



PT. ETERNA KARYA SEJAHTERA

CATALOGUE



WE ARE SPECIALIST IN
AUTOMATION



Industrial Automation

INTRODUCTION

PT. Eterna Karya Sejahtera is multi distributor for factory automation Spare-parts, Hydraulic, Electrical, Pneumatic Equipment etc, and manufacturing & servicing machine company.

Eterna mission is “HIGH QUALITY SERVICE AND COMPETITIVE PRICE” meaning that PT. Eterna Karya Sejahtera has ready and committed to provide The Best Quality Service to customer, in terms of providing best quality products with competitive prices and sales service

Knowing the best industry for more than 25 years, Eterna has plenty experience in supplying and servicing of quality products to industrial equipment.

Instead of the quality product and service, Eterna bringing the new developing of manufacturing and servicing division, and ready to fulfill the industrial need.

We are eager to bring more values to customer. Not just become one of the suppliers, but to become the BEST BUSINESS PARTNER in doing service of oil cooling machine and hydraulic cylinder, power-pack maker & vacuum pump.

Vision

To be a valuable partner in the industrial automation.

To provide quality products and services to our customers.

Mission

High quality service at a competitive price.

Consistent in bringing excellent services and technical engineering support to customer.

Best business partner in servicing of oil cooling machine and hydraulic cylinder & power pack maker.

We are committed to expanding our coverage to the industrial areas of Indonesia.

MOTTO

“AUTOMATING EXCELLENCE”

LIST OUR MAIN CUSTOMERS

INDUSTRY OF AUTOMOTIVE

- TOYOTA GROUP
- HONDA GROUP
- DAIHATSU
- SUZUKI
- KAWASAKI
- NISSAN MOTOR INDONESIA
- YAMAHA GROUP
- HINO

INDUSTRY OF TIRES

- BRIDGESTONE
- SUMI RUBBER INDONESIA
- HANKOOK TIRE INDONESIA
- ELANG PERDANA TIRE INDUSTRY
- GAJAH TUNGGAL

INDUSTRY OF F & B

- INDOFOOD GROUP
- ORANG TUA GROUP
- WILMAR GROUP
- CERES GROUP
- MAYORA GROUP

INDUSTRY OF GOVERNMENT

- PJB
- BUKAKA
- KOMIPO
- PERTAMINA
- CHEVRON
- SINAR MAS GROUP



Industrial Automation

OUR WORKSHOP



We also have a workshop that functions for the development of new manufacturing and service divisions as well as its strategic location and easy to reach.

MANUFACTURING : Cylinder, Power Pack, Hoses Hydraulic

Repair and Manufacturing Cylinder

Hydraulic Cylinder



Pneumatic Cylinder



Processing Repair and Manufacturing Cylinder



Broken Cylinder



Lathing Process and Repair



Finish

Power Pack Manufacturing



Hoses Hydraulic Manufacturing





Industrial Automation



AUTHORIZED SERVICE CENTER



We also have a workshop that functions for the development of new manufacturing and service divisions as well as its strategic location and easy to reach.

SERVICE : Oil Cooling Unit, Power Pack, Pump, Super Unit, Cylinder, Ecorich

Service Oil Cooling Unit and Ecorich "Daikin"





Industrial Automation

DAIKIN PREVENTIVE MAINTENANCE

PROCESS CLEANING



BEFORE



AFTER



BEFORE



AFTER



Industrial Automation

IAI SERVICE CENTER



We also have a workshop that functions for the development of new manufacturing and service divisions as well as its strategic location and easy to reach.

SERVICE : Controller, Robo Cylinder & SCARA

Service Scara "IAI"



Service Controller Xsel "IAI"



Service Robo Cylinder "IAI"





Industrial Automation

Leybold

Service Center

Service : Vacuum Pump (SOGEVAC, RUVAC, TRIVAC, DRYVAC, SCROOLVAC, LEYVAC, and others)

We also have a workshop that functions for the development of new manufacturing and service divisions as well as its strategic location and easy to reach.

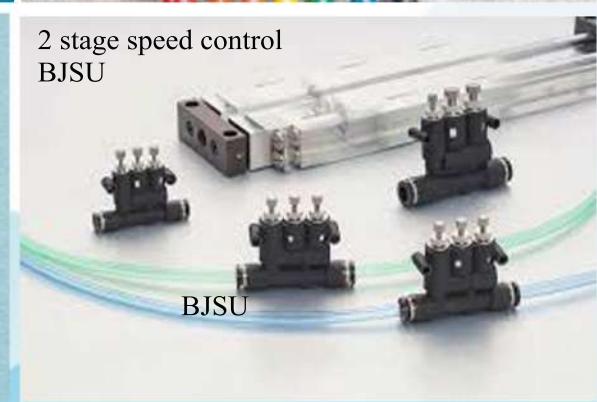
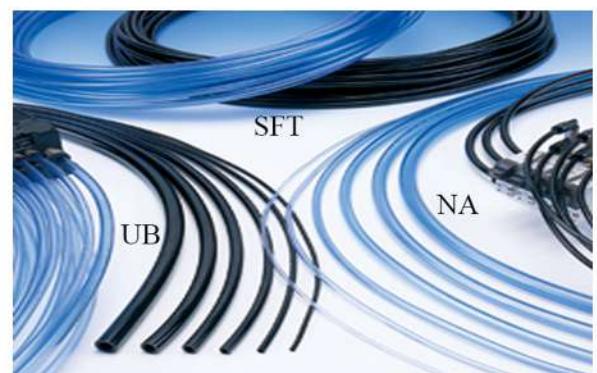




