

**Garant**
**GARANT Master Steel solid carbide ball nose slot drill HPC, TiAlN, Ø f8 DC: 4 mm**

**Order data**

Order number	207490 4
GTIN	4062406285333
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  $L_c$ : 8 mm

Overhang length  $L_1$  incl. recess: 18 mm

Recess  $\varnothing D_1$ : 3.8 mm

Overall length L: 50 mm

Shank  $\varnothing D_s$ : 4 mm

**Technical description**

Feed $f_z$ for side milling in steel $< 900$ N/mm <sup>2</sup>	0.03 mm
Feed $f_z$ for copy milling in steel $< 900$ N/mm <sup>2</sup>	0.035 mm
Recess $\varnothing D_1$	3.8 mm
Flute length $L_c$	8 mm
No. of teeth Z	4
Helix angle	30 degrees
Cutting edge $\varnothing D_c$	4 mm

Overall length L	50 mm
Overhang length L <sub>1</sub> incl. recess	18 mm
Shank Ø D <sub>s</sub>	4 mm
Radius R	2 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	f8
Direction of infeed	horizontal, oblique and vertical
Cutting width a <sub>e</sub> for milling operation	0.03×D for copy milling
Cutting width a <sub>e</sub> 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