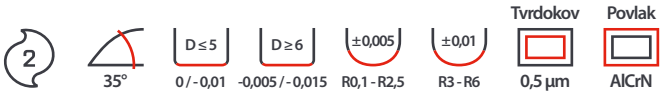
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4CREG-100-010-400 | 10 | R 1 | 40 | 11 | 100 | 10 | ☑ |
| 4CREG-100-015-240 | | R 1,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-100-015-400 | | | 40 | 11 | 100 | 10 | ☑ |
| 4CREG-100-020-240 | | R 2 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-100-025-240 | | R 2,5 | 24 | 11 | 70 | 10 | ☑ |
| 4CREG-120-003-260 | 12 | R 0,3 | 26 | 13 | 80 | 12 | ☑ |
| 4CREG-120-005-260 | | R 0,5 | 26 | 13 | 80 | 12 | ☑ |
| 4CREG-120-005-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CREG-120-010-260 | | R 1 | 26 | 13 | 80 | 12 | ☑ |
| 4CREG-120-010-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CREG-120-015-260 | | R 1,5 | 26 | 13 | 80 | 12 | ☑ |
| 4CREG-120-015-400 | | | 40 | 13 | 110 | 12 | ☑ |
| 4CREG-120-020-260 | | R 2 | 26 | 13 | 80 | 12 | ☑ |
| 4CREG-120-030-260 | | R 3 | 26 | 13 | 80 | 12 | ☑ |

◀ zpět na obsah

# 2HSBG 2-břité KULOVÉ frézy krátké pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Vysoká tuhost
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

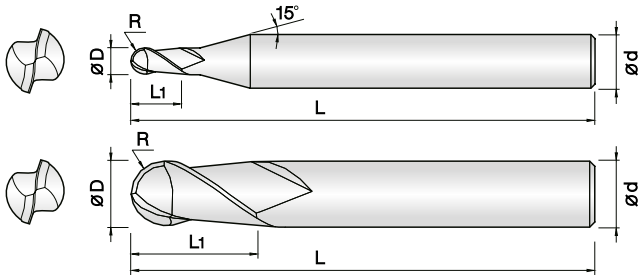



NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HSBG-002-002-S04 | 0,2 | R 0,1 | 0,2 | 40 | 4 | ☑ |
| 2HSBG-003-003-S04 | 0,3 | R 0,15 | 0,3 | 40 | 4 | ☑ |
| 2HSBG-004-004-S04 | 0,4 | R 0,2 | 0,4 | 40 | 4 | ☑ |
| 2HSBG-005-005-S04 | 0,5 | R 0,25 | 0,5 | 40 | 4 | ☑ |
| 2HSBG-006-006-S04 | 0,6 | R 0,3 | 0,6 | 40 | 4 | ☑ |
| 2HSBG-007-007-S04 | 0,7 | R 0,35 | 0,7 | 40 | 4 | ☑ |
| 2HSBG-008-008-S04 | 0,8 | R 0,4 | 0,8 | 40 | 4 | ☑ |
| 2HSBG-009-009-S04 | 0,9 | R 0,45 | 0,9 | 40 | 4 | ☑ |
| 2HSBG-010-010-S04 | 1 | R 0,5 | 1 | 40 | 4 | ☑ |
| 2HSBG-010-010-S06 | | | 1 | 40 | 6 | ☑ |
| 2HSBG-012-012-S04 | 1,2 | R 0,6 | 1,2 | 40 | 4 | ☑ |
| 2HSBG-015-015-S04 | 1,5 | R 0,75 | 1,5 | 40 | 4 | ☑ |
| 2HSBG-015-015-S06 | | | 1,5 | 40 | 6 | ☑ |
| 2HSBG-020-020-S04 | 2 | R 1 | 2 | 45 | 4 | ☑ |
| 2HSBG-020-020-S06 | | | 2 | 45 | 6 | ☑ |
| 2HSBG-030-030-S04 | 3 | R 1,5 | 3 | 45 | 4 | ☑ |
| 2HSBG-030-030-S06 | | | 3 | 45 | 6 | ☑ |
| 2HSBG-040-040-S04 | 4 | R 2 | 4 | 45 | 4 | ☑ |
| 2HSBG-040-040-S06 | | | 4 | 45 | 6 | ☑ |
| 2HSBG-050-050-S06 | 5 | R 2,5 | 5 | 50 | 6 | ☑ |
| 2HSBG-060-060-050 | 6 | R 3 | 6 | 50 | 6 | ☑ |
| 2HSBG-060-060-060 | | | 6 | 60 | 6 | ☑ |
| 2HSBG-080-080-050 | 8 | R 4 | 8 | 50 | 8 | ☑ |
| 2HSBG-080-080-060 | | | 8 | 60 | 8 | ☑ |
| 2HSBG-100-100-060 | 10 | R 5 | 10 | 60 | 10 | ☑ |
| 2HSBG-100-100-070 | | | 10 | 70 | 10 | ☑ |
| 2HSBG-120-120-060 | 12 | R 6 | 12 | 60 | 12 | ☑ |
| 2HSBG-120-120-070 | | | 12 | 70 | 12 | ☑ |

◀ zpět na obsah

# 2HCBG 2-břité KULOVÉ frézy pro široký sortiment ocelí do HRC 52



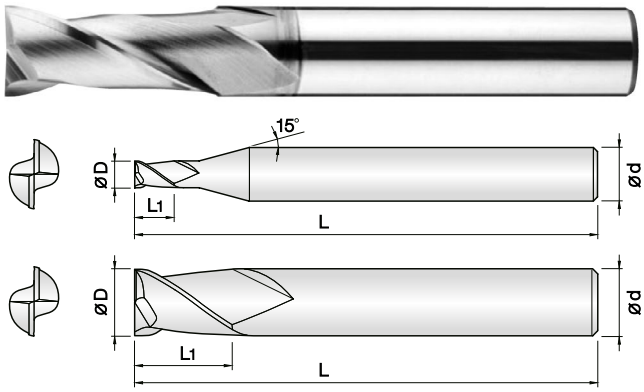

- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HCBG-001-002-S04 | 0,1 | R 0,05 | 0,2 | 40 | 4 | ☑ |
| 2HCBG-0015-003-S04 | 0,15 | R 0,075 | 0,3 | 40 | 4 | ☑ |
| 2HCBG-002-004-S04 | 0,2 | R 0,1 | 0,4 | 40 | 4 | ☑ |
| 2HCBG-003-006-S04 | 0,3 | R 0,15 | 0,6 | 40 | 4 | ☑ |
| 2HCBG-004-008-S04 | 0,4 | R 0,2 | 0,8 | 40 | 4 | ☑ |
| 2HCBG-005-010-S04 | 0,5 | R 0,25 | 1 | 45 | 4 | ☑ |
| 2HCBG-006-012-S04 | 0,6 | R 0,3 | 1,2 | 45 | 4 | ☑ |
| 2HCBG-007-015-S04 | 0,7 | R 0,35 | 1,5 | 45 | 4 | ☑ |
| 2HCBG-008-020-S04 | 0,8 | R 0,4 | 2 | 45 | 4 | ☑ |
| 2HCBG-009-020-S04 | 0,9 | R 0,45 | 2 | 45 | 4 | ☑ |
| 2HCBG-010-025-S04 | 1 | R 0,5 | 2,5 | 50 | 4 | ☑ |
| 2HCBG-010-025-S06 | | | 2,5 | 50 | 6 | ☑ |
| 2HCBG-010-025-070 | | | 2,5 | 70 | 6 | ☑ |
| 2HCBG-010-025-100 | | | 2,5 | 100 | 6 | ☑ |
| 2HCBG-012-030-S04 | 1,2 | R 0,6 | 3 | 50 | 4 | ☑ |
| 2HCBG-015-040-S04 | 1,5 | R 0,75 | 4 | 50 | 4 | ☑ |
| 2HCBG-015-040-S06 | | | 4 | 50 | 6 | ☑ |
| 2HCBG-015-040-070 | | | 4 | 70 | 6 | ☑ |
| 2HCBG-015-040-100 | | | 4 | 100 | 6 | ☑ |
| 2HCBG-020-050-S04 | 2 | R 1 | 5 | 50 | 4 | ☑ |
| 2HCBG-020-050-S06 | | | 5 | 50 | 6 | ☑ |
| 2HCBG-020-050-075 | | | 5 | 75 | 6 | ☑ |
| 2HCBG-020-050-100 | | | 5 | 100 | 6 | ☑ |
| 2HCBG-025-060-S04 | 2,5 | R 1,25 | 6 | 50 | 4 | ☑ |
| 2HCBG-025-060-S06 | | | 6 | 60 | 6 | ☑ |
| 2HCBG-025-060-075 | | | 6 | 75 | 6 | ☑ |
| 2HCBG-025-060-100 | | | 6 | 100 | 6 | ☑ |
| 2HCBG-030-080-S03 | 3 | R 1,5 | 8 | 60 | 3 | ☑ |
| 2HCBG-030-080-S04 | | | 8 | 50 | 4 | ☑ |
| 2HCBG-030-080-S06 | | | 8 | 60 | 6 | ☑ |
| 2HCBG-030-080-080 | | | 8 | 80 | 6 | ☑ |
| 2HCBG-030-080-100 | | | 8 | 100 | 6 | ☑ |
| 2HCBG-035-080-S06 | 3,5 | R 1,75 | 8 | 60 | 6 | ☑ |
| 2HCBG-040-080-060 | 4 | R 2 | 8 | 60 | 4 | ☑ |
| 2HCBG-040-080-080 | | | 8 | 80 | 4 | ☑ |
| 2HCBG-040-080-S06 | | | 8 | 70 | 6 | ☑ |
| 2HCBG-040-080-090 | | | 8 | 90 | 6 | ☑ |
| 2HCBG-040-080-120 | | | 8 | 120 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2HCBG-045-080-S06 | 4,5 | R 2,25 | 8 | 70 | 6 | ☑ |
| 2HCBG-050-080-S05 | 5 | R 2,5 | 8 | 80 | 5 | ☑ |
| 2HCBG-050-100-S06 | | | 10 | 75 | 6 | ☑ |
| 2HCBG-055-100-S06 | 5,5 | R 2,75 | 10 | 75 | 6 | ☑ |
| 2HCBG-060-100-060 | 6 | R 3 | 10 | 60 | 6 | ☑ |
| 2HCBG-060-120-080 | | | 12 | 80 | 6 | ☑ |
| 2HCBG-060-120-100 | | | 12 | 100 | 6 | ☑ |
| 2HCBG-060-120-120 | | | 12 | 120 | 6 | ☑ |
| 2HCBG-070-140-S08 | 7 | R 3,5 | 14 | 80 | 8 | ☑ |
| 2HCBG-080-120-060 | 8 | R 4 | 12 | 60 | 8 | ☑ |
| 2HCBG-080-140-090 | | | 14 | 90 | 8 | ☑ |
| 2HCBG-080-140-110 | | | 14 | 110 | 8 | ☑ |
| 2HCBG-080-140-150 | | | 14 | 150 | 8 | ☑ |
| 2HCBG-090-160-S10 | 9 | R 4,5 | 16 | 100 | 10 | ☑ |
| 2HCBG-100-150-070 | 10 | R 5 | 15 | 70 | 10 | ☑ |
| 2HCBG-100-180-100 | | | 18 | 100 | 10 | ☑ |
| 2HCBG-100-180-120 | | | 18 | 120 | 10 | ☑ |
| 2HCBG-100-180-150 | | | 18 | 150 | 10 | ☑ |
| 2HCBG-100-180-180 | | | 18 | 180 | 10 | ☑ |
| 2HCBG-110-200-S12 | 11 | R 5,5 | 20 | 110 | 12 | ☑ |
| 2HCBG-120-180-070 | 12 | R 6 | 18 | 70 | 12 | ☑ |
| 2HCBG-120-220-110 | | | 22 | 110 | 12 | ☑ |
| 2HCBG-120-220-130 | | | 22 | 130 | 12 | ☑ |
| 2HCBG-120-220-150 | | | 22 | 150 | 12 | ☑ |
| 2HCBG-120-220-200 | | | 22 | 200 | 12 | ☑ |
| 2HCBG-130-240-S14 | 13 | R 6,5 | 24 | 110 | 14 | ☑ |
| 2HCBG-140-240-S14 | 14 | R 7 | 24 | 110 | 14 | ☑ |
| 2HCBG-160-300-130 | 16 | R 8 | 30 | 130 | 16 | ☑ |
| 2HCBG-160-300-160 | | | 30 | 160 | 16 | ☑ |
| 2HCBG-160-300-200 | | | 30 | 200 | 16 | ☑ |
| 2HCBG-200-380-160 | 20 | R 10 | 38 | 160 | 20 | ☑ |
| 2HCBG-200-380-200 | | | 38 | 200 | 20 | ☑ |

◀ zpět na obsah

# 2HCEG 2-břité OSTRÉ frézy pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

2 | 35° | D≤0,15 0 / - 0,005 | D≥0,2 0 / - 0,01 | D≥6 -0,01 / - 0,025 | D≥14 -0,015 / - 0,03 | Tvrdokov 0,5 µm | Povlak AlCrN

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCEG-001-002-S04 | 0,1 | 0,2 | 38 | 4 | ☑ |
| 2HCEG-0015-003-S04 | 0,15 | 0,3 | 38 | 4 | ☑ |
| 2HCEG-002-004-S04 | 0,2 | 0,4 | 38 | 4 | ☑ |
| 2HCEG-0025-005-S04 | 0,25 | 0,5 | 38 | 4 | ☑ |
| 2HCEG-003-006-S04 | 0,3 | 0,6 | 38 | 4 | ☑ |
| 2HCEG-0035-007-S04 | 0,35 | 0,7 | 38 | 4 | ☑ |
| 2HCEG-004-008-S04 | 0,4 | 0,8 | 38 | 4 | ☑ |
| 2HCEG-0045-009-S04 | 0,45 | 0,9 | 38 | 4 | ☑ |
| 2HCEG-005-010-S04 | 0,5 | 1 | 38 | 4 | ☑ |
| 2HCEG-0055-011-S04 | 0,55 | 1,1 | 38 | 4 | ☑ |
| 2HCEG-006-012-S04 | 0,6 | 1,2 | 38 | 4 | ☑ |
| 2HCEG-0065-013-S04 | 0,65 | 1,3 | 38 | 4 | ☑ |
| 2HCEG-007-014-S04 | 0,7 | 1,4 | 38 | 4 | ☑ |
| 2HCEG-0075-015-S04 | 0,75 | 1,5 | 38 | 4 | ☑ |
| 2HCEG-008-016-S04 | 0,8 | 1,6 | 38 | 4 | ☑ |
| 2HCEG-0085-017-S04 | 0,85 | 1,7 | 38 | 4 | ☑ |
| 2HCEG-009-020-S04 | 0,9 | 2 | 38 | 4 | ☑ |
| 2HCEG-0095-020-S04 | 0,95 | 2 | 38 | 4 | ☑ |
| 2HCEG-010-010-S04 | 1 | 1 | 40 | 4 | ☑ |
| 2HCEG-010-025-S04 | | 2,5 | 40 | 4 | ☑ |
| 2HCEG-010-025-S06 | | 2,5 | 40 | 6 | ☑ |
| 2HCEG-010-025-060 | | 2,5 | 60 | 6 | ☑ |
| 2HCEG-010-040-S06 | | 4 | 50 | 6 | ☑ |
| 2HCEG-011-027-S04 | 1,1 | 2,7 | 40 | 4 | ☑ |
| 2HCEG-012-012-S04 | 1,2 | 1,2 | 40 | 4 | ☑ |
| 2HCEG-012-030-S04 | | 3 | 40 | 4 | ☑ |
| 2HCEG-012-030-S06 | | 3 | 40 | 6 | ☑ |
| 2HCEG-012-030-060 | | 3 | 60 | 6 | ☑ |
| 2HCEG-012-060-S06 | | 6 | 50 | 6 | ☑ |
| 2HCEG-013-032-S04 | 1,3 | 3,2 | 40 | 4 | ☑ |
| 2HCEG-014-035-S04 | 1,4 | 3,5 | 40 | 4 | ☑ |
| 2HCEG-015-015-S04 | 1,5 | 1,5 | 40 | 4 | ☑ |
| 2HCEG-015-040-S04 | | 4 | 40 | 4 | ☑ |
| 2HCEG-015-040-S06 | | 4 | 40 | 6 | ☑ |
| 2HCEG-015-040-060 | | 4 | 60 | 6 | ☑ |
| 2HCEG-016-040-S04 | 1,6 | 4 | 40 | 4 | ☑ |
| 2HCEG-017-042-S04 | 1,7 | 4,2 | 40 | 4 | ☑ |
| 2HCEG-018-045-S04 | 1,8 | 4,5 | 40 | 4 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCEG-019-050-S04 | 1,9 | 5 | 40 | 4 | ☑ |
| 2HCEG-020-020-S04 | 2 | 2 | 40 | 4 | ☑ |
| 2HCEG-020-060-S04 | | 6 | 40 | 4 | ☑ |
| 2HCEG-020-060-S06 | | 6 | 40 | 6 | ☑ |
| 2HCEG-020-060-060 | | 6 | 60 | 6 | ☑ |
| 2HCEG-021-060-S04 | 2,1 | 6 | 40 | 4 | ☑ |
| 2HCEG-022-060-S04 | 2,2 | 6 | 40 | 4 | ☑ |
| 2HCEG-023-060-S04 | 2,3 | 6 | 40 | 4 | ☑ |
| 2HCEG-024-080-S04 | 2,4 | 8 | 45 | 4 | ☑ |
| 2HCEG-025-080-S04 | 2,5 | 8 | 45 | 4 | ☑ |
| 2HCEG-025-080-S06 | | 8 | 45 | 6 | ☑ |
| 2HCEG-025-080-070 | | 8 | 70 | 6 | ☑ |
| 2HCEG-026-080-S04 | 2,6 | 8 | 45 | 4 | ☑ |
| 2HCEG-027-080-S04 | 2,7 | 8 | 45 | 4 | ☑ |
| 2HCEG-028-080-S04 | 2,8 | 8 | 45 | 4 | ☑ |
| 2HCEG-029-080-S04 | 2,9 | 8 | 45 | 4 | ☑ |
| 2HCEG-030-030-S04 | 3 | 3 | 40 | 4 | ☑ |
| 2HCEG-030-080-S04 | | 8 | 45 | 4 | ☑ |
| 2HCEG-030-080-S06 | | 8 | 45 | 6 | ☑ |
| 2HCEG-030-080-070 | | 8 | 70 | 6 | ☑ |
| 2HCEG-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 2HCEG-040-040-S04 | 4 | 4 | 40 | 4 | ☑ |
| 2HCEG-040-100-S04 | | 10 | 45 | 4 | ☑ |
| 2HCEG-040-110-S06 | | 11 | 45 | 6 | ☑ |
| 2HCEG-040-110-070 | | 11 | 70 | 6 | ☑ |
| 2HCEG-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |
| 2HCEG-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 2HCEG-050-130-080 | | 13 | 80 | 6 | ☑ |
| 2HCEG-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 2HCEG-060-060-S06 | 6 | 6 | 45 | 6 | ☑ |
| 2HCEG-060-130-S06 | | 13 | 50 | 6 | ☑ |
| 2HCEG-060-130-080 | | 13 | 80 | 6 | ☑ |
| 2HCEG-060-150-S06 | | 15 | 60 | 6 | ☑ |
| 2HCEG-065-160-S08 | 6,5 | 16 | 60 | 8 | ☑ |
| 2HCEG-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 2HCEG-075-160-S08 | 7,5 | 16 | 60 | 8 | ☑ |
| 2HCEG-080-080-S08 | 8 | 8 | 50 | 8 | ☑ |
| 2HCEG-080-190-S08 | | 19 | 60 | 8 | ☑ |

