

Garant**Solid carbide ball nose milling cutter, DLC, Ø f8 DC: 12mm****Order data**

Order number	207441 12
GTIN	4045197591098
Item class	11X

Description**Version:**

With the latest generation of **DLC coating sp²**. For **high-performance milling of aluminium materials**. 4 centre cutting edges to the centre. Therefore can be used as a true **4-edge drill** at all depths of cut.

Tolerance: Radius contour = **±0.005 mm**.

Technical description

No. of teeth Z	4
Cutting edge Ø D _c	12 mm
Recess Ø D ₁	11.4 mm
Feed f _z for copy milling in cast aluminium	0.08 mm
Overhang length L ₁ incl. recess	38 mm
Shank Ø D _s	12 mm
Overall length L	73 mm
Flute length L _c	16 mm
Helix angle	45 degrees
Radius R	6 mm
Coating	DLC
Tool material	Solid carbide

Standard	Manufacturer's standard
Type	W
Tolerance nominal Ø	f8
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	$0.1 \times D$ for copy milling
Shank	DIN 6535 HA to h6
Through-coolant	no
Colour ring	yellow
Type of product	Ball-nosed slot drill

User data

	Suitability	V_c	ISO code
Aluminium	Suitable	600 m/min	N
Aluminium (short chipping)	suitable	550 m/min	N
Alu > 10% Si	suitable	500 m/min	N
PMMA acrylic	Suitable	220 m/min	N
PE-HD	Suitable	180 m/min	N
PA 66	Suitable	220 m/min	N
PEEK	Suitable	170 m/min	N
PF 31	Suitable	150 m/min	N
PVDF GF20	Suitable	200 m/min	N
POM GF25	Suitable	180 m/min	N
PA 66 GF30	Suitable	170 m/min	N
PEEK GF30	Suitable	140 m/min	N
PTFE CF25	Suitable	180 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	320 m/min	N
Cu	Suitable	180 m/min	N

CuZn	Suitable	220 m/min	N
wet maximum	suitable		
wet minimum	Suitable		
dry	suitable only under restricted conditions		
Air	Suitable		

Services

Shank grinding Type HB	129100 HB
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