

FRAISE-D'ÉBAUCHE-MD-E2-+-EZI-ALPHA-+L3-POUR-
ACIERS · ROUGHING-ENDMILL-SC-E2-+-EZI-ALPHA-+L3-
FOR-STEEL · SCHAFT-SCHRUPPFRÄSER-HM-E2-+-EZI-
ALPHA-+L3-FÜR-STAHL



SWISS MADE

21139A-8

Version 11.09.2026

E2

SUBMICRON GRAIN
GRADE HIGH-
SPEED MACHINING
OF ABRASIVE
MATERIALS

$\lambda = 48^\circ$
 $\gamma = 0^\circ$

HELIX ANGLE 48°
AND CUTTING
ANGLE 0°

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

l_3

CUTTING LENGTH



FITTING LENGTH
STANDARD



IRREGULAR
TOOTHING

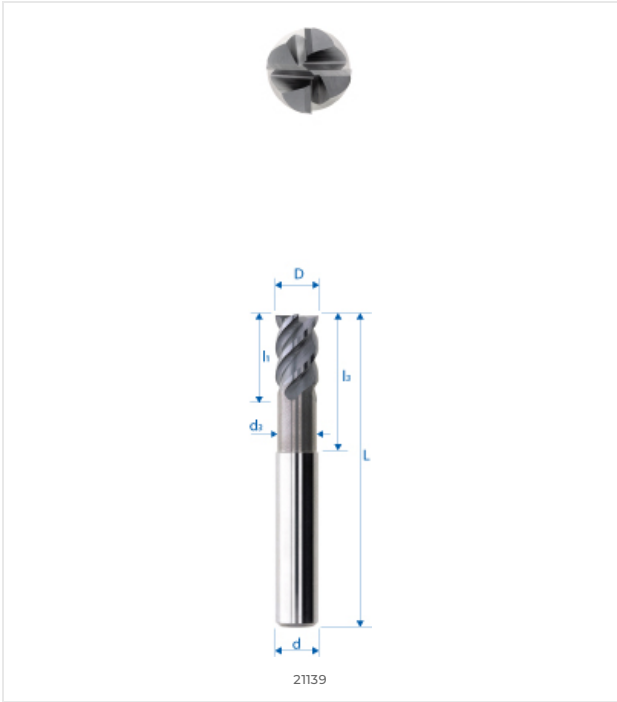
MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	21139A-8
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	●●○ 2/3
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	●○○ 1/3
Exotic materials	Special alloys	< 32 HRC	4a	●●○ 2/3
		> 32 HRC	4b	●●○ 2/3
Graphite	Industrial graphite		5	○○○ 0/3
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	●●○ 2/3
		600 < Rm N/mm ²	7b	●●○ 2/3
Nickel alloys	Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	●●○ 2/3
		Rm > 1000 N/mm ²	8b	●●○ 2/3
Copper, brass, bronze	Copper-based	Rm < 850 N/mm ²	9a	○○○ 0/3
		Rm > 850 N/mm ²	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	●○○ 1/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	8 mm
d (h5)	8 mm
L	63 mm
l1	12 mm
l3	26 mm
d3	–
R	–
e	–
Z	4
Chamfer K	0.1
w° collision angle	–



E-SHOP / EZI CUT



eskenazi.ch/eshop/21139A-8

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