Garant

GARANT Master Steel solid carbide high-performance reamer HPC through hole, TiAIN, Nominal Ø DC: 12mm



Order data

Order number	164420 12
GTIN	4062406284282
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_c.

Application:

Special version for through holes.

Technical description

Overhang L ₁	75 mm	
Nominal Ø D _c	12 mm	
Ø range	11.701 - 12.2 mm	
Overall length L	120 mm	
Feed f in stainless steel < 900 N/mm ²	0.5 mm/rev.	
Number of cutting edges Z	6	
Flute length L _c	12 mm	

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Series	Master Steel		
Shank Ø D _s	12 mm		
Feed f in steel < 1100 N/mm ²	1.7 mm/rev.		
Tolerance	Configurable		
Reaming oversize in diameter	0.2 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 _c	ISO code
Steel < 500 N/mm²	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	М
GG	suitable	110 m/min	К

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