

Company Information

Gearbox Business Overview



NIDEC DRIVE TECHNOLOGY CORPORATION



DRIVE TECHNOLOGY COMPANY

**Run on Innovation.
Built with Tech.**

Nidec Drive Technology Corporation



Nidec
PRESS & AUTOMATION

NIDEC PRESS & AUTOMATION COMPANY

**One Brand:
A World of Resources**

BEAT
ANEX-60II



Business Scope

Our company specializes in the manufacturing and sales of gearboxes, forge rolling machines, precision press forming machines, and other mechanical equipment. We also develop variable speed drives, ceramic art equipment, and measuring instruments.

Continuous technical development and refinement

Under the banner of “Drive Technology”, we contribute to the increasing efficiency of our customers’ manufacturing capabilities through our world-class combination of customer service, technical development, and a product line-up centered on gearboxes and press-related equipment.

About us

Established	On April. 7th, 1952 (Registered incorporation date is Oct. 31th, 1946. Due to the acquisition of other company.)
Capital	3,796 million yen (As of March, 2024)

The Evolution of Our Products

For over half a century, we have been dedicated to developing high-precision, high-performance products. This timeline highlights the key milestones in our journey of innovation and excellence.

1952 RING-CONE

Introduction of gearbox technology to the world



1994 ABLE

Wide range of planetary gearboxes



1975 CORONET

A fixed speed reducer similar to a cycloidal reducer



2015 FLEXWAVE

Continuing refinement at high accuracy gearboxes



History

1952	April	Shimpo Industries Co., Ltd., (now Nidec Drive Technology Corporation) established.	2003	March	Obtained ISO14001 certification.
	April	Launched the Ring-Cone variable speed drive RC type.		April	Merged with Nidec Kyori.
1994	April	Launched the Servo Gearbox ABLE VR series.	2015	June	Launched the high-precision gearbox "FLEXWAVE".
1995	February	Shimpo acquired by Nidec Corporation.		August	Acquired ARISA (now Nidec Arisa S.L.U).
1997	May	Obtained ISO14001 certification.	2017	March	Acquired Vamco International, Inc. (now Nidec Vamco Corporation).
	October	Trade name changed to Nidec-Shimpo Corporation.			



2018

GRAESSNER

Adding high-precision right-angle gearboxes enhances product versatility



2019

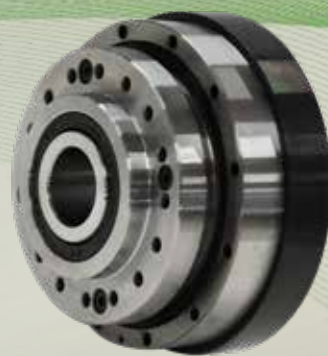
DESCH

Adding large high-precision gearboxes enhances product versatility

2024 December

Smart-FLEXWAVE
Built-in Multi Sensor

Provision of safety and quality in the fields of collaborative robots



2024 January

KINEX

Achievement of the high accuracy for industrial robots



2018	April	Commenced operations at Ueda Factory (Nagano).
	August	Acquired MS-Graessner GmbH & Co. KG (now Nidec Graessner GmbH & Co.KG).
2019	January	Commenced operations at the Philippines Factory (Subic).
	February	Acquired Systeme + Steuerungen GmbH (now Nidec SYS GmbH).
	March	Acquired DESCH Antriebstechnik GmbH & Co. KG (now Nidec DESCH Antriebstechnik GmbH & Co.KG).

2020	September	Acquired CHS Automation (Metal Stamping Sport Gro) (now Nidec CHS, LLC).
2022	July	Moved headquarters to Muko-shi (Nidec Park), Kyoto.
2023	April	Trade name changed to Nidec Drive Technology Corporation.
	August	Acquired Automatic Feed Co., and so on (now Nidec Automatic Feed Company).
2024	January	Launched the large high-precision gearbox "KINEX".
	December	Launched the built-in multi sensor precision gearbox "Smart-FLEXWAVE".



ABLE Planetary Gearbox – High efficiency, smooth operation, and exceptional durability for precise motion control in demanding applications.