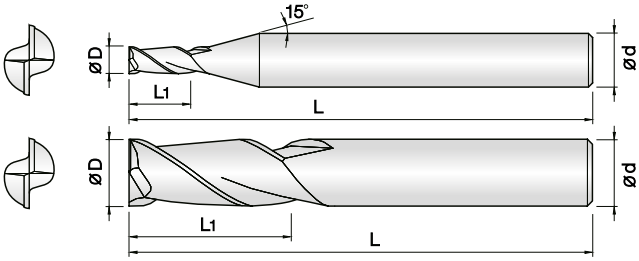
# 2HCEG 2-břité OSTRÉ frézy pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2HCEG-080-200-S08 | 8 | 20 | 70 | 8 | ☑ |
| 2HCEG-085-190-S10 | 8,5 | 19 | 70 | 10 | ☑ |
| 2HCEG-090-190-S10 | 9 | 19 | 70 | 10 | ☑ |
| 2HCEG-095-190-S10 | 9,5 | 19 | 70 | 10 | ☑ |
| 2HCEG-100-100-S10 | 10 | 10 | 60 | 10 | ☑ |
| 2HCEG-100-220-S10 | | 22 | 70 | 10 | ☑ |
| 2HCEG-100-250-S10 | | 25 | 75 | 10 | ☑ |
| 2HCEG-105-220-S12 | 10,5 | 22 | 75 | 12 | ☑ |
| 2HCEG-110-220-S12 | 11 | 22 | 75 | 12 | ☑ |
| 2HCEG-115-220-S12 | 11,5 | 22 | 75 | 12 | ☑ |
| 2HCEG-120-120-S12 | 12 | 12 | 65 | 12 | ☑ |
| 2HCEG-120-260-S12 | | 26 | 75 | 12 | ☑ |
| 2HCEG-120-300-S12 | | 30 | 80 | 12 | ☑ |
| 2HCEG-140-260-S14 | 14 | 26 | 80 | 14 | ☑ |
| 2HCEG-140-260-S16 | | 26 | 85 | 16 | ☑ |
| 2HCEG-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 2HCEG-160-400-S16 | | 40 | 100 | 16 | ☑ |
| 2HCEG-180-350-S18 | 18 | 35 | 100 | 18 | ☑ |
| 2HCEG-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |
| 2HCEG-200-500-S20 | | 50 | 110 | 20 | ☑ |

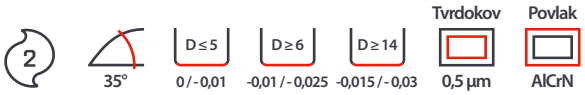
◀ zpět na obsah

# 2LEMG

## 2-břité OSTRÉ frézy dlouhé pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Široký sortiment délek pro optimální volbu nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí



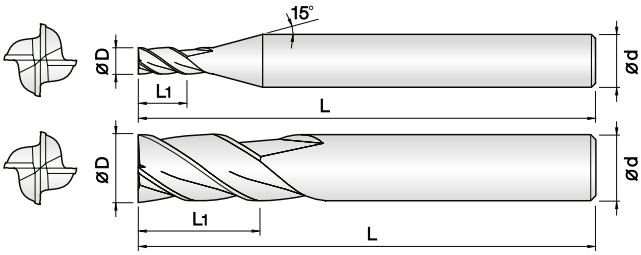

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2LEMG-010-030-S06 | 1 | 3 | 60 | 6 | ☑ |
| 2LEMG-010-050-S06 | | 5 | 60 | 6 | ☑ |
| 2LEMG-010-070-S06 | | 7 | 60 | 6 | ☑ |
| 2LEMG-010-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEMG-010-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEMG-015-060-S06 | 1,5 | 6 | 60 | 6 | ☑ |
| 2LEMG-015-075-S06 | | 7.5 | 60 | 6 | ☑ |
| 2LEMG-015-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEMG-015-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEMG-015-200-S06 | | 20 | 60 | 6 | ☑ |
| 2LEMG-020-060-S06 | 2 | 6 | 60 | 6 | ☑ |
| 2LEMG-020-100-S06 | | 10 | 60 | 6 | ☑ |
| 2LEMG-020-150-S06 | | 15 | 60 | 6 | ☑ |
| 2LEMG-020-200-S06 | | 20 | 60 | 6 | ☑ |
| 2LEMG-030-120-S06 | 3 | 12 | 70 | 6 | ☑ |
| 2LEMG-030-150-S06 | | 15 | 70 | 6 | ☑ |
| 2LEMG-030-200-S06 | | 20 | 70 | 6 | ☑ |
| 2LEMG-030-250-S06 | | 25 | 70 | 6 | ☑ |
| 2LEMG-030-300-S06 | | 30 | 70 | 6 | ☑ |
| 2LEMG-040-150-S06 | 4 | 15 | 70 | 6 | ☑ |
| 2LEMG-040-200-S06 | | 20 | 70 | 6 | ☑ |
| 2LEMG-040-300-S06 | | 30 | 75 | 6 | ☑ |
| 2LEMG-050-200-S06 | 5 | 20 | 70 | 6 | ☑ |
| 2LEMG-050-250-S06 | | 25 | 75 | 6 | ☑ |
| 2LEMG-050-300-S06 | | 30 | 80 | 6 | ☑ |
| 2LEMG-060-200-S06 | 6 | 20 | 75 | 6 | ☑ |
| 2LEMG-060-200-100 | | 20 | 100 | 6 | ☑ |
| 2LEMG-060-250-S06 | | 25 | 75 | 6 | ☑ |
| 2LEMG-060-300-S06 | | 30 | 80 | 6 | ☑ |
| 2LEMG-080-250-S08 | 8 | 25 | 75 | 8 | ☑ |
| 2LEMG-080-250-100 | | 25 | 100 | 8 | ☑ |
| 2LEMG-080-300-S08 | | 30 | 80 | 8 | ☑ |
| 2LEMG-080-350-S08 | | 35 | 80 | 8 | ☑ |
| 2LEMG-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 2LEMG-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 2LEMG-100-300-S10 | 10 | 30 | 80 | 10 | ☑ |
| 2LEMG-100-300-110 | | 30 | 110 | 10 | ☑ |
| 2LEMG-100-350-S10 | | 35 | 90 | 10 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 2LEMG-100-400-S10 | 10 | 40 | 90 | 10 | ☑ |
| 2LEMG-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 2LEMG-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 2LEMG-120-300-S12 | 12 | 30 | 90 | 12 | ☑ |
| 2LEMG-120-350-110 | | 35 | 110 | 12 | ☑ |
| 2LEMG-120-400-S12 | | 40 | 100 | 12 | ☑ |
| 2LEMG-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 2LEMG-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 2LEMG-120-700-S12 | | 70 | 130 | 12 | ☑ |
| 2LEMG-140-500-S14 | 14 | 50 | 110 | 14 | ☑ |
| 2LEMG-160-400-160 | 16 | 40 | 160 | 16 | ☑ |
| 2LEMG-160-550-S16 | | 55 | 120 | 16 | ☑ |
| 2LEMG-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 2LEMG-160-800-S16 | | 80 | 160 | 16 | ☑ |
| 2LEMG-200-500-160 | 20 | 50 | 160 | 20 | ☑ |
| 2LEMG-200-600-S20 | | 60 | 130 | 20 | ☑ |
| 2LEMG-200-1000-S20 | | 100 | 200 | 20 | ☑ |
| 2LEMG-250-750-S25 | 25 | 75 | 160 | 25 | ☑ |

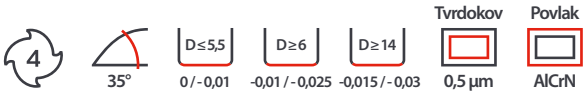
◀ zpět na obsah

# 4HCEG

## 4-břité OSTRÉ frézy pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí



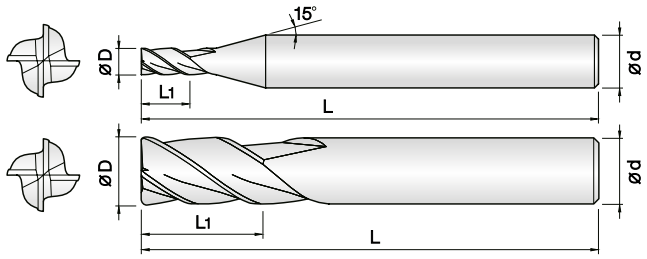

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HCEG-008-020-S04 | 0,8 | 2 | 40 | 4 | ☑ |
| 4HCEG-010-010-S04 | 1 | 1 | 40 | 4 | ☑ |
| 4HCEG-010-025-S04 | | 2,5 | 40 | 4 | ☑ |
| 4HCEG-010-025-S06 | | 2,5 | 40 | 6 | ☑ |
| 4HCEG-010-025-060 | | 2,5 | 60 | 6 | ☑ |
| 4HCEG-010-025-080 | | 2,5 | 80 | 6 | ☑ |
| 4HCEG-010-040-S06 | | 4 | 50 | 6 | ☑ |
| 4HCEG-012-012-S04 | 1,2 | 1,2 | 40 | 4 | ☑ |
| 4HCEG-012-030-S04 | | 3 | 40 | 4 | ☑ |
| 4HCEG-012-030-S06 | | 3 | 40 | 6 | ☑ |
| 4HCEG-012-030-060 | | 3 | 60 | 6 | ☑ |
| 4HCEG-012-060-S06 | | 6 | 50 | 6 | ☑ |
| 4HCEG-015-015-S04 | 1,5 | 1,5 | 40 | 4 | ☑ |
| 4HCEG-015-040-S04 | | 4 | 40 | 4 | ☑ |
| 4HCEG-015-040-S06 | | 4 | 40 | 6 | ☑ |
| 4HCEG-015-040-060 | | 4 | 60 | 6 | ☑ |
| 4HCEG-015-040-080 | | 4 | 80 | 6 | ☑ |
| 4HCEG-020-020-S04 | 2 | 2 | 40 | 4 | ☑ |
| 4HCEG-020-060-S04 | | 6 | 40 | 4 | ☑ |
| 4HCEG-020-060-S06 | | 6 | 40 | 6 | ☑ |
| 4HCEG-020-060-060 | | 6 | 60 | 6 | ☑ |
| 4HCEG-020-060-100 | | 6 | 100 | 6 | ☑ |
| 4HCEG-025-080-S04 | 2,5 | 8 | 45 | 4 | ☑ |
| 4HCEG-025-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HCEG-025-080-070 | | 8 | 70 | 6 | ☑ |
| 4HCEG-025-080-100 | | 8 | 100 | 6 | ☑ |
| 4HCEG-030-080-S03 | 3 | 8 | 45 | 3 | ☑ |
| 4HCEG-030-080-S04 | | 8 | 45 | 4 | ☑ |
| 4HCEG-030-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HCEG-030-080-070 | | 8 | 70 | 6 | ☑ |
| 4HCEG-030-080-100 | | 8 | 100 | 6 | ☑ |
| 4HCEG-035-100-S06 | 3,5 | 10 | 45 | 6 | ☑ |
| 4HCEG-040-040-S04 | 4 | 4 | 40 | 4 | ☑ |
| 4HCEG-040-110-S04 | | 11 | 45 | 4 | ☑ |
| 4HCEG-040-110-S06 | | 11 | 45 | 6 | ☑ |
| 4HCEG-040-110-070 | | 11 | 70 | 6 | ☑ |
| 4HCEG-040-110-100 | | 11 | 100 | 6 | ☑ |
| 4HCEG-045-110-S06 | 4,5 | 11 | 45 | 6 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HCEG-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 4HCEG-050-130-080 | | 13 | 80 | 6 | ☑ |
| 4HCEG-050-130-100 | | 13 | 100 | 6 | ☑ |
| 4HCEG-055-130-S06 | 5,5 | 13 | 50 | 6 | ☑ |
| 4HCEG-060-060-S06 | 6 | 6 | 45 | 6 | ☑ |
| 4HCEG-060-130-S06 | | 13 | 50 | 6 | ☑ |
| 4HCEG-060-130-080 | | 13 | 80 | 6 | ☑ |
| 4HCEG-060-130-100 | | 13 | 100 | 6 | ☑ |
| 4HCEG-060-150-S06 | | 15 | 60 | 6 | ☑ |
| 4HCEG-065-160-S08 | 6,5 | 16 | 60 | 8 | ☑ |
| 4HCEG-070-160-S08 | 7 | 16 | 60 | 8 | ☑ |
| 4HCEG-075-160-S08 | 7,5 | 16 | 60 | 8 | ☑ |
| 4HCEG-080-080-S08 | 8 | 8 | 50 | 8 | ☑ |
| 4HCEG-080-190-S08 | | 19 | 60 | 8 | ☑ |
| 4HCEG-080-200-S08 | | 20 | 70 | 8 | ☑ |
| 4HCEG-085-190-S10 | 8,5 | 19 | 70 | 10 | ☑ |
| 4HCEG-090-190-S10 | 9 | 19 | 70 | 10 | ☑ |
| 4HCEG-095-190-S10 | 9,5 | 19 | 70 | 10 | ☑ |
| 4HCEG-100-100-S10 | 10 | 10 | 60 | 10 | ☑ |
| 4HCEG-100-220-S10 | | 22 | 70 | 10 | ☑ |
| 4HCEG-100-250-S10 | | 25 | 75 | 10 | ☑ |
| 4HCEG-105-220-S12 | 10,5 | 22 | 75 | 12 | ☑ |
| 4HCEG-110-220-S12 | 11 | 22 | 75 | 12 | ☑ |
| 4HCEG-115-220-S12 | 11,5 | 22 | 75 | 12 | ☑ |
| 4HCEG-120-120-S12 | 12 | 12 | 65 | 12 | ☑ |
| 4HCEG-120-260-S12 | | 26 | 75 | 12 | ☑ |
| 4HCEG-120-300-S12 | | 30 | 80 | 12 | ☑ |
| 4HCEG-140-260-S14 | 14 | 26 | 80 | 14 | ☑ |
| 4HCEG-140-260-S16 | | 26 | 85 | 16 | ☑ |
| 4HCEG-160-350-S16 | 16 | 35 | 100 | 16 | ☑ |
| 4HCEG-160-400-S16 | | 40 | 100 | 16 | ☑ |
| 4HCEG-180-350-S18 | 18 | 35 | 100 | 18 | ☑ |
| 4HCEG-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |
| 4HCEG-200-450-S20 | | 45 | 100 | 20 | ☑ |

