Garant

# Solid carbide NC machine reamer, TiAlN, Nominal ⌀ DC: 2,99mm

## Order data

| | |
|---|---|
| Order number | 164341 2,99 |
| GTIN | 4045197464187 |
| Item class | 11P |

## Description

**Version:**
**Version suitable for NC** similar to DIN 8093 **with straight shank ⌀** 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

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|---|---|
| Feed f in steel < 1100 N/mm$^2$ | 0.1 mm/rev. |
| Overhang $L_1$ | 30 mm |
| Shank tolerance | h6 |
| Nominal ⌀ $D_C$ | 2.99 mm |
| Shank ⌀ $D_s$ | 4 mm |
| Overall length L | 64 mm |

| | |
|---|---|
| Flute length $L_c$ | 17 mm |
| Number of cutting edges Z | 4 |
| Tolerance | H7 |
| Reaming oversize in diameter | 0.05 - 0.1 mm |
| 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 | Phillips bit |

## User data

| | Suitability | $V_c$ | ISO code |
|---|---|---|---|
| Aluminium | suitable | 35 m/min | N |
| Aluminium (short chipping) | suitable | 30 m/min | N |
| Alu > 10% Si | suitable only under restricted conditions | 25 m/min | N |
| Steel < 500 N/mm² | suitable | 30 m/min | P |
| Steel < 750 N/mm² | suitable | 25 m/min | P |
| Steel < 900 N/mm² | suitable | 20 m/min | P |
| Steel < 1100 N/mm² | suitable | 15 m/min | P |
| Steel < 1400 N/mm² | suitable | 10 m/min | P |
| INOX < 900 N/mm² | suitable | 15 m/min | M |
| INOX > 900 N/mm² | suitable | 12 m/min | M |
| Ti > 850 N/mm² | suitable only under restricted conditions | 10 m/min | S |
| GG(G) | suitable | 10 m/min | K |

| | | | |
|---|---|---|---|
| CuZn | suitable | 25 m/min | N |
| Uni | suitable | | |
| wet maximum | suitable | | |