



## Precision ER collet chuck CENTRO P, BT 40, Type CP for ER: 25AD



### Order data

Order number	302886 25AD
GTIN	2050001922014
Item class	33F

### Description

#### Version:

- Taper ground internally and externally with RFID/Balluffchip bore.
- Concentricity and repetition accuracy 3 µm at 3×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: AD

Concentricity ER collet with HDC collet chuck:  $\leq 6 \mu\text{m}$

Concentricity HP collet with HDC collet chuck:  $\leq 3 \mu\text{m}$

Clamping range: 2 - 16 mm

Overhang dimension A: 90 mm

External  $\varnothing$  D: 40 mm

## Technical description

Shape	AD
Clamping range	2 - 16 mm
Type CP for ER	25AD
External $\varnothing$ D	40 mm
Overhang dimension A	90 mm
Series	Centro P
Concentricity HP collet with HDC collet chuck	$\leq 3 \mu\text{m}$
Concentricity ER collet with HDC collet chuck	$\leq 6 \mu\text{m}$
Clamping $\varnothing$ D <sub>1</sub>	1-16 mm
Adapter	BT 40
Arbor standard	ISO 7388-2
Arbor standard	JIS B6339
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

Pull stud 60° sealed suitable for steep tapers 40	308785 40
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 6 mm	309413 6
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 11 mm	309413 11
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308630 40
ER collet HP with seal Nominal clamping Ø d 12 mm	309374 12
ER collet for machine taps with seal Nominal clamping Ø d 12 mm	309409 12
Torque insert for Pull studs to DIN 69872 suitable for ISO taper size 40	308810 40
ER collet for machine taps with seal Nominal clamping Ø d 11 mm	309409 11
ER collet HP Nominal clamping Ø d 8 mm	309373 8
ER collet HP Nominal clamping Ø d 15 mm	309373 15
ER collet HP Nominal clamping Ø d 14 mm	309373 14
Pull stud sealed suitable for steep tapers 40	308660 40
Pull stud 90° sealed suitable for steep tapers 40	308795 40
Pull stud, 18CrNiMo7 sealed, form B suitable for steep tapers 40	308615 40
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 9 mm	309413 9
ER collet HP with seal and spray nozzles Nominal clamping Ø d 4 mm	309375 4
ER collet HP Nominal clamping Ø d 10 mm	309373 10
Pull stud sealed suitable for steep tapers 40	308635 40
ER collet HP Nominal clamping Ø d 5 mm	309373 5
ER collet set HP (4; 6; 8; 10; 12; 14; 16mm) 430 E	309393

ER collet for machine taps with seal Nominal clamping Ø d 4,5 mm	309409 4,5
ER collet HP with seal Nominal clamping Ø d 15 mm	309374 15
ER collet HP with seal Nominal clamping Ø d 13 mm	309374 13
ER collet for machine taps with seal Nominal clamping Ø d 10 mm	309409 10
ER collet HP Nominal clamping Ø d 7 mm	309373 7
ER collet for machine taps with seal Nominal clamping Ø d 9 mm	309409 9
ER collet HP Nominal clamping Ø d 3 mm	309373 3
ER collet HP with seal Nominal clamping Ø d 14 mm	309374 14
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 7 mm	309413 7
Pull stud Hurco 45° with fit sealed suitable for steep tapers 40	308802 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 12 mm	309375 12
ER collet HP with seal Nominal clamping Ø d 5 mm	309374 5
ER collet HP Nominal clamping Ø d 4 mm	309373 4
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 14 mm	309413 14
ER collet HP with seal and spray nozzles Nominal clamping Ø d 14 mm	309375 14
Pull stud Hurco 90° with fit sealed suitable for steep tapers 40	308806 40
Pull stud sealed, form A suitable for steep tapers 40	308610 40
ER collet HP Nominal clamping Ø d 9 mm	309373 9
CP roller bearing wrench Type 25	309754 25
ER collet HP with seal and spray nozzles Nominal clamping Ø d 8 mm	309375 8
Pull stud Mazak, form A suitable for steep tapers 40M	308670 40M
Torque insert for Pull studs to SO 7388 suitable for ISO taper size 40	308812 40

Pull stud sealed, form B suitable for steep tapers 40	308650 40
Pull stud 45° sealed suitable for steep tapers 40	308760 40
ER collet HP with seal Nominal clamping Ø d 6 mm	309374 6
CP roller bearing wrench for torque wrenches Type 25	309756 25
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 12 mm	309413 12
CP sealing ring Clamping Ø (1 mm increments) 2 mm	309667 2
ER collet HP with seal Nominal clamping Ø d 11 mm	309374 11
ER collet for machine taps with seal Nominal clamping Ø d 7 mm	309409 7
ER collet HP Nominal clamping Ø d 2 mm	309373 2
Special pull stud with no internal thread sealed suitable for steep tapers 40	308700 40
Pull stud 45° sealed suitable for steep tapers 40	308765 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 10 mm	309375 10
Pull stud Form A suitable for steep tapers 40	308600 40
ER collet for machine taps with seal Nominal clamping Ø d 6 mm	309409 6
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308625 40
ER collet HP with seal Nominal clamping Ø d 9 mm	309374 9
ER collet HP with seal Nominal clamping Ø d 3 mm	309374 3
ER collet for machine taps with seal Nominal clamping Ø d 8 mm	309409 8
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 10 mm	309413 10
ER collet HP with seal Nominal clamping Ø d 7 mm	309374 7
ER collet set HP with seal (4; 6; 8; 10; 12; 14; 16mm) 429 E	309394
ER collet for machine taps with seal Nominal clamping Ø d 16 mm	309409 16
Wrench for pull studs ISO 7388 suitable for ISO taper size 40	308830 40

Pull stud 90° sealed suitable for steep tapers 40	308790 40
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 8 mm	309413 8
Pull stud, 18CrNiMo7 Form A suitable for steep tapers 40	308605 40
ER collet HP with seal Nominal clamping Ø d 8 mm	309374 8
ER collet HP Nominal clamping Ø d 13 mm	309373 13
ER collet HP Nominal clamping Ø d 12 mm	309373 12
Pull stud Form B suitable for steep tapers 40	308640 40
ER collet HP with seal and spray nozzles Nominal clamping Ø d 6 mm	309375 6
Pull stud sealed, form B suitable for steep tapers 40	308620 40
ER collet HP Nominal clamping Ø d 16 mm	309373 16
Hurco 45° pull stud with 4-mm bore and fit sealed suitable for steep tapers 40	308801 40
ER collet for machine taps with seal and spray nozzles Nominal clamping Ø d 4,5 mm	309413 4,5
Special pull stud with no internal thread sealed suitable for steep tapers 40	308720 40
ER collet HP with seal Nominal clamping Ø d 4 mm	309374 4
ER collet HP Nominal clamping Ø d 6 mm	309373 6
ER collet HP with seal Nominal clamping Ø d 10 mm	309374 10
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 14 mm	309409 14
ER collet HP Nominal clamping Ø d 11 mm	309373 11
ER collet HP with seal Nominal clamping Ø d 16 mm	309374 16
Special pull stud with internal thread suitable for steep tapers 40	308740 40