

ALÉSOIR-MACHINE-DENTURE-HÉLICOÏDALE-MD-E2 ·
MACHINE-REAMER-SPIRAL-FLUTED-SC-E2 ·
MASCHINEN-REIBAHLEN-SPIRALGENUTET-HM-E2



SWISS MADE

47420-12.01 Version 10.09.2026

E2

SUBMICRON GRAIN GRADE HIGH-SPEED MACHINING OF ABRASIVE MATERIALS

$\lambda = -5^\circ$
 $\gamma = 5^\circ$

HELIX ANGLE -5° AND CUTTING ANGLE 5°

MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	47420-12.01
Alloyed and non-alloyed steels	Non-alloyed steels	Rm < 450 N/mm ²	1a	●●○ 2/3
		Rm 450–700 N/mm ²	1b	●●○ 2/3
		Rm 700–900 N/mm ²	1c	●●○ 2/3
		Rm > 1200 N/mm ²	1d	●●○ 2/3
Stainless steels	Stainless steels	Rm < 650 N/mm ²	2a	●●○ 2/3
		Rm 650–950 N/mm ²	2b	●●○ 2/3
		Rm > 950 N/mm ²	2c	●●○ 2/3
Hardened steels	Hardened steels	44–56 HRC	3a	●○○ 1/3
		57–67 HRC	3b	○○○ 0/3
Exotic materials	Special alloys	< 32 HRC	4a	●●○ 2/3
		> 32 HRC	4b	●●○ 2/3
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	●●○ 2/3
		600 < Rm N/mm ²	7b	●●○ 2/3
Nickel alloys	Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	●○○ 1/3
		Rm > 1000 N/mm ²	8b	●○○ 1/3
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	●●○ 2/3
Synthetic materials	Engineering plastics	Thermoplastic	11a	●●● 3/3
		Thermoset	11b	●●● 3/3
Composite materials	Reinforced composites	Glass fiber / GFK	12a	●●○ 2/3
		Carbon fiber / KFK	12b	●●○ 2/3
Precious metals	Gold, platinum, silver	Gold	13a	●●● 3/3
		Platinum	13b	●○○ 1/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	12.01 mm
d (h5)	12.01 mm
L	100 mm
l1	19 mm
l3	59 mm
d3	–
R	–
e	–
Z	6
Chamfer K	1.2
w° collision angle	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/47420-12.01