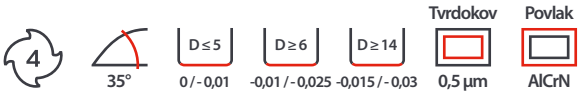
◀ zpět na obsah

# 4LEMG

## 4-břité OSTRÉ frézy dlouhé pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Široký sortiment délek pro optimální volbu nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí



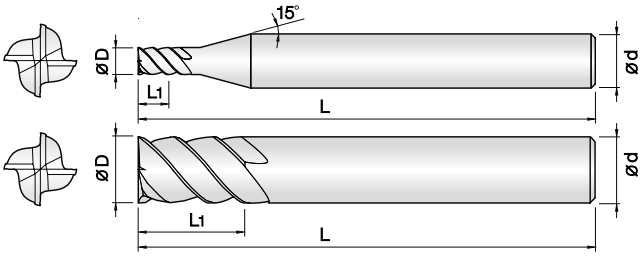

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4LEMG-010-030-S06 | 1 | 3 | 60 | 6 | ☑ |
| 4LEMG-010-050-S06 | | 5 | 60 | 6 | ☑ |
| 4LEMG-015-060-S06 | 1,5 | 6 | 60 | 6 | ☑ |
| 4LEMG-015-080-S06 | | 8 | 60 | 6 | ☑ |
| 4LEMG-020-080-S06 | 2 | 8 | 60 | 6 | ☑ |
| 4LEMG-020-100-S06 | | 10 | 60 | 6 | ☑ |
| 4LEMG-030-100-S06 | 3 | 10 | 70 | 6 | ☑ |
| 4LEMG-030-150-S06 | | 15 | 70 | 6 | ☑ |
| 4LEMG-030-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEMG-030-250-S06 | | 25 | 70 | 6 | ☑ |
| 4LEMG-040-120-S06 | 4 | 12 | 70 | 6 | ☑ |
| 4LEMG-040-150-S04 | | 15 | 70 | 4 | ☑ |
| 4LEMG-040-150-S06 | | 15 | 70 | 6 | ☑ |
| 4LEMG-040-200-S04 | | 20 | 70 | 4 | ☑ |
| 4LEMG-040-200-S06 | | 20 | 70 | 6 | ☑ |
| 4LEMG-040-250-S06 | | 25 | 70 | 6 | ☑ |
| 4LEMG-040-300-S06 | | 30 | 75 | 6 | ☑ |
| 4LEMG-050-200-S06 | 5 | 20 | 70 | 6 | ☑ |
| 4LEMG-050-250-S06 | | 25 | 75 | 6 | ☑ |
| 4LEMG-050-300-S06 | | 30 | 80 | 6 | ☑ |
| 4LEMG-060-200-S06 | 6 | 20 | 75 | 6 | ☑ |
| 4LEMG-060-200-100 | | 20 | 100 | 6 | ☑ |
| 4LEMG-060-250-S06 | | 25 | 75 | 6 | ☑ |
| 4LEMG-060-300-S06 | | 30 | 80 | 6 | ☑ |
| 4LEMG-060-350-S06 | | 35 | 80 | 6 | ☑ |
| 4LEMG-080-250-S08 | 8 | 25 | 75 | 8 | ☑ |
| 4LEMG-080-250-100 | | 25 | 100 | 8 | ☑ |
| 4LEMG-080-300-S08 | | 30 | 80 | 8 | ☑ |
| 4LEMG-080-350-S08 | | 35 | 90 | 8 | ☑ |
| 4LEMG-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 4LEMG-080-450-S08 | | 45 | 100 | 8 | ☑ |
| 4LEMG-100-300-S10 | 10 | 30 | 80 | 10 | ☑ |
| 4LEMG-100-300-110 | | 30 | 110 | 10 | ☑ |
| 4LEMG-100-350-S10 | | 35 | 90 | 10 | ☑ |
| 4LEMG-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 4LEMG-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 4LEMG-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 4LEMG-120-300-S12 | 12 | 30 | 90 | 12 | ☑ |

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4LEMG-120-350-110 | 12 | 35 | 110 | 12 | ☑ |
| 4LEMG-120-400-S12 | | 40 | 100 | 12 | ☑ |
| 4LEMG-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4LEMG-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 4LEMG-120-700-S12 | | 70 | 130 | 12 | ☑ |
| 4LEMG-140-500-S14 | 14 | 50 | 110 | 14 | ☑ |
| 4LEMG-160-400-160 | 16 | 40 | 160 | 16 | ☑ |
| 4LEMG-160-550-S16 | | 55 | 120 | 16 | ☑ |
| 4LEMG-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 4LEMG-180-800-160 | 18 | 80 | 160 | 18 | ☑ |
| 4LEMG-200-500-160 | 20 | 50 | 160 | 20 | ☑ |
| 4LEMG-200-600-S20 | | 60 | 130 | 20 | ☑ |
| 4LEMG-200-1000-S20 | | 100 | 200 | 20 | ☑ |
| 4LEMG-250-750-S25 | 25 | 75 | 160 | 25 | ☑ |

◀ zpět na obsah

# 4HEMG

## 4-břité OSTRÉ frézy 45° pro široký sortiment ocelí do HRC 52



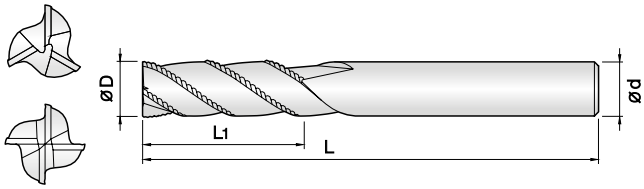

- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Vyšší posuvy díky 45° geometrii
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4HEMG-010-025-S06 | 1 | 2,5 | 40 | 6 | ☑ |
| 4HEMG-010-035-S06 | | 3,5 | 40 | 6 | ☑ |
| 4HEMG-015-040-S06 | 1,5 | 4 | 40 | 6 | ☑ |
| 4HEMG-015-060-S06 | | 6 | 40 | 6 | ☑ |
| 4HEMG-020-050-S06 | 2 | 5 | 40 | 6 | ☑ |
| 4HEMG-020-080-S06 | | 8 | 45 | 6 | ☑ |
| 4HEMG-030-080-S06 | 3 | 8 | 45 | 6 | ☑ |
| 4HEMG-030-120-S06 | | 12 | 50 | 6 | ☑ |
| 4HEMG-040-110-S06 | 4 | 11 | 45 | 6 | ☑ |
| 4HEMG-040-160-S06 | | 16 | 55 | 6 | ☑ |
| 4HEMG-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 4HEMG-050-180-S06 | | 18 | 60 | 6 | ☑ |
| 4HEMG-060-130-S06 | 6 | 13 | 50 | 6 | ☑ |
| 4HEMG-060-200-S06 | | 20 | 60 | 6 | ☑ |
| 4HEMG-080-200-S08 | 8 | 20 | 60 | 8 | ☑ |
| 4HEMG-080-250-S08 | | 25 | 70 | 8 | ☑ |
| 4HEMG-100-220-S10 | 10 | 22 | 70 | 10 | ☑ |
| 4HEMG-100-300-S10 | | 30 | 80 | 10 | ☑ |
| 4HEMG-120-260-S12 | 12 | 26 | 75 | 12 | ☑ |
| 4HEMG-120-400-S12 | | 40 | 90 | 12 | ☑ |
| 4HEMG-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4HEMG-160-350-S16 | 16 | 35 | 90 | 16 | ☑ |
| 4HEMG-160-500-S16 | | 50 | 110 | 16 | ☑ |
| 4HEMG-200-400-S20 | 20 | 40 | 100 | 20 | ☑ |
| 4HEMG-200-500-S20 | | 50 | 110 | 20 | ☑ |

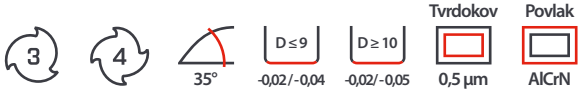
◀ zpět na obsah

# 3&4ROUG

## 3 a 4-břité OSTRÉ frézy hrubovací pro široký sortiment ocelí do HRC 50




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Snížení výrobního času díky výbornému utváření třísek
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

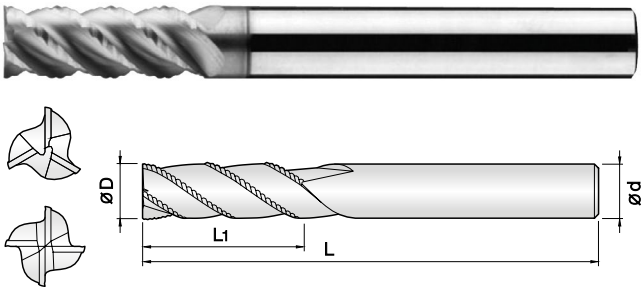



| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 3ROUG-040-100-S06 | 4 | 10 | 50 | 6 | ☑ |
| 3ROUG-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 3ROUG-060-100-050 | 6 | 10 | 50 | 6 | ☑ |
| 3ROUG-060-150-055 | | 15 | 55 | 6 | ☑ |
| 3ROUG-060-200-060 | | 20 | 60 | 6 | ☑ |
| 3ROUG-070-180-S08 | 7 | 18 | 65 | 8 | ☑ |
| 3ROUG-080-120-060 | 8 | 12 | 60 | 8 | ☑ |
| 3ROUG-080-190-065 | | 19 | 65 | 8 | ☑ |
| 3ROUG-080-250-070 | | 25 | 70 | 8 | ☑ |
| 4ROUG-090-220-S10 | 9 | 22 | 70 | 10 | ☑ |
| 4ROUG-100-150-070 | 10 | 15 | 70 | 10 | ☑ |
| 4ROUG-100-220-070 | | 22 | 70 | 10 | ☑ |
| 4ROUG-100-300-080 | | 30 | 80 | 10 | ☑ |
| 4ROUG-110-270-S12 | 11 | 27 | 80 | 12 | ☑ |
| 4ROUG-120-200-075 | 12 | 20 | 75 | 12 | ☑ |
| 4ROUG-120-260-080 | | 26 | 80 | 12 | ☑ |
| 4ROUG-120-350-090 | | 35 | 90 | 12 | ☑ |
| 4ROUG-160-320-090 | 16 | 32 | 90 | 16 | ☑ |
| 4ROUG-160-400-100 | | 40 | 100 | 16 | ☑ |
| 4ROUG-200-380-110 | 20 | 38 | 110 | 20 | ☑ |
| 4ROUG-200-500-110 | | 50 | 110 | 20 | ☑ |

◀ zpět na obsah

# 3&4HROUG

## 3 a 4-břité OSTRÉ frézy hrubovací 45° pro široký sortiment ocelí do HRC 50

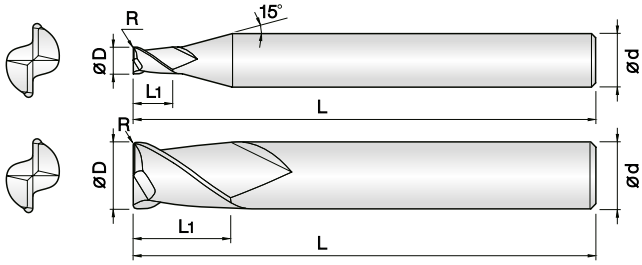



- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Snížení výrobního času díky výbornému utváření třísek
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 3HROUG-040-100-S06 | 4 | 10 | 50 | 6 | ☑ |
| 3HROUG-050-130-S06 | 5 | 13 | 50 | 6 | ☑ |
| 3HROUG-060-100-050 | 6 | 10 | 50 | 6 | ☑ |
| 3HROUG-060-160-055 | | 16 | 55 | 6 | ☑ |
| 3HROUG-060-200-060 | | 20 | 60 | 6 | ☑ |
| 3HROUG-070-180-S08 | 7 | 18 | 65 | 8 | ☑ |
| 3HROUG-080-120-060 | 8 | 12 | 60 | 8 | ☑ |
| 3HROUG-080-190-065 | | 19 | 65 | 8 | ☑ |
| 3HROUG-080-250-070 | | 25 | 70 | 8 | ☑ |
| 4HROUG-090-220-S10 | 9 | 22 | 70 | 10 | ☑ |
| 4HROUG-100-150-070 | 10 | 15 | 70 | 10 | ☑ |
| 4HROUG-100-220-070 | | 22 | 70 | 10 | ☑ |
| 4HROUG-100-300-080 | | 30 | 80 | 10 | ☑ |
| 4HROUG-110-270-S12 | 11 | 27 | 80 | 12 | ☑ |
| 4HROUG-120-200-075 | 12 | 20 | 75 | 12 | ☑ |
| 4HROUG-120-250-080 | | 25 | 80 | 12 | ☑ |
| 4HROUG-120-350-090 | | 35 | 90 | 12 | ☑ |
| 4HROUG-160-320-090 | 16 | 32 | 90 | 16 | ☑ |
| 4HROUG-160-400-110 | | 40 | 110 | 16 | ☑ |
| 4HROUG-200-380-110 | 20 | 38 | 110 | 20 | ☑ |
| 4HROUG-200-500-120 | | 50 | 120 | 20 | ☑ |

◀ zpět na obsah

# 2NCRG 2-břité TOROIDNÍ frézy pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Širokový sortiment rádiusů pro optimální volbu nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

2 | 35° | D≤5 0/-0,01 | D≥6 -0,005/-0,015

±0,005 R0,05-R0,5 | ±0,01 R1-R1,5 | ±0,015 R2-R5 | Tvrdokov 0,5 µm | Povlak AlCrN