Industrial Automation



NIHON PISCO supplies wide variety of pneumatic equipment with a balance of quality and cost to meet with customer's demand. At same time, we achieve quick and sure delivery by advance delivery system. Including : Fitting, Control, Valve, Vacuum, Actuator, Tube, Plarailchain, Robot Part.

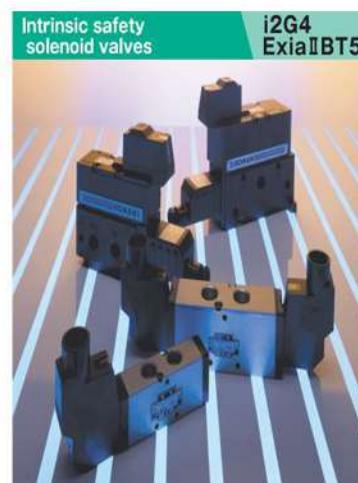




Industrial Automation



Is one of Japanese leading manufacturing and supplier of pneumatic and hydraulic fluid control components for factory automation and energy-saving applications. Konan's highly reliable product, including Solenoid Valves, Air Cylinder, and various Actuators, have been developed with qualified technologies to meet the need in the energy, fine chemicals, and many other industrial fields. Our product and services are highly evaluated not only in Japan but over 50 Countries around the world.



Manual Controlled Valves
PVT1 series





Industrial Automation



Daikin proposes to those who seek additional energy-saving ideas, "Is there not something of epoch-making proportion in energy-saving measures for the factory?" energy saving! absolutely more than that low noise, low heat generation and advanced functions can make your production site a step ahead.



AKZ 9 series
(Circulating type)



AKZJ 9 series
(Immersion type)



ECO RICH
EHU series



SUPER UNIT
SUT series



Piston Pump
V series



VANE PUMP
DE series



ROTOR PUMP
RP series



SOLENOID VALVE
KSO series **LSO series**



CHECK VALVE





Industrial Automation



We have various lineups including standby clamping devices, tube cutters and so on as well as piping parts such as fittings, valves, hoses, pipes, and so on. According to your usage, you can choose the materials and specifications.

Automatic Weld Fitting



Ball Valve



Bellows Valve



Bite type Tube Fitting



Double Ferule type Tube Fitting



EL-Touch



Hose Adapter



In-Line Filter



Metal Gasket Seal type Fitting



NTF



Plastic Tube Fitting series



Quick Joint



Swivel Joint



Weldless Fitting



Piston Valve





Industrial Automation

IAI

IAI industrial system has been at the forefront of laser and optical systems technology for many years, providing unique and advanced systems for a broad spectrum of industrial users. As a result of this experience and our extensive knowledge, IAI has gained an excellent reputation for the design and supply of industrial production systems where laser, optics, precision mechanics and control software play key roles.





Industrial Automation

SUS

System Upgrade Solution BKK Co., Ltd. Sales of aluminum profile, unit structure, machinery equipment and industrial robot made by aluminum for FA (Factory Automation), cutting, treating and assembly of aluminum frames.



ZF 2 Sides Joint 80L (Stainless) Kit



ZF 2 Sides Joint 80U (Stainless) Kit



ZF Adjuster 80 Kit L or R



ZF Adjuster Caster 80 Kit L or R



ZF Anchor Bracket Kit



ZF Beam 80 L=4000



ZF Corner Joint 60 H (Stainless)



ZF Corner Joint 80H (Stainless)



ZF Corner Joint 80V (Stainless)



ZF Pillar 80 L=4000



High Rigidity Aluminum Structural Material



ZF-SF Adapter Beam 80 (Stainless) Kit



Industrial Automation



The IDEC Group, together with customers, will choose the best solution to your need, we will develop and provide the progressive products, systems, and solutions to create the future of automation beyond. A wide variety of control units and Relays for your automation beyond including : Flush Silhouette Control Units, Dual Pushbutton Switches, Jumbo Dome Pilot Lights, Emergency Stop Switches, Enabling Switches, Grip Switches, Slim Power Relay, Relay Sockets.



