

## **Global Electric Power Steering Market: Key Research Findings 2017**

### ◆ **Research Outline**

**Yano Research Institute has conducted a study on the global electric power steering system market with the following conditions:**

1. Research period: From May to September, 2017
2. Research target: Manufacturers of EPS (electric power steering) systems and EPS components, etc.
3. Research methodologies: Face-to-face research by the expert researchers, surveys via telephone/email, and literature research

#### **What is an Electric Power Steering?**

An EPS (Electric Power Steering) is a technology to assist an automotive steering system by using an electric motor. ECUs (Electronic Control Units) receive signals from torque sensors to judge the current vehicle conditions and determine the right assistance needed for DC motors. There are three types of EPS according to the place where it assists the drivers from (or according to where the motor is attached): Column-, Pinion-, or Rack-assist EPS. They have been rapidly gaining grounds due to improved fuel efficiency and control functions compared to conventional hydraulic power steering systems. This report also covers EHPS (Electronic Hydraulic Power Steering), which assist steering by generating hydraulic pressure using electric motors.

### ◆ **Key Findings**

- **Global Total EPS/EHPS Market Size in 2016 Projected to Achieve 53,700 Thousand in Volume, Out of Which EPS to Attain 50,000 Thousand and EHPS 3,700 Thousand, Total Market Size Estimated to Rise to 69,400 Thousand by 2020, and 84,100 Thousand by 2025**

The forecast of shipment volume of EPS at manufacturers in 2016 is projected to achieve 50,000 thousand, EHPS to be 3,700 thousand, which gives 53,700 thousand altogether. Stricter fuel-economy regulations and wider acceptance of vehicles equipped with ADAS (Advanced Driving Assistant System) are regarded to be the factors to expand introduction of EPS in automobiles in the world, especially in North America and China where introduction of EPS has been late. On the other hand, the EHPS market is expected to be on the decline, as power capacity of EPS, which have higher fuel efficiency, becoming larger. The EHPS market size is estimated to be 3,700 thousand in 2016, but its demand is projected to shrink to 1,900 thousand by 2025.

- **Demands Likely to Polarize Between High-End Types to Adapt with Automatic Driving/ Redundant Designs and Low-End Types Focusing More on Low Cost**

When looking at the EPS market in 2016 by type, those categorized as column-assist types occupy the majority. In the mid-term view, such cost-efficient column-assist types are projected to draw on the demands mainly in China and Asian countries where people drive

small automobiles. To the contrary, there emerged those EPS with larger power capacity to be installed in large automobiles, and a new motor control unit (MCU) to achieve safer EPS that adopts a redundant 2-drive technology. In the long run, EPS is required at the time of automatic driving. Therefore, the market continues to see the polarization of EPS between high-end types for automatic driving and low-end types that place importance on cost.

◆ **Report Format:**

Published report: “Electric Power Steering Systems Market 2017”

Issued on: September 29, 2017

Language: Japanese

Format: 188 pages in A4 format

Price: 130,000 yen (The consumption tax shall additionally be charged for the sales in Japan.)

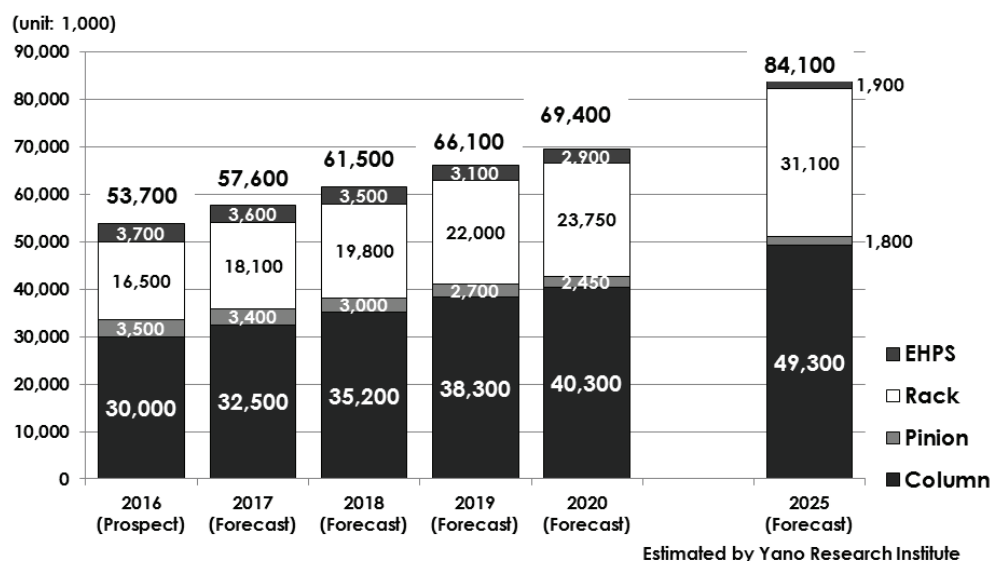
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■ **Figure & Table 1: Forecast of Global Demand of EPS&EHPS in Volume by Type**