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCRG-004-0005-S04 | 0,4 | R 0,05 | 0,8 | 45 | 4 | ☑ |
| 2NCRG-004-001-S04 | | R 0,1 | 0,8 | 45 | 4 | ☑ |
| 2NCRG-005-0005-S04 | 0,5 | R 0,05 | 1 | 45 | 4 | ☑ |
| 2NCRG-005-001-S04 | | R 0,1 | 1 | 45 | 4 | ☑ |
| 2NCRG-006-0005-S04 | 0,6 | R 0,05 | 1,2 | 45 | 4 | ☑ |
| 2NCRG-006-001-S04 | | R 0,1 | 1,2 | 45 | 4 | ☑ |
| 2NCRG-006-002-S04 | | R 0,2 | 1,2 | 45 | 4 | ☑ |
| 2NCRG-007-0005-S04 | 0,7 | R 0,05 | 1,4 | 45 | 4 | ☑ |
| 2NCRG-007-001-S04 | | R 0,1 | 1,4 | 45 | 4 | ☑ |
| 2NCRG-007-002-S04 | | R 0,2 | 1,4 | 45 | 4 | ☑ |
| 2NCRG-008-0005-S04 | 0,8 | R 0,05 | 1,6 | 45 | 4 | ☑ |
| 2NCRG-008-001-S04 | | R 0,1 | 1,6 | 45 | 4 | ☑ |
| 2NCRG-008-002-S04 | | R 0,2 | 1,6 | 45 | 4 | ☑ |
| 2NCRG-009-0005-S04 | 0,9 | R 0,05 | 1,8 | 45 | 4 | ☑ |
| 2NCRG-009-001-S04 | | R 0,1 | 1,8 | 45 | 4 | ☑ |
| 2NCRG-010-001-S04 | 1 | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 2NCRG-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 2NCRG-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 2NCRG-012-001-S04 | 1,2 | R 0,1 | 3,2 | 45 | 4 | ☑ |
| 2NCRG-012-002-S04 | | R 0,2 | 3,2 | 45 | 4 | ☑ |
| 2NCRG-012-003-S04 | | R 0,3 | 3,2 | 45 | 4 | ☑ |
| 2NCRG-015-001-S04 | 1,5 | R 0,1 | 4 | 45 | 4 | ☑ |
| 2NCRG-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |
| 2NCRG-015-003-S04 | | R 0,3 | 4 | 45 | 4 | ☑ |
| 2NCRG-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 2NCRG-020-001-S04 | 2 | R 0,1 | 6 | 45 | 4 | ☑ |
| 2NCRG-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 2NCRG-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 2NCRG-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 2NCRG-025-001-S04 | 2,5 | R 0,1 | 6 | 50 | 4 | ☑ |
| 2NCRG-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 2NCRG-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 2NCRG-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 2NCRG-030-001-S06 | 3 | R 0,1 | 8 | 60 | 6 | ☑ |
| 2NCRG-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |
| 2NCRG-030-003-S06 | | R 0,3 | 8 | 60 | 6 | ☑ |
| 2NCRG-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 2NCRG-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCRG-040-001-060 | 4 | R 0,1 | 9 | 60 | 4 | ☑ |
| 2NCRG-040-001-080 | | | 9 | 80 | 4 | ☑ |
| 2NCRG-040-001-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCRG-040-002-060 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 2NCRG-040-002-080 | | | 9 | 80 | 4 | ☑ |
| 2NCRG-040-002-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCRG-040-003-060 | | R 0,3 | 9 | 60 | 4 | ☑ |
| 2NCRG-040-003-080 | | | 9 | 80 | 4 | ☑ |
| 2NCRG-040-003-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCRG-040-005-060 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 2NCRG-040-005-080 | | | 9 | 80 | 4 | ☑ |
| 2NCRG-040-005-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCRG-040-010-060 | | R 1 | 9 | 60 | 4 | ☑ |
| 2NCRG-040-010-080 | | | 9 | 80 | 4 | ☑ |
| 2NCRG-040-010-S06 | | | 10 | 70 | 6 | ☑ |
| 2NCRG-050-001-S06 | 5 | R 0,1 | 13 | 75 | 6 | ☑ |
| 2NCRG-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 2NCRG-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 2NCRG-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 2NCRG-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 2NCRG-060-001-060 | 6 | R 0,1 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-001-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-002-060 | | R 0,2 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-002-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-003-060 | | R 0,3 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-003-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-005-060 | | R 0,5 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-005-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-010-060 | | R 1 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-010-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-015-060 | | R 1,5 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-015-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-020-060 | | R 2 | 11 | 60 | 6 | ☑ |
| 2NCRG-060-020-090 | | | 13 | 90 | 6 | ☑ |
| 2NCRG-060-025-090 | | R 2,5 | 13 | 90 | 6 | ☑ |
| 2NCRG-080-001-070 | 8 | R 0,1 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-001-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-002-070 | | R 0,2 | 16 | 70 | 8 | ☑ |

◀ zpět na obsah

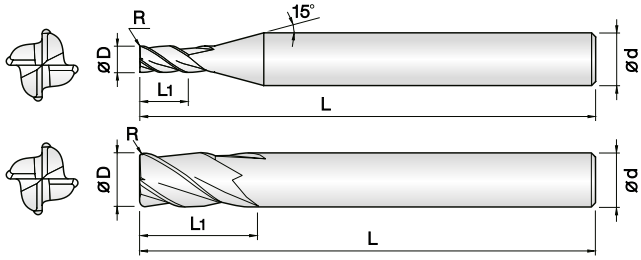
# 2NCRG 2-břité TOROIDNÍ frézy pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCRG-080-002-100 | 8 | R 0,2 | 19 | 100 | 8 | ☑ |
| 2NCRG-080-003-070 | | R 0,3 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-003-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-005-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-005-120 | | | 19 | 120 | 8 | ☑ |
| 2NCRG-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-010-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-010-120 | | | 19 | 120 | 8 | ☑ |
| 2NCRG-080-015-070 | | R 1,5 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-015-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-020-070 | | R 2 | 16 | 70 | 8 | ☑ |
| 2NCRG-080-020-100 | | | 19 | 100 | 8 | ☑ |
| 2NCRG-080-025-100 | | R 2,5 | 19 | 100 | 8 | ☑ |
| 2NCRG-080-030-100 | | R 3 | 19 | 100 | 8 | ☑ |
| 2NCRG-080-035-100 | | R 3,5 | 19 | 100 | 8 | ☑ |
| 2NCRG-100-001-075 | 10 | R 0,1 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-001-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-002-075 | | R 0,2 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-002-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-003-075 | | R 0,3 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-003-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-005-075 | | R 0,5 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-005-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-005-130 | | | 22 | 130 | 10 | ☑ |
| 2NCRG-100-010-075 | | R 1 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-010-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-010-130 | | | 22 | 130 | 10 | ☑ |
| 2NCRG-100-015-075 | | R 1,5 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-015-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-015-130 | | | 22 | 130 | 10 | ☑ |
| 2NCRG-100-020-075 | | R 2 | 19 | 75 | 10 | ☑ |
| 2NCRG-100-020-100 | | | 22 | 100 | 10 | ☑ |
| 2NCRG-100-025-100 | | R 2,5 | 22 | 100 | 10 | ☑ |
| 2NCRG-100-030-100 | | R 3 | 22 | 100 | 10 | ☑ |
| 2NCRG-100-040-100 | | R 4 | 22 | 100 | 10 | ☑ |
| 2NCRG-120-001-080 | 12 | R 0,1 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-001-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-002-080 | | R 0,2 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-002-110 | | R 0,2 | 26 | 110 | 12 | ☑ |
| 2NCRG-120-003-080 | | R 0,3 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-003-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-005-080 | | R 0,5 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-005-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-005-130 | | | 26 | 130 | 12 | ☑ |
| 2NCRG-120-010-080 | | R 1 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-010-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-010-130 | | | 26 | 130 | 12 | ☑ |
| 2NCRG-120-015-080 | | R 1,5 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-015-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-015-130 | | | 26 | 130 | 12 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 2NCRG-120-020-080 | 12 | R 2 | 22 | 80 | 12 | ☑ |
| 2NCRG-120-020-110 | | | 26 | 110 | 12 | ☑ |
| 2NCRG-120-020-130 | | | 26 | 130 | 12 | ☑ |
| 2NCRG-120-025-110 | | R 2,5 | 26 | 110 | 12 | ☑ |
| 2NCRG-120-030-110 | | R 3 | 26 | 110 | 12 | ☑ |
| 2NCRG-120-040-110 | | R 4 | 26 | 110 | 12 | ☑ |
| 2NCRG-120-050-110 | | R 5 | 26 | 110 | 12 | ☑ |

◀ zpět na obsah

# 4NCRG 4-břité TOROIDNÍ frézy pro široký sortiment ocelí do HRC 52




- Určeno pro široký sortiment různých typů ocelí do HRC 52
- Optimální pro různé typy ocelí díky AlCrN povlaku
- Velmi přesné tolerance řezných hran
- Širokový sortiment rádiusů pro optimální volbu nástroje
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCRG-010-0005-S04 | 1 | R 0,05 | 2,5 | 45 | 4 | ☑ |
| 4NCRG-010-001-S04 | | R 0,1 | 2,5 | 45 | 4 | ☑ |
| 4NCRG-010-002-S04 | | R 0,2 | 2,5 | 45 | 4 | ☑ |
| 4NCRG-010-003-S04 | | R 0,3 | 2,5 | 45 | 4 | ☑ |
| 4NCRG-015-0005-S04 | 1,5 | R 0,05 | 4 | 45 | 4 | ☑ |
| 4NCRG-015-001-S04 | | R 0,1 | 4 | 45 | 4 | ☑ |
| 4NCRG-015-002-S04 | | R 0,2 | 4 | 45 | 4 | ☑ |
| 4NCRG-015-003-S04 | | R 0,3 | 4 | 45 | 4 | ☑ |
| 4NCRG-015-005-S04 | | R 0,5 | 4 | 45 | 4 | ☑ |
| 4NCRG-020-0005-S04 | 2 | R 0,05 | 6 | 45 | 4 | ☑ |
| 4NCRG-020-001-S04 | | R 0,1 | 6 | 45 | 4 | ☑ |
| 4NCRG-020-002-S04 | | R 0,2 | 6 | 45 | 4 | ☑ |
| 4NCRG-020-003-S04 | | R 0,3 | 6 | 45 | 4 | ☑ |
| 4NCRG-020-005-S04 | | R 0,5 | 6 | 45 | 4 | ☑ |
| 4NCRG-025-001-S04 | 2,5 | R 0,1 | 6 | 50 | 4 | ☑ |
| 4NCRG-025-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 4NCRG-025-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 4NCRG-025-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 4NCRG-030-001-S06 | 3 | R 0,1 | 8 | 60 | 6 | ☑ |
| 4NCRG-030-002-S06 | | R 0,2 | 8 | 60 | 6 | ☑ |
| 4NCRG-030-003-S06 | | R 0,3 | 8 | 60 | 6 | ☑ |
| 4NCRG-030-005-S06 | | R 0,5 | 8 | 60 | 6 | ☑ |
| 4NCRG-030-010-S06 | | R 1 | 8 | 60 | 6 | ☑ |
| 4NCRG-040-001-060 | 4 | R 0,1 | 9 | 60 | 4 | ☑ |
| 4NCRG-040-001-080 | | | 9 | 80 | 4 | ☑ |
| 4NCRG-040-001-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCRG-040-002-060 | | R 0,2 | 9 | 60 | 4 | ☑ |
| 4NCRG-040-002-080 | | | 9 | 80 | 4 | ☑ |
| 4NCRG-040-002-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCRG-040-003-060 | | R 0,3 | 9 | 60 | 4 | ☑ |
| 4NCRG-040-003-080 | | | 9 | 80 | 4 | ☑ |
| 4NCRG-040-003-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCRG-040-005-060 | | R 0,5 | 9 | 60 | 4 | ☑ |
| 4NCRG-040-005-080 | | | 9 | 80 | 4 | ☑ |
| 4NCRG-040-005-S06 | | | 10 | 70 | 6 | ☑ |
| 4NCRG-040-010-060 | | R 1 | 9 | 60 | 4 | ☑ |
| 4NCRG-040-010-080 | | | 9 | 80 | 4 | ☑ |
| 4NCRG-040-010-S06 | | | 10 | 70 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCRG-050-001-S06 | 5 | R 0,1 | 13 | 75 | 6 | ☑ |
| 4NCRG-050-002-S06 | | R 0,2 | 13 | 75 | 6 | ☑ |
| 4NCRG-050-003-S06 | | R 0,3 | 13 | 75 | 6 | ☑ |
| 4NCRG-050-005-S06 | | R 0,5 | 13 | 75 | 6 | ☑ |
| 4NCRG-050-010-S06 | | R 1 | 13 | 75 | 6 | ☑ |
| 4NCRG-060-001-060 | 6 | R 0,1 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-001-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-002-060 | | R 0,2 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-002-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-003-060 | | R 0,3 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-003-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-005-060 | | R 0,5 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-005-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-010-060 | | R 1 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-010-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-015-060 | | R 1,5 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-015-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-060-020-060 | | R 2 | 11 | 60 | 6 | ☑ |
| 4NCRG-060-020-080 | | | 13 | 80 | 6 | ☑ |
| 4NCRG-080-001-070 | 8 | R 0,1 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-001-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-002-070 | | R 0,2 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-002-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-003-070 | | R 0,3 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-003-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-005-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-005-110 | | | 19 | 110 | 8 | ☑ |
| 4NCRG-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-010-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-010-110 | | | 19 | 110 | 8 | ☑ |
| 4NCRG-080-015-070 | | R 1,5 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-015-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-015-110 | | | 19 | 110 | 8 | ☑ |
| 4NCRG-080-020-070 | | R 2 | 16 | 70 | 8 | ☑ |
| 4NCRG-080-020-090 | | | 19 | 90 | 8 | ☑ |
| 4NCRG-080-020-110 | | | 19 | 110 | 8 | ☑ |
| 4NCRG-080-025-090 | | R 2,5 | 19 | 90 | 8 | ☑ |

◀ zpět na obsah

# 4NCRG 4-břité TOROIDNÍ frézy pro široký sortiment ocelí do HRC 52

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4NCRG-100-001-075 | 10 | R 0,1 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-001-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-002-075 | | R 0,2 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-002-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-003-075 | | R 0,3 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-003-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-005-075 | | R 0,5 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-005-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-005-120 | | | 22 | 120 | 10 | ☑ |
| 4NCRG-100-010-075 | | R 1 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-010-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-010-120 | | | 22 | 120 | 10 | ☑ |
| 4NCRG-100-015-075 | | R 1,5 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-015-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-015-120 | | | 22 | 120 | 10 | ☑ |
| 4NCRG-100-020-075 | | R 2 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-020-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-020-120 | | | 22 | 120 | 10 | ☑ |
| 4NCRG-100-025-075 | | R 2,5 | 19 | 75 | 10 | ☑ |
| 4NCRG-100-025-100 | | | 22 | 100 | 10 | ☑ |
| 4NCRG-100-025-120 | | | 22 | 120 | 10 | ☑ |
| 4NCRG-100-030-100 | | R 3 | 22 | 100 | 10 | ☑ |
| 4NCRG-120-002-080 | 12 | R 0,2 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-002-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-003-080 | | R 0,3 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-003-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-005-080 | | R 0,5 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-005-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-005-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-010-080 | | R 1 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-010-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-010-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-015-080 | | R 1,5 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-015-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-015-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-020-080 | | R 2 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-020-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-020-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-025-080 | | R 2,5 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-025-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-025-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-030-080 | | R 3 | 22 | 80 | 12 | ☑ |
| 4NCRG-120-030-110 | | | 26 | 110 | 12 | ☑ |
| 4NCRG-120-030-130 | | | 26 | 130 | 12 | ☑ |
| 4NCRG-120-035-110 | | R 3,5 | 26 | 110 | 12 | ☑ |
| 4NCRG-120-040-110 | | R 4 | 26 | 110 | 12 | ☑ |
| 4NCRG-160-005-110 | 16 | R 0,5 | 35 | 110 | 16 | ☑ |
| 4NCRG-160-005-160 | | | 35 | 160 | 16 | ☑ |
| 4NCRG-160-010-110 | | R 1 | 35 | 110 | 16 | ☑ |
| 4NCRG-160-010-160 | | | 35 | 160 | 16 | ☑ |

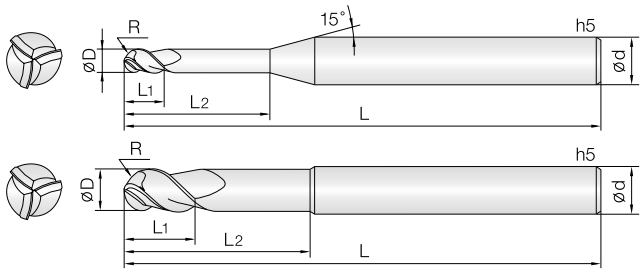
# SUS

▶ Tvrdokovové frézy pro nerezové oceli, titan a slitiny Ni

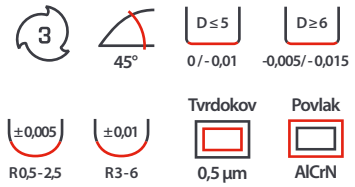
◀ zpět na obsah

# 3SURB

## 3-břité KULOVÉ frézy 45° pro nerezové oceli, Titan a slitiny Ni




- Určeno pro oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí
- Hlubší šroubovice pro lepší odvod třísek




