# Garant

#### Solid carbide reamers HPC through hole, TiAlN, Nominal Ø DC: 11,97mm



### **Order data**

Order number	164362 11,97		
GTIN	4045197363336		
Item class	10N		

#### Description

#### Version:

**Version suitable for NC** with straight shank Ø for standard arbors especially in **hydraulic chucks** or **high precision collet chucks.** For **highest concentricity** and **process reliability**. No need to procure special collets. With internal coolant supply for **HPC applications** to reduce manufacturing costs.

**Reamer manufacturing tolerances:** whole number sizes and Ø 0.5: H7 to DIN 1420 1/100 sizes Ø 3.97 - 12.03: +0.004/0 With short flutes and left-hand helix. **Application:** For HPC/HSM reaming of through holes. Note: **NEW GENERATION AVAILABLE!** Recommended successor product is No. 164420. Application for type of drilling: for through holes Bore Ø tolerance: 0 / 0.004 Number of cutting edges Z: 6 Bore Ø tolerance: 0 / 0.004 Flute length L<sub>c</sub>: 20 mm Overhang L<sub>1</sub>: 71 mm Overall length L: 120 mm Number of cutting edges Z: 6 Shank Ø D<sub>s</sub>: 12 mm

#### **Technical description**

Feed f in steel < 1100 N/mm<sup>2</sup>

0.7 mm/rev.

Nominal Ø D <sub>c</sub>	11.97 mm		
Shank tolerance	h6		
Overhang L <sub>1</sub>	71 mm		
Shank Ø D <sub>s</sub>	12 mm		
Overall length L	120 mm		
Flute length L <sub>c</sub>	20 mm		
Number of cutting edges Z	6		
recommended drill Ø in steel < 1100 N/mm <sup>2</sup>	11.8 mm		
Bore Ø tolerance	0 / 0.004		
Coating	TiAIN		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Through-coolant	yes		
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 < 750 N/mm <sup>2</sup>	suitable	150 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	120 m/min	Р
GG	suitable	80 m/min	К
GGG	suitable	60 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		

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