

**Garant**

**TwinCut indexable face mill 45° normal pitch, with bore, Ø D / number of teeth Z: 160/10 mm**


**Order data**

|              |               |
|--------------|---------------|
| Order number | 213415 160/10 |
| GTIN         | 4045197605535 |
| Item class   | 210           |

**Description**
**Version:**

From Ø 160 mm for arbors to DIN 2079, with 4 additional attachment holes and without internal cooling.

**Application:**

With double-sided 8-edge inserts (ON.U) or 4-edge inserts (SN.U).

**Spare part:**

Shim No. 219897 for use with both types of indexable insert.

**Note:**

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

Do not mix different types of insert ON.U and SN.U.

Tool exchange: PowerCard

maximum external Ø  $D_{max}$  for ON.U inserts: 171.8 mm

maximum external Ø  $D_{max}$  for SN.U inserts: 175.2 mm

Overall length  $L_{tot}$  for SN.U inserts: 63 mm

Overall length  $L_{tot}$  for ON.U inserts: 61.3 mm

Mounting bore Ø: 40 mm

suitable indexable insert: SN.U

## Technical description

|   |                         |
|---|-------------------------|
| Pack of insert screws                                   | 219898 (15IP; 3.8 Nm)   |
| Cutting edge $\varnothing D_c$                          | 160 mm                  |
| Shim  | 219897                  |
| maximum external $\varnothing D_{max}$ for ON.U inserts | 171.8 mm                |
| Overall length $L_{tot}$ for SN.U inserts               | 63 mm                   |
| Clamp screw for shim                                    | 219899                  |
| Overall length $L_{tot}$ for ON.U inserts               | 61.3 mm                 |
| Mounting bore $\varnothing$                             | 40 mm                   |
| suitable indexable insert                               | SN.U                    |
| suitable indexable insert                               | ON.U                    |
| maximum external $\varnothing D_{max}$ for SN.U inserts | 175.2 mm                |
| Number of cutting edges Z                               | 10                      |
| Shank type  | with bore               |
| Setting angle $\kappa$                                  | 45 degrees              |
| Spacing of the cutters                                  | unequal spacing         |
| Through-coolant   | yes                     |
| Tool exchange   | PowerCard               |
| Type of product   | Indexable insert cutter |

## Accessories

|  |             |
|--|-------------|
| Shim   | 219897      |
| PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 15IP | 674252 15IP |
| Clamping screw   | 219899      |
| Pack of insert screws 10 pieces                                  | 219898      |
| Torque screwdriver, fixed setting set torque 3,8 Nm              | 211750 3,8  |