PUSHBUTTON
HW2B series



PILOT LAMP
HW4L series



PUSHBUTTON
ABW series



PUSHBUTTON
ASN series



PUSHBUTTON
YW series



PILOT LAMP
YW series



EMERGENCY
PUSHBUTTON



RELAYS
RN series



RELAYS
RU series



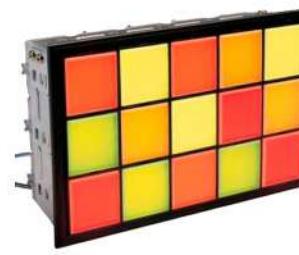
EMERGENCY STOP SWITCH
HW1E series



Control
AGA series



SX5E



ANNUNCIATOR
SLC30 series



TERMINAL
BLOCK BNH series



MOUNTING DIN RAIL
BAA1000 series



HS1L
HS5E
DOOR LOCK
SWITCH



Programmable
Logic Controller
FC6A series



MAT Switch



HMI
HG series



Bumper Switch



Industrial Automation



Based in Tasmania, Australia, Novaris Pty Ltd is positioned to provide you with the highest quality electrical surge protection products in the world.

Surge Diverters



SD – MULTIMOV Surge Diverters



SDN – All Mode Surge Diverters



SDD – Surge Diverters



SDH – High Voltage Surge Diverters

Surge Circuit Breakers



SCB – Surge Circuit Breakers



PP – Plug-in Surge Filters



SFD – Surge Filters 2A – 32A



HSF – Hybrid Surge Filter – 40 – 63 A

Instrumentation & Process Control Protection



SL – Slimline Signal Line Protectors



SSP6A – Slimline Series Surge Protectors



SLT – Threaded Signal Line Protectors



SLT-Y – Y Adapter for SLTx

Ethernet & CCTV Protection



RJ45 – Cat6 and PoE Surge Protection



SFD-C – Combined Power and Signal Protectors



CL – Coaxial CCTV Protectors

Coaxial & RF Protection



Cx-3 – RF Equipment Protection up to 3GHz



Cx-6 – RF Equipment Protection up to 6GHz



CEIA – RF Equipment Protection up to 50kW



EKIT – Cable Bonding Kit



CSTUB – RF Equipment Protection Tuned Stub



Industrial Automation



Our sensors are active in various areas of society. We can say that sensors are the five senses of human society as it continues to evolve. They are the hidden foundation of notice them but they are being used in places close to us. If you are careful to look, you can find OPTEX sensors here and there around town. Here we introduce a few of them.

Photoelectric Sensors



Laser Sensors



Fiber Sensor



Displacement Sensors



Color Vision Sensors





Industrial Automation

MACOME
MACOME CORPORATION

Reliable and sensitive MACOME original elements "Saturable Cores" are applied in all MACOME sensor. MAINTENANCE FREE" is our development conception. MACOME products stand long use under harsh surroundings in a wide range of applications



MC Scale

Incremental Linear Encoder
(Linear Scale).
(Air gap 7mm to 12mm)



Macome Sensor

Incremental Linear Encoder
(Linear Scale)



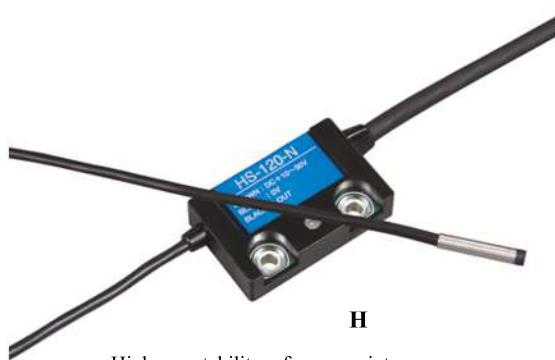
Guide Sensor

Magnetic tape type guide sensor



SW

Magnetic Proximity sensor



H

High repeatability reference point sensor



EK

Magnetic card and card reader



Industrial Automation



Ace Controls, founded in 1963, introduced the first adjustable industrial shock absorber. 60 years later, ACE is the internationally recognized expert in the field of industrial damping technology.

non-locking gas springs



Lockable gas springs



Miniature Shock Absorbers



MC5 to MC75



MC150 to MC600



MC150-V4A to MC600-V4A



PMCN150 to PMCN600



PMCN150-V4A to PMCN600-V4A



SC190 to SC925



SC25 to SC190



SC300 to SC2650

Industrial Shock Absorbers



MC33 to MC64



MC33-V4A to MC64-V4A



MC33-HT to MC64-HT



MC33-LT to MC64-LT



SC33 to SC45



MA/ML33 to MA/ML64



SALD1/2 to SALD1 1/8



SALDN3/4

Heavy Industrial Shock Absorbers



CA2 to CA4



A1 1/2 to A3



Industrial Automation

HARMO

HARMO is the expert for process improvement in injection molding and we are the only comprehensive equipment manufacturer in Japan.

MATERIAL CONVEYORS AND DUST COLLECTORS



CNII



SL(W)II, TL(W)II

Mold Temperature Controller HMC-FA Series



HMC-F743A/Ae



HMC-F12810A

TAKE-OUT ROBOT



HRXIII-30Sb/80Sb - Gb



HRXIII-80SWb - GWb



HRXIII-100/150/250Sb - Gb (Ry/Rz)



HRXIII-800/1000SWb-Rx - GWb-Rx (Rz/Ry)

BOX FILLING SYSTEM / CONVEYOR



STP-V01



STH-V01



HSCII-25



Customizable Box Filling System

GRIPPER FOR TAKE-OUT ROBOT



HC15BPX



HC15BPX-B



HC20BPX



HC20BPX-B



HC20BPX-S



Industrial Automation

B&PLUS®

B&PLUS JAPAN was launched as the Japanese member of the Balluff family of companies, headquartered in Germany as a manufacturer of sensors for major industries. In our more than three decades of experience, we have focused on wireless technology research and advancing mass production.



