

# JTEKT

Group Products Guide



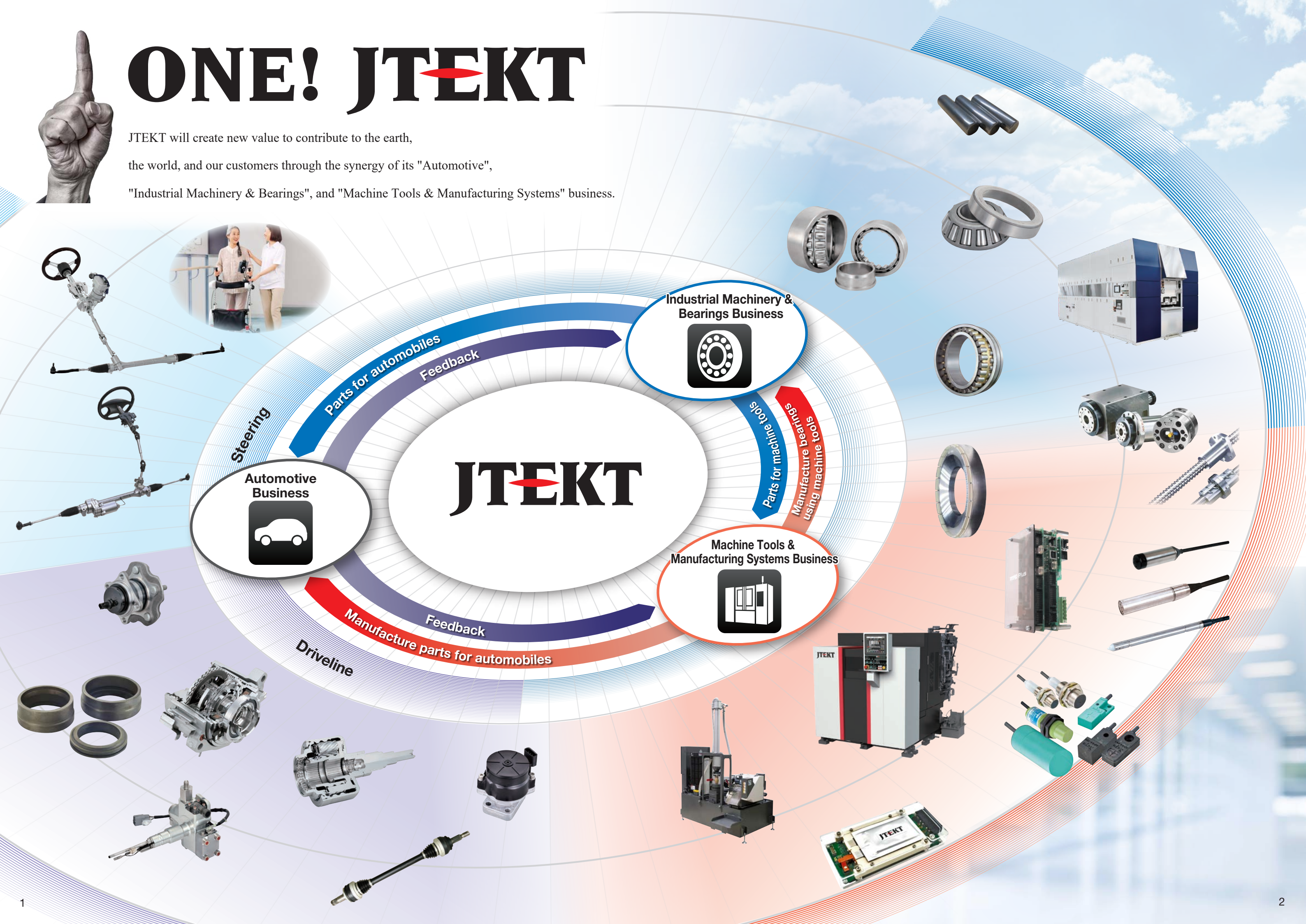
**All for customer's solution**





# ONE! JTEKT

JTEKT will create new value to contribute to the earth,  
the world, and our customers through the synergy of its "Automotive",  
"Industrial Machinery & Bearings", and "Machine Tools & Manufacturing Systems" business.





