

FRAISE-MD-E25UF-+-EZI-ALPHA-POUR-MÉTAL-LOURD- · ENDMILL-SC-+-EZI-ALPHA-FOR-HEAVY-METAL · FRÄSER-HM-E25UF-+-EZI-ALPHA-FÜR-SCHWERMETALL



SWISS MADE

21159A-3

Version 07.05.2026

E25
UF

CARBIDE TOOL
MATERIAL E25 UF

$\lambda = 15^\circ$
 $\gamma = 0^\circ$

CUTTING ANGLES $\lambda 15^\circ$?
 $\gamma 0^\circ$

0.05-0.15
45°

45° CHAMFER 0.05-0.15
MM



DUAL DIRECTION
HELICAL DRILL BIT

l_1
1.5xD

1.5XD DEPTH
PRECISION TOOL



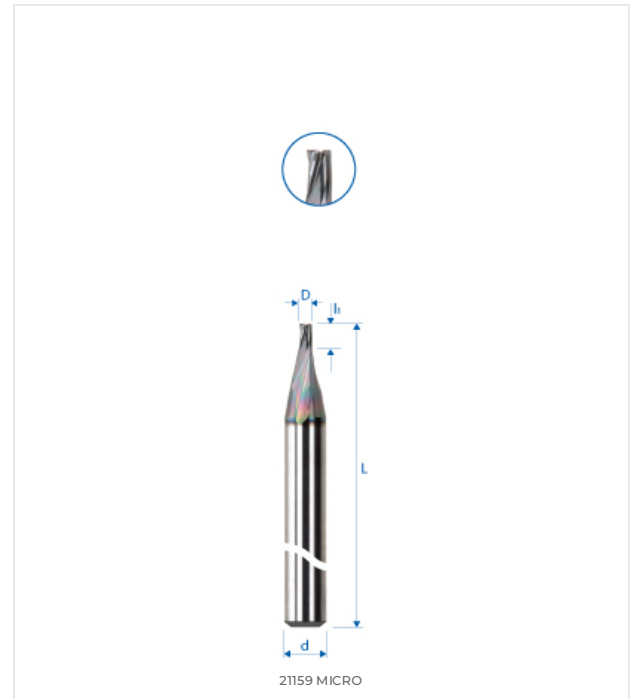
SHORT LENGTH TOOL
WEAR BARS

MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21159A-3
Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm ²	1a	○○○
	Rm 450-700 N/mm ²	1b	○○○
	Rm 700-900 N/mm ²	1c	○○○
	Rm > 1200 N/mm ²	1d	○○○
Stainless steels Stainless steels	Rm < 650 N/mm ²	2a	○○○
	Rm 650-950 N/mm ²	2b	○○○
	Rm > 950 N/mm ²	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/mm ²	7a	○○○
	600 < Rm N/mm ²	7b	○○○
Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	○○○
	Rm > 1000 N/mm ²	8b	○○○
Copper, brass, bronze Copper-based	Rm < 850 N/mm ²	9a	○○○
	Rm > 850 N/mm ²	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



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	3 mm
d (h5)	3 mm
L	38 mm
l1	4 mm
l3	-
d3	-
R	-
e	-
Z	4
Chamfer K	0.03
w° collision	-



E-SHOP / EZI CUT
eskenazi.ch/eshop/21159A-3

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