



## Precision ER collet chuck CENTRO P, SK 40 A = 160, Type CP for ER: 32



### Order data

Order number	300689 32
GTIN	2050001703316
Item class	33F

### Description

#### Version:

- Taper ground internally and externally with RFID/Balluffchip bore.
- Concentricity and repetition accuracy 3  $\mu\text{m}$  at  $3\times D$ , maximum 50 mm when using a HP precision collet.
- HDC = Heavy Duty Chuck, a mount specially designed for rough machining. A reinforced chuck body ensures better stability and plenty of radial stiffness. Taper ground internally and externally. Ball-bearing clamping nut with trapezoidal-shaped fine thread for optimum tightening torques and clamping forces, reduces vibrations that occur.
- 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 for CENTRO P -> without seals, with ER clamping nut CP 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. HDC especially well-suited for roughing (including TPC milling) and finishing operations and machining of high-tensile or tough materials.

#### Supplied with:

**Without clamping nut.**

#### Optional extras:

Pull studs (PS) No. 308600 – 308806, PS wrenches No. 308820 – 308835, precision ER collets for HP No. 309368 - 309381 and for taps No. 309402 – 309419 (not for Horex). ER clamping nuts CP No. 309655; 309665, ER clamping nut HDC No. 309657, HP sealing rings No. 309666 – 309668, CP roller bearing wrench No. 309754; 309756, HDC roller bearing wrench No. 309745; 309756.

**Note:**

- **Clamps only nominal  $\varnothing$  up to shank  $\varnothing$  tolerance h10.**
- **Use in combination with Fahrion collets.**

Machining strategy: HSC

Shape: ADB

Clamping range: 2 - 20 mm

Overhang dimension A: 160 mm

External  $\varnothing$  D: 50 mm

## Technical description

Overhang dimension A	160 mm
Clamping range	2 - 20 mm
Type CP for ER	32
External $\varnothing$ D	50 mm
Shape	ADB
Series	Centro P
Clamping $\varnothing$ D <sub>1</sub>	2-20 mm
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	$\leq 6 \mu\text{m}$
Concentricity HP collet with CP collet chuck	$\leq 3 \mu\text{m}$
Machining strategy	HSC
Type of product	Collet chuck

## Accessories

ER collet HP with seal Nominal clamping $\varnothing$ d 11 mm	309377 11
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ER collet for machine taps with seal Nominal clamping Ø d 9 mm	309414 9
ER collet HP Nominal clamping Ø d 3 mm	309376 3
Torque insert for Pull studs to SO 7388 suitable for ISO taper size 40	308812 40
Pull stud sealed suitable for steep tapers 40	308635 40
Pull stud Form B suitable for steep tapers 40	308640 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 10 mm	309378 10
ER collet HP Nominal clamping Ø d 19 mm	309376 19
Pull stud Form A suitable for steep tapers 40	308600 40
Pull stud sealed, form B suitable for steep tapers 40	308620 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 14 mm	309378 14
ER collet HP Nominal clamping Ø d 8 mm	309376 8
ER collet HP Nominal clamping Ø d 16 mm	309376 16
ER collet HP with seal and spray nozzles Nominal clamping Ø d 8 mm	309378 8
ER collet HP Nominal clamping Ø d 20 mm	309376 20
ER collet HP Nominal clamping Ø d 2 mm	309376 2
ER collet HP with seal Nominal clamping Ø d 14 mm	309377 14
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 9 mm	309418 9
ER collet HP with seal Nominal clamping Ø d 8 mm	309377 8
Special pull stud with no internal thread sealed suitable for steep tapers 40	308700 40
ER collet HP with seal Nominal clamping Ø d 12 mm	309377 12
ER collet for machine taps with seal Nominal clamping Ø d 10 mm	309414 10
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 6 mm	309418 6
ER collet HP with seal Nominal clamping Ø d 9 mm	309377 9

