

JTEKT : HPS SYSTEMS

TRUSTED HYDRAULIC POWER STEERING FOR EVERY VEHICLE

Long before electrification, hydraulic power steering (HPS) set the standard for assisted steering, and it remains a robust, proven solution wherever high steering output and a reassuring road feel matter most. As a comprehensive steering systems manufacturer, JTEKT offers an HPS line-up suited to every vehicle segment.

Proven technology, refined over decades

Hydraulic power steering uses pressurised fluid, delivered by a pump, to assist the driver's effort at the wheel. Introduced in the 1960s, it sharply reduced the force needed to steer and eased the driver's workload, particularly when parking. By adapting the level of assistance to vehicle speed, HPS combines easy low-speed manoeuvring with stability and a precise feel at higher speeds.

JTEKT continues to refine these systems, improving the energy efficiency of conventional hydraulic steering and integrating electronic control to deliver an ideal steering feel in any driving situation.

Complete range

- **Rack & Pinion type (manual)** : a gentle, smooth steering feel, well suited to a wide range of models including light 4WD and RV vehicles.

- **Electronically controlled type** : combines hydraulics with electronic control to deliver an ideal steering feel matched to vehicle speed.



- **Ball screw type (manual)**: high output with strong follow-up capability and natural assistance, high power and a smooth feel.

- **Electric pump type (EHPS)** : an energy-saving system whose hydraulic pump is driven under microcomputer control; with idle-stop support, energy use in straight-line driving is cut by around 80%.

Power, comfort, and efficiency

JTEKT HPS systems are built around three strengths :

- **Powerful assistance** : large output and excellent follow-up capability, ideal for heavy and large vehicles.
- **Driving comfort** : smooth, natural steering feel with speed-sensitive assistance for easy parking and high-speed stability.
- **Energy efficiency** : electric-pump and electronically controlled versions reduce consumption versus conventional hydraulic systems

Commitment to Quality and Sustainability

As a Tier 1 supplier, JTEKT builds its HPS products to original equipment manufacturer (OEM) standards, ensuring proven reliability and durability.

The company also supports sustainability through its remanufacturing activity, reducing waste and CO2 while maintaining a high level of performance, and keeps improving the environmental efficiency of conventional hydraulic steering



Would you like to learn more? Contact us : [✉ aftermarket@jtekt.eu](mailto:aftermarket@jtekt.eu)

