

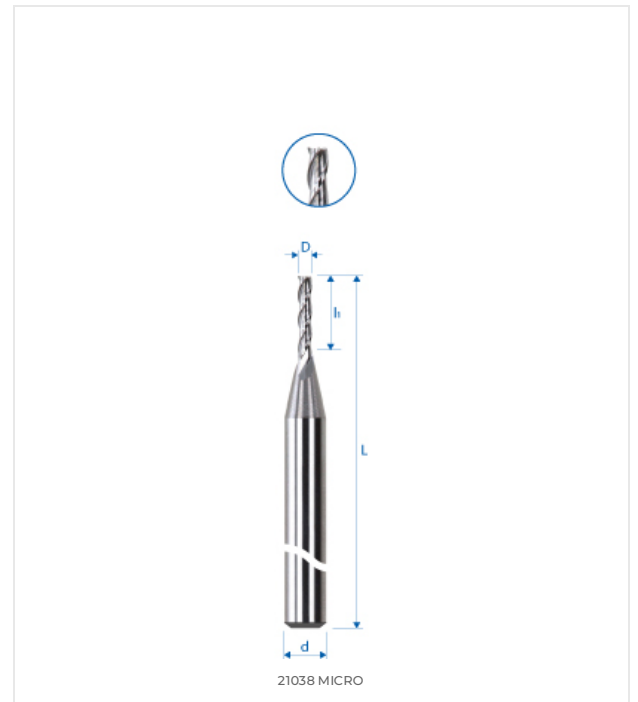
 CARBIDE TOOL MATERIAL E25 UF	 CUTTING ANGLES $\lambda=30^{\circ}\text{--}35^{\circ}$ $\gamma=8^{\circ}$	 ACUTE ANGLE PRECISION TOOL	 DUAL DIRECTION HELICAL DRILL BIT	 8xD LENGTH L3 CUTTING TOOL	 EXTRA LONG PRECISION DRILL BITS	 ADJUSTABLE ANGLE ICON	 VARIABLE HELIX DRILL BIT
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MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21038A-0.4
Alloyed and non-alloyed steels <small>Non-alloyed steels</small>	Rm < 450 N/mm ²	1a	●●●
	Rm 450–700 N/mm ²	1b	●●●
	Rm 700–900 N/mm ²	1c	●●●
	Rm > 1200 N/mm ²	1d	●●●
Stainless steels <small>Stainless steels</small>	Rm < 650 N/mm ²	2a	●●●
	Rm 650–950 N/mm ²	2b	●●●
	Rm > 950 N/mm ²	2c	●●●
Hardened steels <small>Hardened steels</small>	44–56 HRC	3a	○○○
	57–67 HRC	3b	○○○
Exotic materials <small>Special alloys</small>	< 32 HRC	4a	●●○
	> 32 HRC	4b	●●○
Graphite <small>Industrial graphite</small>		5	●●○
Cast iron <small>Grey / nodular cast iron</small>	< 32 HRC	6a	●●○
	> 32 HRC	6b	●●○
Titanium <small>Titanium alloys</small>	Rm < 600 N/mm ²	7a	●●●
	600 < Rm N/mm ²	7b	●●●
Nickel alloys <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm ²	8a	●●●
	Rm > 1000 N/mm ²	8b	●●●
Copper, brass, bronze <small>Copper-based</small>	Rm < 850 N/mm ²	9a	●○○
	Rm > 850 N/mm ²	9b	●○○
Aluminum <small>Aluminum alloys</small>	Si < 0.5%	10a	●○○
	0.5% < Si < 5%	10b	●○○
	Si > 5%	10c	●●○
Synthetic materials <small>Engineering plastics</small>	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
Composite materials <small>Reinforced composites</small>	Glass fiber / GFK	12a	●●○
	Carbon fiber / KFK	12b	●●○
Precious metals <small>Gold, platinum, silver</small>	Gold	13a	●○○
	Platinum	13b	●○○

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	0.4 mm
d (h5)	3 mm
L	38 mm
l1	2 mm
l3	–
d3	–
R	–
e	–
Z	3
Chamfer K	–
w° collision	10°

