# MICRO-FRAISE · Z3-FINISHING-MICRO-END-MILL-FOR-WATCHMAKING-COMPONENT · Z3-FINISH-MIKROFRÄSER-FÜR-UHRENKOMPONENTE

**21161T-0.5** Version 07.05.2026

TAKE IT EZI

SWISS MADE

E25 UF — CARBIDE TOOL MATERIAL E25 UF

λ=32°-38° Y=10° — ADJUSTABLE CUTTING ANGLES 32°-38°

angle vif — ACUTE ANGLE PRECISION TOOL

DUAL DIRECTION HELICAL DRILL BIT

l1 1.5xD — 1.5XD DEPTH PRECISION TOOL

ADJUSTABLE ANGLE ICON

λ2 λ1 — VARIABLE HELIX DRILL BIT

## MATERIAL COMPATIBILITY

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

| MATERIAL | SPECIFICATION | GRP | 21161T-0.5 |
|---|---|---|---|
| **Alloyed and non-alloyed steels** Non-alloyed steels | Rm < 450 N/mm² | 1a | ●●● |
| | Rm 450–700 N/mm² | 1b | ●●● |
| | Rm 700–900 N/mm² | 1c | ●●● |
| | Rm > 1200 N/mm² | 1d | ●●● |
| **Stainless steels** Stainless steels | Rm < 650 N/mm² | 2a | ●●● |
| | Rm 650–950 N/mm² | 2b | ●●● |
| | Rm > 950 N/mm² | 2c | ●●● |
| **Hardened steels** Hardened steels | 44–56 HRC | 3a | ●●● |
| | 57–67 HRC | 3b | ●●○ |
| **Exotic materials** Special alloys | < 32 HRC | 4a | ●●● |
| | > 32 HRC | 4b | ●●● |
| **Graphite** Industrial graphite | | 5 | ●●○ |
| **Cast iron** Grey / nodular cast iron | < 32 HRC | 6a | ●●○ |
| | > 32 HRC | 6b | ●●○ |
| **Titanium** Titanium alloys | Rm < 600 N/mm² | 7a | ●●● |
| | 600 < Rm N/mm² | 7b | ●●● |
| **Nickel alloys** Inconel, Hastelloy | Rm < 1000 N/mm² | 8a | ●●● |
| | Rm > 1000 N/mm² | 8b | ●●● |
| **Copper, brass, bronze** Copper-based | Rm < 850 N/mm² | 9a | ●●○ |
| | Rm > 850 N/mm² | 9b | ●●○ |
| **Aluminum** Aluminum alloys | Si < 0.5% | 10a | ●●○ |
| | 0.5% < Si < 5% | 10b | ●●○ |
| | Si > 5% | 10c | ●●○ |
| **Synthetic materials** Engineering plastics | Thermoplastic | 11a | ○○○ |
| | Thermoset | 11b | ○○○ |
| **Composite materials** Reinforced composites | Glass fiber / GFK | 12a | ●●○ |
| | Carbon fiber / KFK | 12b | ●●○ |
| **Precious metals** Gold, platinum, silver | Gold | 13a | ●●○ |
| | Platinum | 13b | ●●○ |

## TECHNICAL DRAWING

21161

## DIMENSIONS

| NOMINAL DIMENSIONS | |
|---|---|
| D (0 / -0.01) | 0.5 mm |
| d (h5) | 3 mm |
| L | 38 mm |
| l1 | 0.75 mm |
| l3 | – |
| d3 | – |
| R | – |
| e | – |
| Z | 3 |
| Chamfer K | - |
| w° collision | 11.7° |

**E-SHOP / EZI CUT**
eskenazi.ch/eshop/21161T-0.5

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