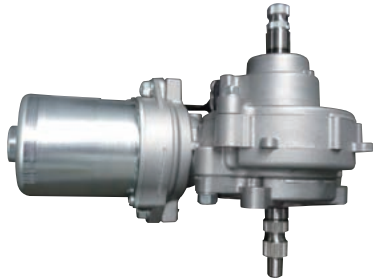


## Intermediate Type Electric Power Steering



This report introduces an intermediate type electric power steering (I-EPS®) newly developed and mass-produced by JTEKT, which can be mounted onto vehicles that have small mounting space such as UTV\* and agricultural/construction machinery, and provides comfortable maneuverability.

\*UTV: Utility Task Vehicle

### Purposes of development

- ① It's simplified and compact design enabled mounting onto the vehicles with small space, which was not possible for the conventional electric power steering.
- ② Waterproof performance for the drive on unpaved roads or in the rain.

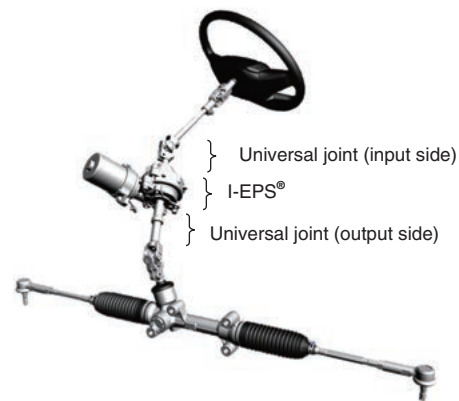
### Features

- ① Adopting the technologies accumulated through electric power steering for passenger cars, and securing comfortable maneuverability and high reliability.
- ② Versatile packaging
  - Fixing to vehicles with brackets (Easy to mount on similar vehicles by just changing the bracket).
  - A compact form consisting of an input shaft, reduction gear, and output shaft. (Possible to mount on arbitrary positions of the present steering systems)
- ③ Maneuverability leveraging the electric power steering features
  - Enabling both light maneuverability for low speed driving and stable maneuverability for high speed driving.

### Future

To be applied to industrial machinery and with high functionality, contribute to the industrial fields such as agriculture and construction businesses that are suffering from serious labor shortage.

- ① Deployment to vehicles with various applications
  - Mounting on agricultural machinery (e.g. tractor, passenger rice planter) and construction machinery (e.g. wheel loader).
- ② Application to further high functionality (remote control, automated drive)
  - Contribution to work load reduction, manpower saving, and work efficiency.



I-EPS® mounting example

(West JAPAN Technical Center, Steering Systems Business Unit)