

# FRAISE-DE-FINITION-MD-E2+-EZI-ALPHA-L3 Z4 · ENDMILL Z4 · FRÄSER Z4



21115A-8

Version 07.05.2026

SWISS MADE

<p><b>E2</b> E2 HIGH PRECISION TOOL MATERIAL</p>	<p><math>\lambda=35^{\circ}\text{-}38^{\circ}</math> <math>\gamma=10^{\circ}</math> CUTTING ANGLES 735-38° 710°</p>	<p><math>\phi &lt; 6</math> <math>\phi &gt; 6</math> 90° 45° CHAMFER <math>\phi &lt; 6</math> <math>\phi &gt; 6</math> 90° 45°</p>	<p>DUAL DIRECTION HELICAL DRILL BIT</p>	<p>1.5xD 1.5XD DEPTH PRECISION TOOL</p>	<p>I3 THREE-POINT CONTACT TOOL</p>	<p>EXTRA LONG PRECISION DRILL BITS</p>	<p>ADJUSTABLE ANGLE ICON</p>	<p>VARIABLE HELIX DRILL BIT</p>
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## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21115A-8
<b>Alloyed and non-alloyed steels</b> <small>Non-alloyed steels</small>	Rm < 450 N/mm <sup>2</sup>	1a	●●●
	Rm 450-700 N/mm <sup>2</sup>	1b	●●●
	Rm 700-900 N/mm <sup>2</sup>	1c	●●●
	Rm > 1200 N/mm <sup>2</sup>	1d	●●●
<b>Stainless steels</b> <small>Stainless steels</small>	Rm < 650 N/mm <sup>2</sup>	2a	●●●
	Rm 650-950 N/mm <sup>2</sup>	2b	●●●
	Rm > 950 N/mm <sup>2</sup>	2c	●●●
<b>Hardened steels</b> <small>Hardened steels</small>	44-56 HRC	3a	●○○
	57-67 HRC	3b	○○○
<b>Exotic materials</b> <small>Special alloys</small>	< 32 HRC	4a	●●○
	> 32 HRC	4b	●●○
<b>Graphite</b> <small>Industrial graphite</small>		5	●●○
<b>Cast iron</b> <small>Grey / nodular cast iron</small>	< 32 HRC	6a	●●○
	> 32 HRC	6b	●●○
<b>Titanium</b> <small>Titanium alloys</small>	Rm < 600 N/mm <sup>2</sup>	7a	●●●
	600 < Rm N/mm <sup>2</sup>	7b	●●●
<b>Nickel alloys</b> <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm <sup>2</sup>	8a	●●○
	Rm > 1000 N/mm <sup>2</sup>	8b	●●○
<b>Copper, brass, bronze</b> <small>Copper-based</small>	Rm < 850 N/mm <sup>2</sup>	9a	●○○
	Rm > 850 N/mm <sup>2</sup>	9b	●○○
<b>Aluminum</b> <small>Aluminum alloys</small>	Si < 0.5%	10a	●○○
	0.5% < Si < 5%	10b	●●○
	Si > 5%	10c	●●○
<b>Synthetic materials</b> <small>Engineering plastics</small>	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
<b>Composite materials</b> <small>Reinforced composites</small>	Glass fiber / GFK	12a	●○○
	Carbon fiber / KFK	12b	●○○
<b>Precious metals</b> <small>Gold, platinum, silver</small>	Gold	13a	●○○
	Platinum	13b	●○○

## TECHNICAL DRAWING



## DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	8 mm
d (h5)	8 mm
L	82 mm
l1	12 mm
l3	45 mm
d3	-
R	-
e	-
Z	4
Chamfer K	0.1
w° collision	-



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21115A-8