

**Garant**
**Torus milling head HPC, HB7820, Ø D h10 / R: 12/2mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 210255 12/2   |
| GTIN         | 4045197607515 |
| Item class   | 21M           |

**Description**
**Note:**

Standard application values for slots milled from solid at  $a_{p\ max} \leq 0.5 \times D$ .

**Technical description**

|   |                         |
|---|-------------------------|
| Flute length $L_2$                                      | 9 mm                    |
| Head length $l$   | 16 mm                   |
| Milling head $\varnothing D$                            | 12 mm                   |
| Feed $f_z$ for side milling in short-chipping aluminium | 0.13 mm                 |
| Feed $f_z$ for slot milling in short-chipping aluminium | 0.11 mm                 |
| Corner radius   | 2 mm                    |
| Arbor size  | 16 mm                   |
| Number of cutting edges $Z$                             | 3                       |
| Series  | TopCut                  |
| Grade   | HB7820                  |
| Tool material   | Solid carbide           |
| Standard  | Manufacturer's standard |
| Type  | W                       |

|   |                                      |
|---|--------------------------------------|
| Helix angle                               | 42 degrees                           |
| Direction of infeed                       | horizontal, oblique and vertical     |
| Cutting width $a_e$ for milling operation | Full slot cutting depth $1 \times D$ |
| Machining strategy                        | HPC                                  |
| Through-coolant                           | yes                                  |
| Shank type                                | GARANT TopCut                        |
| Type of product                           | Cutter insert for milling            |

### User data

|                            | Suitability                               | $V_c$     | ISO code |
|----------------------------|---|-----------|----------|
| Alu plastics               | suitable                                  | 580 m/min | N        |
| Aluminium (short chipping) | suitable                                  | 550 m/min | N        |
| Alu > 10% Si               | suitable                                  | 400 m/min | N        |
| CuZn                       | suitable                                  | 350 m/min | N        |
| wet maximum                | suitable                                  |           |          |
| wet minimum                | suitable only under restricted conditions |           |          |
| Air                        | suitable only under restricted conditions |           |          |