1. Bearings

1-1 General Bearings

Large size ball & roller bearings

(CAT.NO.B2002E)



This catalog provides information on various large size ball and roller bearings for purposes such as steel making equipment, equipment for wind-power generation, civil engineering and construction machinery, and other large industrial machineries.
It contains large size bearings with bore diameter of 100 mm or more.

Koyo needle roller bearings

(CAT.NO.B2018E)



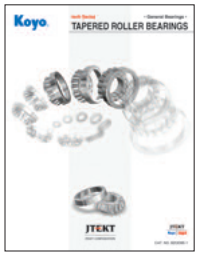
More useful catalog of needle roller bearings as the Koyo brand.

The products published to the catalog

· Radial needle roller and cage assemblies
· Drawn cup needle roller bearings
· Drawn cup roller clutches
· Heavy-duty needle roller bearings
· Track rollers
· Thrust bearings, assemblies, washers
· Combined needle roller bearings
· Needle rollers, accessories

Inch series tapered roller bearings

(CAT.NO.B2009E)



This is the special catalog for tapered roller bearings containing frequently used series in addition to the products included in the "Ball & Roller Bearings" catalog (CAT.NO.B2001E), for improvement in the contents and easier reference.

Ceramic bearings and EXSEV bearings

(CAT.NO.B2004E)



Suitable for use in special environments, such as clean room, vacuum, high-temperature, or chemical.
Available in sizes of 4 mm to 40 mm bearing bore.

Slim series deep groove ball bearings

(CAT.NO.B2014E)



Line up of the slim and small size ball bearings.
Support a miniaturization and lightweight of the device. Useful for OA equipments.

1-2 Products for Steel Production Equipment

High-performance product series for steel production/rolling equipment

(CAT.NO.B1001E)



In this pamphlet, we will introduce high-performance products (bearings, drive shafts, and oil seals) that contribute to stable operations of steel production equipment.
This pamphlet contains two parts: an overall introduction and product introduction.

Products to be introduced include the following

· Bearings for roll necks
· Drive shafts for rolling mills
· Bearings for backing shafts of cluster mills
· Products for continuous casting machines

Bearings and related products for continuous casting machines

(CAT.NO.B2011E)



Products line up for Continuous casting machines.
Bearings, HSC bearing units, oil seals, and oil / air lubricaton systems.

Cylindrical roller bearings for the backing shafts of cluster mills

(CAT.NO.B2012E)



Special designed bearings for the backing shafts of Cluster Mills.
The outer ring is made of special material and is heat-treated for surface hardness to ensure impact resistance, and thus reliability.

Roll neck bearings for rolling mill

(CAT.NO.B2013E)



This bearing is used for rolling mill roll necks.
This catalog includes data about countermeasures for damages particular to this application as well as dimensions tables.

1-3 General Industrial equipment

Precision ball & roller bearings for machine tools

(CAT.NO.B2005E)



This catalog includes high precision products such as cylindrical roller bearings and angular contact ball bearings, that are used for spindles of machine tools, and support bearing for precision ball screws.
This catalog gives technical descriptions including references for handling of bearings such as the guideline for selection of bearing, example of bearing installation, and example of bearing failures.

Drive shafts for industry

(CAT.NO.B2008E)



A drive shaft connects a drive shaft and driven shaft that are not aligned on the same axis, and transfers running torque smoothly.
This catalog shows drive shafts for industry and construction machines other than agricultural machines.

Ball bearing units

(CAT.NO.B2007E)



This catalog has information about ball bearing units.
Technical descriptions, selection of ball bearing units, and dimensional tables of units, such as pillow block type, take-up type, cartridge type, and ball bearing for units, are included in this catalog.
Stainless-series and "compact" series are also included in this catalog.

Oil seals & o-rings

(CAT.NO.R2001E)

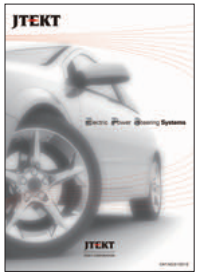


This catalog includes oil seals, o-rings and back up rings.
Includes dimensional tables, technical explanations and handling information.

2. Automotive Components

Electric power steering systems

(CAT.NO.S1001E)



Explains electric power steering system mechanisms.
Introduces our product lineup and product characteristics.