# JTEKT Everywhere

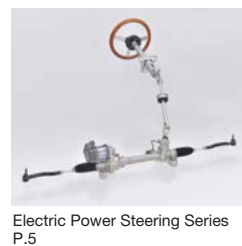
We provide high quality products in various fields.

Many JTEKT products are familiar to us in our daily lives.

JTEKT products are used in towns, cars and factories.

## JTEKT everywhere

### Electric Vehicles • Automobiles



Electric Power Steering Series  
P.5



Hub Units  
P.5



High Pressure Hydrogen  
Valves for FCV  
P.5



New Motorized Rake Tilt &  
Telescopic Steering Column  
P.14



Bearings for eAxeles  
P.5



Gear Parts  
P.13



Cylindrical Gear Grinding  
Machine GT-252N  
P.8



NC Rolling Machines  
P.9



Heat Treatment/  
Surface Modification Processing  
P.9

### Semiconductors • IoT • Sensors



Silicon Wafer Grinders  
P.7



Vitrified Diamond Wheel  
For Wafer Grinding  
P.9



Vertical Type  
Diffusion Furnace  
P.11



Proximity Sensors  
P.10



Water Level meters  
P.6

### Molds • Precision Parts



Vertical Machining Center  
(Precision Center) PJ303X  
P.8



Carburizing Furnace  
Smart FLEC  
P.11



Spindle Units • Indexing Chucks •  
Ball Screw  
P.7



Cylindrical Grinders G2 Series  
P.6, P.7

### Construction • Agriculture • Industrial equipments



Horizontal Spindle  
Machining Center FH5000S-I  
P.6



Large Size Oil Seal for  
Steel Production Equipment  
P.13

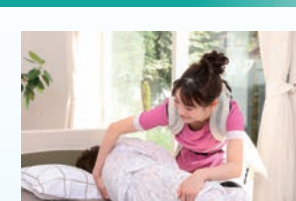


High Precision Roller for  
Needle Roller Bearings  
P.12



Bearings for Construction/  
Agricultural Machinery  
P.5

### Medical • Nursing • Industrial Assist Tools



Power Assist Suit for Caregiver  
J-PAS fleairy  
P.6



### Machines • Robots



Ultra High-performance Bearing  
(PRECILENCE)  
P.11



Centerless Grinding Machines  
P.7

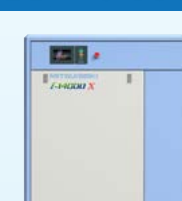


Defoaming Machine  
"BABUKESU II"  
P.10



Coolant Systems  
P.9

### Contributing to various life scenes by saving energy and resources



Compressor  
P.8



Backup Power Supply System  
Units Lithium-Ion Capacitor  
P.6



Hydraulic Power Unit  
"TOYOPAC ECO II Plus"  
P.10



Rebuilt Machine  
P.7



# JTEKT CORPORATION

**Main products** Steering Systems, Bearings, Driveline Products, Machine Tools, Electronic Control Units  
**Web (products)** <https://www.jtekt.co.jp/e/>  
**Contact** <https://www.jtekt.co.jp/e/support/contact.html>



## Automotive Parts



■ **Electric Power Steering Series**  
 Global share No. 2 product that can be provided from light cars to large commercial vehicles.



■ **Hub Units**  
 It contributes to lower fuel consumption by reducing weight by optimizing the structure and reducing torque by developing low-contact seals.



■ **Bearings for eAxles**  
 A bearing series that pursues the small size, light weight, high efficiency, and quietness required for EVs.



■ **Pressure Reducing Valve, High Pressure Hydrogen Gas Valve**  
 It contributes to improving fuel efficiency and durability by improving performance as well as reducing size and weight.



■ **Driveshafts**  
 Optimal shape design using analysis technology realizes size reduction and weight reduction.

