

# MICRO-FRAISE-D'ÉBAUCHE · Z3-ROUGHING-MICRO-END-MILL-R0.025-FOR-WATCHMAKING-COMPONENT · Z3-MIKRO-SCHRUUBFRÄSER-R0,025-FÜR-UHRENKOMPONENTE



SWISS MADE

21171T-1 Version 06.05.2026

<p>E25 UF</p> <p>CARBIDE TOOL MATERIAL E25 UF</p>	<p><math>\lambda=32^{\circ}\text{-}38^{\circ}</math> <math>\gamma=10^{\circ}</math></p> <p>ADJUSTABLE CUTTING ANGLES 32°-38°</p>	<p>U-SHAPED GROOVE TOOL PROFILE</p>	<p>DUAL DIRECTION HELICAL DRILL BIT</p>	<p>1.5xD</p> <p>1.5XD DEPTH PRECISION TOOL</p>	<p>ADJUSTABLE ANGLE ICON</p>	<p>VARIABLE HELIX DRILL BIT</p>
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## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21171T-1
<b>Alloyed and non-alloyed steels</b> <small>Non-alloyed steels</small>	Rm < 450 N/mm <sup>2</sup>	1a	●●●
	Rm 450–700 N/mm <sup>2</sup>	1b	●●●
	Rm 700–900 N/mm <sup>2</sup>	1c	●●●
	Rm > 1200 N/mm <sup>2</sup>	1d	●●●
<b>Stainless steels</b> <small>Stainless steels</small>	Rm < 650 N/mm <sup>2</sup>	2a	●●●
	Rm 650–950 N/mm <sup>2</sup>	2b	●●●
	Rm > 950 N/mm <sup>2</sup>	2c	●●●
<b>Hardened steels</b> <small>Hardened steels</small>	44–56 HRC	3a	●●●
	57–67 HRC	3b	●●○
<b>Exotic materials</b> <small>Special alloys</small>	< 32 HRC	4a	●●●
	> 32 HRC	4b	●●●
<b>Graphite</b> <small>Industrial graphite</small>		5	●●○
<b>Cast iron</b> <small>Grey / nodular cast iron</small>	< 32 HRC	6a	●●○
	> 32 HRC	6b	●●○
<b>Titanium</b> <small>Titanium alloys</small>	Rm < 600 N/mm <sup>2</sup>	7a	●●●
	600 < Rm N/mm <sup>2</sup>	7b	●●●
<b>Nickel alloys</b> <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm <sup>2</sup>	8a	●●●
	Rm > 1000 N/mm <sup>2</sup>	8b	●●●
<b>Copper, brass, bronze</b> <small>Copper-based</small>	Rm < 850 N/mm <sup>2</sup>	9a	●●○
	Rm > 850 N/mm <sup>2</sup>	9b	●●○
<b>Aluminum</b> <small>Aluminum alloys</small>	Si < 0.5%	10a	●●○
	0.5% < Si < 5%	10b	●●○
	Si > 5%	10c	●●○
<b>Synthetic materials</b> <small>Engineering plastics</small>	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
<b>Composite materials</b> <small>Reinforced composites</small>	Glass fiber / GFK	12a	●●○
	Carbon fiber / KFK	12b	●●○
<b>Precious metals</b> <small>Gold, platinum, silver</small>	Gold	13a	●●●
	Platinum	13b	●●○

## TECHNICAL DRAWING



## DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	1 mm
d (h5)	3 mm
L	38 mm
l	1.5 mm
l3	–
d3	–
R	0.025 mm
e	–
Z	3
Chamfer K	–
w° collision	10°



E-SHOP / EZI CUT  
[eskenazi.ch/eshop/21171T-1](https://eskenazi.ch/eshop/21171T-1)