

**Garant**

**Copy mill 7° positive, with threaded shank, Ø D / number of teeth Z: 20/2 mm**


**Order data**

|              |               |
|--------------|---------------|
| Order number | 212140 20/2   |
| GTIN         | 4045197750259 |
| Item class   | 210           |

**Description**
**Version:**

Milling body with irregular pitch for smooth cutting.

- **High axial run-out accuracy and concentricity**
- **Stepless repositioning of the insert as the cutting edge wears.**

Vibration reduction and soft cutter edge entry due to 7° positive setting of the indexable inserts.

**Note:**

Use GARANT torque screwdriver TQ No. **211750 size 3.8** with bit No. **674252 size 15IP**.

$a_{p\max} = 2.5$  mm.

Tool exchange: PowerCard

Through-coolant: yes

Number of cutting edges Z: 2

Ø D<sub>1</sub> h6: 10.5 mm

Ø D<sub>2</sub>: 17.7 mm

Ø D<sub>3</sub>: 10 mm

Overall length L<sub>tot</sub>: 30 mm

Mounting thread M: M10

**Technical description**

|                                 |          |
|---------------------------------|----------|
| Ø D <sub>2</sub>                | 17.7 mm  |
| suitable indexable insert       | RD..1003 |
| Overall length L <sub>tot</sub> | 30 mm    |
| Ø D <sub>3</sub>                | 10 mm    |

|   |                       |
|---|-----------------------|
| Pack of insert screws                             | 219804 (15IP; 3.8 Nm) |
| Ø D <sub>1</sub> h6                               | 10.5 mm               |
| Number of cutting edges Z                         | 2                     |
| Mounting thread M                                 | M10                   |
| Cutting edge Ø D <sub>c</sub>                     | 20 mm                 |
| Through-coolant                                   | yes                   |
| Ramping length L for α <sub>max</sub>             | 7.48 mm               |
| Circular interpolation milling Ø D <sub>min</sub> | 30 mm                 |
| Ramping angle α <sub>max</sub>                    | 5.37 degrees          |
| Circular interpolation milling Ø D <sub>max</sub> | 38 mm                 |
| Shank type  | with threaded shank   |
| Milling head suitable for insert shape            | round                 |
| Milling application                               | Ramping               |
| Milling application                               | Circular milling      |
| Spacing of the cutters                            | unequal spacing       |
| Tool exchange                                     | PowerCard             |

## Accessories

|  |             |
|--|-------------|
| Set of insert screws 10-piece                                    | 219804      |
| Torque screwdriver, fixed setting set torque 3,8 Nm              | 211750 3,8  |
| PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 15IP | 674252 15IP |