

MICRO-FRAISE-TORIQUE-MD-E25UF-+L3 · TORIC-MICRO-
ENDMILL-HM-E25UF · TORISCHE-MICROFRÄSER-HM-
E25UF



SWISS MADE

21072-1.5 Version 10.09.2026

E25 UF
ULTRAFINE GRADE HIGH-END GRADE WITH VERY HIGH HARDNESS AND TOUGHNESS FOR MICRO-MACHINING

$\lambda=30^{\circ}-35^{\circ}$
 $\gamma=8^{\circ}$
VARIABLE HELIX ANGLES 30° - 35° AND CUTTING ANGLE 8°

CORNER RADIUS SHAPE

SIDE AND CENTER CUT

l_1
1.2xD
CUTTING EDGE LENGTH 1.2xD

l_3
5xD
CUTTING LENGTH 5xD

FITTING LENGTH STANDARD

IRREGULAR TOOTHING

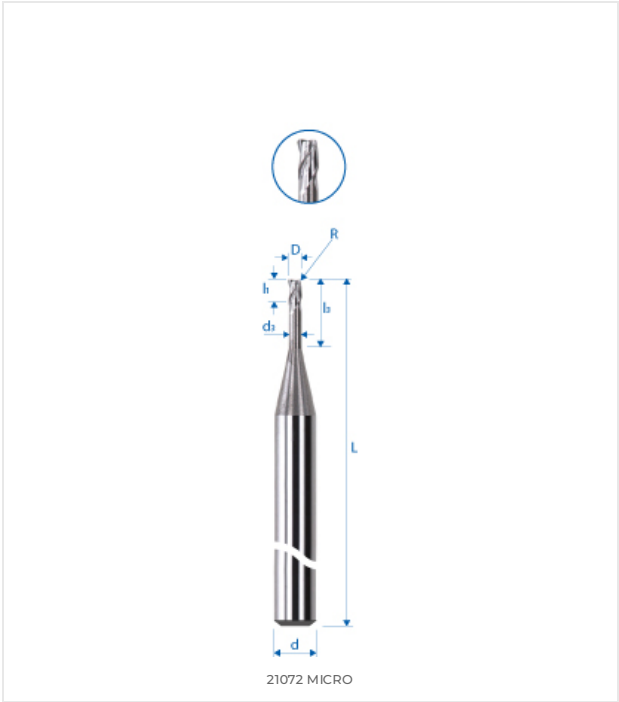
λ_2
 λ_1
VARIABLE HELIX ANGLES

MATERIAL COMPATIBILITY

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

Product material compatibility				
CATEGORY	MATERIAL	SPECIFICATION	GRP	21072-1.5
Alloyed and non-alloyed steels	Non-alloyed steels	Rm < 450 N/mm ²	1a	●○● 1/3
		Rm 450–700 N/mm ²	1b	○○○ 0/3
		Rm 700–900 N/mm ²	1c	○○○ 0/3
		Rm > 1200 N/mm ²	1d	○○○ 0/3
Stainless steels	Stainless steels	Rm < 650 N/mm ²	2a	○○○ 0/3
		Rm 650–950 N/mm ²	2b	○○○ 0/3
		Rm > 950 N/mm ²	2c	○○○ 0/3
Hardened steels	Hardened steels	44–56 HRC	3a	○○○ 0/3
		57–67 HRC	3b	○○○ 0/3
Exotic materials	Special alloys	< 32 HRC	4a	○○○ 0/3
		> 32 HRC	4b	○○○ 0/3
Graphite	Industrial graphite		5	●○● 1/3
Cast iron	Grey / nodular cast iron	< 32 HRC	6a	○○○ 0/3
		> 32 HRC	6b	○○○ 0/3
Titanium	Titanium alloys	Rm < 600 N/mm ²	7a	●○● 1/3
		600 < Rm N/mm ²	7b	●○● 1/3
Nickel alloys	Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	○○○ 0/3
		Rm > 1000 N/mm ²	8b	○○○ 0/3
Copper, brass, bronze	Copper-based	Rm < 850 N/mm ²	9a	●●● 3/3
		Rm > 850 N/mm ²	9b	●●● 3/3
Aluminum	Aluminum alloys	Si < 0.5%	10a	●●● 3/3
		0.5% < Si < 5%	10b	●●● 3/3
		Si > 5%	10c	○○○ 0/3
Synthetic materials	Engineering plastics	Thermoplastic	11a	●●● 3/3
		Thermoset	11b	●●● 3/3
Composite materials	Reinforced composites	Glass fiber / GFK	12a	●○● 1/3
		Carbon fiber / KFK	12b	●○● 1/3
Precious metals	Gold, platinum, silver	Gold	13a	●●● 3/3
		Platinum	13b	○○○ 0/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	1.5 mm
d (h5)	3 mm
L	38 mm
l1	2 mm
l3	7.5 mm
d3	–
R	0.15 mm
e	–
Z	3
Chamfer K	–
w° collision angle	4.2°





E-SHOP / EZI CUT
eskenazi.ch/eshop/21072-1.5

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