

## Garant

### Solid carbide NC machine reamer, TiAlN, Nominal $\varnothing$ DC: 1,99 mm



#### Order data

Order number	164341 1,99
GTIN	4045197464057
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: 4

Bore  $\varnothing$  tolerance: H7

Flute length  $L_c$ : 12 mm

Overhang  $L_i$ : 16 mm

Overall length L: 50 mm

Number of cutting edges Z: 4

Shank  $\varnothing$   $D_s$ : 4 mm

#### Technical description

Nominal $\varnothing$ $D_c$	1.99 mm
Feed f in steel < 1100 N/mm <sup>2</sup>	0.08 mm/rev.
Shank tolerance	h6

Overhang $L_1$	16 mm
Shank $\varnothing D_s$	4 mm
Overall length L	50 mm
Flute length $L_c$	12 mm
Number of cutting edges Z	4
recommended drill $\varnothing$ in steel < 1100 N/mm <sup>2</sup>	1.9 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