NOVINKA

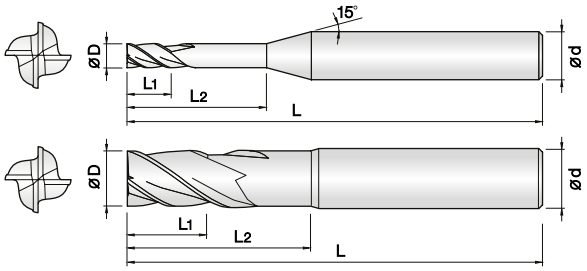
| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3SURB-010-040-S04 | 1 | R 0,5 | 4 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-060-S04 | | | 6 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-080-S04 | | | 8 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-100-S04 | | | 10 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-120-S04 | | | 12 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-160-S04 | | | 16 | 1,5 | 50 | 4 | ☑ |
| 3SURB-010-200-S04 | | | 20 | 1,5 | 50 | 4 | ☑ |
| 3SURB-012-030-S04 | 1,2 | R 0,6 | 3 | 1,8 | 50 | 4 | ☑ |
| 3SURB-012-040-S04 | | | 4 | 1,8 | 50 | 4 | ☑ |
| 3SURB-012-060-S04 | | | 6 | 1,8 | 50 | 4 | ☑ |
| 3SURB-012-080-S04 | | | 8 | 1,8 | 50 | 4 | ☑ |
| 3SURB-012-100-S04 | | | 10 | 1,8 | 50 | 4 | ☑ |
| 3SURB-012-120-S04 | | | 12 | 1,8 | 50 | 4 | ☑ |
| 3SURB-015-040-S04 | 1,5 | R 0,75 | 4 | 2 | 50 | 4 | ☑ |
| 3SURB-015-060-S04 | | | 6 | 2 | 50 | 4 | ☑ |
| 3SURB-015-100-S04 | | | 10 | 2 | 50 | 4 | ☑ |
| 3SURB-015-120-S04 | | | 12 | 2 | 50 | 4 | ☑ |
| 3SURB-015-160-S04 | | | 16 | 2 | 50 | 4 | ☑ |
| 3SURB-015-200-S04 | | | 20 | 2 | 50 | 4 | ☑ |
| 3SURB-020-040-S06 | 2 | R 1 | 4 | 3 | 50 | 6 | ☑ |
| 3SURB-020-060-S06 | | | 6 | 3 | 50 | 6 | ☑ |
| 3SURB-020-100-S06 | | | 10 | 3 | 50 | 6 | ☑ |
| 3SURB-020-120-S06 | | | 12 | 3 | 60 | 6 | ☑ |
| 3SURB-020-160-S06 | | | 16 | 3 | 60 | 6 | ☑ |
| 3SURB-020-200-S06 | | | 20 | 3 | 60 | 6 | ☑ |
| 3SURB-020-250-S06 | | | 25 | 3 | 65 | 6 | ☑ |
| 3SURB-025-060-S06 | 2,5 | R 1,25 | 6 | 4 | 50 | 6 | ☑ |
| 3SURB-025-100-S06 | | | 10 | 4 | 50 | 6 | ☑ |
| 3SURB-025-120-S06 | | | 12 | 4 | 60 | 6 | ☑ |
| 3SURB-025-160-S06 | | | 16 | 4 | 60 | 6 | ☑ |
| 3SURB-025-200-S06 | | | 20 | 4 | 60 | 6 | ☑ |
| 3SURB-030-080-S06 | 3 | R 1,5 | 8 | 4,5 | 60 | 6 | ☑ |
| 3SURB-030-120-S06 | | | 12 | 4,5 | 60 | 6 | ☑ |
| 3SURB-030-160-S06 | | | 16 | 4,5 | 60 | 6 | ☑ |
| 3SURB-030-200-S06 | | | 20 | 4,5 | 60 | 6 | ☑ |
| 3SURB-030-250-S06 | | | 25 | 4,5 | 70 | 6 | ☑ |
| 3SURB-030-300-S06 | | | 30 | 4,5 | 70 | 6 | ☑ |
| 3SURB-030-400-S06 | | | 40 | 4,5 | 80 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3SURB-040-100-S06 | 4 | R 2 | 10 | 6 | 60 | 6 | ☑ |
| 3SURB-040-160-S06 | | | 16 | 6 | 60 | 6 | ☑ |
| 3SURB-040-200-S06 | | | 20 | 6 | 60 | 6 | ☑ |
| 3SURB-040-250-S06 | | | 25 | 6 | 70 | 6 | ☑ |
| 3SURB-040-300-S06 | | | 30 | 6 | 70 | 6 | ☑ |
| 3SURB-040-400-S06 | | | 40 | 6 | 80 | 6 | ☑ |
| 3SURB-050-160-S06 | 5 | R 2,5 | 16 | 8 | 80 | 6 | ☑ |
| 3SURB-050-200-S06 | | | 20 | 8 | 80 | 6 | ☑ |
| 3SURB-050-300-S06 | | | 30 | 8 | 80 | 6 | ☑ |
| 3SURB-060-200-S06 | 6 | R 3 | 20 | 9 | 90 | 6 | ☑ |
| 3SURB-060-400-S06 | | | 40 | 9 | 90 | 6 | ☑ |
| 3SURB-080-300-S08 | 8 | R 4 | 30 | 12 | 100 | 8 | ☑ |
| 3SURB-100-400-S10 | 10 | R 5 | 40 | 15 | 100 | 10 | ☑ |
| 3SURB-120-500-S12 | 12 | R 6 | 50 | 18 | 110 | 12 | ☑ |

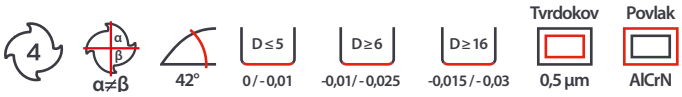
◀ zpět na obsah

# 4SURE

## 4-břité OSTRÉ frézy pro žebrování pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Minimalizace vibrací díky nerovnoměrné rozteči břitů
- Vysoká kvalita obrobeného povrchu
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí



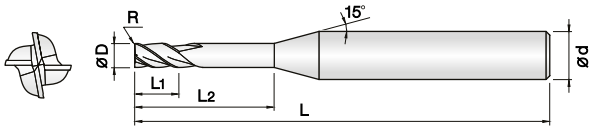

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SURE-010-030-S04 | 1 | 3 | 1,5 | 50 | 4 | ☑ |
| 4SURE-010-050-S04 | | 5 | 1,5 | 50 | 4 | ☑ |
| 4SURE-010-060-S04 | | 6 | 1,5 | 50 | 4 | ☑ |
| 4SURE-010-080-S04 | | 8 | 1,5 | 50 | 4 | ☑ |
| 4SURE-010-100-S04 | | 10 | 1,5 | 50 | 4 | ☑ |
| 4SURE-012-040-S04 | 1,2 | 4 | 2 | 50 | 4 | ☑ |
| 4SURE-012-060-S04 | | 6 | 2 | 50 | 4 | ☑ |
| 4SURE-012-080-S04 | | 8 | 2 | 50 | 4 | ☑ |
| 4SURE-012-100-S04 | | 10 | 2 | 50 | 4 | ☑ |
| 4SURE-015-045-S04 | 1,5 | 4,5 | 2,5 | 50 | 4 | ☑ |
| 4SURE-015-060-S04 | | 6 | 2,5 | 50 | 4 | ☑ |
| 4SURE-015-080-S04 | | 8 | 2,5 | 50 | 4 | ☑ |
| 4SURE-015-100-S04 | | 10 | 2,5 | 50 | 4 | ☑ |
| 4SURE-015-120-S04 | | 12 | 2,5 | 50 | 4 | ☑ |
| 4SURE-015-150-S04 | | 15 | 2,5 | 50 | 4 | ☑ |
| 4SURE-020-060-S04 | 2 | 6 | 3 | 50 | 4 | ☑ |
| 4SURE-020-080-S04 | | 8 | 3 | 50 | 4 | ☑ |
| 4SURE-020-100-S04 | | 10 | 3 | 50 | 4 | ☑ |
| 4SURE-020-120-S04 | | 12 | 3 | 50 | 4 | ☑ |
| 4SURE-020-140-S04 | | 14 | 3 | 60 | 4 | ☑ |
| 4SURE-020-160-S04 | | 16 | 3 | 60 | 4 | ☑ |
| 4SURE-025-075-S04 | 2,5 | 7,5 | 4 | 50 | 4 | ☑ |
| 4SURE-025-100-S04 | | 10 | 4 | 50 | 4 | ☑ |
| 4SURE-025-120-S04 | | 12 | 4 | 50 | 4 | ☑ |
| 4SURE-025-140-S04 | | 14 | 4 | 60 | 4 | ☑ |
| 4SURE-025-160-S04 | | 16 | 4 | 60 | 4 | ☑ |
| 4SURE-030-090-S06 | 3 | 9 | 4,5 | 60 | 6 | ☑ |
| 4SURE-030-120-S06 | | 12 | 4,5 | 60 | 6 | ☑ |
| 4SURE-030-160-S06 | | 16 | 4,5 | 60 | 6 | ☑ |
| 4SURE-030-200-S06 | | 20 | 4,5 | 60 | 6 | ☑ |
| 4SURE-030-250-S06 | | 25 | 4,5 | 65 | 6 | ☑ |
| 4SURE-030-300-S06 | | 30 | 4,5 | 75 | 6 | ☑ |
| 4SURE-040-120-S06 | 4 | 12 | 6 | 60 | 6 | ☑ |
| 4SURE-040-160-S06 | | 16 | 6 | 60 | 6 | ☑ |
| 4SURE-040-200-S06 | | 20 | 6 | 60 | 6 | ☑ |
| 4SURE-040-250-S06 | | 25 | 6 | 65 | 6 | ☑ |
| 4SURE-040-300-S06 | | 30 | 6 | 75 | 6 | ☑ |
| 4SURE-050-150-S06 | 5 | 15 | 7,5 | 60 | 6 | ☑ |

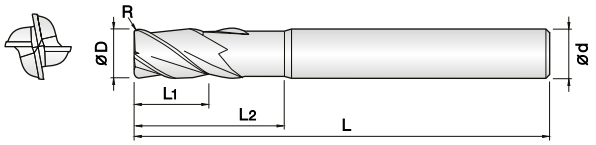
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SURE-050-180-100 | 5 | 18 | 7,5 | 100 | 6 | ☑ |
| 4SURE-050-200-S06 | | 20 | 7,5 | 60 | 6 | ☑ |
| 4SURE-050-250-S06 | | 25 | 7,5 | 65 | 6 | ☑ |
| 4SURE-050-300-S06 | | 30 | 7,5 | 70 | 6 | ☑ |
| 4SURE-060-200-S06 | 6 | 20 | 9 | 60 | 6 | ☑ |
| 4SURE-060-250-100 | | 25 | 9 | 100 | 6 | ☑ |
| 4SURE-060-300-S06 | | 30 | 9 | 70 | 6 | ☑ |
| 4SURE-080-250-S08 | 8 | 25 | 12 | 70 | 8 | ☑ |
| 4SURE-080-350-110 | | 35 | 12 | 110 | 8 | ☑ |
| 4SURE-080-400-S08 | | 40 | 12 | 80 | 8 | ☑ |
| 4SURE-100-300-S10 | 10 | 30 | 15 | 80 | 10 | ☑ |
| 4SURE-100-400-120 | | 40 | 15 | 120 | 10 | ☑ |
| 4SURE-100-500-S10 | | 50 | 15 | 100 | 10 | ☑ |
| 4SURE-120-360-S12 | 12 | 36 | 18 | 90 | 12 | ☑ |
| 4SURE-120-500-130 | | 50 | 18 | 130 | 12 | ☑ |
| 4SURE-120-600-S12 | | 60 | 18 | 110 | 12 | ☑ |
| 4SURE-160-480-S16 | 16 | 48 | 24 | 110 | 16 | ☑ |
| 4SURE-160-700-150 | 16 | 70 | 24 | 150 | 16 | ☑ |
| 4SURE-160-800-S16 | | 80 | 24 | 130 | 16 | ☑ |
| 4SURE-200-600-130 | 20 | 60 | 30 | 130 | 20 | ☑ |
| 4SURE-200-1000-160 | | 100 | 30 | 160 | 20 | ☑ |

◀ zpět na obsah

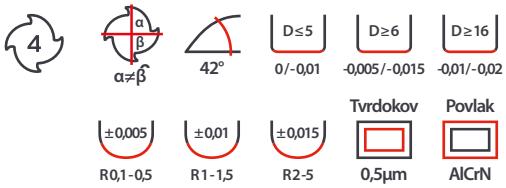
# 4SUCR

## 4-břité TOROIDNÍ frézy pro žebrování pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Minimalizace vibrací díky nerovnoměrné rozteči břitů
- Vysoká kvalita obrobeného povrchu
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí



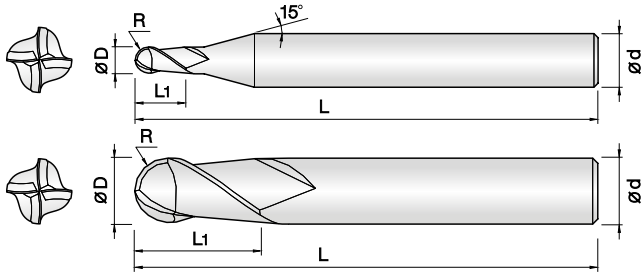

NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4SUCR-010-001-050 | 1 | R 0,1 | 5 | 1,5 | 60 | 4 | ☑ |
| 4SUCR-010-001-060 | | R 0,1 | 6 | 1,5 | 60 | 4 | ☑ |
| 4SUCR-010-001-080 | | R 0,1 | 8 | 1,5 | 60 | 4 | ☑ |
| 4SUCR-020-001-100 | 2 | R 0,1 | 10 | 3 | 60 | 4 | ☑ |
| 4SUCR-020-001-120 | | R 0,1 | 12 | 3 | 60 | 4 | ☑ |
| 4SUCR-020-001-160 | | R 0,1 | 16 | 3 | 60 | 4 | ☑ |
| 4SUCR-020-002-100 | | R 0,2 | 10 | 3 | 60 | 4 | ☑ |
| 4SUCR-020-002-120 | | R 0,2 | 12 | 3 | 60 | 4 | ☑ |
| 4SUCR-020-002-160 | | R 0,2 | 16 | 3 | 60 | 4 | ☑ |
| 4SUCR-030-002-150 | 3 | R 0,2 | 15 | 4,5 | 65 | 6 | ☑ |
| 4SUCR-030-002-200 | | R 0,2 | 20 | 4,5 | 70 | 6 | ☑ |
| 4SUCR-030-005-150 | | R 0,5 | 15 | 4,5 | 65 | 6 | ☑ |
| 4SUCR-030-002-200 | | R 0,5 | 20 | 4,5 | 70 | 6 | ☑ |
| 4SUCR-040-002-200 | 4 | R 0,2 | 20 | 6 | 70 | 6 | ☑ |
| 4SUCR-040-002-300 | | R 0,2 | 30 | 6 | 80 | 6 | ☑ |
| 4SUCR-040-005-200 | | R 0,5 | 20 | 6 | 70 | 6 | ☑ |
| 4SUCR-040-005-300 | | R 0,5 | 30 | 6 | 80 | 6 | ☑ |
| 4SUCR-040-010-200 | | R 1 | 20 | 6 | 70 | 6 | ☑ |
| 4SUCR-050-002-250 | 5 | R 0,2 | 25 | 7,5 | 70 | 6 | ☑ |
| 4SUCR-050-002-360 | | R 0,2 | 36 | 7,5 | 80 | 6 | ☑ |
| 4SUCR-050-005-250 | | R 0,5 | 25 | 7,5 | 70 | 6 | ☑ |
| 4SUCR-050-005-360 | | R 0,5 | 36 | 7,5 | 80 | 6 | ☑ |
| 4SUCR-050-010-250 | | R 1 | 25 | 7,5 | 70 | 6 | ☑ |
| 4SUCR-060-003-300 | 6 | R 0,3 | 30 | 9 | 70 | 6 | ☑ |
| 4SUCR-060-003-400 | | R 0,3 | 40 | 9 | 80 | 6 | ☑ |
| 4SUCR-060-005-300 | | R 0,5 | 30 | 9 | 70 | 6 | ☑ |
| 4SUCR-060-005-400 | | R 0,5 | 40 | 9 | 80 | 6 | ☑ |
| 4SUCR-060-010-300 | | R 1 | 30 | 9 | 70 | 6 | ☑ |
| 4SUCR-060-010-400 | | R 1 | 40 | 9 | 80 | 6 | ☑ |
| 4SUCR-060-015-300 | | R 1,5 | 30 | 9 | 70 | 6 | ☑ |
| 4SUCR-070-003-350 | 7 | R 0,3 | 35 | 10 | 80 | 8 | ☑ |
| 4SUCR-070-005-350 | | R 0,5 | 35 | 10 | 80 | 8 | ☑ |
| 4SUCR-070-010-350 | | R 1 | 35 | 10 | 80 | 8 | ☑ |
| 4SUCR-080-003-400 | 8 | R 0,3 | 40 | 12 | 80 | 8 | ☑ |
| 4SUCR-080-005-400 | | R 0,5 | 40 | 12 | 80 | 8 | ☑ |
| 4SUCR-080-010-400 | | R 1 | 40 | 12 | 80 | 8 | ☑ |
| 4SUCR-080-015-400 | | R 1,5 | 40 | 12 | 80 | 8 | ☑ |
| 4SUCR-080-020-400 | | R 2 | 40 | 12 | 80 | 8 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 4SUCR-090-003-450 | 9 | R 0,3 | 45 | 13 | 90 | 10 | ☑ |
| 4SUCR-090-005-450 | | R 0,5 | 45 | 13 | 90 | 10 | ☑ |
| 4SUCR-090-010-450 | | R 1 | 45 | 13 | 90 | 10 | ☑ |
| 4SUCR-100-003-500 | 10 | R 0,3 | 50 | 15 | 100 | 10 | ☑ |
| 4SUCR-100-005-500 | | R 0,5 | 50 | 15 | 100 | 10 | ☑ |
| 4SUCR-100-010-500 | | R 1 | 50 | 15 | 100 | 10 | ☑ |
| 4SUCR-100-015-500 | | R 1,5 | 50 | 15 | 100 | 10 | ☑ |
| 4SUCR-100-020-500 | | R 2 | 50 | 15 | 100 | 10 | ☑ |
| 4SUCR-110-003-550 | 11 | R 0,3 | 55 | 16 | 100 | 12 | ☑ |
| 4SUCR-110-005-550 | | R 0,5 | 55 | 16 | 100 | 12 | ☑ |
| 4SUCR-110-010-550 | | R 1 | 55 | 16 | 100 | 12 | ☑ |
| 4SUCR-120-003-600 | 12 | R 0,3 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-005-600 | | R 0,5 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-010-600 | | R 1 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-015-600 | | R 1,5 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-020-600 | 12 | R 2 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-025-600 | | R 2,5 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-120-030-600 | | R 3 | 60 | 18 | 110 | 12 | ☑ |
| 4SUCR-160-005-800 | 16 | R 0,5 | 80 | 24 | 130 | 16 | ☑ |
| 4SUCR-160-010-800 | | R 1 | 80 | 24 | 130 | 16 | ☑ |
| 4SUCR-160-015-800 | | R 1,5 | 80 | 24 | 130 | 16 | ☑ |
| 4SUCR-160-020-800 | | R 2 | 80 | 24 | 130 | 16 | ☑ |
| 4SUCR-160-030-800 | | R 3 | 80 | 24 | 130 | 16 | ☑ |
| 4SUCR-200-005-1000 | 20 | R 0,5 | 100 | 30 | 150 | 20 | ☑ |
| 4SUCR-200-010-1000 | | R 1 | 100 | 30 | 150 | 20 | ☑ |
| 4SUCR-200-015-1000 | | R 1,5 | 100 | 30 | 150 | 20 | ☑ |
| 4SUCR-200-020-1000 | | R 2 | 100 | 30 | 150 | 20 | ☑ |
| 4SUCR-200-030-1000 | | R 3 | 100 | 30 | 150 | 20 | ☑ |
| 4SUCR-200-050-1000 | | R 5 | 100 | 30 | 150 | 20 | ☑ |