RCH08T-211



BES 516-325-E5TM



RCS240PH



RCS600-CA25



RHPT8 8010



RGPT-4008



BES516-324-E3R



RPTA-8015



RL64T-344(5)



RPT-1804



RPT-3008



RVT-422-201



RVT-211-22



RVT-210-102



RS8TA-222P-S04



RVTA-411-25



RTI-030-21



S Serie (High Speed)



S3-A010-PU-CN



RS16TB-211P-S04



RCD44T-211-PBC



RPT8-TSL0T



RS08T-L01



RS08T-L01



RS16TA-211D-S04



RS15T-R03D



RTT-1804



Z5-AA01N



RCD33T-211-DNC



S3-A020-PU



Industrial Automation



HIROTAKA Mfg. Co., Ltd.

PNEUMATIC POWER CYLINDER is the air cylinder where large oil volume and high oil pressure generator and hydraulic cylinder are integrated into a compact size. Air pressure is employed to generate thrust unrestrainedly from 0.5 to 44 tons and also enables high speed operation of 300mm per second. Strokes are available in lengths of 50mm to 300mm for various applications. The options such as switches, valves, and oil leakage prevention etc., are also available to provide wide selections. Enormous cost reduction and high work efficiency can be achieved by switching from a hydraulic unit to a PNEUMATIC POWER CYLINDER.



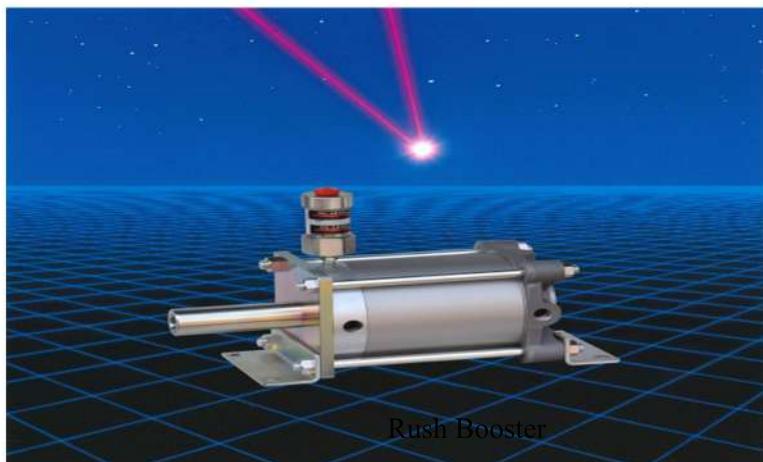
The pneumatic power cylinder is a compact all-in-one unit that combines a hydraulic cylinder with the popular pneumatic booster developed by HIROTAKA SEIKI. The long stroke cylinder delivers high thrust and high speed performance for hydraulic operations. In addition to the standard model, the product line has been expanded with the introduction of a compact miniature series.



When using the cylinder, it does not work smoothly especially the movement when saving a speed is intermittently, shaky and clinging, and sometimes cannot push to the end of stroke. Or, according to use for long time, bend the rod, wear the side of the rod metal and leak out the air..



Pneumatic Booster



Rush Booster



Free Lock Pad



Selnut



Power Pack Cylinder



Industrial Automation

Leybold

LEYBOLD, As a pioneer of vacuum technology, Leybold offers a wide range of vacuum components, standardized and fully customized vacuum solutions, complemented by vacuum technology accessories and instrumentation. Our core capabilities center on the development of application- and customer-specific systems for the creation of vacuums and extraction of processing gases.



TRIVAC B, E, AND T



DIVAC



SOGEVAC B/BI/D



ECODRY plus



MEASURING



LEYVAC



DRYVAC



SCREWLINE



RUVAC WA (U)



FITTINGS



RUVAC WH (U)



OIL BOOSTER OB



LEYBOJET



TURBOVAC i/iX



RUTA



TURBOVAC MAG



COOLVAC



COOLPOWER



PHOENIX L300i



LEYCON



GRAPHIX



CVS



SCROLLVAC



LEYBONOL



CALIBRATION



Industrial Automation



PASSION. PRECISION. PURITY.

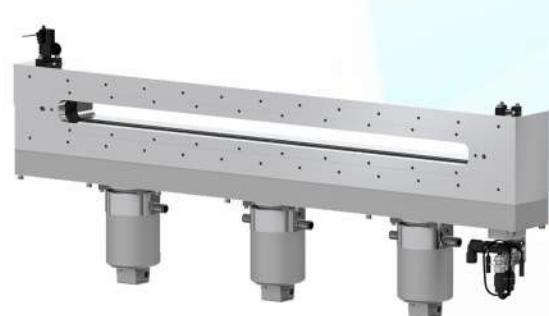
VAT is the globally leading developer and manufacturer of high performance vacuum valves, multi-valve modules and edge-welded bellows.



