

**Garant**
**Solid carbide NC machine reamer Configurable, uncoated, Nominal Ø DC: 11,5mm**

**Order data**

Order number	164345 11,5
GTIN	4045197328380
Item class	10N

**Description**
**Version:**

**Version suitable for NC DIN 8093-2 with straight shank** Ø for **standard chucking** especially in **hydraulic chucks** or **high precision collet chucks**. This ensures **very high concentricity** and **process reliability**,

**The use of GARANT-NC reamers eliminates the need to procure special collets.** With long flutes and left-hand helix.

**Reamers finish ground to match your specification.**

**Application:**

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

**Note:**

For H7 fit see No. 164340 and 164341.

**Technical description**

Feed f in steel < 1100 N/mm <sup>2</sup>	0.18 mm/rev.
Nominal Ø D <sub>c</sub>	11.5 mm
Overhang L <sub>1</sub>	100 mm
Shank tolerance	h6
Shank Ø D <sub>s</sub>	10 mm
Overall length L	142 mm
Flute length L <sub>c</sub>	41 mm
Ø range	11.06 - 11.8 mm

Number of cutting edges Z	6
Reaming oversize in diameter	0.1 - 0.2 mm
Coating	uncoated
Tool material	Solid carbide
Standard	DIN 8093
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 <sub>c</sub>	ISO code
Aluminium	suitable	35 m/min	N
Aluminium (short chipping)	suitable	30 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	20 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	13 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	10 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	8 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	6 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	10 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	8 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	8 m/min	S
GG(G)	suitable	8 m/min	K
CuZn	suitable	20 m/min	N
Uni	suitable		
wet maximum	suitable		

