

**Garant**
**GARANT Master Steel solid carbide high-performance reamer HPC through hole, TiAlN, Nominal  $\varnothing$  DC: 10,03mm**

**Order data**

Order number	164420 10,03
GTIN	4067263886570
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  $\varnothing$  D<sub>c</sub>.

**Application:**

Special version for through holes.

**Technical description**

Flute length L <sub>c</sub>	12 mm
Nominal $\varnothing$ D <sub>c</sub>	10.03 mm
Series	Master Steel
Tolerance	0 / 0.005
Reaming oversize in diameter	0.1 mm
Overall length L	120 mm
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.4 mm/rev.

Overhang $L_1$	80 mm
Shank $\varnothing D_s$	10 mm
Feed $f$ in steel $< 1100 \text{ N/mm}^2$	1.4 mm/rev.
Number of cutting edges $Z$	6
Coating	TiAlN
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	$V_c$	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable only under restricted conditions	180 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	180 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	180 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	150 m/min	P
Steel $< 1400 \text{ N/mm}^2$	Suitable	100 m/min	P
Steel $< 55 \text{ HRC}$	Suitable	12 m/min	H
Steel $< 60 \text{ HRC}$	Suitable only under restricted conditions	8 m/min	H
INOX $< 900 \text{ N/mm}^2$	suitable	50 m/min	M
INOX $> 900 \text{ N/mm}^2$	suitable	30 m/min	M
GG	suitable	110 m/min	K
GGG	suitable	90 m/min	K

Uni	suitable
wet maximum	suitable
wet minimum	suitable