

**Garant**
**GARANT Master Steel solid carbide ball nose slot drill HPC, TiAlN, Ø f8 DC: 12 mm**

**Order data**

Order number	207490 12
GTIN	4062406285388
Item class	11X

**Description**
**Version:**
**Precision ground for very high accuracy requirements.**

Tolerance: Radius contour =  $\pm 0.005$  mm.

Improved cutting edge protection thanks to slight edge honing. Tremendous bending strength due to the use of ultra-fine grain substrate.

No. of teeth Z: 4

Helix angle: 30 degrees

No. of teeth Z: 4

Flute length  $L_c$ : 16 mm

Overhang length  $L_1$  incl. recess: 38 mm

Recess  $\varnothing D_1$ : 11.5 mm

Overall length L: 83 mm

Shank  $\varnothing D_s$ : 12 mm

**Technical description**

Flute length $L_c$	16 mm
Shank $\varnothing D_s$	12 mm
Overhang length $L_1$ incl. recess	38 mm
Helix angle	30 degrees
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Recess $\varnothing D_1$	11.5 mm
Overall length L	83 mm

No. of teeth Z	4
Cutting edge $\varnothing D_c$	12 mm
Feed $f_z$ for copy milling in steel < 900 N/mm <sup>2</sup>	0.075 mm
Radius R	6 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal $\varnothing$	f8
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.03×D for copy milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill