

Garant
GARANT Master Steel solid carbide ball nose slot drill HPC, TiAlN, Ø f8 DC: 20 mm

Order data

Order number	207490 20
GTIN	4062406285418
Item class	11X

Description
Version:
Precision ground for very high accuracy requirements.

Tolerance: Radius contour = ± 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 : 26 mm

Overhang length L_1 incl. recess: 50 mm

Recess $\varnothing D_1$: 19.5 mm

Overall length L: 104 mm

Shank $\varnothing D_s$: 20 mm

Technical description

Shank $\varnothing D_s$	20 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.15 mm
Overhang length L_1 incl. recess	50 mm
Feed f_z for copy milling in steel < 900 N/mm ²	0.18 mm
Overall length L	104 mm
Flute length L_c	26 mm
No. of teeth Z	4

Helix angle	30 degrees
Cutting edge $\varnothing D_c$	20 mm
Recess $\varnothing D_1$	19.5 mm
Radius R	10 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