

## Garant

### Solid carbide NC machine reamer, TiAlN, Nominal Ø DC: 11,99 mm



#### Order data

Order number	164341 11,99
GTIN	4045197465030
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 gives **very high concentricity** and **process reliability** when manufacturing H7 fits. **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.

Application for type of drilling: for through holes

Bore Ø tolerance: H7

Number of cutting edges Z: 6

Bore Ø tolerance: H7

Flute length  $L_c$ : 44 mm

Overhang  $L_i$ : 99 mm

Overall length L: 150 mm

Number of cutting edges Z: 6

Shank Ø  $D_s$ : 12 mm

#### Technical description

Nominal Ø $D_c$	11.99 mm
Shank tolerance	h6
Feed f in steel < 1100 N/mm <sup>2</sup>	0.18 mm/rev.

Overhang $L_1$	99 mm
Shank $\varnothing D_s$	12 mm
Overall length L	150 mm
Flute length $L_c$	44 mm
Number of cutting edges Z	6
recommended drill $\varnothing$ in steel < 1100 N/mm <sup>2</sup>	11.7 mm
Bore $\varnothing$ tolerance	H7
Coating	TiAlN
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	Reaming tool with non-detachable cutters