

Garant
Machine reamer H7, uncoated, Nominal Ø DC: 6,5mm

Order data

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| Order number | 163000 6,5 |
| GTIN | 4045197252982 |
| Item class | 110 |

Description
Version:

With long flutes and left-hand helix.
 From size 1.8 even number of teeth and uneven spacing.
 Up to size 3.7 both ends with external centres;
 from size 3.9 both ends with internal centres.

Reamers finish ground for fit H7.
Application:

For reaming through holes. Also suitable for blind holes (from 3.9 mm Ø) due to short chamfer lead.

Note:

- **Straight flute machine chucking reamers – available ex-stock.**
- **For reamers with other diameters and fits see No. 162951.**

Technical description

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|--|-------------|
| Shank tolerance | h9 |
| Overhang L_1 | 64 mm |
| Feed f in steel $< 750 \text{ N/mm}^2$ | 0.2 mm/rev. |
| Nominal Ø D_c | 6.5 mm |
| Shank Ø D_s | 6.3 mm |
| Overall length L | 101 mm |
| Flute length L_c | 28 mm |
| Number of cutting edges Z | 6 |

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|----------------------------------|---------------------|
| Tolerance | H7 |
| Reaming oversize in diameter | 0.1 - 0.2 mm |
| Coating | uncoated |
| Tool material | HSS E |
| Standard | DIN 212 B |
| Through-coolant | no |
| Shank | Plain shank with h9 |
| Application for type of drilling | for through holes |
| Colour ring | without |
| Type of product | Phillips bit |

User data

| | Suitability | V _c | ISO code |
|--------------------------------|---|----------------|----------|
| Aluminium | suitable | 20 m/min | N |
| Aluminium (short chipping) | suitable | 20 m/min | N |
| Steel < 500 N/mm ² | suitable | 15 m/min | P |
| Steel < 750 N/mm ² | suitable | 10 m/min | P |
| Steel < 900 N/mm ² | suitable | 7 m/min | P |
| Steel < 1100 N/mm ² | suitable | 5 m/min | P |
| Steel < 1400 N/mm ² | suitable only under restricted conditions | 4 m/min | P |
| INOX < 900 N/mm ² | suitable | 5 m/min | M |
| INOX > 900 N/mm ² | suitable only under restricted conditions | 5 m/min | M |
| Ti > 850 N/mm ² | suitable only under restricted conditions | 5 m/min | S |
| GG(G) | suitable only under restricted conditions | 5 m/min | K |
| CuZn | suitable only under restricted conditions | 13 m/min | N |

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|-------------|----------|
| Uni | suitable |
| Oil | suitable |
| wet maximum | suitable |