01.0 Mini UHV Gate Valve



01.2 Mini Gate Valve



02.7 Roll-to-Roll Transfer Valve with MONOVAT



08.1 FV Insertable Gate Valve



08.2 FV Insertable Gate Valve



09.1 HV Gate Valve with Wedge Design



10.8 UHV Gate Valve



19.2 Large UHV Gate Valve



26.5 HV Inline Valve



61.3 Butterfly Control Valve



61.6 HV Butterfly Control



62.0 HV angel Control Valve



64.2 High Vacuum Control Gate Valve



64.8 Ultra High Vacuum Control Valve



65.3 HV Pendulum Control Valve



75.0 UHV Fast Closing Valve



95.3 HV Control and Isolation Valve Combo Unit



Industrial Automation



SUMICO LUBRICANT CO., LTD.

We would like to appreciate your special support for business activities of Sumico Lubricant Co., Ltd. In 1957, we started the manufacturer that exclusively produces the lubricants which mainly contained molybdenum disulfide (MoS₂) for the purpose of effective application high-purity molybdenite, which Sumitomo Metal Mining Co., Ltd. had mined from Hirase Mine in Gifu prefecture, Subsequently.



Moly Paste 500



Moly LG-S Grease No. 2



Moly Speed Grease No. 1



Molytone CK



TFP Spray Colorless



Chain Spray



Sumimold Guard



Pinlub Spray



Lubrico 420



TFP 100 Spray



Sumiplex MP No. 2



MFG-15



Molyconc M100



Molytherm No. 2



Molytone Greases No. 2



Sumigrease EP No. 2



High Temp Oil G



Industrial Automation

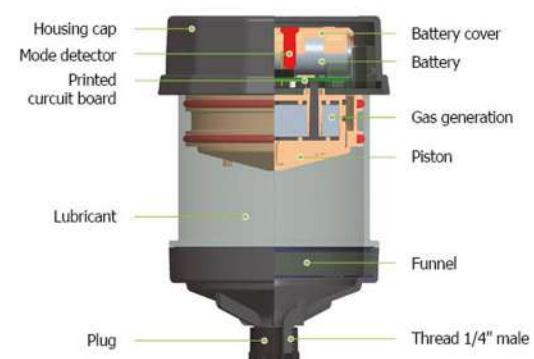


We are a specialist for automatic lubrication systems since 1993. Our flexible and user-friendly lubrication solutions are used in almost all areas of maintenance in every industry across the globe.

Flexibility and outstanding service are our core competencies. An individual, custom-built lubrication concept which is adjusted to your machines and constructions will gladly be developed by our experts.



G Lube



G Lube VIB



The display with its integrated LEDs offers very detailed status reports.



LUB-S-B
Power supply
Al battery 4.5 V



LUB-S-V
Power Supply
24Dc



Lubricus Series



G Lube Filter



Industrial Automation



As a globally operating corporate group, Masterflex specialises in solving complex connection challenges. We can now boast over 25 years worth of experience in the development, manufacturing and processing of high-tech spiral hoses. Our in-depth material and technological expertise helps us turn the most sophisticated high performance plastics into real products, which set international standards. Our core values determine our work philosophy and connect us directly with the whole group.

Chemical & Solvent Fumes



Master-PUR L-A Se

Dust Extraction



Master-Clip PUR

Vehicle Exhaust Fumes



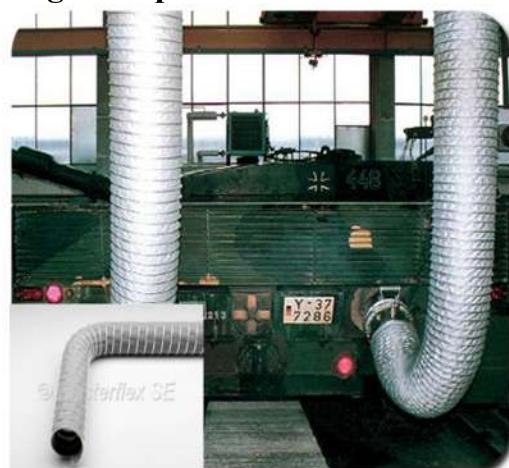
Master-SANTO H Se

Food



Master-PUR Flat L Food

High Temperature Hoses



Master-Clip HT 1100

Automotive & Motorsport



Master-SANTO L Se

Paper & Printing



Flamex B-F Se

Street Cleaning & Leaf Collection



Master-PUR L-MHR Se

Air Conditioning & Ventilation



Master-Clip VINYL



Industrial Automation



Operating elements, Clamping knobs, Clamping Levers, U-Handles, Fixed, Revolving and fold away handles, Control elements, Rotary control Indexing elements, Machine elements, Joints, Leveling elements, Hinges, Latches, Toggle power and hook clamps, Accessories for hydraulic systems.



