

FRAISE-D'ÉBAUCHE-À-PROFIL-PLAT-MD-E2-+-EZI-
ALPHA-+L3 · ROUGHING-ENDMILL-FINE-PROFILE-SC-E2-
+-EZI-ALPHA · SCHAFT-SCHRUPPFRÄSER-FEIN-PROFIL-
HM-E2-+-EZI-ALPHA



SWISS MADE

21535A-18 Version 10.09.2026

E2

SUBMICRON GRAIN GRADE
HIGH-SPEED
MACHINING OF
ABRASIVE
MATERIALS

$\lambda=45^{\circ}-47^{\circ}$
 $\gamma=15^{\circ}$

VARIABLE HELIX
ANGLES 45° -
 47° AND
CUTTING ANGLE
 15°

45°

CHAMFER AT 45°

SIDE AND
CENTER CUT

l_1
 $2.5 \times D$

CUTTING EDGE
LENGTH $2.5 \times D$

l_3

CUTTING
LENGTH

FITTING LENGTH
STANDARD

IRREGULAR
TOOTHING

λ_2
 λ_1

VARIABLE HELIX
ANGLES

MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	21535A-18
Alloyed and non-alloyed steels	Non-alloyed steels	$R_m < 450 \text{ N/mm}^2$	1a	●●● 3/3
		$R_m 450-700 \text{ N/mm}^2$	1b	●●● 3/3
		$R_m 700-900 \text{ N/mm}^2$	1c	●●● 3/3
		$R_m > 1200 \text{ N/mm}^2$	1d	●○○ 1/3
Stainless steels	Stainless steels	$R_m < 650 \text{ N/mm}^2$	2a	●●● 3/3
		$R_m 650-950 \text{ N/mm}^2$	2b	●●● 3/3
		$R_m > 950 \text{ N/mm}^2$	2c	●●● 3/3
Hardened steels	Hardened steels	44-56 HRC	3a	○○○ 0/3
		57-67 HRC	3b	○○○ 0/3
Exotic materials	Special alloys	$< 32 \text{ HRC}$	4a	●○○ 1/3
		$> 32 \text{ HRC}$	4b	●○○ 1/3
Graphite	Industrial graphite		5	○○○ 0/3
Cast iron	Grey / nodular cast iron	$< 32 \text{ HRC}$	6a	●●● 3/3
		$> 32 \text{ HRC}$	6b	●●● 3/3
Titanium	Titanium alloys	$R_m < 600 \text{ N/mm}^2$	7a	●●● 3/3
		$600 < R_m \text{ N/mm}^2$	7b	●●● 3/3
Nickel alloys	Inconel, Hastelloy	$R_m < 1000 \text{ N/mm}^2$	8a	●○○ 1/3
		$R_m > 1000 \text{ N/mm}^2$	8b	●○○ 1/3
Copper, brass, bronze	Copper-based	$R_m < 850 \text{ N/mm}^2$	9a	●●● 3/3
		$R_m > 850 \text{ N/mm}^2$	9b	●●● 3/3
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	●●● 3/3
		Platinum	13b	●●○ 2/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	18 mm
d (h5)	18 mm
L	92 mm
l1	32 mm
l3	43 mm
d3	-
R	-
e	-
Z	4
Chamfer K	0.4
w° collision angle	-



ESUCH01EZICUT

© 2026 ESI GROUP. ALL RIGHTS RESERVED.



E-SHOP / E21001
eskenazi.ch/eshop/21535A-18

© 2026 Eskenazi SA — Carouge, Genève
All rights reserved