# 4SUB

## 4-břité KULOVÉ frézy pro nerezové oceli, Titan a slitiny Ni

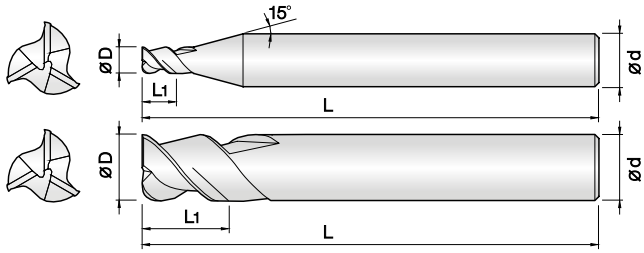



- Určeno pro nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky novému AlCrN povlaku
- Vysoká kvalita obrobeného povrchu
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SUB-010-025-S06 | 1 | R 0,5 | 2,5 | 50 | 6 | ☑ |
| 4SUB-015-040-S06 | 1,5 | R 0,75 | 4 | 50 | 6 | ☑ |
| 4SUB-020-060-S06 | 2 | R 1 | 6 | 50 | 6 | ☑ |
| 4SUB-030-080-S06 | 3 | R 1,5 | 8 | 60 | 6 | ☑ |
| 4SUB-040-080-S06 | 4 | R 2 | 8 | 70 | 6 | ☑ |
| 4SUB-050-100-S06 | 5 | R 2,5 | 10 | 80 | 6 | ☑ |
| 4SUB-060-120-S06 | 6 | R 3 | 12 | 90 | 6 | ☑ |
| 4SUB-080-140-S08 | 8 | R 4 | 14 | 100 | 8 | ☑ |
| 4SUB-100-180-S10 | 10 | R 5 | 18 | 100 | 10 | ☑ |
| 4SUB-120-220-S12 | 12 | R 6 | 22 | 110 | 12 | ☑ |
| 4SUB-160-300-S16 | 16 | R 8 | 30 | 130 | 16 | ☑ |

◀ zpět na obsah

# 3SUE 3-břité OSTRÉ frézy pro nerezové oceli, Titan a slitiny Ni




- Určeno pro oceli do HRC 40, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku TiSiN
- Vysoká kvalita obrobeného povrchu
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

| 3 | 45° | D≤5 | D≥6 | D≥16 | Tvrdokov | Povlak |
|---|---|---|---|---|---|---|
| | | 0 / - 0,01 | -0,01 / - 0,025 | -0,015 / - 0,03 | 0,5 µm | AlCrN |

NOVINKA

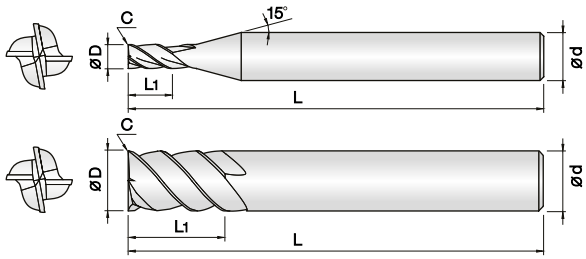
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 3SUE-005-010-S04 | 0,5 | - | 1 | 45 | 4 | ☑ |
| 3SUE-005-020-S04 | | 2 | 1 | 45 | 4 | ☑ |
| 3SUE-005-030-S04 | | 3 | 1 | 45 | 4 | ☑ |
| 3SUE-005-040-S04 | | 4 | 1 | 45 | 4 | ☑ |
| 3SUE-006-012-S04 | 0,6 | - | 1,2 | 45 | 4 | ☑ |
| 3SUE-006-030-S04 | | 3 | 1,2 | 45 | 4 | ☑ |
| 3SUE-006-050-S04 | | 5 | 1,2 | 45 | 4 | ☑ |
| 3SUE-007-014-S04 | 0,7 | - | 1,4 | 45 | 4 | ☑ |
| 3SUE-007-030-S04 | | 3 | 1,4 | 45 | 4 | ☑ |
| 3SUE-008-020-S04 | 0,8 | - | 2 | 45 | 4 | ☑ |
| 3SUE-008-040-S04 | | 4 | 2 | 45 | 4 | ☑ |
| 3SUE-008-060-S04 | | 6 | 2 | 45 | 4 | ☑ |
| 3SUE-010-025-S04 | 1 | - | 2,5 | 45 | 4 | ☑ |
| 3SUE-010-025-S06 | | - | 2,5 | 45 | 6 | ☑ |
| 3SUE-010-040-S06 | | 4 | 2,5 | 45 | 6 | ☑ |
| 3SUE-010-060-S06 | | 6 | 2,5 | 45 | 6 | ☑ |
| 3SUE-010-080-S06 | | 8 | 2,5 | 45 | 6 | ☑ |
| 3SUE-012-030-S04 | 1,2 | - | 3 | 45 | 4 | ☑ |
| 3SUE-012-030-S06 | | - | 3 | 45 | 6 | ☑ |
| 3SUE-012-060-S06 | | 6 | 3 | 45 | 6 | ☑ |
| 3SUE-012-080-S06 | | 8 | 3 | 45 | 6 | ☑ |
| 3SUE-015-040-S04 | 1,5 | - | 4 | 45 | 4 | ☑ |
| 3SUE-015-040-S06 | | - | 4 | 45 | 6 | ☑ |
| 3SUE-015-060-S06 | | 6 | 4 | 45 | 6 | ☑ |
| 3SUE-015-080-S06 | | 8 | 4 | 45 | 6 | ☑ |
| 3SUE-015-100-S06 | | 10 | 4 | 45 | 6 | ☑ |
| 3SUE-020-050-S04 | 2 | - | 5 | 45 | 4 | ☑ |
| 3SUE-020-050-S06 | | - | 5 | 45 | 6 | ☑ |
| 3SUE-020-080-S06 | | 8 | 5 | 45 | 6 | ☑ |
| 3SUE-020-100-S06 | | 10 | 5 | 50 | 6 | ☑ |
| 3SUE-020-120-S06 | | 12 | 5 | 50 | 6 | ☑ |
| 3SUE-025-080-S06 | 2,5 | - | 8 | 45 | 6 | ☑ |
| 3SUE-030-080-S04 | 3 | - | 8 | 45 | 4 | ☑ |
| 3SUE-030-080-S06 | | - | 8 | 45 | 6 | ☑ |
| 3SUE-030-150-S06 | | 15 | 8 | 45 | 6 | ☑ |
| 3SUE-030-200-S06 | | 20 | 8 | 60 | 6 | ☑ |
| 3SUE-035-100-S06 | 3,5 | - | 10 | 50 | 6 | ☑ |
| 3SUE-040-100-S04 | 4 | - | 10 | 50 | 4 | ☑ |

| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 3SUE-040-100-S06 | 4 | - | 10 | 50 | 6 | ☑ |
| 3SUE-040-150-S06 | | 15 | 10 | 50 | 6 | ☑ |
| 3SUE-040-200-S06 | | 20 | 10 | 60 | 6 | ☑ |
| 3SUE-045-120-S06 | 4,5 | - | 12 | 50 | 6 | ☑ |
| 3SUE-050-120-S06 | 5 | - | 12 | 50 | 6 | ☑ |
| 3SUE-060-120-S06 | 6 | - | 12 | 60 | 6 | ☑ |
| 3SUE-060-200-S06 | | 20 | 12 | 60 | 6 | ☑ |
| 3SUE-080-190-S08 | 8 | - | 19 | 60 | 8 | ☑ |
| 3SUE-080-260-S08 | | 26 | 26 | 60 | 8 | ☑ |
| 3SUE-100-220-S10 | 10 | - | 22 | 70 | 10 | ☑ |
| 3SUE-100-320-S10 | | 32 | 22 | 70 | 10 | ☑ |
| 3SUE-120-260-S12 | 12 | - | 26 | 80 | 12 | ☑ |
| 3SUE-120-380-S12 | | 38 | 26 | 80 | 12 | ☑ |
| 3SUE-160-360-S16 | 16 | - | 36 | 100 | 16 | ☑ |
| 3SUE-160-450-S16 | | 45 | 36 | 100 | 16 | ☑ |
| 3SUE-200-550-S20 | 20 | 55 | 38 | 110 | 20 | ☑ |

◀ zpět na obsah

# 4SUV

## 4-břité OSTRÉ frézy s variabilní šroubovicí pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Minimalizace vibrací díky nerovnoměrné rozteči břitů a variabilní šroubovici
- Vysoká kvalita obrobeného povrchu
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

| Objednací číslo | TYP | | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|---|
| 4SUVA-010-025-S04 | A | - | 1 | - | 2,5 | 50 | 4 | ☑ |
| 4SUVB-010-025-S04 | - | B | | - | 2,5 | 50 | 4 | ☑ |
| 4SUVA-010-060-S04 | A | - | | 6 | 2,5 | 50 | 4 | ☑ |
| 4SUVA-015-040-S04 | A | - | 1,5 | - | 4 | 50 | 4 | ☑ |
| 4SUVB-015-040-S04 | - | B | | - | 4 | 50 | 4 | ☑ |
| 4SUVA-015-100-S04 | A | - | | 10 | 4 | 50 | 4 | ☑ |
| 4SUVA-020-050-S04 | A | - | 2 | - | 5 | 50 | 4 | ☑ |
| 4SUVB-020-050-S04 | - | B | | - | 5 | 50 | 4 | ☑ |
| 4SUVA-020-120-S04 | A | - | | 12 | 5 | 50 | 4 | ☑ |
| 4SUVA-030-080-S06 | A | - | 3 | - | 8 | 60 | 6 | ☑ |
| 4SUVB-030-080-S06 | - | B | | - | 8 | 60 | 6 | ☑ |
| 4SUVA-030-180-S06 | A | - | | 18 | 8 | 60 | 6 | ☑ |
| 4SUVA-040-110-S06 | A | - | 4 | - | 11 | 60 | 6 | ☑ |
| 4SUVB-040-110-S06 | - | B | | - | 11 | 60 | 6 | ☑ |
| 4SUVA-040-210-S06 | A | - | | 21 | 11 | 60 | 6 | ☑ |
| 4SUVA-050-130-S06 | A | - | 5 | - | 13 | 60 | 6 | ☑ |
| 4SUVB-050-130-S06 | - | B | | - | 13 | 60 | 6 | ☑ |
| 4SUVA-050-210-S06 | A | - | | 21 | 13 | 60 | 6 | ☑ |
| 4SUVA-060-130-S06 | A | - | 6 | - | 13 | 60 | 6 | ☑ |
| 4SUVB-060-130-S06 | - | B | | - | 13 | 60 | 6 | ☑ |
| 4SUVA-060-210-S06 | A | - | | 21 | 13 | 60 | 6 | ☑ |
| 4SUVA-080-190-S08 | A | - | 8 | - | 19 | 60 | 8 | ☑ |
| 4SUVB-080-190-S08 | - | B | | - | 19 | 60 | 8 | ☑ |
| 4SUVA-080-270-S08 | A | - | | 27 | 19 | 60 | 8 | ☑ |
| 4SUVA-100-220-S10 | A | - | 10 | - | 22 | 70 | 10 | ☑ |
| 4SUVB-100-220-S10 | - | B | | - | 22 | 70 | 10 | ☑ |
| 4SUVA-100-320-S10 | A | - | | 32 | 22 | 70 | 10 | ☑ |
| 4SUVA-120-260-S12 | A | - | 12 | - | 26 | 80 | 12 | ☑ |
| 4SUVB-120-260-S12 | - | B | | - | 26 | 80 | 12 | ☑ |
| 4SUVA-120-380-S12 | A | - | | 38 | 26 | 80 | 12 | ☑ |
| 4SUVA-160-320-S16 | A | - | 16 | - | 32 | 90 | 16 | ☑ |
| 4SUVB-160-320-S16 | - | B | | - | 32 | 90 | 16 | ☑ |
| 4SUVA-160-450-S16 | A | - | | 45 | 32 | 90 | 16 | ☑ |
| 4SUVA-200-380-S20 | A | - | 20 | - | 38 | 100 | 20 | ☑ |
| 4SUVB-200-380-S20 | - | B | | - | 38 | 100 | 20 | ☑ |
| 4SUVA-200-550-S20 | A | - | | 55 | 38 | 110 | 20 | ☑ |

