

Garant
Solid carbide reamers HPC through hole, TiAlN, Nominal Ø DC: 11,99mm

Order data

| | |
|--------------|---------------|
| Order number | 164362 11,99 |
| GTIN | 4045197363350 |
| Item class | 10N |

Description
Version:

Version suitable for NC with straight shank Ø for standard arbors especially in **hydraulic chucks** or **high precision collet chucks**. For **highest concentricity** and **process reliability**. No need to procure special collets. With internal coolant supply for **HPC applications** to reduce manufacturing costs.

Reamer manufacturing tolerances:

whole number sizes and Ø 0.5: H7 to DIN 1420

1/100 sizes Ø 3.97 – 12.03: +0.004/0

With short flutes and left-hand helix.

Application:

For **HPC/HSM reaming** of **through holes**.

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 164420.

Application for type of drilling: for through holes

Bore Ø tolerance: 0 / 0.004

Number of cutting edges Z: 6

Bore Ø tolerance: 0 / 0.004

Flute length L_c : 20 mm

Overhang L_1 : 71 mm

Overall length L: 120 mm

Number of cutting edges Z: 6

Shank Ø D_s : 12 mm

Technical description

| | |
|-----------------|----------|
| Nominal Ø D_c | 11.99 mm |
|-----------------|----------|

| | |
|---|-------------------------|
| Overhang L_1 | 71 mm |
| Shank tolerance | h6 |
| Feed f in steel < 1100 N/mm ² | 0.7 mm/rev. |
| Shank $\varnothing D_s$ | 12 mm |
| Overall length L | 120 mm |
| Flute length L_c | 20 mm |
| Number of cutting edges Z | 6 |
| recommended drill \varnothing in steel < 1100 N/mm ² | 11.8 mm |
| Bore \varnothing tolerance | 0 / 0.004 |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | Manufacturer's standard |
| Through-coolant | yes |
| Shank | DIN 6535 HA with h6 |
| Machining strategy | HPC |
| Application for type of drilling | for through holes |
| Colour ring | green |
| Type of product | Phillips bit |

User data

| | Suitability | V_c | ISO code |
|--------------------------------|-------------|-----------|----------|
| Steel < 750 N/mm ² | suitable | 150 m/min | P |
| Steel < 900 N/mm ² | suitable | 120 m/min | P |
| Steel < 1100 N/mm ² | suitable | 120 m/min | P |
| GG | suitable | 80 m/min | K |
| GGG | suitable | 60 m/min | K |
| Uni | suitable | | |
| wet maximum | suitable | | |
| wet minimum | suitable | | |

