

FRAISE-D'ÉBAUCHE-MD-E2-+-EZI-ALPHA-POUR-
MATÉRIAUX-DIFFICILES- · ROUGHING-ENDMILL-SC-E2-+-
EZI-ALPHA-FOR-DIFFICULT-MATERIALS · SCHAFT-
SCHRUPPFRÄSER-HM-E2-+-EZI-ALPHA-FÜR-HARTE-
WERKSTOFFE



SWISS MADE

21132A-12

Version 10.09.2026

E2

SUBMICRON GRAIN
GRADE HIGH-SPEED
MACHINING OF
ABRASIVE MATERIALS

$\lambda = 50^\circ$
 $\gamma = -12^\circ$

HELIX ANGLE 50° AND
CUTTING ANGLE -12°

0.05-0.15
45°

CHAMFER AT 45° /
HEIGHT 0.05 TO 0.15
MM

SIDE AND CENTER CUT

l_1
1.5xD

CUTTING EDGE
LENGTH 1.5XD

FITTING LENGTH
STANDARD

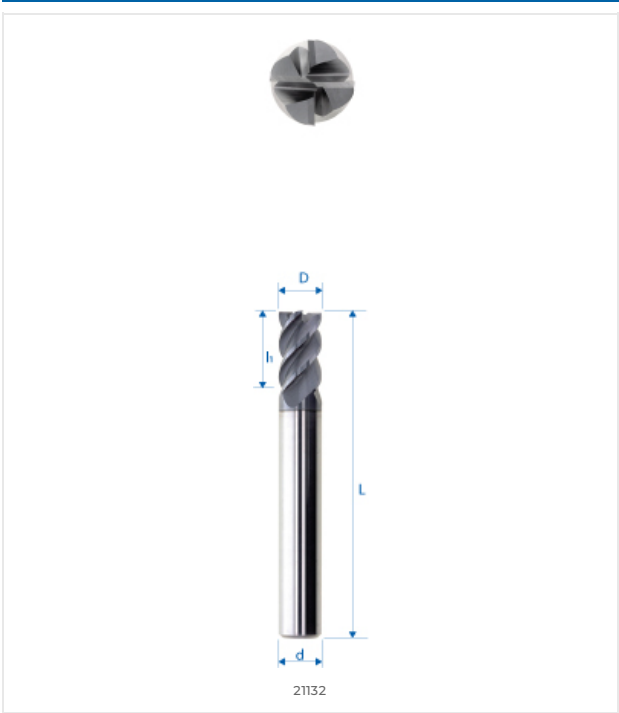
IRREGULAR TOOTHING

MATERIAL COMPATIBILITY

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

Product material compatibility				
CATEGORY	MATERIAL	SPECIFICATION	GRP	21132A-12
Alloyed and non-alloyed steels Non-alloyed steels		Rm < 450 N/mm²	1a	○○○ 0/3
		Rm 450–700 N/mm²	1b	○○○ 0/3
		Rm 700–900 N/mm²	1c	●○○ 1/3
		Rm > 1200 N/mm²	1d	●●● 3/3
Stainless steels Stainless steels		Rm < 650 N/mm²	2a	○○○ 0/3
		Rm 650–950 N/mm²	2b	●○○ 1/3
		Rm > 950 N/mm²	2c	●●○ 2/3
Hardened steels Hardened steels		44–56 HRC	3a	●●● 3/3
		57–67 HRC	3b	●●○ 2/3
Exotic materials Special alloys		< 32 HRC	4a	●●● 3/3
		> 32 HRC	4b	●●● 3/3
Graphite Industrial graphite			5	○○○ 0/3
Cast iron Grey / nodular cast iron		< 32 HRC	6a	●○○ 1/3
		> 32 HRC	6b	●○○ 1/3
Titanium Titanium alloys		Rm < 600 N/mm²	7a	●○○ 1/3
		600 < Rm N/mm²	7b	●○○ 1/3
Nickel alloys Inconel, Hastelloy		Rm < 1000 N/mm²	8a	●●● 3/3
		Rm > 1000 N/mm²	8b	●●● 3/3
Copper, brass, bronze Copper-based		Rm < 850 N/mm²	9a	○○○ 0/3
		Rm > 850 N/mm²	9b	○○○ 0/3
Aluminum Aluminum alloys		Si < 0.5%	10a	○○○ 0/3
		0.5% < Si < 5%	10b	○○○ 0/3
		Si > 5%	10c	○○○ 0/3
Synthetic materials Engineering plastics		Thermoplastic	11a	○○○ 0/3
		Thermoset	11b	○○○ 0/3
Composite materials Reinforced composites		Glass fiber / GFK	12a	○○○ 0/3
		Carbon fiber / KFK	12b	○○○ 0/3
Precious metals Gold, platinum, silver		Gold	13a	○○○ 0/3
		Platinum	13b	○○○ 0/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	12 mm
d (h5)	12 mm
L	83 mm
l1	18 mm
l3	–
d3	–
R	–
e	–
Z	4
Chamfer K	0.1
w° collision angle	–





E-SHOP / EZI CUT
eskenazi.ch/eshop/21132A-12