## Various Type Bearings



■ **Bearings for Industrial Robot**  
 We pursue small size, light weight, high efficiency and quietness, and have a lineup of bearings that meet the needs of our customers.



■ **Bearings for Machine Tools**  
 Precision rolling bearings developed by JTEKT earn our customers' trust through operation in spindles, ball screw support units and peripheral devices.



■ **Bearings for Wind-power Generation**  
 Contributes to the upsizing of wind power generators and reliability that can withstand over 26 years of operation.



■ **Bearings for Construction/Agricultural Machinery**  
 JTEKT's bearings contribute to extend the life of vehicles that operate in the harsh environments related to the fields of construction and agricultural machinery, such as by being able to withstand heavy loads, impact, mud.



■ **Bearings for Steel Production Equipment**  
 JTEKT provides products such as roll support bearings and drive shafts that are suitable for heavy loads and harsh environments with high temperatures.

## Various Type Bearings



■ **Bearings for Special Environment**  
 Bearings for special environments (EXSEV series) such as clean, vacuum, high temperature, and corrosion, as well as special performance such as non-magnetism, insulation, and high speed.



■ **Bearings for OA Equipment**  
 Lineup of high load type and low load type based on advanced technology and abundant experience.

## Construction Machinery Parts

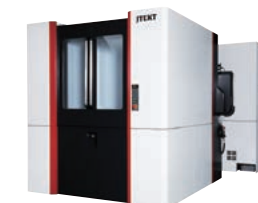


■ **Propeller Shafts**  
 Adaptable to any environment, such as reinforced lip shape, longer life by optimizing roller length and crowning.

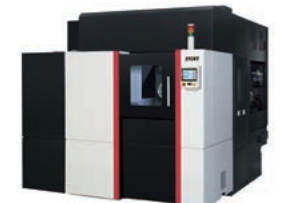
## Machine Tools & FA Systems



■ **Cylindrical Grinders G1 Series**  
 A wide selection of specifications. A compact machine ideal for mass production.



■ **Horizontal Spindle Machining Centers (FH5000S-i)**  
 Suitable for various fields' processing.



■ **Gear Skiving Centers (GS200H)**  
 We have established the elements necessary for gear machining as our own technology, and provide equipment (elements), control, tools, and processing technology.



■ **HMI TOYOPUC-Touch**  
 Simple, safe, and connected. Ideal for machine status and preventive maintenance.



■ **High Speed PLC TOYOPUC-Nano 10GX**  
 Visualization of facilities and production lines is realized.



■ **IoT Solution**  
 We connect equipment, people, and information to help people grow. Creating new value at production sites.

## Power Assist Suits



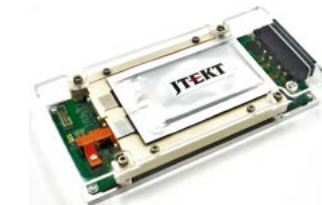
■ **J-PAS fleairy**  
 Power Assist suit for caregiver. It assists with motor power during care work so as to reduce the burden on the lower back. It is one of the lightest suit in the power assist suit products.



## Strage Devices



■ **High Heat-resistant Lithium-ion Capacitor**  
 Our High Heat-resistant Lithium-ion Capacitor achieves wide operating temperature range from -40 to 86°C, which exceeds the operating temperature range of conventional capacitors, using our patented technology.



■ **Backup Power Supply System Units Lithium-ion Capacitor**  
 Power supply unit combining a High Heat-resistant Lithium-ion Capacitor cell with a balance circuit and a charge/discharge controller (complies with ISO26263).



## Sensors



■ **Water Level Meters**  
 Contributing to national land resilience planning for disaster prevention and mitigation, including water supply, sewage, rivers, and reservoirs.



# JTEKT MACHINE SYSTEMS CORPORATION

**Main products** Grinding Machine · FA Systems, Precision Mechanical Equipment, Drive Shafts, Intermediate Shaft  
**Web (products)** <https://www.machine.jtekt.co.jp/english/product/>  
**Contact** 072-922-7881 / k-sales@machine.jtekt.co.jp



## Grinding Machines



### ■ Various Type Grinders

Centerless, flat, inner diameter, wafer, and other specialized machines. We propose the most suitable grinding machine for the object.

