# MICRO-FRAISE D'ÉBAUCHE **Z3** AVEC ARROSAGE PERIPHERIQUE · ROUGHING MICRO ENDMILL **Z3** WITH PERIPHERAL COOLING · MIKROSCHRUPPFRÄSER **Z3** MIT PERIPHERER KÜHLUNG

TAKE IT EZI

SWISS MADE

**29510A-2-4** Version 05.11.2026

| E25 UF | λ =20° Y=6° | 45° | | $l_1$ 2.5xD | |
|---|---|---|---|---|---|
| ULTRAFINE GRADE HIGH-END GRADE WITH VERY HIGH HARDNESS AND TOUGHNESS FOR MICRO-MACHINING | HELIX ANGLE 20° AND CUTTING ANGLE 6° | CHAMFER AT 45° | SIDE AND CENTER CUT | CUTTING EDGE LENGTH 2.5XD | FITTING LENGTH STANDARD |

## MATERIAL COMPATIBILITY

●●● Excellent (3/3) ●●○ Good (2/3) ●○○ Possible (1/3) ○○○ Not recommended

Product material compatibility

| CATEGORY | MATERIAL | SPECIFICATION | GRP | 29510A-2-4 |
|---|---|---|---|---|
| | **Alloyed and non-alloyed steels** Non-alloyed steels | Rm < 450 N/mm² | 1a | ●●● 3/3 |
| | | Rm 450–700 N/mm² | 1b | ●●● 3/3 |
| | | Rm 700–900 N/mm² | 1c | ●●● 3/3 |
| | | Rm > 1200 N/mm² | 1d | ●●○ 2/3 |
| | **Stainless steels** Stainless steels | Rm < 650 N/mm² | 2a | ●●● 3/3 |
| | | Rm 650–950 N/mm² | 2b | ●●● 3/3 |
| | | Rm > 950 N/mm² | 2c | ●●● 3/3 |
| | **Hardened steels** Hardened steels | 44–56 HRC | 3a | ○○○ 0/3 |
| | | 57–67 HRC | 3b | ○○○ 0/3 |
| | **Exotic materials** Special alloys | < 32 HRC | 4a | ●●○ 2/3 |
| | | > 32 HRC | 4b | ●●○ 2/3 |
| | **Graphite** Industrial graphite | | 5 | ○○○ 0/3 |
| | **Cast iron** Grey / nodular cast iron | < 32 HRC | 6a | ●●● 3/3 |
| | | > 32 HRC | 6b | ●●● 3/3 |
| | **Titanium** Titanium alloys | Rm < 600 N/mm² | 7a | ●●● 3/3 |
| | | 600 < Rm N/mm² | 7b | ●●● 3/3 |
| | **Nickel alloys** Inconel, Hastelloy | Rm < 1000 N/mm² | 8a | ●●○ 2/3 |
| | | Rm > 1000 N/mm² | 8b | ●●○ 2/3 |
| | **Copper, brass, bronze** Copper-based | Rm < 850 N/mm² | 9a | ●●● 3/3 |
| | | Rm > 850 N/mm² | 9b | ●●● 3/3 |
| | **Aluminum** Aluminum alloys | Si < 0.5% | 10a | ○○○ 0/3 |
| | | 0.5% < Si < 5% | 10b | ○○○ 0/3 |
| | | Si > 5% | 10c | ○○○ 0/3 |
| | **Synthetic materials** Engineering plastics | Thermoplastic | 11a | ○○○ 0/3 |
| | | Thermoset | 11b | ○○○ 0/3 |
| | **Composite materials** Reinforced composites | Glass fiber / GFK | 12a | ○○○ 0/3 |
| | | Carbon fiber / KFK | 12b | ○○○ 0/3 |
| | **Precious metals** Gold, platinum, silver | Gold | 13a | ●●● 3/3 |
| | | Platinum | 13b | ●●○ 2/3 |

## TECHNICAL DRAWING




29510

## DIMENSIONS

| NOMINAL DIMENSIONS | |
|---|---|
| D (0/- 0.02) | **2 mm** |
| d (h5) | **4 mm** |
| L | **50 mm** |
| l1 | **7 mm** |
| l3 | – |
| d3 | – |
| R | – |
| e | – |
| Z | **3** |
| Chamfer K | **0.15** |
| w° collision angle | **5.3°** |

E-SHOP / EZI CUT

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