A

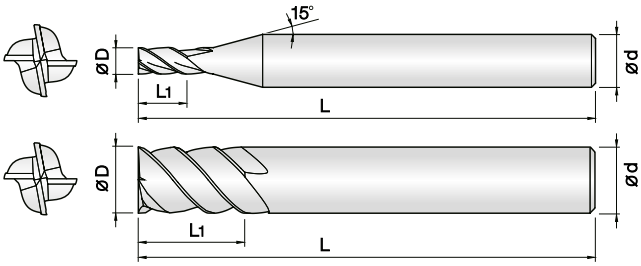
**Minimalizace vyštipování**

B

**Vynikající odvod třísek**

◀ zpět na obsah

# 4SUE 4-břité OSTRÉ frézy s nerovnoměrnou roztečí břitů pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Vysoká kvalita obrobeného povrchu
- Minimalizace vibrací díky nerovnoměrné rozteči břitů
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4SUE-010-015-S04 | 1 | 1,5 | 50 | 4 | ☑ |
| 4SUE-010-025-S04 | | 2,5 | 50 | 4 | ☑ |
| 4SUE-010-035-S04 | | 3,5 | 50 | 4 | ☑ |
| 4SUE-010-050-S04 | | 5 | 50 | 4 | ☑ |
| 4SUE-010-060-S04 | | 6 | 50 | 4 | ☑ |
| 4SUE-012-015-S04 | 1,2 | 1,5 | 50 | 4 | ☑ |
| 4SUE-012-030-S04 | | 3 | 50 | 4 | ☑ |
| 4SUE-012-050-S04 | | 5 | 50 | 4 | ☑ |
| 4SUE-012-070-S04 | | 7 | 50 | 4 | ☑ |
| 4SUE-015-025-S04 | 1,5 | 2,5 | 50 | 4 | ☑ |
| 4SUE-015-040-S04 | | 4 | 50 | 4 | ☑ |
| 4SUE-015-055-S04 | | 5,5 | 50 | 4 | ☑ |
| 4SUE-015-070-S04 | | 7 | 50 | 4 | ☑ |
| 4SUE-015-085-S04 | | 8,5 | 50 | 4 | ☑ |
| 4SUE-020-030-S04 | 2 | 3 | 50 | 4 | ☑ |
| 4SUE-020-060-S04 | | 6 | 50 | 4 | ☑ |
| 4SUE-020-080-S04 | | 8 | 50 | 4 | ☑ |
| 4SUE-020-100-S04 | | 10 | 50 | 4 | ☑ |
| 4SUE-020-120-S04 | | 12 | 50 | 4 | ☑ |
| 4SUE-020-140-S04 | | 14 | 50 | 4 | ☑ |
| 4SUE-025-035-S04 | 2,5 | 3,5 | 50 | 4 | ☑ |
| 4SUE-025-080-S04 | | 8 | 50 | 4 | ☑ |
| 4SUE-025-100-S04 | | 10 | 50 | 4 | ☑ |
| 4SUE-025-120-S04 | | 12 | 50 | 4 | ☑ |
| 4SUE-025-140-S04 | | 14 | 50 | 4 | ☑ |
| 4SUE-030-045-S06 | 3 | 4,5 | 60 | 6 | ☑ |
| 4SUE-030-100-S06 | | 10 | 60 | 6 | ☑ |
| 4SUE-030-120-S06 | | 12 | 60 | 6 | ☑ |
| 4SUE-030-150-S06 | | 15 | 60 | 6 | ☑ |
| 4SUE-030-200-S06 | | 20 | 70 | 6 | ☑ |
| 4SUE-030-250-S06 | | 25 | 70 | 6 | ☑ |
| 4SUE-030-300-S06 | | 30 | 75 | 6 | ☑ |
| 4SUE-035-055-S06 | 3,5 | 5,5 | 60 | 6 | ☑ |
| 4SUE-035-100-S06 | | 10 | 60 | 6 | ☑ |
| 4SUE-035-150-S06 | | 15 | 60 | 6 | ☑ |
| 4SUE-035-200-S06 | | 20 | 60 | 6 | ☑ |
| 4SUE-040-060-S06 | 4 | 6 | 60 | 6 | ☑ |
| 4SUE-040-120-S06 | | 12 | 60 | 6 | ☑ |

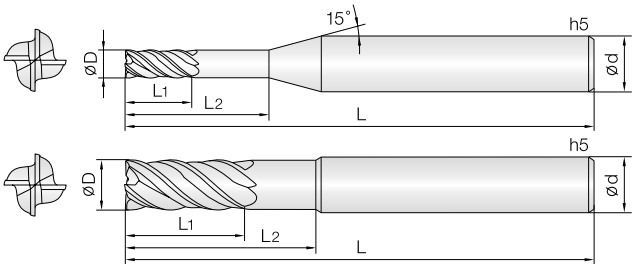
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4SUE-040-160-S06 | 4 | 16 | 60 | 6 | ☑ |
| 4SUE-040-200-S06 | | 20 | 70 | 6 | ☑ |
| 4SUE-040-250-S06 | | 25 | 70 | 6 | ☑ |
| 4SUE-040-300-S06 | | 30 | 75 | 6 | ☑ |
| 4SUE-045-070-S06 | 4,5 | 7 | 60 | 6 | ☑ |
| 4SUE-045-130-S06 | | 13 | 60 | 6 | ☑ |
| 4SUE-045-180-S06 | | 18 | 60 | 6 | ☑ |
| 4SUE-050-075-S06 | 5 | 7,5 | 60 | 6 | ☑ |
| 4SUE-050-150-S06 | | 15 | 60 | 6 | ☑ |
| 4SUE-050-200-S06 | | 20 | 70 | 6 | ☑ |
| 4SUE-050-250-S06 | | 25 | 70 | 6 | ☑ |
| 4SUE-050-300-S06 | | 30 | 75 | 6 | ☑ |
| 4SUE-060-090-S06 | 6 | 9 | 60 | 6 | ☑ |
| 4SUE-060-150-S06 | | 15 | 60 | 6 | ☑ |
| 4SUE-060-180-S06 | | 18 | 65 | 6 | ☑ |
| 4SUE-060-250-S06 | 6 | 25 | 70 | 6 | ☑ |
| 4SUE-060-300-S06 | | 30 | 70 | 6 | ☑ |
| 4SUE-060-400-S06 | | 40 | 80 | 6 | ☑ |
| 4SUE-070-110-S08 | 7 | 11 | 70 | 8 | ☑ |
| 4SUE-070-180-S08 | | 18 | 70 | 8 | ☑ |
| 4SUE-070-210-S08 | | 21 | 70 | 8 | ☑ |
| 4SUE-080-120-S08 | 8 | 12 | 70 | 8 | ☑ |
| 4SUE-080-200-S08 | | 20 | 70 | 8 | ☑ |
| 4SUE-080-240-S08 | | 24 | 70 | 8 | ☑ |
| 4SUE-080-300-S08 | | 30 | 80 | 8 | ☑ |
| 4SUE-080-400-S08 | | 40 | 90 | 8 | ☑ |
| 4SUE-080-500-S08 | | 50 | 100 | 8 | ☑ |
| 4SUE-090-140-S10 | 9 | 14 | 80 | 10 | ☑ |
| 4SUE-090-220-S10 | | 22 | 80 | 10 | ☑ |
| 4SUE-090-270-S10 | | 27 | 80 | 10 | ☑ |
| 4SUE-100-150-S10 | 10 | 15 | 80 | 10 | ☑ |
| 4SUE-100-250-S10 | | 25 | 80 | 10 | ☑ |
| 4SUE-100-300-S10 | | 30 | 80 | 10 | ☑ |
| 4SUE-100-400-S10 | | 40 | 90 | 10 | ☑ |
| 4SUE-100-500-S10 | | 50 | 100 | 10 | ☑ |
| 4SUE-100-600-S10 | | 60 | 110 | 10 | ☑ |
| 4SUE-110-170-S12 | 11 | 17 | 90 | 12 | ☑ |
| 4SUE-110-220-S12 | | 22 | 90 | 12 | ☑ |

# 4SUE 4-břité OSTRÉ frézy s nerovnoměrnou roztečí břitů pro nerezové oceli, Titan a slitiny Ni

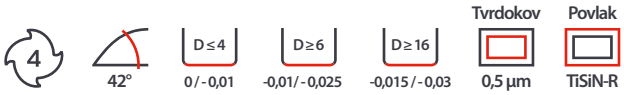
| Objednací číslo | D (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|
| 4SUE-110-330-S12 | 11 | 33 | 90 | 12 | ☑ |
| 4SUE-120-180-S12 | 12 | 18 | 90 | 12 | ☑ |
| 4SUE-120-300-S12 | | 30 | 90 | 12 | ☑ |
| 4SUE-120-360-S12 | | 36 | 90 | 12 | ☑ |
| 4SUE-120-500-S12 | | 50 | 100 | 12 | ☑ |
| 4SUE-120-600-S12 | | 60 | 110 | 12 | ☑ |
| 4SUE-120-700-S12 | | 70 | 120 | 12 | ☑ |
| 4SUE-160-240-S16 | 16 | 24 | 100 | 16 | ☑ |
| 4SUE-160-350-S16 | | 35 | 100 | 16 | ☑ |
| 4SUE-160-500-S16 | | 50 | 110 | 16 | ☑ |
| 4SUE-160-700-S16 | | 70 | 130 | 16 | ☑ |
| 4SUE-160-900-S16 | | 90 | 150 | 16 | ☑ |
| 4SUE-200-300-S20 | 20 | 30 | 100 | 20 | ☑ |
| 4SUE-200-400-S20 | | 40 | 100 | 20 | ☑ |
| 4SUE-200-600-S20 | | 60 | 120 | 20 | ☑ |
| 4SUE-200-800-S20 | | 80 | 150 | 20 | ☑ |
| 4SUE-200-1000-S20 | | 100 | 160 | 20 | ☑ |

# 4SLE

## 4-břité OSTRÉ frézy 42° pro nerezové oceli, Titan a slitiny Ni slitiny Ni




- Určeno pro hrubování a dokončování nerezových ocelí, titanu a slitin niklu
- Vynikající odstraňování třísek díky hlubší šroubovici
- Nerovnoměrná zubová rozteč
- Minimalizace vyštipování díky tvrdokovu s vysokou houževnatostí
- Vynikající životnost díky inovativnímu povlaku TiSiN-R



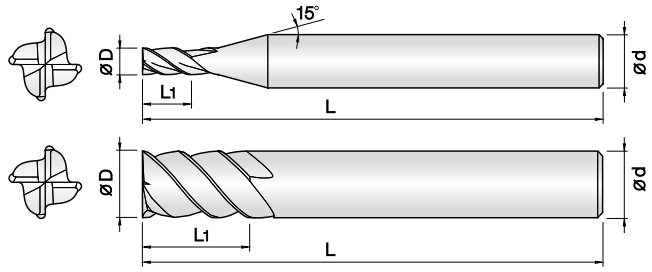

NOVINKA

| Objednací číslo | D (mm) | L1 (mm) | L2 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SLE-030-080-S06 | 3 | 8 | - | 50 | 6 | ☑ |
| 4SLE-030-210-S06 | | 8 | 21 | 60 | 6 | ☑ |
| 4SLE-040-100-S06 | 4 | 10 | - | 50 | 6 | ☑ |
| 4SLE-040-210-S06 | | 10 | 21 | 60 | 6 | ☑ |
| 4SLE-060-150-S06 | 6 | 15 | - | 60 | 6 | ☑ |
| 4SLE-060-210-S06 | | 15 | 21 | 60 | 6 | ☑ |
| 4SLE-080-200-S08 | 8 | 20 | - | 70 | 8 | ☑ |
| 4SLE-080-270-S08 | | 20 | 27 | 70 | 8 | ☑ |
| 4SLE-100-250-S10 | 10 | 25 | - | 80 | 10 | ☑ |
| 4SLE-100-350-S10 | | 25 | 35 | 80 | 10 | ☑ |
| 4SLE-120-300-S12 | 12 | 30 | - | 90 | 12 | ☑ |
| 4SLE-120-400-S12 | | 30 | 40 | 90 | 12 | ☑ |
| 4SLE-160-400-S16 | 16 | 40 | - | 100 | 16 | ☑ |
| 4SLE-160-500-S16 | | 40 | 50 | 100 | 16 | ☑ |
| 4SLE-200-450-S20 | 20 | 45 | - | 110 | 20 | ☑ |
| 4SLE-200-550-S20 | | 45 | 55 | 110 | 20 | ☑ |

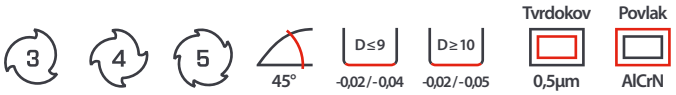
◀ zpět na obsah

# 3&4&5SUR

## 3, 4 a 5-břité OSTRÉ frézy hrubovací 45° pro nerezové oceli, Titan a slitiny Ni



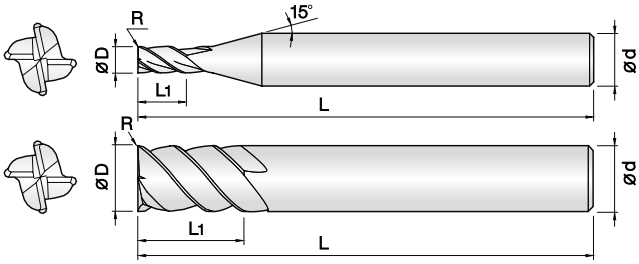

- Určeno pro oceli do HRC 40, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Vysoká kvalita obrobeného povrchu
- Snížení výrobního času díky výbornému utváření třísek
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|---|
| 3SUR-030-002-S06 | 3 | R 0,2 | - | 8 | 50 | 6 | ☑ |
| 3SUR-040-002-S06 | 4 | R 0,2 | - | 10 | 50 | 6 | ☑ |
| 4SUR-050-002-S06 | 5 | R 0,2 | - | 13 | 50 | 6 | ☑ |
| 4SUR-060-002-200 | 6 | R 0,2 | 20 | 10 | 60 | 6 | ☑ |
| 4SUR-060-002-S06 | | | - | 13 | 60 | 6 | ☑ |
| 4SUR-060-005-S06 | | R 0,5 | - | 13 | 60 | 6 | ☑ |
| 4SUR-070-002-S08 | 7 | R 0,2 | - | 18 | 70 | 8 | ☑ |
| 4SUR-080-002-250 | 8 | R 0,2 | 25 | 12 | 70 | 8 | ☑ |
| 4SUR-080-002-S08 | | | - | 19 | 70 | 8 | ☑ |
| 4SUR-080-010-S08 | | R 1 | - | 19 | 70 | 8 | ☑ |
| 4SUR-090-003-S10 | 9 | R 0,3 | - | 20 | 70 | 10 | ☑ |
| 4SUR-100-003-300 | 10 | R 0,3 | 30 | 15 | 75 | 10 | ☑ |
| 4SUR-100-003-S10 | | | - | 22 | 75 | 10 | ☑ |
| 4SUR-100-010-S10 | | R 1 | - | 22 | 75 | 10 | ☑ |
| 4SUR-110-003-S12 | 11 | R 0,3 | - | 25 | 80 | 12 | ☑ |
| 4SUR-120-003-350 | 12 | R 0,3 | 35 | 20 | 80 | 12 | ☑ |
| 4SUR-120-003-S12 | | | - | 26 | 80 | 12 | ☑ |
| 4SUR-120-010-S12 | | R 1 | - | 26 | 80 | 12 | ☑ |
| 5SUR-140-005-S16 | 14 | R 0,5 | - | 28 | 90 | 16 | ☑ |
| 5SUR-160-005-100 | 16 | R 0,5 | - | 32 | 100 | 16 | ☑ |
| 5SUR-160-005-110 | | | - | 42 | 110 | 16 | ☑ |
| 5SUR-160-015-100 | | R 1,5 | - | 32 | 100 | 16 | ☑ |
| 5SUR-160-015-110 | | | - | 42 | 110 | 16 | ☑ |
| 5SUR-200-005-100 | 20 | R 0,5 | - | 38 | 100 | 20 | ☑ |
| 5SUR-200-005-110 | | | - | 45 | 110 | 20 | ☑ |
| 5SUR-200-020-100 | | R 2 | - | 38 | 100 | 20 | ☑ |
| 5SUR-200-020-110 | | | - | 45 | 110 | 20 | ☑ |

