

Garant
Solid carbide side milling cutter HPC, TiAlN, $\varnothing \times \text{width} \pm 0.1 \times k11$: 80X10mm

Order data

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|--------------|---------------|
| Order number | 185015 80X10 |
| GTIN | 4062406397937 |
| Item class | 11V |

Description
Version:

Precision solid carbide side milling cutters in the HPC machining range. **With new high-performance coating** for very long tool life.

Use as a set: Cutters with the same \varnothing and same number of teeth can be combined as a set and adjusted to the required width. Since the cutters have no raised bore collar, the staggered teeth mesh with each other.

2-piece sets are particularly economical. By reversing the side milling cutters, both side edges of each cutter can be used.

Note:

- **Do not clamp the cutters in a set without a sufficiently thick arbor spacer ring, otherwise the cutters will be damaged.**
- **See Product Group 30 for suitable arbor spacer rings.**
- **Slots milled from solid: f_z for $a_e = 0.1 \times D$.**

Successor product to No. 185010.

Technical description

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|------------|-----------|
| Shank type | with bore |
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|--|--------------------------------------|
| Cutting width | 10 mm |
| Collar thickness $b \pm 0.1$ | 7 mm |
| Bore \varnothing H6 d_1 | 27 mm |
| Capability of combining 2 cutters of different width B | 10 mm |
| Tooth height Z_h | 15 mm |
| Capability of combining 2 cutters of the same width, results in overall width E | 18.5 - 19.8 mm |
| No. of teeth Z | 18 |
| Cutting edge \varnothing D_c | 80 mm |
| Capability of combining 2 cutters of different width A | 8 mm |
| Feed f_z in steel $< 900 \text{ N/mm}^2$ | 0.05 mm |
| Capability of combining 2 cutters of different width, results in overall width E | 16.6 - 17.8 mm |
| Capability of combining 2 cutters of the same width A/B | 10 mm |
| Collar \varnothing $d_2 \pm 1$ | 50 mm |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | DIN 885 A |
| Type | N |
| Tolerance nominal \varnothing | ± 0.1 |
| Cutting width a_e for milling operation | Full slot cutting depth $1 \times D$ |
| Machining strategy | HPC |
| Through-coolant | no |
| Colour ring | without |
| Type of product | Side milling cutter |

User data

| | Suitability | V_c | ISO code |
|--------------|-------------|-----------|----------|
| Alu plastics | suitable | 280 m/min | N |

| | | | |
|--------------------------------|---|-----------|---|
| Aluminium (short chipping) | suitable | 280 m/min | N |
| Alu > 10% Si | suitable | 200 m/min | N |
| Steel < 500 N/mm ² | suitable | 120 m/min | P |
| Steel < 750 N/mm ² | suitable | 110 m/min | P |
| Steel < 900 N/mm ² | suitable | 100 m/min | P |
| Steel < 1100 N/mm ² | suitable | 90 m/min | P |
| Steel < 1400 N/mm ² | suitable | 75 m/min | P |
| INOX < 900 N/mm ² | suitable | 45 m/min | M |
| GG(G) | suitable | 70 m/min | K |
| CuZn | suitable | 300 m/min | N |
| Oil | suitable only under restricted conditions | | |
| wet maximum | suitable | | |