THE NEW MOBILITY STEERING SOLUTION

COMPACT PINION EPS SYSTEM (P-EPS)

JTEKT

COMPACT P-EPS

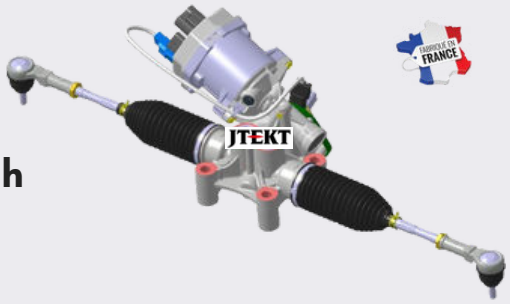
COMPACT, TUNABLE, MODULAR

JTEKT has developed a dedicated **Electric Power Steering**, called, **Compact P-EPS** dedicated for Mobility players : **compact LCV**, **microcars**, **motorsport & leisure**, **industrial applications**...

This optimized products has been designed to meet new mobility needs based on the latest automotive standards, combining best in class driving pleasure and safety.

As a modulable & tunable product, our team supports you to define the steering calibration according to your specifications.

KEY POINTS

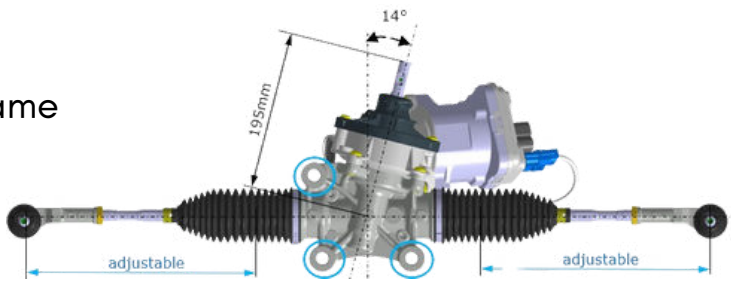


- ✓ Suitable for vehicles with **narrow track width**
- ✓ **High compacity** for an easy integration
- ✓ **Lightweight** to maximize car efficiency
- ✓ **Modular** to adapt itself to vehicle architecture
- ✓ Real time assistance law adjustment regarding vehicle driving conditions
- ✓ Returnability to vehicle center position and ready to **ADAS** functions

3D VISUAL

Adjustable :

- ✓ Tie-rods length
- ✓ Tuning calibration assistance law
- ✓ Fixation points with vehicle subframe
- ✓ Motor unit orientation
- ✓ Cross Angle : +14 or -14deg



COMPACT P-EPS
CHARACTERISTICS

01

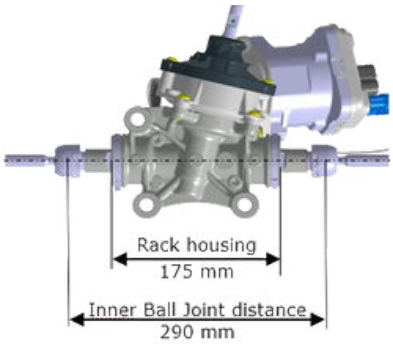
ELECTRONICAL DETAILS

- ✓ + 12Vcc power supply
- ✓ Max current = TBC
- ✓ Generic CAN bus network
- ✓ Assistance variation with vehicle speed input
- ✓ Assistance variation with handwheel angle speed input

02

MECHANICAL DETAILS

- ✓ JTEKT SOP Q4/2025 : New steering gear system developed, last generation of EPS
- ✓ Max assisted rack bar load = 10 KN (in static parking conditions)
- ✓ Max half stroke = +/- 75 mm
- ✓ Constant gear ratio = 38,4 mm/tr
- ✓ Max handwheel revolutions lock to lock = 3,9 rev (for +/-75mm)
- ✓ Weight around 10 Kg
- ✓ Rack housing : possibility to study and develop specific fixation to subframe + specific motor orientation
- ✓ Tie-rods : possibility to study and develop specific tie-rod length



Management de la qualité ISO 9001 · Systèmes de management environnemental ISO 14001 · CERTIFIED IATF 16949 COMPANY · ISO 26262

CONTACT

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