Operating Elements



Clamping Knobs



Clamping Levers



U-Handles



Fixed, revolving,
fold-away Handles



Control Elements



Rotary Controls



Indexing Elements



Machine Element



Joints



Leveling Elements



Hinges



Latches



Hook, Toggle and power
clamps



Accessories for hydraulic
systems



Tube clamp connector
systems



Castors and Wheels



Retaining magnets



Industrial Automation



In current development of rapidly growing industrial automation. The linear motion system has grown to be the leading technology from Japan. As a pioneer of linear motion bearings, Nippon Bearing Co., Ltd. Serves in various Industries as the total liner motion system supplier.

NB Linear system components renowned as reliable and high quality products, backed by the technological advancements through NB's history, we continue to develop new and integrated products. NB's global presence is expanding on the worldwide sales network.



Ball Spline



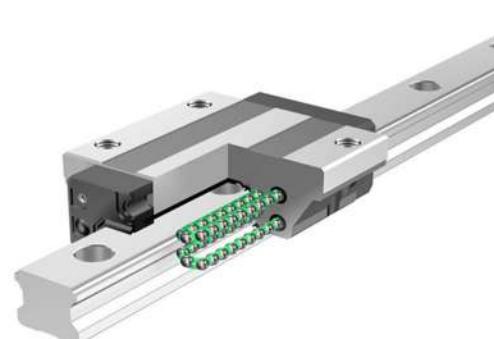
Ball Spline



Stroke Bush



Slide Bush



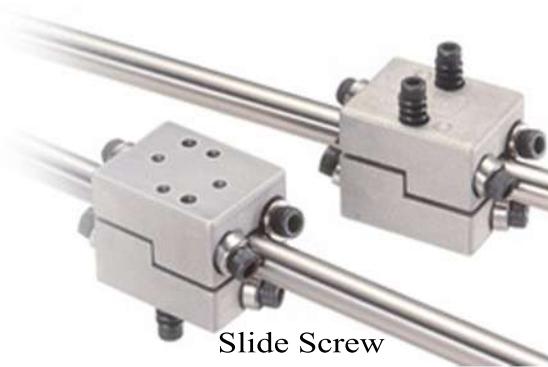
Slide Guide



Slide Guide



Top Ball



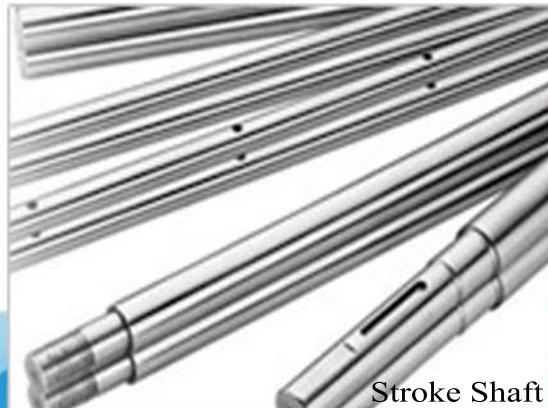
Slide Screw



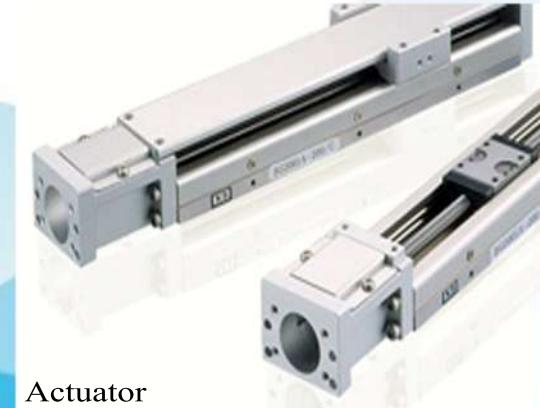
Slide Shaft



Slide Way



Stroke Shaft



Actuator



Industrial Automation



We, Kamo Seiko Corporation, develop, manufacture and sell the ball type speed reducer. TCG (Runner & Ring). Pearldex, etc Which are unrivaled, novel and useful machine elements (patented products). Under the highly competitive circumstances, we will contribute to the industries with our originality and ingenuity, while enjoying unvariable support and encouragements, so as to earnestly make a progress with the societal development in mind.



CRK (cam rack)



RGN (cam ring)



RPN (roller pinion)



JFR (thin concentric axis speed reducer)



CBR (orthogonal axis speed reducer)



SFP (TCG for speed reducer)



BBR (high reduction ratio speed reducer)



BR (standard concentric axis speed reducer)



BRA (corner speed reducer)



PDW series



PIS (precision cam curve equation indexing equipment)



MD (intermittent pneumatic indexing equipment)



MT (intermittent pneumatic indexing equipment)



PDB Series



Industrial Automation

New-Era

We are distributor of New-Era Automation offers the widest range of Mini rotors, Mini hands, Solenoid valves, Air grippers, Slide unit, Air Cylinders, Vane Rotary Actuators, Arm unit cylinders, Parallel slides, Parallel grippers, Compact grippers, Combined guided cylinders. Linear bearing cylinders, Sensor embedded slim cylinders.