TORSEN

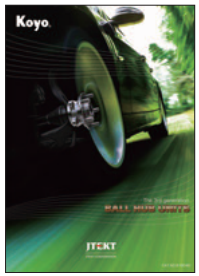
(CAT.NO.D1001E)



TORSEN function and construction
TORSEN product line
Installation of TORSEN improves handling and safety

The 3rd generation ball hub units

(CAT.NO.B1004E)



Introduces the main characteristics and design of the 3rd generation ball type hub units.
Features JTEKT's recommended hub unit numbers.

3. Sensors

Immersion-type water level meters TD series

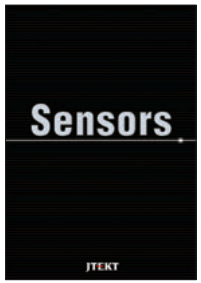
(CAT.NO.Z2014)



Product series, which are suitable to measurement and management of water level in plants of sewers and water supplies, rivers, flood gates, waterways, and wells, are shown in this catalog.
Major advantages are compact body, high accuracy, and built-in lightning-strike protection circuit.

Sensors (built-in sensors for products)

(CAT.NO.Z2013)



This catalog has information about built-in sensors for products.
Pressure sensors for dialyzers, air conditioners, and micropressure are shown in this catalog.

Bearings



■Hub units



■Clutch release bearings



■Water pump bearings



■Bearings for rocker arms



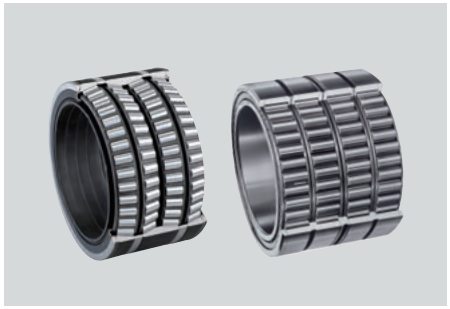
■CPA bearings



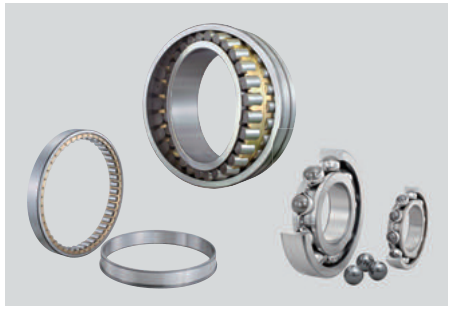
■LFT Ⅲ bearings



■KE bearings



■Roll neck bearings for rolling mill
(Steel production/rolling equipment)



■Bearings for wind turbine generator



■Ceramic & EXSEV bearings



■Bearings for railway rolling stock axle
journals



■Drive shafts



■Bearings for machine tools



■Bearings for aircraft/aerospace

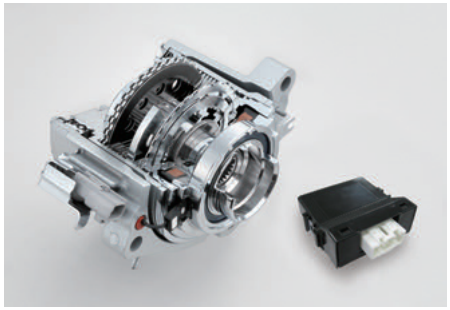
Automotive Components



■Steering systems



■TORSEN LSD



■Intelligent torque controlled coupling (ITCC)



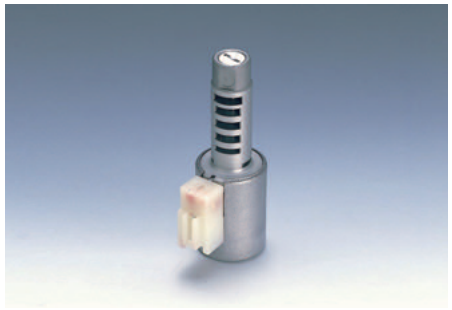
■Drive shafts (CVJ)



■Electric pumps for idle-stop system



■Pump for CVT



■Linear solenoid valve for AT and CVT

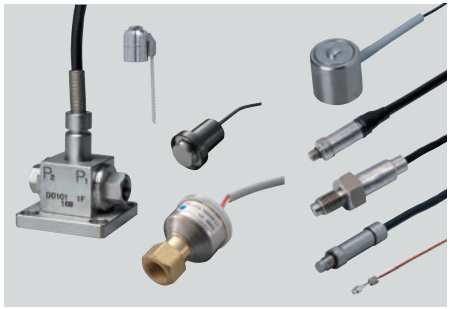


■Damper pulleys

Sensors



■Water level meters



■Pressure sensors/Transducers

Machine tools

[Grinders]



