

## Garant

### Solid carbide NC machine reamer, TiAlN, Nominal $\varnothing$ DC: 4,5 mm



#### Order data

Order number	164341 4,5
GTIN	4045197464422
Item class	11P

#### Description

##### Version:

**Version suitable for NC** similar to DIN 8093 **with straight shank  $\varnothing$**  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  $\varnothing$  tolerance: H7

Number of cutting edges Z: 6

Bore  $\varnothing$  tolerance: H7

Flute length  $L_c$ : 23 mm

Overhang  $L_1$ : 40 mm

Overall length L: 82 mm

Number of cutting edges Z: 6

Shank  $\varnothing$   $D_s$ : 6 mm

#### Technical description

Nominal $\varnothing$ $D_c$	4.5 mm
Overhang $L_1$	40 mm
Feed f in steel < 1100 N/mm <sup>2</sup>	0.12 mm/rev.

Shank tolerance	h6
Shank $\varnothing$ D <sub>s</sub>	6 mm
Overall length L	82 mm
Flute length L <sub>c</sub>	23 mm
Number of cutting edges Z	6
recommended drill $\varnothing$ in steel < 1100 N/mm <sup>2</sup>	4.3 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