

## Global Electric Power Steering Market: Key Research Findings 2013

### ◆ Research Outline

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

1. Research period: From August 2012 to August 2013
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 various 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. This report shows the research results on four types of EPS altogether, which are above-mentioned three types and EHPS (Electronic Hydraulic Power Steering).

Also, this research targets EPS systems for passenger cars and those commercial vehicles weighing 3.5 tons and less.

### ◆ Key Findings

#### ■ **Global EPS Market in 2020 Expected to Expand to 1.9 Times the Size in 2012, to 65.50 Million Units in 2020**

The forecast of shipment volume of EPS from manufacturers is likely to achieve 35 million units in 2012. In addition to the potential growth of column-assist EPS suitable for small or medium-size vehicles, there is growing possibility of increase in rack-assist EPS, adequate for large-size vehicles, especially in North America where the install rate of EPS in those vehicles are low. The global EPS market in 2020 is anticipated to expand to 1.9 times the size in 2012 to reach 65.5 million units. On the other hand, it is highly likely that, in long-term view, EHPS (Electronic Hydraulic Power Steering) are to be replaced by EPS due to their higher fuel efficiency and better ability for control. The global EHPS market in 2020 is estimated to decrease by about 10% from the size in 2012, based on the shipment volume from manufacturers, to reach 4.50 million units.

#### ■ **Major EPS Components Market in 2020 Anticipated to Increase by 1.6 Times the Size in 2012, Reaching 435.7 Billion yen**

The average annual growth rate of the global EPS components (i.e. motors, ECUs and torques) market from 2012 to 2020 is anticipated to be high at 5.8%. The future trends of EPS

components manufacturers are that they integrate motors and ECUs and achieve continued assistance of driving even when the emergency occurs.

◆ **Report format:**

Published report: “Electric Power Steering Systems Market 2013”

Issued on: September 5, 2013

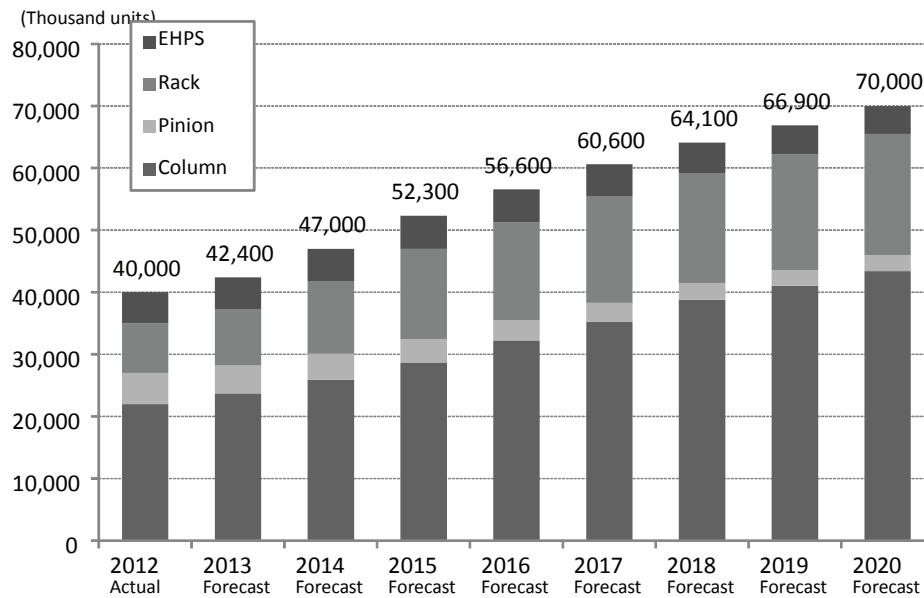
Language: Japanese

Format: 151 pages in A4 format

Price: 136,500 yen (6,500 yen of consumption tax shall be charged for the sales in Japan.)