F Series



Pico table
PPT20 Series



Micro table
FMT Series



Pico positioner
PXY Series



F Cylinder
JKX Series

Grippers



Parallel gripper
EHPE Series



Angular gripper
EHVE Series



Mechanical gripper
HP10 Series



Original gripper
NEOK Series

Rotors & Valves



RS01 B Series



Rotor table RT02 Series



Rotor gripper
RH01 Series



Solenoid valve
TZ Series

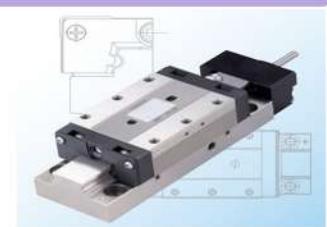
Cylinders & Electric Actuators



Vacuum cylinder
VC01 Series



Panel cylinder PN Series



One shaft actuator
DNPT Series

Switches



RA Series



RP Series



RX1 Series



TB (RC) Series



Industrial Automation

Shinko

SHINKO TECHNOS RESEARCH & DEVELOPMENT CO., LTD.

provide essential services such as medical, environmental and energy industrie

At Shinko Technos Co., Ltd., we are dedicated to providing support for a more prosperous society, as we have been doing for over half a century.. Our temperature measuring controls have been used to support various industries from manufacturers of plastics and rubber, food and packaging, to textiles and ceramics. Our products also support industries which



Digital Temperature
Indicating Controller
ACN-200



Digital Indicating Controller
ACS-13A



Digital Indicating Controller
BCx2 series



2ch Oven Controller
BOC-600



DIN Rail Mounted
Indicating Controllers
DCL-33A



Hand-held Digital
Thermo-hygrometer
DFT-700-M



Indoor Type Temperature
Sensor DSW-100



Hybrid Recorder
HR-700 Series



Programmable
Controller
PCA1



Touch Screen
Programmable Controller
PCT-200



Modular Controllers
QX1 Series



PLC Interface
Unit SIF-600



PLC Interface
Unit SIF-400



Thermostat
SS-100



Plug-in 2ch Digital
Indicating Controller
WCL-13A



Industrial Automation



Contec designs, develops and manufactures highly reliable, long-life and rugged industrial computers. Leveraging our expertise in the Factory Automation (FA) industry has allowed us to expand our business and quality product offerings to the growing Information and Communication Technology fields, including digital signage, healthcare, and energy.



PCI Analog I/O Card



PCI Digital I/O Card



Conprosys
CPS-MC341 series



Conprosys
CPS-MCS341-DS1 series



BX-800 series



BX-M2500



HMI Touch Panel Display



VPC 2000 series



PANEL PC PT-S958



BX-200 series



CAB since more than 40 years develops and manufactures solutions for product marking and a large amount of accessories for any demand. The product range includes label printers, print and apply systems, label dispensers and marking laser systems. In addition, cab provides labels and thermal transfer ribbons for the perfect imprint. Components as well as means of laboratory, testing and production are still offered.



Mach 1



EOS 4



Mach 4S



Squix Applicators



Squix



A8+



XD4T



Hermes C



Industrial Automation

YTS®

AODD Pumps



Orientalmotor



Induction Motors



Electromagnetic Brake Motors



Parallel Shaft Gearheads

Low-Speed Synchronous Motors
SMK Series





Industrial Automation

CKD

CKD offers complete line of control components of superior value and reliability, through our experience in this field over forty years. Including : Clean Air System, Pneumatic System Components, General Purpose Valves, System Equipment.



Compact Cylinder
SSD series



Linear Slide Cylinder
LCR series



Guided Cylinder
STG series



Cylinder Double Acting
STR2 series



Filter Regulator
W series



Hand Valve
HMV/HSV series



Cylinder Single Acting
SCA2 series



CVS2 Series



AB21 Series



4KA/B Series



Medium Bore Size
CMK2 series



Air Filter F
Series

REHAU®

Rehau's fine bubble aerator systems represent the finest in German engineering and production technology.

Systems Overview



HOW IT WORKS



RAUBIOXON PLUS
(Silicone)

RAUBIOFLEX (EPDM)

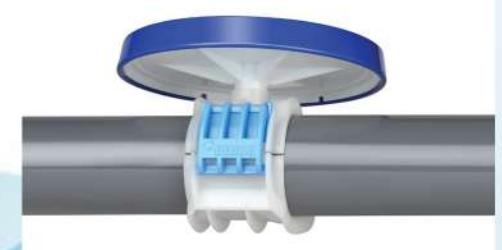


High temperature
resistance of
up to 120° C



High temperature
resistance of
up to 80° C

Quick saddle
lock connection





Industrial Automation



Ideas that sell "ISEL" is a company name that says it all. Every way we do business is reflected in the name that condenses our concept. Product sales are just a part of what we do because we create exactly what customers are looking for using our imagination, expertise and effort. This is how we can offer original products that are true solutions exactly tailored for them. "Ideas to innovate" Together with our customers, we partner them to face the future by offering them revolutionary ideas.

