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

47420-12 H7 Version 04.11.2026

SWISS MADE

E2

SUBMICRON GRAIN GRADE HIGH-SPEED MACHINING OF ABRASIVE MATERIALS

λ = -5°
Y = 5°

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 H7
	Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm²	1a	●●○ 2/3
		Rm 450–700 N/mm²	1b	●●○ 2/3
		Rm 700–900 N/mm²	1c	●●○ 2/3
		Rm > 1200 N/mm²	1d	●●○ 2/3
	Stainless steels Stainless steels	Rm < 650 N/mm²	2a	●●○ 2/3
		Rm 650–950 N/mm²	2b	●●○ 2/3
		Rm > 950 N/mm²	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/mm²	7a	●●○ 2/3
		600 < Rm N/mm²	7b	●●○ 2/3
	Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm²	8a	●○○ 1/3
		Rm > 1000 N/mm²	8b	●○○ 1/3
	Copper, brass, bronze Copper-based	Rm < 850 N/mm²	9a	●●● 3/3
		Rm > 850 N/mm²	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



47420

DIMENSIONS

NOMINAL DIMENSIONS	
D (H7)	12 mm
d (0/+0.018)	12 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 H7

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