Garant

Solid carbide NC machine reamer, uncoated, Nominal Ø DC: 11,97mm

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Order data

Order number	164340 11,97		
GTIN	4045197094063		
Item class	11P		

Description

Version:

Version suitable for NC similar to DIN 8093 with straight shank Ø for standard chucking especially in hydraulic chucks or high precision collet chucks. This ensures the highest concentricity.

Tolerance specifications:

Size 0.6 – 0.9: Manufacturing or cutting edge tolerance **0/+0.004 mm.**

Size 0.98 – 20: Reamer manufacturing or cutting edge tolerance to DIN1420 for **H7 bore tolerance.**

No need to procure special collets when using GARANT-NC reamers. With long flutes and left-hand helix.

Application:

For reaming through holes, as the chips are evacuated in the cutting direction. Lead taper is suitable also for blind holes.

Note:

For reamers like No. 164340 and 164341 but with other diameters and fits see No. 164344 and 164345.

Technical description

Feed f in steel < 1100 N/mm ²	0.18 mm/rev.	
Nominal Ø D _c	11.97 mm	
Shank tolerance	h6	
Overhang L ₁	99 mm	
Shank Ø D _s	12 mm	
Overall length L	150 mm	

Flute length L _c	44 mm		
Number of cutting edges Z	6		
Tolerance	H7		
Reaming oversize in diameter	0.1 - 0.2 mm		
Coating	uncoated		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Through-coolant	no		
Shank	DIN 6535 HA with h6		
Application for type of drilling	for through holes		
Colour ring	green		
Type of product	Phillips bit		

User data

	Suitability	V _c	ISO code
Aluminium	suitable	35 m/min	Ν
Aluminium (short chipping)	suitable	30 m/min	Ν
Steel < 500 N/mm ²	suitable	20 m/min	Р
Steel < 750 N/mm ²	suitable	13 m/min	Р
Steel < 900 N/mm ²	suitable	10 m/min	Р
Steel < 1100 N/mm ²	suitable	8 m/min	Р
Steel < 1400 N/mm ²	suitable	6 m/min	Р
INOX < 900 N/mm ²	suitable only under restricted conditions	10 m/min	М
INOX > 900 N/mm ²	suitable only under restricted conditions	8 m/min	М
Ti > 850 N/mm²	suitable	8 m/min	S
GG(G)	suitable	8 m/min	К
CuZn	suitable	20 m/min	Ν

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Data sheet

Uni

suitable

wet maximum

suitable