Gantry Robots



Packing Machines



Nidec DESCH's core products are large precision reduction gears, clutches and brakes for machine tools, construction machinery, agricultural equipment and presses. Nidec DESCH has the highest quality and brand power in the industry for gearboxes used in large servo presses.



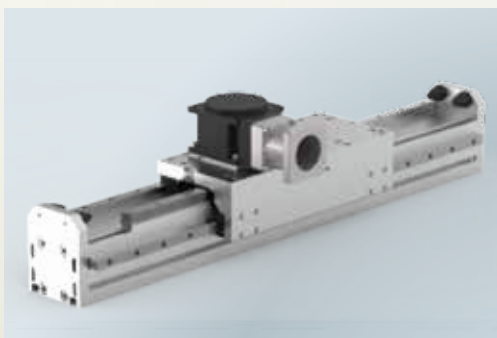
Machine Tools



Press Machines



Nidec Graessner specializes in high-precision right-angle gearboxes, including spiral bevel and hypoid types, for robotics, automation, food processing, medical technology, and aerospace. Backed by decades of engineering expertise, the company is a trusted leader in compact, quiet, and customized gearbox solutions.



Vertical Machine



Gantry Loaders

FLEXWAVE

FLEXWAVE gearbox combines precision, low backlash, and high torque in a compact design, making it the perfect solution for robotics and automation, ensuring smooth and reliable performance in demanding applications.



Articulated Robots

Smart - FLEXWAVE World No.1 Built-in Multi Sensor Gearbox

Smart-FLEXWAVE is the world's thinnest and lightest smart gearbox with a built-in torque sensor, combining our proprietary sensing and strain wave gearing technologies. As a safety torque sensor, it has received functional safety certification from TÜV SÜD, a third-party certification organization. Our safety feature contributes to reducing time and costs in robot system development.



Collision detection and overload monitoring



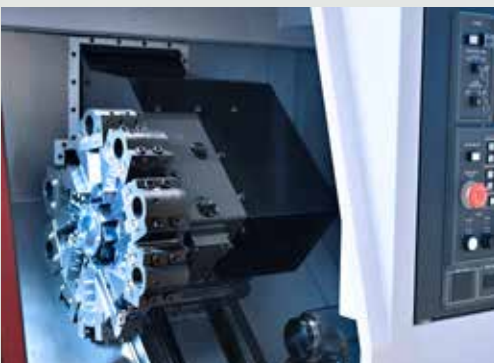
The "Smart-FLEXWAVE BD Series" is a safety torque sensor that complies with the functional safety standards for industrial equipment. The "Smart-FLEXWAVE BD Series" is certified by TÜV SÜD, a third-party certification organization, as a safety torque sensor that meets the functional safety standards for industrial equipment.

Conformed standards EN ISO 13849-1: 2023 / IEC 61508: 2010 / EN IEC 62061: 2021

* This does not guarantee that the entire mechanical device incorporating this product will meet the essential requirements of the functional safety standards.

KINEX

KINEX Gearbox delivers exceptional torque and efficiency in a compact form, offering smooth, quiet operation and high durability. It's ideal for applications requiring heavy load capacity and precise motion control.



