

# FRAISE-DE-FINITION-LONGUE-MD-E2 · FINISHING- ENDMILL-LONG-SC-E2 · SCHLICHTFRÄSER-LANG-HM-E2



21145-20

Version 21.06.2026

SWISS MADE

<p>E2 E2 HIGH PRECISION TOOL MATERIAL</p>	<p><math>\lambda = 45^\circ</math> <math>\gamma = 8^\circ</math> CUTTING ANGLES <math>\gamma 45^\circ ?</math> 8°</p>	<p><math>\phi \leq 6</math> <math>\phi &gt; 6</math> 90° 45° CHAMFER <math>\phi &lt; 6</math> <math>\phi &gt; 6</math> 90° 45°</p>	<p>LATERAL CUTTING TWIST DRILL BIT</p>	<p>L3 8xD 8XD LENGTH L3 CUTTING TOOL</p>	<p>EXTRA LONG PRECISION DRILL BITS</p>
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## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21145-20
<b>Alloyed and non-alloyed steels</b> Non-alloyed steels	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> Stainless steels	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> Hardened steels	44–56 HRC	3a	○○○
	57–67 HRC	3b	○○○
<b>Exotic materials</b> Special alloys	< 32 HRC	4a	○○○
	> 32 HRC	4b	○○○
<b>Graphite</b> Industrial graphite		5	●●○
<b>Cast iron</b> Grey / nodular cast iron	< 32 HRC	6a	●○○
	> 32 HRC	6b	●○○
<b>Titanium</b> Titanium alloys	Rm < 600 N/mm <sup>2</sup>	7a	●○○
	600 < Rm N/mm <sup>2</sup>	7b	●○○
<b>Nickel alloys</b> Inconel, Hastelloy	Rm < 1000 N/mm <sup>2</sup>	8a	○○○
	Rm > 1000 N/mm <sup>2</sup>	8b	○○○
<b>Copper, brass, bronze</b> Copper-based	Rm < 850 N/mm <sup>2</sup>	9a	●●●
	Rm > 850 N/mm <sup>2</sup>	9b	●●●
<b>Aluminum</b> Aluminum alloys	Si < 0.5%	10a	●●○
	0.5% < Si < 5%	10b	●●○
	Si > 5%	10c	○○○
<b>Synthetic materials</b> Engineering plastics	Thermoplastic	11a	●●○
	Thermoset	11b	●●○
<b>Composite materials</b> Reinforced composites	Glass fiber / GFK	12a	●○○
	Carbon fiber / KFK	12b	●○○
<b>Precious metals</b> Gold, platinum, silver	Gold	13a	●●●
	Platinum	13b	●○○

## TECHNICAL DRAWING



## DIMENSIONS

### NOMINAL DIMENSIONS

D (0 / -0.01)	20 mm
d (h5)	20 mm
L	141 mm
l3	75 mm
d3	–
R	–
e	–
Z	10
Chamfer K	0.1
w° collision	–



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21145-20

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