

<b>E2</b> E2 HIGH PRECISION TOOL MATERIAL	$\lambda=35^{\circ}\text{-}38^{\circ}$ $\gamma=10^{\circ}$ CUTTING ANGLES $\gamma$ 35-38° $\gamma$ 10°	$\phi \leq 6$ $\phi > 6$ 90° 45° CHAMFER $\phi < 6$ $\phi > 6$ 90° 45°	 DUAL DIRECTION HELICAL DRILL BIT	$l_1$ 4xD 4XD DRILLING DEPTH INDICATOR	 EXTRA LONG PRECISION DRILL BITS
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MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21345-8
<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)	8 mm
d (h5)	8 mm
L	82 mm
l1	38 mm
l3	-
d3	-
R	-
e	-
Z	3
Chamfer K	0.1
w° collision	-