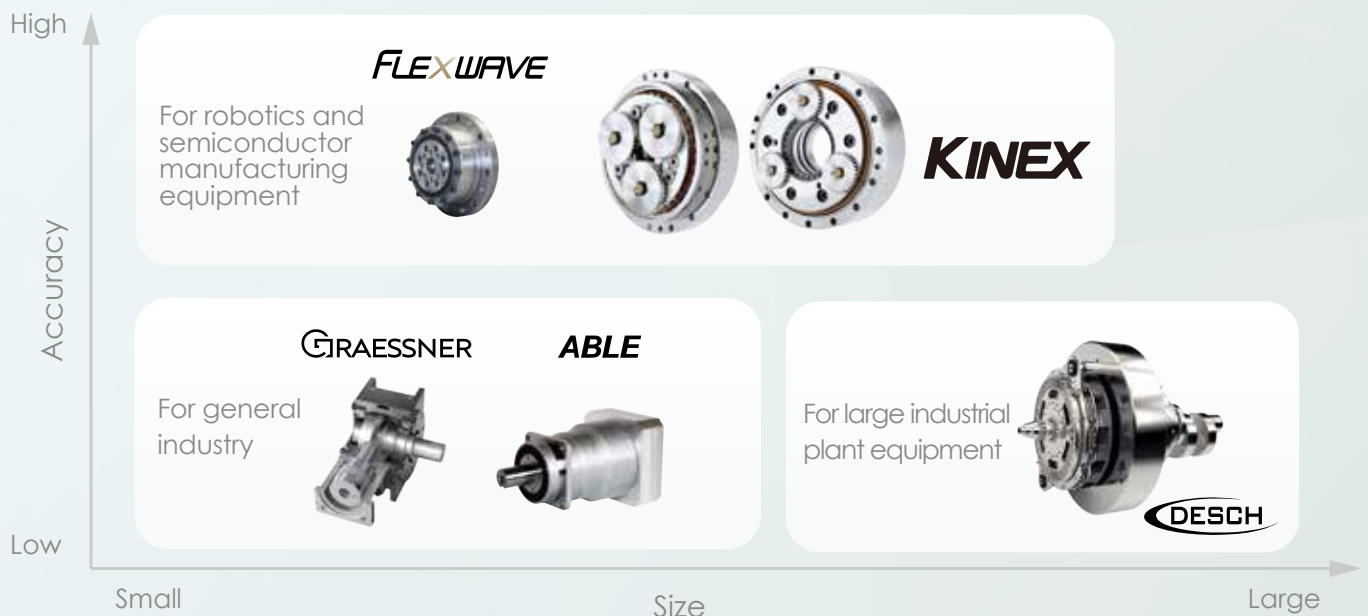
Automatic Tool Changers



Wafer-transfer Robots

Nidec Gearbox Line-up

We deliver tailored solutions that blend performance and cost-efficiency across various size, from low to high precision. Your all-in-one solution for every need.



THOROUGH QUALITY CONTROL

NIDEC DRIVE TECHNOLOGY has obtained ISO 9001/ISO 14001 certification of quality assurance.

ISO 9001

This certificate is valid for the following scope:

