

FRAISE-D'ÉBAUCHE-À-PROFIL-PLAT-ET-ARROSAGE-CENTRAL · ROUGHING-ENDMILL-WITH-FLAT-PROFILE-AND-INTERNAL-COOLING · SCHRUPPFRÄSER-MIT-FEINPROFIL-UND-INNENKÜHLUNG



SWISS MADE

28525A-4-6 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
1.5xD

CUTTING EDGE LENGTH 1.5xD

l_3
3xD

CUTTING LENGTH 3xD

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	28525A-4-6
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	○○○ 0/3
		57–67 HRC	3b	○○○ 0/3
Exotic materials	Special alloys	< 32 HRC	4a	●●○ 2/3
		> 32 HRC	4b	●●○ 2/3
Graphite	Industrial graphite		5	●○○ 1/3
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	●●● 3/3
		Rm > 850 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	●○○ 1/3
		Carbon fiber / KFK	12b	●○○ 1/3
Precious metals	Gold, platinum, silver	Gold	13a	●●● 3/3
		Platinum	13b	●●○ 2/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	4 mm
d (h5)	6 mm
L	57 mm
l1	6 mm
l3	12 mm
d3	–
R	–
e	–
Z	3
Chamfer K	0.2
w° collision angle	3.7°



E-SHOP / EZI CUT
eskenazi.ch/eshop/28525A-4-6