

# GARANT Master Steel solid carbide high-performance reamer HPC through hole, TiAlN, Nominal Ø DC: 9mm



## **Order data**

Order number	164420 9
GTIN	4062406284220
Item class	10P

# **Description**

#### **Version:**

The latest generation of **universal** HPC reamers. Extra-short teeth for increased cutting performance values. Optimised cooling strategy with radially arranged coolant outlets aligned directly to the teeth. **For uncompromising applications in steel and stainless steel.** Reliable machining of high-tensile steels **up to 60 HRC. Version suitable for NC** with straight shank  $\varnothing$  for standard arbors especially in **hydraulic chucks** or **high precision collet chucks.** 

Very high concentricity and process reliability due to unequal spacing.

### **Tolerance specifications:**

**Configurable:** Reamers finish ground to match your specification.

**H7:** Version for H7 bore tolerance.

**0/0.005 mm:** Manufacturing or cutting tolerance of nominal Ø D<sub>C</sub>.

**Application:** 

Special version for through holes.

# **Technical description**

Series	Master Steel	
Ø range	8.701 - 9.2 mm	
Shank Ø D <sub>s</sub> 10 mm		
Feed f in steel < 1100 N/mm <sup>2</sup> 1.2 mm/rev.		
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.3 mm/rev.	
Flute length L <sub>c</sub>	10 mm	
Overall length L	100 mm	

Nominal Ø D <sub>c</sub>	9 mm		
Overhang L <sub>1</sub>	60 mm		
Number of cutting edges Z	6		
Tolerance	Configurable		
Reaming oversize in diameter	0.1 mm		
Coating	TiAIN		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Through-coolant	yes, with 25 bar		
Shank	DIN 6535 HA with h6		
Machining strategy	HPC		
Application for type of drilling	for through holes		
Colour ring	green		
Type of product	Phillips bit		

# **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	180 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	180 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	180 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	150 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	Suitable	100 m/min	Р
Steel < 55 HRC	Suitable	12 m/min	Н
Steel < 60 HRC	Suitable only under restricted conditions	8 m/min	н
INOX < 900 N/mm <sup>2</sup>	suitable	50 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	30 m/min	М
GG	suitable	110 m/min	K

GGG	suitable	90 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		