

# 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**

**Diameter**  
 2 = 12 mm  
 3 = 16 mm  
 4 = 25 mm  
 5 = 20 mm

**Spindle pitch**  
 2 = 2,5 mm (only for Ø 12, 16mm)  
 3 = 4 mm (only for Ø 16 mm)  
 4 = 5 mm  
 5 = 10 mm (not at Ø 12 mm)  
 6 = 20 mm (not at Ø 12 mm)

**Lengths**  
 e.g. **045** = 452 mm  
**086** = 868 mm  
**305** = 3,052 mm (rounded to the final digit)

**End machining**  
 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

