

GARANT Master Steel solid carbide high-performance reamer HPC through hole, TiAlN, Nominal Ø DC: 11,98mm



Order data

Order number	164420 11,98
GTIN	4067263886587
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_C.

Application:

Special version for through holes.

Technical description

Tolerance	0 / 0.005
Nominal Ø D _c	11.98 mm
nank Ø D _s 12 mm	
Number of cutting edges Z	6
Feed f in steel < 1100 N/mm ² 1.4 mm/rev.	
Feed f in stainless steel < 900 N/mm ² 0.5 mm/rev.	
Series	Master Steel

Reaming oversize in diameter	0.2 mm	
Overall length L	120 mm	
Overhang L ₁	75 mm	
Flute length L _c	12 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	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable only under restricted conditions	180 m/min	Р
Steel < 750 N/mm ²	suitable	180 m/min	Р
Steel < 900 N/mm ²	suitable	180 m/min	Р
Steel < 1100 N/mm ²	suitable	150 m/min	Р
Steel < 1400 N/mm ²	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 ²	suitable	50 m/min	М
INOX > 900 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	