

**Garant**
**GARANT Master INOX solid carbide ball nose milling cutter HPC, TiAlN, Ø f8  
DC / DS: 5/6mm**

**Order data**

Order number	207474 5/6
GTIN	4062406130466
Item class	11X

**Description**
**Version:**

HPC milling cutters with **newly developed high-performance coating** for **outstanding service life** and **optimum metal removal rates** in a wide range of stainless steels.

**Greater oxidation resistance** and **high-temperature hardness**.

Can be used at **high cutting speeds**, particularly suitable even for TOOLOX®.

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

**Technical description**

Feed $f_z$ for copy milling in stainless steel < 900 N/mm <sup>2</sup>	0.013 mm
Flute length $L_c$	9 mm
Overall length $L$	80 mm
No. of teeth $Z$	4
Cutting edge $\varnothing D_c$	5 mm
Correction factor for $v_c$	1.25
Shank $\varnothing D_s$	6 mm
Feed $f_z$ for side milling in INOX < 900 N/mm <sup>2</sup>	0.012 mm
Helix angle	45 degrees
Radius $R$	2.5 mm
Series	Master INOX

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	Full slot cutting depth 1×D
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Colour ring	blue
Type of product	Ball-nosed slot drill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	250 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	230 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	170 m/min	P
TOOLOX 33	suitable	115 m/min	H
TOOLOX 44	suitable	80 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	110 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	90 m/min	M
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable		

dry	suitable only under restricted conditions
<del>Air</del> <b>Services</b>	suitable
Shank grinding Type HB	129100 HB