(unit: 1,000)

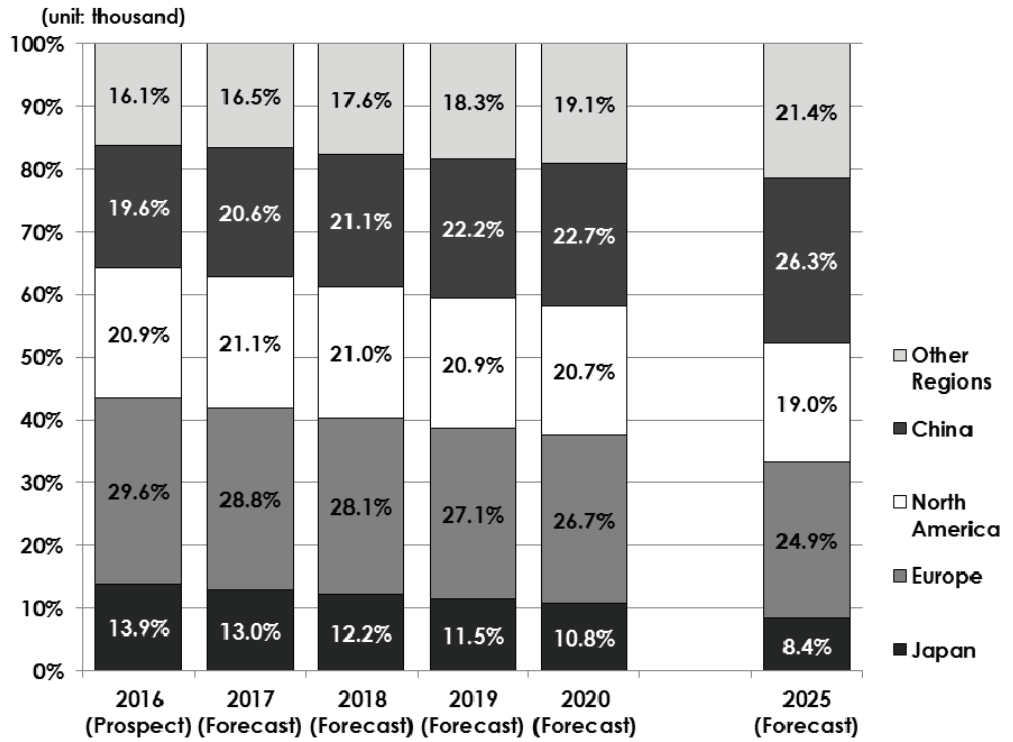
	2016 (Prospect)	2017 (Forecast)	2018 (Forecast)	2019 (Forecast)	2020 (Forecast)	2025 (Forecast)
EPS	50,000	54,000	58,000	63,000	66,500	82,200
Column-assist type	30,000	32,500	35,200	38,300	40,300	49,300
Pinion-assist type	3,500	3,400	3,000	2,700	2,450	1,800
Rack-assist type	16,500	18,100	19,800	22,000	23,750	31,100
EHPS	3,700	3,600	3,500	3,100	2,900	1,900
Global Demand in Volume (Total of EPS/EHPS)	53,700	57,600	61,500	66,100	69,400	84,100

Estimated by Yano Research Institute

Note:

- The global demand in volume is based on the shipment volume at manufacturers.

■ **Figure 2: Global Demands of EPS&EHPS in Volume by Region**



Estimated by Yano Research Institute

Note:

2. The global demand in volume is based on the shipment volume at manufacturers.