

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

Order data

Order number	207246 4
GTIN	4062406285258
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.

Technical description

Shank $\varnothing D_s$	4 mm
Overall length L	100 mm
Cutting edge $\varnothing D_c$	4 mm
Flute length L_c	8 mm
Helix angle	28 degrees
Feed f_z for copy milling in steel < 900 N/mm ²	0.06 mm
No. of teeth Z	2
Feed f_z for side milling in steel < 900 N/mm ²	0.04 mm
Radius R	2 mm
Series	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	0.5×D for side milling
Cutting width a_e for milling operation	0.03×D for copy milling
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	Ball-nosed slot drill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	Suitable	250 m/min	P
Steel < 750 N/mm ²	Suitable	220 m/min	P
Steel < 900 N/mm ²	suitable	200 m/min	P
Steel < 1100 N/mm ²	suitable	170 m/min	P
Steel < 1400 N/mm ²	suitable	150 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	120 m/min	H
INOX < 900 N/mm ²	suitable	75 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	70 m/min	M
GG(G)	suitable only under restricted conditions	300 m/min	K
Uni	Suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

dry	Suitable
Air	Suitable