## Automotive Parts



### ■ Intermediate Shaft

Important safety parts for automobiles that support "turning". Continues to evolve with the growth of the global automobile industry.

## Precision Mechanical Equipments



### ■ Spindle Units · Indexing chucks · Ball Screw

In-house manufacturing of machine elements that are essential for precision. Accurate positioning and rotation support precision machining.

## Steel Parts



### ■ Drive Shafts

A first-class product that has the strength to withstand huge impact torque and also has the precision to maintain an extremely small gap.

# JTEKT GRINDING SYSTEMS CORPORATION

**Main products** General-purpose Cylindrical Grinders, CNC Cylindrical Grinders, Remodels and Overhauls of Grinders  
**Web (products)** <https://www.grinding.jtekt.co.jp/en/products/grinding.html>  
**Contact** 0564-62-1883 / eigyou@grinding.jtekt.co.jp



## Cylindrical Grinders



Hydraulic Cylindrical Grinders

Cylindrical Grinders G1 Series

CNC Cylindrical Grinders

### ■ Various Type Cylindrical Grinders

We consistently produce from Design to Delivery.

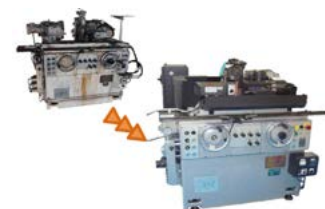
## One-stop Service



### ■ One-stop Service

We support all manufacturing services from Introduction to Regeneration.

## Example of One-stop Service, Rebuilt · Overhaul, Modification renewal



### ■ Rebuilt · Overhaul

We will revive the JTEKT Grinders with added value more than ever.



<Tooling Modifications>

### ■ Modification renewal

We customize the most suitable Grinders according to the specifications and needs such as improvement of accuracy.



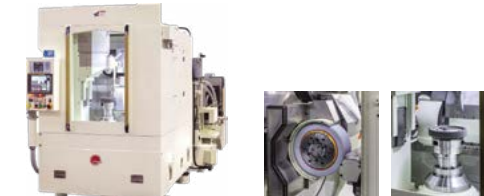
<CNC Replacement>

# JTEKT GEAR SYSTEMS CORPORATION

**Main products** Machine Tools, Automotive Parts (Differential Assy · Gear for Reduction Gear)  
**Web (products)** <https://www.gear.jtekt.co.jp/en/index.html>  
**Contact** 0561-48-5903 / yutaka\_eigyo@yutaka.co.jp



## Machine Tools



### ■ Cylindrical Gear Grinding Machine GT-252N

The workpiece changing distance and the grindstone changing distance are minimized due to reduce operators' daily work.

## Machine Tools



### ■ Hypoid Gear cutting Machine G-30NF-1

G-30NF-1 is a hypoid gear cutting machine which achieve downsizing. It has the Chamfering and deburring equipment inside of it so that manufacturing process can be integrated. Furthermore, it supports dryprocessing that is environment-friendly.



### ■ Hypoid Gear Grinding Machine GTH-30N

Compared to lapping, the numbers of variations in tooth contact is 1/3 and roughness of tooth surface is 1/2. Managing in sets is not required.

## Automotive Parts



### ■ Differential Assy, Gear for Reduction Gear

We propose small, highly durable, low-noise, and high-performance gears by combining the analysis technology and manufacturing that we have cultivated in automobile parts.

# Mitsui Seiki Kogyo Co., Ltd.

**Main products** Machining Center, Jig Grinders, Jig Borers, Thread Grinders, Compressor  
**Web (products)** <https://www.mitsuseiki.com>  
**Contact** <https://www.mitsuseiki.com/contact/index.asp>

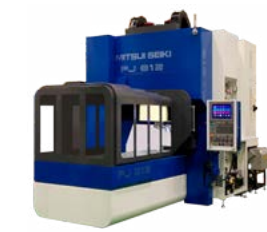


## Machine Tools



### ■ Vertical Machining Center (Precision Center) PJ303X

A 5-axis machine that opens up new possibilities in micro-fabrication.



