

**Garant****Torus milling head HPC, HB7820, Ø D h10 / R: 10/1mm****Order data**

|              |               |
|--------------|---------------|
| Order number | 210255 10/1   |
| GTIN         | 4045197606884 |
| 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 <sub>2</sub>                                      | 7.5 mm                  |
| Head length l  | 13 mm                   |
| Milling head Ø D   | 10 mm                   |
| Feed f <sub>z</sub> for side milling in short-chipping aluminium | 0.12 mm                 |
| Feed f <sub>z</sub> for slot milling in short-chipping aluminium | 0.09 mm                 |
| Corner radius  | 1 mm                    |
| Arbor size   | 10 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

|                            | <b>Suitability</b>                        | <b><math>V_c</math></b> | <b>ISO code</b> |
|----------------------------|---|-------------------------|-----------------|
| 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 |                         |                 |