# Garant

# GARANT Master Steel solid carbide high-performance reamer HPC through hole, TiAIN, Nominal Ø DC: 5,99mm



## Order data

Order number	164420 5,99
GTIN	4067263886440
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 Ø 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**

Number of cutting edges Z	6	
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.3 mm/rev.	
Nominal Ø D <sub>c</sub>	5.99 mm	
Flute length L <sub>c</sub>	8 mm	
Reaming oversize in diameter	0.1 mm	
Tolerance	0 / 0.005	
Overall length L	75 mm	

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Series	Master Steel	
Feed f in steel < 1100 N/mm <sup>2</sup>	1 mm/rev.	
Overhang L <sub>1</sub>	39 mm	
Shank Ø D <sub>s</sub>	6 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	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	180 m/min	Ρ
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	К
GGG	suitable	90 m/min	К

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# Data sheet

Uni	suitable	
wet maximum	suitable	
wet minimum	suitable	