### ■ Vertical Machining Center (Precision Profile Center) PJ812

The ultimate mother machine that combines both a jig borer and a machining center.

## Compressors



### ■ Water lubrication Compressor i-14022AX2-R

Carbon neutral, clean air and highly efficient water-lubricated oil-free compressor ideal for food safety management.



### ■ Oil lubrication Compressor ZV22AX-R

A high-performance, high-efficiency, high-performance oil-type compressor that pursues the ultimate precision of its own compression mechanism.

# CNK Co., Ltd.

**Main products** Heat Treatment, Surface Modification Processing, Machine Tools  
**Web (products)** <http://cnk.co.jp/business/machine/#anc01>  
**Contact** 0566-21-1832 / [home@cnk.co.jp](mailto:home@cnk.co.jp)



## Heat Treatment/Surface Modification Processing



■ **Heat Treatment/Surface Modification Processing**  
 We support various heat treatment and surface modification processes such as carburizing and quenching, gas nitrocarburizing, and DLC coating.

## Rolling Machines



■ **NC Rolling Machines**  
 An NC rolling machine that achieves automatic OPD adjustment, shortened setup time, and improved operating rate.

## Autoloader Systems



■ **Autoloader**  
 Contributes to the productivity improvement of the processing line by speeding up by reducing the size and weight.

## Factory Environment Improvement Products



■ **Various Type Coolant Systems**  
 Running costs are reduced by using a high-precision magnetic separator and a high-cleanliness cyclone together.

# JTEKT ELECTRONICS CORPORATION

**Main products** Factory Automation products, Solution products, Automotive devices  
**Web (products)** <https://www.electronics.jtekt.co.jp/en/product/>  
**Contact** 0120-900-774 / <https://www.electronics.jtekt.co.jp/en/contact/>



## Factory Automation products (Sensors, PLCs, HMIs, Power Supplies)



■ **Rotary Encoders**  
 Choose from a wide variety to suit your environment.



■ **Proximity Sensors**  
 JTEKT Electronics supplies many different models of proximity sensors, including the cylindrical type and the rectangular type.

## Solution (Visualization of Status)



■ **Visualization Realization Tool, Pon-box**  
 Start small with a low budget!  
 It can be installed as an add-on to existing equipment, and the built-in application makes it easy to visualize the operation status.

## FA Products (AC Servo System)



■ **AC Servo System**  
 Built-in positioning function realizes easy operation.  
 Positioning function points: 99 points, electronic cam function, encoder resolution: 24 bits/rotation.

# JTEKT GRINDING TOOLS CORPORATION

**Main products** superabrasive wheel, Diamond Dressers, wear resistant products, Peripheral equipment such as truing equipment  
**Web (products)** <https://www.tools.jtekt.co.jp/en/>  
**Contact** <https://www.tools.jtekt.co.jp/en/contact/index.html>



## Grinding Wheels



■ **Vitrified CBN Wheel for Automobile, Machine parts**  
 Even after truing, the sharpness is improved to improve processing accuracy and quality.



■ **Resin Wheel for Mold, Ceramics**  
 High versatility and active in various processing. Excellent sharpness and responds to productivity and processing accuracy improvement.

## Grinding Wheels



■ **Vitrified Diamond Wheel for Wafer Grinding**  
 Wheels that do little damage to wafers provide long life and stable quality.

## Dressers



■ **Electroplated Diamond Dresser for Gear Grinding**  
 Active in high-precision machining of gears. The high-precision dresser provides long life and stable quality.

