

FRAISE-A-CHANFREINER-BI-FACE-90°-Z:4-MD-E2 ·
BEVEL-MILLING-CUTTER-BI-FACE-90°-Z:4-CARBIDE-E2 ·
FASENFRAESER-BI-FACE-90°-Z:4-HM-E2



SWISS MADE

21735-11.7

Version 11.09.2026

E2

SUBMICRON GRAIN GRADE HIGH-SPEED
MACHINING OF ABRASIVE MATERIALS

$\lambda = 0^\circ$
 $\gamma = 8^\circ$

TOOL ANGLES LAMBDA 0° GAMMA 8°



DOUBLE-SIDED 45° CHAMFER CUTTER



SIDE ONLY CUT

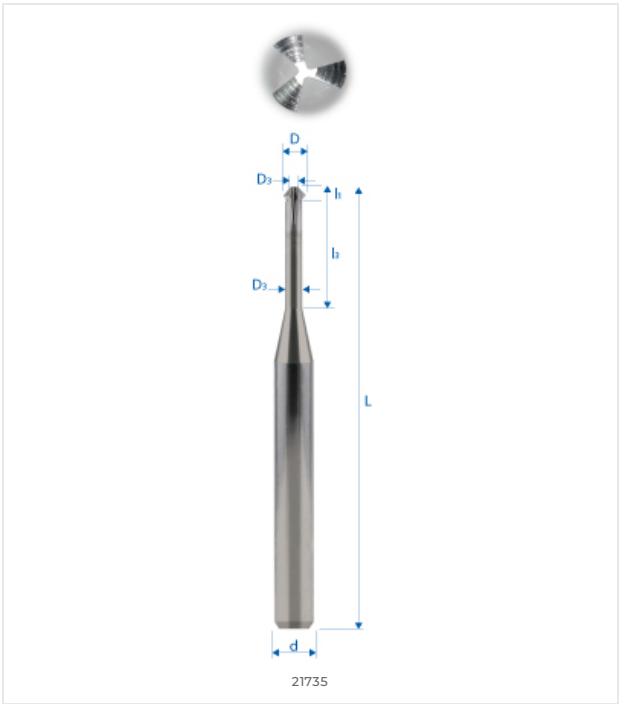
MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	21735-11.7
Alloyed and non-alloyed steels Non-alloyed steels		Rm < 450 N/mm ²	1a	●○○ 1/3
		Rm 450–700 N/mm ²	1b	●○○ 1/3
		Rm 700–900 N/mm ²	1c	●○○ 1/3
		Rm > 1200 N/mm ²	1d	○○○ 0/3
Stainless steels Stainless steels		Rm < 650 N/mm ²	2a	●○○ 1/3
		Rm 650–950 N/mm ²	2b	●○○ 1/3
		Rm > 950 N/mm ²	2c	○○○ 0/3
Hardened steels Hardened steels		44–56 HRC	3a	○○○ 0/3
		57–67 HRC	3b	○○○ 0/3
Exotic materials Special alloys		< 32 HRC	4a	○○○ 0/3
		> 32 HRC	4b	○○○ 0/3
Graphite Industrial graphite			5	●○○ 1/3
Cast iron Grey / nodular cast iron		< 32 HRC	6a	○○○ 0/3
		> 32 HRC	6b	○○○ 0/3
Titanium Titanium alloys		Rm < 600 N/mm ²	7a	●○○ 1/3
		600 < Rm N/mm ²	7b	●○○ 1/3
Nickel alloys Inconel, Hastelloy		Rm < 1000 N/mm ²	8a	○○○ 0/3
		Rm > 1000 N/mm ²	8b	○○○ 0/3
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	●●● 3/3
		0.5% < Si < 5%	10b	●●● 3/3
		Si > 5%	10c	○○○ 0/3
Synthetic materials Engineering plastics		Thermoplastic	11a	●●● 3/3
		Thermoset	11b	●●● 3/3
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	○○○ 0/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	11.7 mm
d (h5)	12 mm
L	110 mm
l1	5.8 mm
l3	41 mm
d3	–
R	–
e	–
Z	4
Chamfer K	–
w° collision angle	0.2°



E-SHOP / EZI CUT
eskenazi.ch/eshop/21735-11.7

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