



## Precision ER collet chuck CENTRO P, SK 40 A = 160, Type CP for ER: 16M



### Order data

Order number	300689 16M
GTIN	2050001705501
Item class	33F

### Description

#### Version:

- **External and internal tapers ground. With Balluffchip- bore.**
- **Radial run-out and repetition accuracy 3µm at 3 × D, maximum 50 mm.**
- **Very high clamping forces due to the collet fully seated in the chuck and coated clamping nut.**
- **Vibration damping due to the element collet and mass of the chuck.**
- **Alternatively without seals with ER CP clamping nut No. 309655 or sealed system with ER clamping nut CP for HP sealing rings No. 309665 in conjunction with HP sealing rings No.309666 – 309668 (for internal coolant supply or as a dirt trap!).**

#### Advantage:

Patented optimum seating of the collet, double guides, trapezoidal thread and low-friction coated clamping nut amalgamate when clamped into a sturdy unit, thus ensuring a very high degree of rigidity and precision.

#### Application:

For high precision clamping of tools with plain shank.

#### Supplied with:

**Without clamping nut**, without sealing rings.

#### Optional extras:

Pull-studs (PS) No. 308600 – 308806, PS pull stud wrenches No. 308820; 308835, precision ER collets for HP No. 309368 – 309378, and for taps No. 309402 – 309418 (not for Horex), ER CP clamping nuts No. 309655; 309665, HP sealing rings No. 309666 – 309668. CP roller bearing wrenches No. 309754; 309756.

#### Note:

- **CP chuck clamps only nominal Ø up to shank Ø tolerance h10.**
- **Use in combination with Fahrion collets.**

Machining strategy: HSC

Shape: ADB  
Clamping range: 1 - 10 mm  
External Ø D: 22 mm

## Technical description

Type CP for ER	16M
Clamping range	1 - 10 mm
External Ø D	22 mm
Shape	ADB
Series	Centro P
Adapter	SK 40 A = 160
Arbor standard	ISO 7388-1
Balance quality G at rotational speed	G 2.5 at 25,000 rpm
Concentricity ER collet with CP collet chuck	≤ 6 µm
Concentricity HP collet with CP collet chuck	≤ 3 µm
Machining strategy	HSC
Type of product	Collet chuck

## Accessories

CP roller bearing wrench Type 16MS	309754 16MS
ER collet HP with seal Nominal clamping Ø d 5 mm	309371 5
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 4,5 mm	309404 4,5
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308625 40
ER collet HP Nominal clamping Ø d 10 mm	309370 10
CP roller bearing wrench Type 16C	309754 16C
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 3,5 mm	309404 3,5

Special pull stud with internal thread suitable for steep tapers 40	308740 40
ER collet HP Nominal clamping Ø d 5 mm	309370 5
Pull stud 45° sealed suitable for steep tapers 40	308765 40
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 8 mm	309404 8
ER collet for machine taps with seal Nominal clamping Ø d 4,5 mm	309402 4,5
Pull stud Form B suitable for steep tapers 40	308640 40
Pull stud 90° sealed suitable for steep tapers 40	308790 40
ER collet HP Nominal clamping Ø d 1 mm	309370 1
CP roller bearing wrench for torque wrenches Type 16	309756 16
ER collet for machine taps with seal Nominal clamping Ø d 4 mm	309402 4
Pull stud sealed, form B suitable for steep tapers 40	308620 40
ER collet for machine taps with seal Nominal clamping Ø d 8 mm	309402 8
CP roller bearing wrench for torque wrenches Type 16MS	309756 16MS
ER collet HP with seal Nominal clamping Ø d 6 mm	309371 6
ER collet HP with seal Nominal clamping Ø d 4 mm	309371 4
ER collet HP with seal Nominal clamping Ø d 3 mm	309371 3
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 6 mm	309404 6
Special pull stud with no internal thread sealed suitable for steep tapers 40	308700 40
Wrench for pull studs ISO 7388 suitable for ISO taper size 40	308830 40
ER collet for machine taps with seal Nominal clamping Ø d 3,5 mm	309402 3,5
CP roller bearing wrench Type 16	309754 16
Pull stud stud sealed, form A suitable for steep tapers 40	308610 40
ER collet HP Nominal clamping Ø d 9 mm	309370 9

Special pull stud with no internal thread sealed suitable for steep tapers 40	308720 40
ER clamping nut CENTRO P Standard Type CP for ER 40	309655 40
ER collet for machine taps with seal and spray nozzles Nominal clamping $\varnothing$ d 7 mm	309404 7
Torque insert for Pull studs to DIN 69872 suitable for ISO taper size 40	308810 40
CP roller bearing wrench for torque wrenches Type 16C	309756 16C
Pull stud sealed suitable for steep tapers 40	308660 40
ER collet for machine taps with seal Nominal clamping $\varnothing$ d 7 mm	309402 7
Pull stud Form A suitable for steep tapers 40	308600 40
Pull stud, 18CrNiMo7 sealed, form B suitable for steep tapers 40	308615 40
ER collet HP Nominal clamping $\varnothing$ d 8 mm	309370 8
ER collet for machine taps with seal Nominal clamping $\varnothing$ d 2,8 mm	309402 2,8
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308630 40
ER collet HP Nominal clamping $\varnothing$ d 2 mm	309370 2
Pull stud Mazak, form A suitable for steep tapers 40M	308670 40M
Pull stud sealed, form B suitable for steep tapers 40	308650 40
Pull stud Hurco 90° with fit sealed suitable for steep tapers 40	308806 40
Pull stud 45° sealed suitable for steep tapers 40	308760 40
ER collet HP with seal Nominal clamping $\varnothing$ d 10 mm	309371 10
Torque insert for Pull studs to SO 7388 suitable for ISO taper size 40	308812 40
ER collet HP Nominal clamping $\varnothing$ d 3 mm	309370 3
Pull stud Hurco 45° with fit sealed suitable for steep tapers 40	308802 40
ER collet HP Nominal clamping $\varnothing$ d 7 mm	309370 7
ER collet HP Nominal clamping $\varnothing$ d 4 mm	309370 4

Pull stud sealed suitable for steep tapers 40	308635 40
ER collet HP with seal Nominal clamping Ø d 9 mm	309371 9
Pull stud Hurco 45° with bore and fit sealed suitable for steep tapers 40	308801 40
ER collet HP Nominal clamping Ø d 6 mm	309370 6
Pull stud 90° sealed suitable for steep tapers 40	308795 40
ER collet for machine taps with seal Nominal clamping Ø d 6 mm	309402 6
Pull stud 60° sealed suitable for steep tapers 40	308785 40
ER collet HP with seal Nominal clamping Ø d 7 mm	309371 7
Wrench for pull studs DIN ISO 7388-1 (formerly DIN 69872) suitable for ISO taper size 40	308820 40
ER collet HP with seal Nominal clamping Ø d 8 mm	309371 8
ER collet for machine taps with seal Nominal clamping Ø d 9 mm	309402 9
Pull stud, 18CrNiMo7 Form A suitable for steep tapers 40	308605 40