

ALÉSOIR-MD-E2S-+-TROU-D'ARROSAGE · -REAMER-SC-
E2S-+-INTERNAL-COOLING · REIBAHLEN-HM-E2S-+-
COOLING



SWISS MADE

47480S-5.03

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°



INTERNAL COOLING

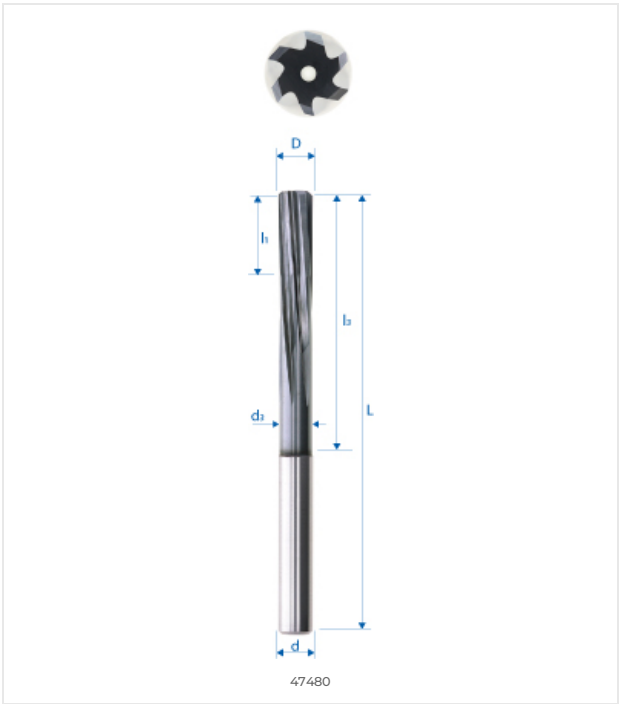
MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	47480S-5.03
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	●●○ 2/3
		57–67 HRC	3b	●●○ 2/3
Exotic materials Special alloys		< 32 HRC	4a	●●● 3/3
		> 32 HRC	4b	●●● 3/3
Graphite Industrial graphite			5	●●● 3/3
Cast iron Grey / nodular cast iron		< 32 HRC	6a	●●● 3/3
		> 32 HRC	6b	●●● 3/3
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	●●● 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	●●● 3/3
Synthetic materials Engineering plastics		Thermoplastic	11a	●●● 3/3
		Thermoset	11b	●●● 3/3
Composite materials Reinforced composites		Glass fiber / GFK	12a	●●● 3/3
		Carbon fiber / KFK	12b	●●● 3/3
Precious metals Gold, platinum, silver		Gold	13a	●●● 3/3
		Platinum	13b	●●○ 2/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	5.03 mm
d (h5)	5 mm
L	100 mm
l1	15 mm
l3	50 mm
d3	–
R	–
e	–
Z	4
Chamfer K	0.5
w° collision angle	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/47480S-5.03

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