Pull stud 45° sealed suitable for steep tapers 40	308765 40
ER collet for machine taps with seal Nominal clamping Ø d 8 mm	309414 8
ER collet for machine taps with seal Nominal clamping Ø d 7 mm	309414 7
ER collet HP with seal Nominal clamping Ø d 16 mm	309377 16
ER collet HP with seal Nominal clamping Ø d 15 mm	309377 15
ER collet HP with seal Nominal clamping Ø d 3 mm	309377 3
Pull stud sealed, form B suitable for steep tapers 40	308650 40
ER collet for machine taps with seal Nominal clamping Ø d 20 mm	309414 20
ER collet HP with seal Nominal clamping Ø d 5 mm	309377 5
ER collet HP with seal and spray nozzles Nominal clamping Ø d 12 mm	309378 12
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 20 mm	309418 20
ER collet HP Nominal clamping Ø d 13 mm	309376 13
Pull stud sealed suitable for steep tapers 40	308660 40
Pull stud, 18CrNiMo7 Form A suitable for steep tapers 40	308605 40
ER collet HP Nominal clamping Ø d 9 mm	309376 9
Pull stud 90° sealed suitable for steep tapers 40	308790 40
ER collet HP Nominal clamping Ø d 14 mm	309376 14
Pull stud 90° sealed suitable for steep tapers 40	308795 40
Pull stud Hurco 90° with fit sealed suitable for steep tapers 40	308806 40
CP roller bearing wrench for torque wrenches Type 32	309756 32
Pull stud 45° sealed suitable for steep tapers 40	308760 40
Wrench for pull studs ISO 7388 suitable for ISO taper size 40	308830 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 18 mm	309378 18
ER collet HP Nominal clamping Ø d 12 mm	309376 12

ER collet HP with seal and spray nozzles Nominal clamping Ø d 20 mm	309378 20
ER collet for machine taps with seal Nominal clamping Ø d 11 mm	309414 11
ER collet for machine taps with seal Nominal clamping Ø d 6 mm	309414 6
ER collet HP Nominal clamping Ø d 11 mm	309376 11
ER clamping nut CENTRO P Standard Type CP for ER 40	309655 40
ER collet HP Nominal clamping Ø d 18 mm	309376 18
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 14 mm	309418 14
Pull stud 60° sealed suitable for steep tapers 40	308785 40
ER collet HP with seal Nominal clamping Ø d 17 mm	309377 17
ER collet for machine taps with seal Nominal clamping Ø d 12 mm	309414 12
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 7 mm	309418 7
ER collet HP Nominal clamping Ø d 5 mm	309376 5
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 12 mm	309418 12
ER collet HP Nominal clamping Ø d 10 mm	309376 10
Pull stud Hurco 45° with fit sealed suitable for steep tapers 40	308802 40
Pull stud, 18CrNiMo7 sealed, form B suitable for steep tapers 40	308615 40
ER collet for machine taps with seal Nominal clamping Ø d 14 mm	309414 14
ER collet HP with seal and spray nozzles Nominal clamping Ø d 6 mm	309378 6
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308630 40
CP roller bearing wrench Type 32	309754 32
ER collet HP Nominal clamping Ø d 17 mm	309376 17

ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 4,5 mm	309418 4,5
Hurco 45° pull stud with 4-mm bore and fit sealed suitable for steep tapers 40	308801 40
ER collet HP Nominal clamping Ø d 7 mm	309376 7
ER collet HP with seal Nominal clamping Ø d 20 mm	309377 20
Wrench for pull studs DIN ISO 7388-1 (formerly DIN 69872) suitable for ISO taper size 40	308820 40
ER collet for machine taps with seal Nominal clamping Ø d 16 mm	309414 16
ER collet HP with seal Nominal clamping Ø d 7 mm	309377 7
ER collet HP Nominal clamping Ø d 6 mm	309376 6
ER collet HP with seal Nominal clamping Ø d 13 mm	309377 13
ER collet HP with seal Nominal clamping Ø d 10 mm	309377 10
ER collet for machine taps with seal Nominal clamping Ø d 18 mm	309414 18
ER collet HP with seal Nominal clamping Ø d 18 mm	309377 18
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 10 mm	309418 10
Pull stud sealed, form A suitable for steep tapers 40	308610 40
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308625 40
Special pull stud with no internal thread sealed suitable for steep tapers 40	308720 40
ER collet HP with seal Nominal clamping Ø d 6 mm	309377 6
ER collet HP Nominal clamping Ø d 15 mm	309376 15
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 18 mm	309418 18
ER collet HP with seal Nominal clamping Ø d 4 mm	309377 4
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 16 mm	309418 16
ER collet for machine taps with seal Nominal clamping Ø d 4,5 mm	309414 4,5

Special pull stud with internal thread suitable for steep tapers 40	308740 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 16 mm	309378 16
ER collet HP with seal and spray nozzles Nominal clamping Ø d 4 mm	309378 4
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 8 mm	309418 8
ER collet HP with seal Nominal clamping Ø d 19 mm	309377 19
Pull stud Mazak, form A suitable for steep tapers 40M	308670 40M
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 11 mm	309418 11
Torque insert for Pull studs to DIN 69872 suitable for ISO taper size 40	308810 40
ER collet HP Nominal clamping Ø d 4 mm	309376 4