

FRAISE-DE-FINITION-MD-E2+-EZI-ALPHA · FINISHING-
ENDMILL-SC-E2+-EZI-ALPHA · SCHLICHTFRÄSER-HM-
E2+-EZI-ALPHA



SWISS MADE

21144A-20

Version 11.09.2026

E2

SUBMICRON GRAIN GRADE
HIGH-SPEED MACHINING
OF ABRASIVE MATERIALS

$\lambda = 45^\circ$
 $\gamma = 8^\circ$

HELIX ANGLE 45° AND
CUTTING ANGLE 8°

$\phi \leq 6$ $\phi > 6$
90° 45°

SHARP EDGE $\phi \leq 6$ AND
CHAMFER AT 45° $\phi > 6$



SIDE AND CENTER CUT

l_1
3xD

CUTTING EDGE LENGTH
3XD



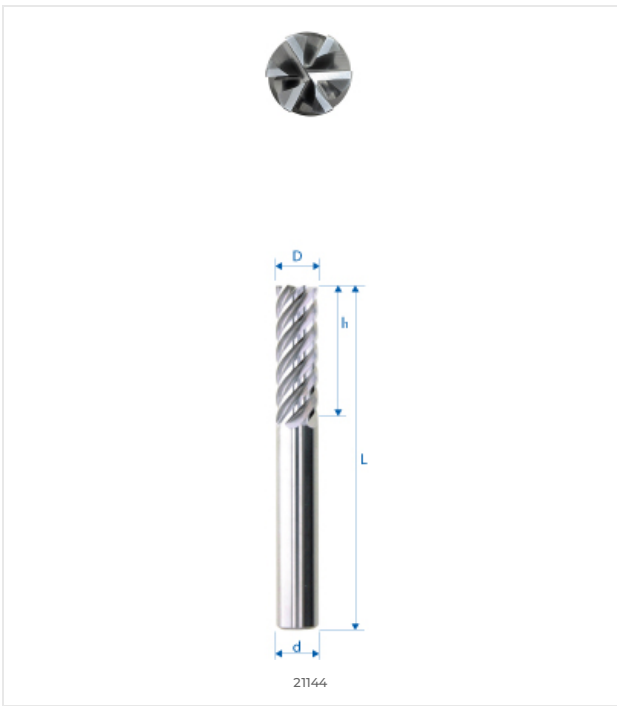
FITTING LENGTH LONG

MATERIAL COMPATIBILITY

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

Product material compatibility				
CATEGORY	MATERIAL	SPECIFICATION	GRP	21144A-20
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	●○○ 1/3
Exotic materials	Special alloys	< 32 HRC	4a	●●● 3/3
		> 32 HRC	4b	●●○ 2/3
Graphite	Industrial graphite		5	●●○ 2/3
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	●●○ 2/3
		Rm > 1000 N/mm ²	8b	●●○ 2/3
Copper, brass, bronze	Copper-based	Rm < 850 N/mm ²	9a	●○○ 1/3
		Rm > 850 N/mm ²	9b	●○○ 1/3
Aluminum	Aluminum alloys	Si < 0.5%	10a	●○○ 1/3
		0.5% < Si < 5%	10b	●○○ 1/3
		Si > 5%	10c	●●○ 2/3
Synthetic materials	Engineering plastics	Thermoplastic	11a	●○○ 1/3
		Thermoset	11b	●○○ 1/3
Composite materials	Reinforced composites	Glass fiber / GFK	12a	●○○ 1/3
		Carbon fiber / KFK	12b	●○○ 1/3
Precious metals	Gold, platinum, silver	Gold	13a	●○○ 1/3
		Platinum	13b	●○○ 1/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	20 mm
d (h5)	20 mm
L	104 mm
l1	46 mm
l3	–
d3	–
R	–
e	–
Z	10
Chamfer K	0.1
w° collision angle	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/21144A-20

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