# JTEKT FLUID POWER SYSTEMS CORPORATION

**Main products** Hydraulic Products, Inspection Tester, Automotive Parts  
**Web (products)** <https://www.jtekt-fluid.co.jp/en/>  
**Contact** 0564-48-2311 / [ty-eigyo@fluid.jtekt.co.jp](mailto:ty-eigyo@fluid.jtekt.co.jp)



## Hydraulics and Pneumatics



■ **Various Type Products**  
 Contribute to your manufacturing innovation.

## Inspection Testers



■ **Utilizes Core Technology**  
 Provides a consistent system from design to adjustment.

## Energy-Saving Hydraulic Power Units



■ **TOYOPAC ECOII Plus**  
 Inverter drive provides PLUS energy-saving!  
 Energy efficiency is improved through motor rotation control.

## Defoaming Machines



■ **BABUKESU II**  
 Solves the foam troubles without defoaming agent!  
 \*Free demonstration machine is available.



# JTEKT THERMO SYSTEMS CORPORATION

**Main products** Various Type industrial heat-treatment furnaces  
**Web (products)** <https://www.jtektthermos.com/products/>  
**Contact** <https://www.jtektthermos.com/contact/>



## For Metal Heat Treatment



■ **Carburizing Furnace Smart FLEC**  
 Reduction of heat treatment distortion reduces the load on post-processes.  
 The unit structure enables small-scale heat treatment according to demand fluctuations.

## For Power Semiconductors



■ **Vertical Diffusion Furnace VF Series**  
 Heat treatment equipment for power semiconductors such as SiC and Si-IGBT.  
 Supports 8-inch wafers for SiC, 300mm wafers for Si-IGBT

## For Electronic Parts



■ **Conveyor Furnace**  
 It has high-precision temperature control, and the use of a muffle enables treatment in the stable atmosphere inside the furnace. It is also possible to change the atmosphere.



■ **Inert Gas Oven INH Series**  
 By introducing an inert gas (N<sub>2</sub>, etc.), heat treatment can be performed in a low oxygen concentration atmosphere (20ppm or less).

# Daibea Co., Ltd.

**Main products** Ultra High-Precision Bearing, High-Precision Bearing  
**products(URL)** <https://www.daibea.co.jp/products/>  
**Contact** 0725-53-1766 / mail\_toiwase\_ippan\_group@daibea.co.jp



## Ultra High-Precision Bearing



■ **Ultra High-Precision Bearing (PRECILENCE)**  
 Achieves the highest precision (rotation accuracy, dimensional accuracy). Contribute to the all sort of facility.

## Bearings for Industrial Machinery, Robots



■ **Bearings for Wave Motion Reducer**  
 It is thin, handling high loads, miniaturization and weight reduction.

## Bearings for Industrial Machinery, Robots



■ **Bearings for Special Environment**  
 Realizes the special performance required for bearings, such as special environments like a vacuum, high temperature, and clean environment, high speed, insulation, and non-magnetism.



■ **Bearings for Mmast Roller**  
 The uniquely developed bearing adopts an epoch-making structure that softens the outside with a special heat treatment.

# JTEKT FINETECH Co., Ltd.

**Main products** Needle Roller Bearing, Needle roller, Cylindrical roller, High precision roller, Pin  
**Web (products)** <https://www.jtekt-ft.co.jp/products01.html>  
**Contact** 028-653-1311 / katsutoshi\_amano@jtekt-ft.co.jp



## Needle Roller Bearings for Automotive, Industrial machinery



■ **Thrust Needle Roller Bearing, Radial Needle Roller Bearing**  
 Abundant line-up products to meet various usage environments, such as high-speed rotation, high-capacity, and low-torque.

## Rollers for Industrial Machinery



■ **High Precision Roller for Needle Roller Bearing**  
 Improved quietness by stabilized submicron process control (Precise control of Roller and Pin OD dimension in submicron (1/10000mm) units by feed back systems after processing).

## Pins for Machinery, Mold



■ **Dowel Pin**  
 Improved quietness by stabilized submicron process control (Precise control of Roller and Pin OD dimension in submicron (1/10000mm) units by feed back systems after processing).