Design, Development, Manufacture, Repair and Sales of

1. Power Transmission Equipment
2. Press Machines
3. Measuring Instruments
4. Pottery Equipment

●Nidec PARK Bldg.C, Ueda Factory

ISO 14001

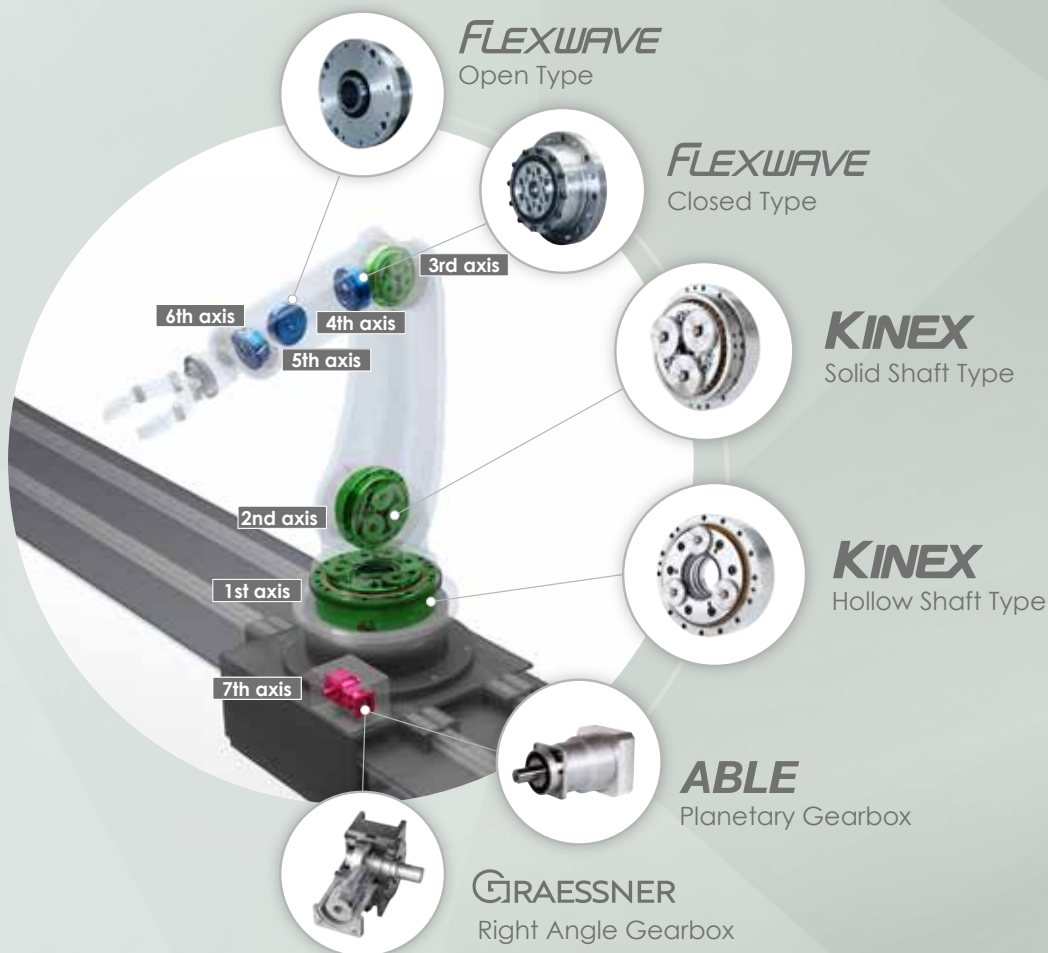
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●Nidec PARK Bldg.C, Ueda Factory

One-Stop Gearbox Solution



FLEXWAVE
Smart-FLEXWAVE
 Built-in Multi Sensor

Role of the 4th axis of the robotic arm to rotate the arm (rotational movement)

Role of the 5th axis of the robotic arm to bend the wrist (bending motion)

Role of the 6th axis of the robotic arm to rotate the wrist (twisting motion)

KINEX

Role of the 1st axis of the robotic arm to change the overall direction (turning movement)

Role of the 2nd axis of the robotic arm to move the whole arm back and forth (back-and-forth motion)

Role of the 3rd axis of the robotic arm to move the arm up and down (vertical movement)

ABLE

Used as a linear axis to move the robot arm and extend its working range.

GRAESSNER

Global Network, Reliable Solutions, Seamless Delivery.



NIDEC DRIVE TECHNOLOGY AMERICA CORPORATION (CHICAGO, USA)



NIDEC GRAESSNER GMBH & CO. KG
(DETTEHAUSEN, GERMANY)



NIDEC DESCH ANTRIEBSTECHNIK GMBH & CO. KG
(ARNSBERG, GERMANY)



NIDEC DRIVE TECHNOLOGY DO BRASIL LTDA. (SÃO PAULO, BRAZIL)



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(SEOUL, KOREA)



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(SHANGHAI, CHINA)



CHINA FACTORY
(PINGHU, CHINA)



PHILIPPINES FACTORY
(SUBIC, PHILIPPINES)

KANAZAWA OFFICE (ISHIKAWA, JAPAN)



KOMAGANE FACTORY (NAGANO, JAPAN)



UEDA FACTORY (NAGANO, JAPAN)

EAST JAPAN SALES GROUP (TOKYO, JAPAN)

NAGOYA SALES GROUP (AICHI, JAPAN)



HEADQUARTERS (KYOTO, JAPAN)

FUKUOKA OFFICE (FUKUOKA, JAPAN)



**NIDEC DRIVE TECHNOLOGY
TAIWAN CORPORATION**
(TAICHUNG, TAIWAN)

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We are a member of the
International Federation of Robotics.

YouTube



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