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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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