

MICRO-FRAISE · Z3-FINISHING-MICRO-END-MILL-FOR-WATCHMAKING-COMPONENT-AND-MICRO-MACHINE · Z3-FINISH-MIKROFRÄSER-FÜR-UHRENKOMPONENTE-UND-MIKROMASCHINE



SWISS MADE

23161T-1.5 Version 08.08.2026

1.5
Ø D (MM)

28
L (MM)

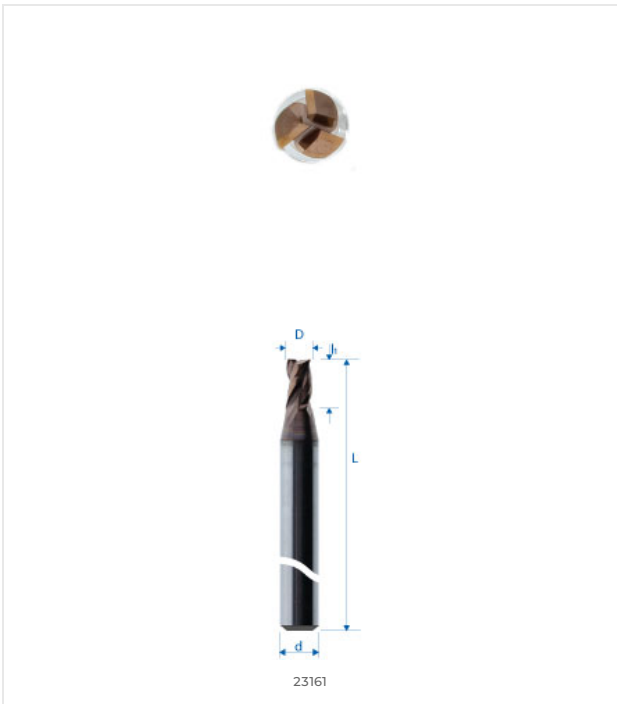
3
Z

MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	23161T-1.5
Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm ²	1a	●●● 3/3
	Rm 450–700 N/mm ²	1b	●●● 3/3
	Rm 700–900 N/mm ²	1c	●●● 3/3
	Rm > 1200 N/mm ²	1d	●●● 3/3
Stainless steels Stainless steels	Rm < 650 N/mm ²	2a	●●● 3/3
	Rm 650–950 N/mm ²	2b	●●● 3/3
	Rm > 950 N/mm ²	2c	●●● 3/3
Hardened steels Hardened steels	44–56 HRC	3a	●●● 3/3
	57–67 HRC	3b	●●○ 2/3
Exotic materials Special alloys	< 32 HRC	4a	●●● 3/3
	> 32 HRC	4b	●●● 3/3
Graphite Industrial graphite		5	●●○ 2/3
Cast iron Grey / nodular cast iron	< 32 HRC	6a	●●○ 2/3
	> 32 HRC	6b	●●○ 2/3
Titanium Titanium alloys	Rm < 600 N/mm ²	7a	●●● 3/3
	600 < Rm N/mm ²	7b	●●● 3/3
Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	●●● 3/3
	Rm > 1000 N/mm ²	8b	●●● 3/3
Copper, brass, bronze Copper-based	Rm < 850 N/mm ²	9a	●●○ 2/3
	Rm > 850 N/mm ²	9b	●●○ 2/3
Aluminum Aluminum alloys	Si < 0.5%	10a	●○○ 1/3
	0.5% < Si < 5%	10b	●○○ 1/3
	Si > 5%	10c	●○○ 1/3
Synthetic materials Engineering plastics	Thermoplastic	11a	○○○ 0/3
	Thermoset	11b	○○○ 0/3
Composite materials Reinforced composites	Glass fiber / GFK	12a	●●○ 2/3
	Carbon fiber / KFK	12b	●●○ 2/3
Precious metals Gold, platinum, silver	Gold	13a	●○○ 1/3
	Platinum	13b	●○○ 1/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	1.5 mm
d (h5)	3 mm
L	28 mm
l1	2 mm
l3	–
d3	–
R	–
e	–
Z	3
Chamfer K	–
w° collision	8.4°



E-SHOP / EZI CUT
eskenazi.ch/eshop/23161T-1.5