

December 2, 2025

## **Nidec Drive Technology Develops New Sizes of Large, High-precision KINEX Gearbox Series**

**- For use in large, 130 - 300kg robots, the new models can meet the growing needs of industrial robots.**

Nidec Drive Technology Corporation (“Nidec Drive Technology” or the “Company”) announced today that it has developed three new models compatible with large robots to be part of the **solid-shaft type (EH-N)** of the Company’s precise-control gearboxes, the KINEX series.

The models of the KINEX series, which are **large, high-precision, high-rigidity, and low-noise gearboxes**, are widely used as key components of, among other applications, industrial robots and machine tools that require high-precision positioning. The newly added three models (EH-160N, 380N, and 500N) boast both “advanced rigidity” and “light weight and compact sizes.” These models reliably achieve high precision even with a heavy load, while offering greater design flexibility, and use space efficiently. In addition, with the **KINEX series**, Nidec Drive Technology is **capable of six-axis configurations of mid- to large-size industrial robots** (weight capacity: 130 – 300kg). With its product lineup of gearboxes ranging from small to large models, the Company is able to meet the robotics industry’s demand for larger models.

The Company will **unveil** these new sizes of gearboxes at **International Robot Exhibition 2025** to be held at Tokyo International Exhibition Center (Tokyo Big Sight) from Wednesday, December 03 – Saturday, December 06, 2025 (Booth: E5-27, East 4-6 Hall).

Nidec Drive Technology remains dedicated to utilizing its gearbox and variable transmission drive-based technologies to contribute to the development of the robotics industry and numerous other fields via the Company’s comprehensive product lineup.

### **KINEX Series**

Conceptual diagram: KINEX in a 6-axis robot



### ■ The EH-N solid-shaft models’ torque specifications

| Model   | Rated torque | Start-stop allowable torque |
|---------|--------------|-----------------------------|
|         | (Nm)         | (Nm)                        |
| EH-025N | 245          | 612                         |
| EH-042N | 412          | 1,029                       |
| EH-080N | 784          | 1,960                       |
| EH-125N | 1,225        | 3,062                       |
| EH-160N | 1,600        | 4,000                       |
| EH-380N | 3,727        | 9,310                       |
| EH-500N | 4,900        | 12,250                      |

\*Sizes within the red border are the newly developed models.

### ■ Characteristics of the new models:

- High rigidity, high precision, and low noise
- Lightweight and compact design with zero backlash and high output torque
- Responds to the growing need for increased size and precision in robots and machine tools.
- Optimal for applications that require precise positioning, heavy-load transportation, and high output torque

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