# KOYO Magnetic Bearing Co.,Ltd.

**Main products** Active magnetic bearing device  
**Web (products)** <https://koyo.jtekt.co.jp/2022/07/column-magnetic-bearing.html>  
**Contact** 072-813-9196 / info@koyo-mb.co.jp

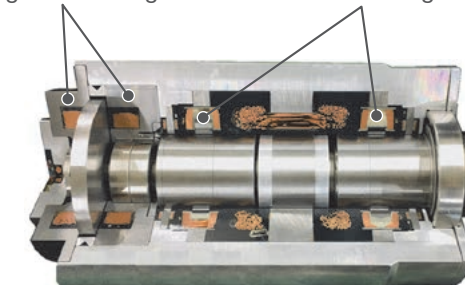


## Active Magnetic Bearing Device



<Axial magnetic bearing>

<Radial magnetic bearing>



■ **Active Magnetic Bearing Device**  
 Electromagnetic force supports the shaft without contact, realizing ultra-high speed, long life, and low vibration without oil.

# Koyo Sealing Techno Co., Ltd.

Main products Oil Seals, O-Rings, Rubber and resin functional products, etc.  
 Web (products) <http://www.koyo-st.co.jp/products/>  
 Contact 088-692-8531 / [https://i.msgs.jp/webapp/form/20075\\_dsdb\\_9/index.do?val=cat04](https://i.msgs.jp/webapp/form/20075_dsdb_9/index.do?val=cat04)



## Oil Seals



### ■ Various Type oil seals

Oil seals used to seal various sealing media, and they have low torque and high sealing performance.



### ■ Large-size oil seals for Steel Production Equipment

Large-size oil seals are used in steel rolling mill equipment and industrial machinery, and they accommodate various sealing media and a wide range of sizes.

## Functional Products for Automobiles



### ■ Bonded Piston Seals

Bonded piston seals are used in automobile automatic transmissions, etc., and contribute to the miniaturization and high performance of equipment due to their light weight and high responsiveness.



### ■ Friction Dampers

Friction dampers are used in automobile transfers and transmissions, and play a role in suppressing vibrations and mitigating shocks during driving.

# KOYO METALTEC Co., Ltd.

Main products Forgings for Bearing inner and outer rings, Gear  
 Web (products) <https://koyo-mt.com/en/business>  
 Contact 0595-23-3286 / [eigyo@koyo-mt.com](mailto:eigyo@koyo-mt.com)



## Forgings for Bearing



### ■ Tapered Roller Bearing inner and outer rings

Making full use of our wealth of experience and the latest technology, we provide high-precision, high-quality products under an integrated system that includes hot forging, cold rolling, and turning.



### ■ Deep Groove Bearing inner and outer rings

## Forgings for Automotive parts



### ■ Gear Parts

Contribute to resource saving with high-yield, near-net shape ring products using closed rolling technology.



### ■ Steering Parts

# Fuji Kiko Co., Ltd.

Main products Steering Column, A/T shifter  
 Web (products) [https://www.fujikiko-group.com/en/product\\_e.php](https://www.fujikiko-group.com/en/product_e.php)  
 Contact [https://www.fujikiko-group.com/en/inquiry\\_company\\_e.php](https://www.fujikiko-group.com/en/inquiry_company_e.php)



## Automotive Parts



### ■ New Motorized Rake Tilt & Telescopic Steering Column

A steering column that allows you to adjust the steering wheel position up and down (tilt) and forward and backward (telescopic) with a single switch.



### ■ Rake Tilt & Telescopic Steering Column

A single lever can be used to lock and unlock the vertical and forward/backward adjustment of the handle position. Fuji Kiko steering column standard.



### ■ Rake Tilt & Telescopic Steering Column for EPS

Steering column specially designed to be compact so that a power steering mechanism can be added on top of the steering column.



### ■ Standard Type Manual Mode A/T Shifter

Manual mode A/T shifter with light weight and lower cost by unifying core parts.

Note:

Sales conditions of the products in this catalog vary from country to country. For details, please contact the local subsidiary of each company in each country.

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