■ Grinding center TG4



■ Cam shaft grinder GC20Mi



■ Cylindrical grinder e300G

[Machining Centers]



■ Horizontal spindle machining center
FH630SX-i



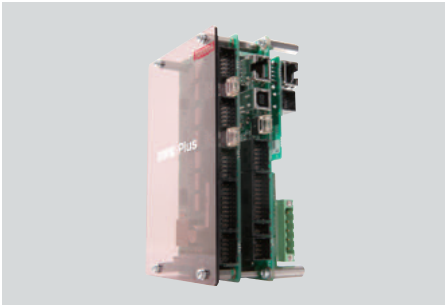
■ Vertical spindle machining center
FV2090S

Mechatronics

■ Programmable controller



TOYOPUC®-PC10G



TOYOPUC®-Plus



■ Direct circuit monitor



■ Small safety PLC TOYOPUC®-PCS-J

Koyo Machine Industries Co., Ltd.


■Centerless grinding machine


■Surface grinding machine


■Fully automatic assembly inspection system


■Precision spindle unit


■Drive shaft


■Intermediate shafts


■Ball screws


■Indexing chuck

Koyo Sealing Techno Co., Ltd.


■Oil seals of various types


■O-rings of various types


■Functional parts of various types


■Bonded piston seals for AT and CVT

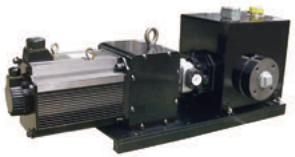
Toyooki Kogyo Co., Ltd.

Energy-saving hydraulic equipment


■Small pack


■TOYOPAC"ECO"


■Reduced wiring 4 pin connector solenoid valve


■Toyopac motion

Inspection and testing machine


■High performance straightening machine

Automotive components



CNK Co., Ltd.

■Loader



■DLC coating equipment

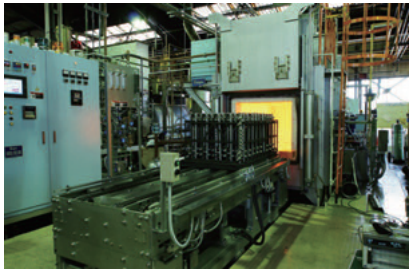


■Round eddy-current coolant system



■Heat treatment equipment





Koyo Thermo Systems Co., Ltd.



■Vacuum heat treatment furnace



■Non-frame KCF carburizing and quenching furnaces



■Vertical diffusion systems



■Electronic device for continuous furnace



■High temperature clean oven



■Experimental small electric furnace

HOUKO Co., Ltd



■General purpose cylindrical grinders G32 series



■CNC cylindrical grinders GE3/GL3S series



■Production type Cylindrical grinders GL4E series

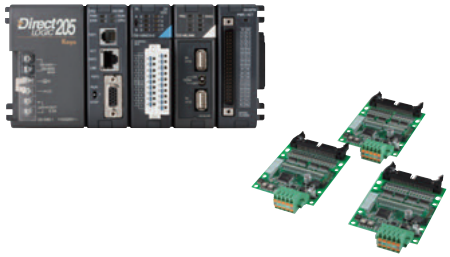


■CNC large cylindrical grinders GE6 series

Koyo Electronics Industries Co., Ltd.



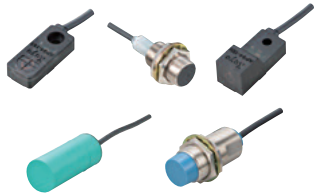
■Rotary encoders



■Programmable controllers



■HMI

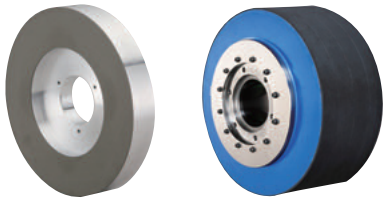


■Proximity switch

Toyoda Van Moppes Ltd.



■Cam profile grinding vitrified wheel



■Two-sided surface grinding, centerless grinding wheel



■Rotary dressers



■Diamond centers