

Ball screw spindles

Ø 12, 16, 20, 25 mm



Features

- rolled, hardened and polished
- material CF 53, inductively hardened (HRC 60±2)
- length up to 3,052 mm available (Special length on request!)
- end machining to isel standard or according to customers specifications
- tolerance class ISO 7 Δ 300 mm

Available length

| End machining in a grid of 100 mm | Ø 12 |
|-----------------------------------|-----------------|
| without | 252 bis 1552 mm |
| one-sided | 252 bis 552 mm |
| two-sided | 252 bis 1552 mm |

| | Ø 16 |
|-----------|-----------------|
| without | 352 bis 3052 mm |
| one-sided | 352 bis 1052 mm |
| two-sided | 368 bis 3068 mm |

| | Ø 20 |
|-----------|-----------------|
| without | 252 bis 3052 mm |
| one-sided | 252 bis 1052 mm |
| two-sided | 252 bis 3052 mm |

| | Ø 25 |
|-----------|-----------------|
| without | 300 bis 3000 mm |
| one-sided | 352 bis 1052 mm |
| two-sided | 295 bis 2995 mm |

Ordering key

| | | |
|-----------------------|----------------------------------|---------------------------------------|
| 2 1 1 X X X X X X X X | | Lengths |
| Diameter | Spindle pitch | e.g. 045 = 452 mm |
| 2 = 12 mm | 2 = 2,5 mm (only for Ø 12, 16mm) | 086 = 868 mm |
| 3 = 16 mm | 3 = 4 mm (only for Ø 16 mm) | 305 = 3,052 mm |
| 4 = 25 mm | 4 = 5 mm | (rounded to the final digit) |
| 5 = 20 mm | 5 = 10 mm (not at Ø 12 mm) | End machining |
| | 6 = 20 mm (not at Ø 12 mm) | 0 = not machined |
| | | 1 = one-sided |
| | | 2 = both sided (only for Ø 12, 25 mm) |
| | | 5 = both sided (only for Ø 16, 20 mm) |
| | | suitable for all feeds |
| | | (Aluminium profile length +78 mm) |

See „available length“ for permissible combinations!

Dimensioned drawing

| | Spindle pitch | L [max.] | L1 | L2 | L3 | L4 | L5 | M | D1 | D2 | D3 | D4 |
|------|-----------------------|----------|----|----|----|------|----|------------|---------|-------|-------|----------|
| Ø 12 | 2.5 / 5 | 1552 | 10 | 20 | 40 | 19 | - | M8x 1 | 6.35 h7 | 8 h6 | - | 7 h6 |
| Ø 16 | 2.5 / 4 / 5 / 10 / 20 | 3068 | 18 | 31 | 52 | 28 | - | M10 x 0.75 | 8 h7 | 10 h6 | - | 12 h6 |
| Ø 20 | 5 / 10 / 20 | 3052 | 20 | 32 | 55 | 27.5 | - | M12x 1 | 10 h7 | 12 h6 | - | 12/14 h6 |
| Ø 25 | 5 / 10 / 20 | 3000 | 25 | 37 | 69 | 26 | 16 | M17x 1 | 15 h7 | 17 h6 | 15 j6 | 19 h11 |

