

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

Order data

Order number	207443 12
GTIN	4045197591180
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.

Can therefore be used as a true **4-edge drill** in all cutting depths; for hardened steel.

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

Technical description

Cutting edge Ø D _c	12 mm
Overhang length L ₁ incl. recess	60 mm
No. of teeth Z	4
Feed f _z for copy milling in cast aluminium	0.08 mm
Recess Ø D ₁	11.4 mm
Shank Ø D _s	12 mm
Overall length L	100 mm
Flute length L _c	26 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×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	500 m/min	N
Aluminium (short chipping)	suitable	450 m/min	N
Alu > 10% Si	suitable	400 m/min	N
PMMA acrylic	Suitable	200 m/min	N
PE-HD	Suitable	160 m/min	N
PA 66	Suitable	200 m/min	N
PEEK	Suitable	150 m/min	N
PF 31	Suitable	130 m/min	N
PVDF GF20	Suitable	180 m/min	N
POM GF25	Suitable	160 m/min	N
PA 66 GF30	Suitable	150 m/min	N
PEEK GF30	Suitable	120 m/min	N
PTFE CF25	Suitable	160 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	300 m/min	N
Cu	Suitable	160 m/min	N
CuZn	Suitable	200 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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