**Contacts:** Public Relations  
**Yano Research Institute Ltd. (URL: <http://www.yanoresearch.com>)**  
 Phone: +81-3-5371-6912 E-mail: [press@yano.co.jp](mailto:press@yano.co.jp)

■ **Figure & Table 1: Forecast of Global EPS and EHPS Market by Type**

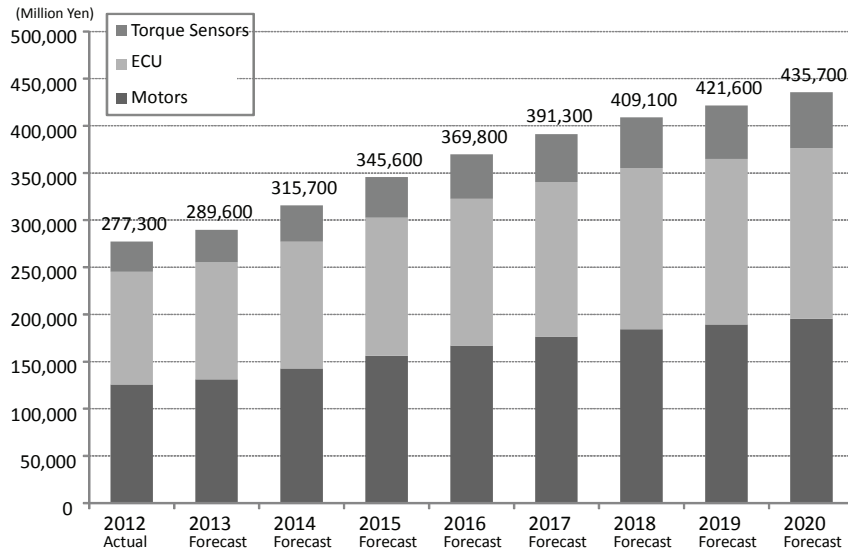


		(Thousand unit)								
		2012 Actual	2013 Forecast	2014 Forecast	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast
EPS		35,000	37,300	41,800	47,000	51,300	55,500	59,200	62,200	65,500
	Y-o-Y	—	106.6%	112.1%	112.4%	109.1%	108.2%	106.7%	105.1%	105.3%
	Column	22,000	23,700	25,900	28,670	32,200	35,200	38,780	41,050	43,400
	Y-o-Y	—	107.7%	109.3%	110.7%	112.3%	109.3%	110.2%	105.9%	105.7%
	Pinion	5,000	4,500	4,200	3,760	3,300	3,100	2,660	2,490	2,600
	Y-o-Y	—	90.0%	93.3%	89.5%	87.8%	93.9%	85.8%	93.6%	104.4%
	Rack	8,000	9,100	11,700	14,570	15,800	17,200	17,760	18,660	19,500
	Y-o-Y	—	113.8%	128.6%	124.5%	108.4%	108.9%	103.3%	105.1%	104.5%
EHPS		5,000	5,100	5,200	5,300	5,300	5,100	4,900	4,700	4,500
	Y-o-Y	—	102.0%	102.0%	101.9%	100.0%	96.2%	96.1%	95.9%	95.7%
Total (EPS&EHPS)		40,000	42,400	47,000	52,300	56,600	60,600	64,100	66,900	70,000
	Y-o-Y	—	106.0%	110.8%	111.3%	108.2%	107.1%	105.8%	104.4%	104.6%

Notes:

- The figures are based on the shipment volume from manufacturers. Estimated by YRI
- The figures in 2012 are results, and in 2013 are forecast.
- This research targets global market of EPS systems for passenger cars and those commercial vehicles weighing 3.5 tons and less.
- In the above figures and tables, “Column” indicates column assist EPS, “Pinion” indicates pinion assist EPS, and “Rack” rack assist EPS.

■ **Figure & Table 2: Market Size Forecast of Global EPS and EHPS Components**



(Million Yen)

	2012 Actual	2013 Forecast	2013 Forecast	2013 Forecast	2013 Forecast	2013 Forecast	2013 Forecast	2013 Forecast	2013 Forecast
Motors	125,700	131,100	142,700	156,000	167,000	176,400	184,200	189,400	195,400
Y-o-Y		104.3%	108.8%	109.3%	107.1%	105.6%	104.4%	102.8%	103.2%
ECU	119,600	124,100	134,500	146,400	155,600	164,100	170,900	175,600	180,900
Y-o-Y		103.8%	108.4%	108.8%	106.3%	105.5%	104.1%	102.8%	103.0%
Torque Sensors	32,000	34,400	38,500	43,200	47,200	50,800	54,000	56,600	59,400
Y-o-Y		107.5%	111.9%	112.2%	109.3%	107.6%	106.3%	104.8%	104.9%
Total	277,300	289,600	315,700	345,600	369,800	391,300	409,100	421,600	435,700
Y-o-Y		104.4%	109.0%	109.5%	107.0%	105.8%	104.5%	103.1%	103.3%