# 4SUC 4-břité TOROIDNÍ frézy s nerovnoměrnou roztečí břitů pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Vysoká kvalita obrobeného povrchu
- Minimalizace vibrací díky nerovnoměrné rozteči břitů
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SUC-010-001-S04 | 1 | R 0,1 | 2,5 | 50 | 4 | ☑ |
| 4SUC-010-002-S04 | | R 0,2 | 2,5 | 50 | 4 | ☑ |
| 4SUC-012-001-S04 | 1,2 | R 0,1 | 3 | 50 | 4 | ☑ |
| 4SUC-012-002-S04 | | R 0,2 | 3 | 50 | 4 | ☑ |
| 4SUC-015-001-S04 | 1,5 | R 0,1 | 4 | 50 | 4 | ☑ |
| 4SUC-015-002-S04 | | R 0,2 | 4 | 50 | 4 | ☑ |
| 4SUC-015-003-S04 | | R 0,3 | 4 | 50 | 4 | ☑ |
| 4SUC-020-001-S04 | 2 | R 0,1 | 6 | 50 | 4 | ☑ |
| 4SUC-020-002-S04 | | R 0,2 | 6 | 50 | 4 | ☑ |
| 4SUC-020-003-S04 | | R 0,3 | 6 | 50 | 4 | ☑ |
| 4SUC-020-005-S04 | | R 0,5 | 6 | 50 | 4 | ☑ |
| 4SUC-025-001-S04 | 2,5 | R 0,1 | 7 | 50 | 4 | ☑ |
| 4SUC-025-002-S04 | | R 0,2 | 7 | 50 | 4 | ☑ |
| 4SUC-025-003-S04 | | R 0,3 | 7 | 50 | 4 | ☑ |
| 4SUC-030-001-S06 | 3 | R 0,1 | 10 | 60 | 6 | ☑ |
| 4SUC-030-002-055 | | R 0,2 | 6 | 55 | 6 | ☑ |
| 4SUC-030-002-S06 | | | 10 | 60 | 6 | ☑ |
| 4SUC-030-003-S06 | | R 0,3 | 10 | 60 | 6 | ☑ |
| 4SUC-030-005-055 | | R 0,5 | 6 | 55 | 6 | ☑ |
| 4SUC-030-005-S06 | | | 10 | 60 | 6 | ☑ |
| 4SUC-035-002-S06 | 3,5 | R 0,2 | 10 | 60 | 6 | ☑ |
| 4SUC-040-001-S06 | 4 | R 0,1 | 12 | 60 | 6 | ☑ |
| 4SUC-040-002-055 | | R 0,2 | 8 | 55 | 6 | ☑ |
| 4SUC-040-002-S06 | | | 12 | 60 | 6 | ☑ |
| 4SUC-040-003-S06 | | R 0,3 | 12 | 60 | 6 | ☑ |
| 4SUC-040-005-055 | | R 0,5 | 8 | 55 | 6 | ☑ |
| 4SUC-040-005-S06 | | | 12 | 60 | 6 | ☑ |
| 4SUC-040-010-S06 | | R 1 | 12 | 60 | 6 | ☑ |
| 4SUC-045-002-S06 | 4,5 | R 0,2 | 14 | 60 | 6 | ☑ |
| 4SUC-050-002-055 | 5 | R 0,2 | 10 | 55 | 6 | ☑ |
| 4SUC-050-002-S06 | | | 15 | 60 | 6 | ☑ |
| 4SUC-050-003-S06 | | R 0,3 | 15 | 60 | 6 | ☑ |
| 4SUC-050-005-055 | | R 0,5 | 10 | 55 | 6 | ☑ |
| 4SUC-050-005-S06 | | | 15 | 60 | 6 | ☑ |
| 4SUC-050-010-S06 | | R 1 | 15 | 60 | 6 | ☑ |
| 4SUC-055-002-S06 | 5,5 | R 0,2 | 15 | 60 | 6 | ☑ |
| 4SUC-060-003-055 | 6 | R 0,3 | 12 | 55 | 6 | ☑ |
| 4SUC-060-003-S06 | | | 15 | 60 | 6 | ☑ |

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SUC-060-005-055 | 6 | R 0,5 | 12 | 55 | 6 | ☑ |
| 4SUC-060-005-S06 | | | 15 | 60 | 6 | ☑ |
| 4SUC-060-010-055 | | R 1 | 12 | 55 | 6 | ☑ |
| 4SUC-060-010-S06 | | | 15 | 60 | 6 | ☑ |
| 4SUC-060-015-S06 | | R 1,5 | 15 | 60 | 6 | ☑ |
| 4SUC-065-003-S08 | 6,5 | R 0,3 | 18 | 60 | 8 | ☑ |
| 4SUC-070-003-S08 | 7 | R 0,3 | 20 | 80 | 8 | ☑ |
| 4SUC-070-005-S08 | | R 0,5 | 20 | 80 | 8 | ☑ |
| 4SUC-070-010-S08 | | R 1 | 20 | 80 | 8 | ☑ |
| 4SUC-080-003-070 | 8 | R 0,3 | 16 | 70 | 8 | ☑ |
| 4SUC-080-003-S08 | | | 20 | 80 | 8 | ☑ |
| 4SUC-080-005-070 | | R 0,5 | 16 | 70 | 8 | ☑ |
| 4SUC-080-005-S08 | | | 20 | 80 | 8 | ☑ |
| 4SUC-080-010-070 | | R 1 | 16 | 70 | 8 | ☑ |
| 4SUC-080-010-S08 | | | 20 | 80 | 8 | ☑ |
| 4SUC-080-015-S08 | | R 1,5 | 20 | 80 | 8 | ☑ |
| 4SUC-080-020-S08 | | R 2 | 20 | 80 | 8 | ☑ |
| 4SUC-085-003-S10 | 8,5 | R 0,3 | 22 | 80 | 10 | ☑ |
| 4SUC-090-003-S10 | 9 | R 0,3 | 25 | 80 | 10 | ☑ |
| 4SUC-100-003-070 | 10 | R 0,3 | 20 | 70 | 10 | ☑ |
| 4SUC-100-003-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-005-070 | | R 0,5 | 20 | 70 | 10 | ☑ |
| 4SUC-100-005-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-010-070 | | R 1 | 20 | 70 | 10 | ☑ |
| 4SUC-100-010-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-015-070 | | R 1,5 | 20 | 70 | 10 | ☑ |
| 4SUC-100-015-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-020-070 | | R 2 | 20 | 70 | 10 | ☑ |
| 4SUC-100-020-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-025-070 | | R 2,5 | 20 | 70 | 10 | ☑ |
| 4SUC-100-025-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-100-030-070 | | R 3 | 20 | 70 | 10 | ☑ |
| 4SUC-100-030-S10 | | | 25 | 80 | 10 | ☑ |
| 4SUC-110-005-S12 | 11 | R 0,5 | 27 | 90 | 12 | ☑ |
| 4SUC-110-010-S12 | | R 1 | 27 | 90 | 12 | ☑ |
| 4SUC-120-003-080 | 12 | R 0,3 | 24 | 80 | 12 | ☑ |
| 4SUC-120-003-S12 | | | 30 | 100 | 12 | ☑ |
| 4SUC-120-005-080 | | R 0,5 | 24 | 80 | 12 | ☑ |

◀ zpět na obsah

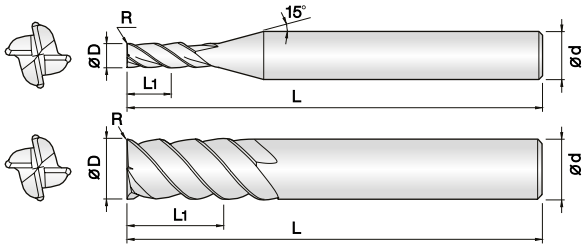
# 4SUC 4-břité TOROIDNÍ frézy s nerovnoměrnou roztečí břitů pro nerezové oceli, Titan a slitiny Ni

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4SUC-120-005-S12 | 12 | R 0,5 | 30 | 100 | 12 | ☑ |
| 4SUC-120-010-080 | | R 1 | 24 | 80 | 12 | ☑ |
| 4SUC-120-010-S12 | | | 30 | 100 | 12 | ☑ |
| 4SUC-120-015-080 | | R 1,5 | 24 | 80 | 12 | ☑ |
| 4SUC-120-015-S12 | | | 30 | 100 | 12 | ☑ |
| 4SUC-120-020-080 | | R 2 | 24 | 80 | 12 | ☑ |
| 4SUC-120-020-S12 | | | 30 | 100 | 12 | ☑ |
| 4SUC-120-025-S12 | | R 2,5 | 30 | 100 | 12 | ☑ |
| 4SUC-120-030-080 | | R 3 | 24 | 80 | 12 | ☑ |
| 4SUC-120-030-S12 | | | 30 | 100 | 12 | ☑ |
| 4SUC-140-005-S14 | 14 | R 0,5 | 35 | 100 | 14 | ☑ |
| 4SUC-140-010-S14 | | R 1 | 35 | 100 | 14 | ☑ |
| 4SUC-160-005-100 | 16 | R 0,5 | 32 | 100 | 16 | ☑ |
| 4SUC-160-005-S16 | | | 42 | 110 | 16 | ☑ |
| 4SUC-160-010-100 | | R 1 | 32 | 100 | 16 | ☑ |
| 4SUC-160-010-S16 | | | 42 | 110 | 16 | ☑ |
| 4SUC-180-005-S18 | 18 | R 0,5 | 45 | 110 | 18 | ☑ |
| 4SUC-180-010-S18 | | R 1 | 45 | 110 | 18 | ☑ |
| 4SUC-200-005-S20 | 20 | R 0,5 | 48 | 110 | 20 | ☑ |
| 4SUC-200-010-S20 | | R 1 | 48 | 110 | 20 | ☑ |

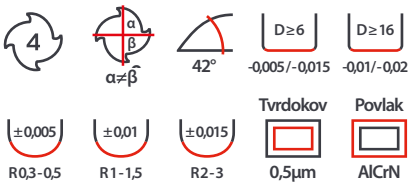
◀ zpět na obsah

# 4LSUC

## 4-břité TOROIDNÍ frézy dlouhé pro nerezové oceli, Titan a slitiny Ni




- Určeno do oceli ≤850 MPa, nerezové oceli, titan a slitiny niklu
- Zvýšená odolnost proti opotřebení díky povlaku AlCrN
- Vysoká kvalita obrobeného povrchu
- Minimalizace vibrací díky nerovnoměrné rozteči břitů
- Hlubší šroubovice pro lepší odvod třísek
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí

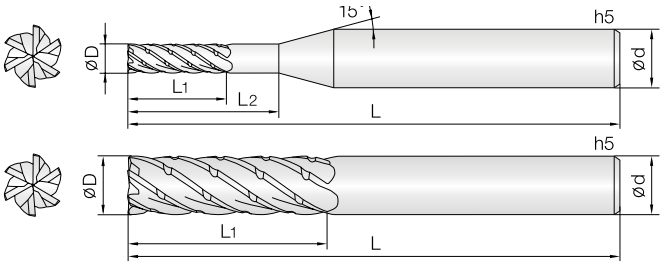



| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 4LSUC-060-003-070 | 6 | R 0,3 | 30 | 70 | 6 | ☑ |
| 4LSUC-060-005-070 | | R 0,5 | 30 | 70 | 6 | ☑ |
| 4LSUC-060-010-070 | | R 1 | 30 | 70 | 6 | ☑ |
| 4LSUC-060-015-070 | | R 1,5 | 30 | 70 | 6 | ☑ |
| 4LSUC-080-003-080 | 8 | R 0,3 | 40 | 80 | 8 | ☑ |
| 4LSUC-080-005-080 | | R 0,5 | 40 | 80 | 8 | ☑ |
| 4LSUC-080-010-080 | | R 1 | 40 | 80 | 8 | ☑ |
| 4LSUC-080-015-080 | | R 1,5 | 40 | 80 | 8 | ☑ |
| 4LSUC-080-020-080 | | R 2 | 40 | 80 | 8 | ☑ |
| 4LSUC-100-003-100 | 10 | R 0,3 | 50 | 100 | 10 | ☑ |
| 4LSUC-100-005-100 | | R 0,5 | 50 | 100 | 10 | ☑ |
| 4LSUC-100-010-100 | | R 1 | 50 | 100 | 10 | ☑ |
| 4LSUC-100-015-100 | | R 1,5 | 50 | 100 | 10 | ☑ |
| 4LSUC-100-020-100 | | R 2 | 50 | 100 | 10 | ☑ |
| 4LSUC-120-003-120 | 12 | R 0,3 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-005-120 | | R 0,5 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-010-120 | | R 1 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-015-120 | | R 1,5 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-020-120 | | R 2 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-025-120 | | R 2,5 | 60 | 120 | 12 | ☑ |
| 4LSUC-120-030-120 | | R 3 | 60 | 120 | 12 | ☑ |
| 4LSUC-160-005-130 | 16 | R 0,5 | 80 | 130 | 16 | ☑ |
| 4LSUC-160-010-130 | | R 1 | 80 | 130 | 16 | ☑ |
| 4LSUC-160-015-130 | | R 1,5 | 80 | 130 | 16 | ☑ |
| 4LSUC-160-020-130 | | R 2 | 80 | 130 | 16 | ☑ |
| 4LSUC-160-030-130 | | R 3 | 80 | 130 | 16 | ☑ |
| 4LSUC-200-005-160 | 20 | R 0,5 | 100 | 160 | 20 | ☑ |
| 4LSUC-200-010-160 | | R 1 | 100 | 160 | 20 | ☑ |
| 4LSUC-200-015-160 | | R 1,5 | 100 | 160 | 20 | ☑ |
| 4LSUC-200-020-160 | | R 2 | 100 | 160 | 20 | ☑ |
| 4LSUC-200-030-160 | | R 3 | 100 | 160 | 20 | ☑ |

◀ zpět na obsah

# 5&6TROE

## 5 a 6-břité TROCHOIDNÍ frézy pro nerezové oceli, Titan a slitiny Ni



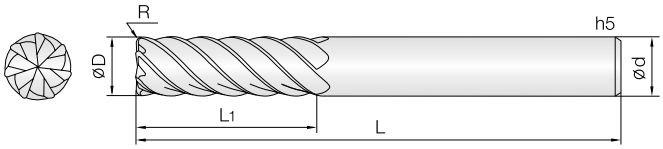

- Vhodné pro hrubovací obrábění ocelí, nerezových ocelí, Inconelu a různých těžko obrobitelných materiálů
- Nový inovativní povlak TISIN-R pro extrémní životnost v různých materiálech
- Variabilní úhel šroubovice pro minimalizaci vibrací
- Děliče pro tvorbu krátkých třísek a jejich lepší odstraňování ze stroje
- Zesílená řezná hrana a jemné sražení rohů pro vysokou životnost a minimalizaci vyštipování

NOVINKA

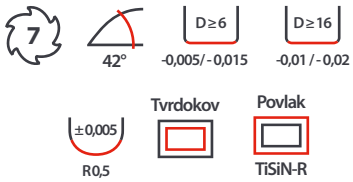
| Objednací číslo | D (mm) | L2 (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 6TROE-060-140-060 | 6 | - | 14 | 60 | 6 | ☑ |
| 6TROE-060-200-065 | | - | 20 | 65 | 6 | ☑ |
| 5TROE-060-260-070 | | - | 26 | 70 | 6 | ☑ |
| 6TROE-060-300-070 | | 30 | 16 | 70 | 6 | ☑ |
| 6TROE-080-180-065 | 8 | - | 18 | 65 | 8 | ☑ |
| 6TROE-080-260-070 | | - | 26 | 70 | 8 | ☑ |
| 5TROE-080-340-080 | | - | 34 | 80 | 8 | ☑ |
| 6TROE-080-400-080 | | 40 | 21 | 80 | 8 | ☑ |
| 6TROE-100-220-075 | 10 | - | 22 | 75 | 10 | ☑ |
| 6TROE-100-330-080 | | - | 33 | 80 | 10 | ☑ |
| 5TROE-100-430-090 | | - | 43 | 90 | 10 | ☑ |
| 6TROE-100-500-100 | | 50 | 26 | 100 | 10 | ☑ |
| 6TROE-120-270-080 | 12 | - | 27 | 80 | 12 | ☑ |
| 6TROE-120-390-095 | | - | 39 | 95 | 12 | ☑ |
| 5TROE-120-510-110 | | - | 51 | 110 | 12 | ☑ |
| 6TROE-120-600-110 | | 60 | 31 | 110 | 12 | ☑ |
| 6TROE-160-360-100 | 16 | - | 36 | 100 | 16 | ☑ |
| 6TROE-160-520-120 | | - | 52 | 120 | 16 | ☑ |
| 5TROE-160-680-130 | | - | 68 | 130 | 16 | ☑ |
| 6TROE-160-800-130 | | 80 | 41 | 130 | 16 | ☑ |
| 6TROE-200-450-110 | 20 | - | 45 | 110 | 20 | ☑ |
| 6TROE-200-650-130 | | - | 65 | 130 | 20 | ☑ |
| 5TROE-200-850-150 | | - | 85 | 150 | 20 | ☑ |
| 6TROE-200-900-150 | | 90 | 51 | 150 | 20 | ☑ |

◀ zpět na obsah

# 7SUC 7-břité TOROIDNÍ frézy 42° pro nerezové oceli, Titan a slitiny Ni




- Určeno pro oceli do HRC 40, nerezové oceli, titan a slitiny niklu
- Povlak TISIN-R poskytuje zlepšení odolnosti proti opotřebení v různých aplikacích se vyhněte namáhání hran
- Silná konstrukce frézy na ochranu proti drnčení
- Zabránění odlamování spodního okraje díky rádiusu R
- Minimalizace vyštipování díky tvrdokovou s vysokou houževnatostí




NOVINKA

| Objednací číslo | D (mm) | R (mm) | L1 (mm) | L (mm) | d h5 (mm) | Standardní položka |
|---|---|---|---|---|---|---|
| 7SUC-060-005-060 | 6 | R 0,5 | 15 | 60 | 6 | ☑ |
| 7SUC-080-005-070 | 8 | | 25 | 70 | 8 | ☑ |
| 7SUC-100-005-075 | 10 | | 25 | 75 | 10 | ☑ |
| 7SUC-120-005-085 | 12 | | 30 | 85 | 12 | ☑ |
| 7SUC-160-005-100 | 16 | | 42 | 100 | 16 | ☑ |
| 7SUC-200-005-110 | 20 | | 48 | 110 | 20 | ☑ |