Mechalock



MC

Aluminum type



MKA

Standard type (Electroless nickel plating type)



MSA

Standard type (Stainless steel type)



MA

Standard type



MB

High torque transmission type



MT

General use type

Coupling



ACS

Flexible coupling (Single disk type)



AL

Large flexible coupling (Double disk long type)



E

Flexible coupling (Oldham type)



AHD

Flexible coupling (Double disk type)



N

Rigid coupling (Nut type)



AHS

Flexible coupling (Single disk type)



Tsubaki products contribute to society through use in a wide range of fields and in a variety of applications.



Rubber Belts



Lock Pulley



Fitbore



Gear Motor



Large Size Conveyor Chain Sprockets



Timing Pulley Standard



Gear Box



Industrial Automation



Since 1939, WIX® Filters has been an innovator in filtration products. WIX designs, manufactures and distributes products for automotive, diesel, agricultural, industrial and specialty filter markets. Its product line includes oil, air, cabin interior, fuel, coolant, transmission and hydraulic filters for automobiles, trucks, off-road equipment and manufacturing applications.



AQUACHEK FILTERS FOR COMPRESSED AIR SYSTEMS



WIX INDUSTRIAL FILTRATION



HEAVY DUTY FILTERS

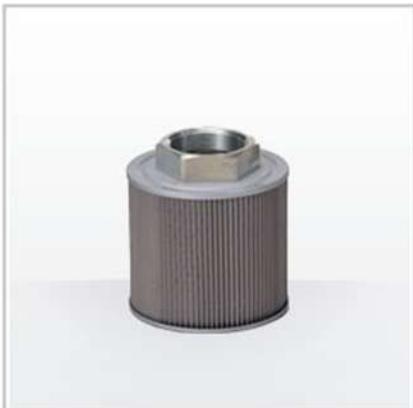


AUTOMOTIVE AND LIGHT TRUCK FILTERS



Taisei Kogyo Co., Ltd responds to the needs of the customer with extensive experience and dependable technical skill.

Suction Strainer
SFT



Suction Line Filter
VM



In-line Filter
LND



Duplex Filter
BOS



Return Line Filter
TRF



Cartridge Filter
CS



Breather



Off-line Filter
FP-400Y





Industrial Automation



Mercotac®, Inc. was founded in 1978 to manufacture unique, high quality, low cost rotating electrical connectors. The original design was actually conceived decades before in order to provide a superior high fidelity connection to spinning Leslie organ speakers.

One Conductor



Model 110

Three Conductor



Model 305

Two Conductor



Model 205

Four Conductor



Model 430

Six Conductor



Model 630

Eight Conductor



Model 830



Bio-Circle Surface Technology GmbH is an international enterprise headquartered in Gütersloh, North Rhine-Westphalian. Founded as a kind of garage start-up by graduate engineers Ulrich and Manfred Berens in 1985, the company has since been standing for the development, production and sales of innovative chemical and biotechnological products in the field of surface technology.



PROLAQ-Compact



BIO-CIRCLE SL-i Compact



BIO-CIRCLE GT-Maxi



BIO-CIRCLE GT Compact



BIO-CIRCLE GT-i Maxi
With Stainless-Steel
Top 1000 KG



BIO-CIRCLE L EVO



POWER CLEANER KST 2.0



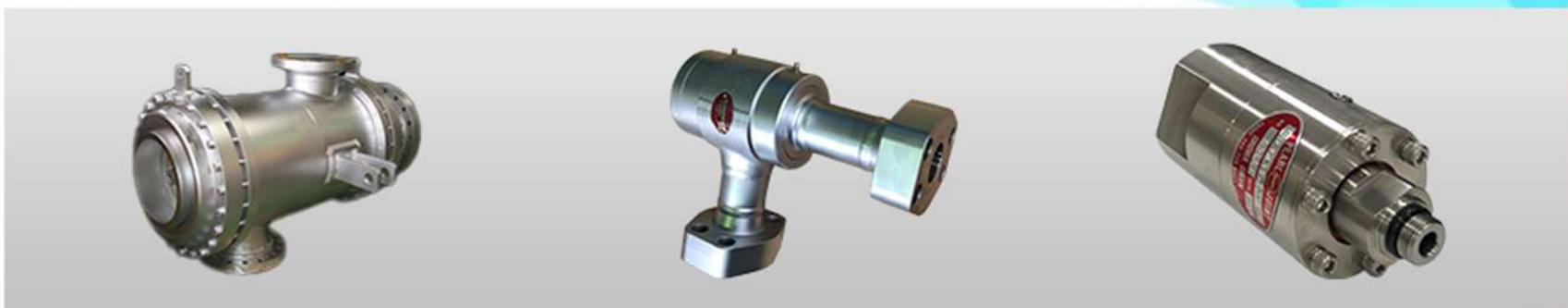
ALUSTAR 500



Industrial Automation



To support industrial innovation by providing high-quality custom joints to a wide range of influential manufacturers across the globe.



Large Joint

SK Type, Swivel Joint

SR1417



KC series

NX series

CSO Type, Swivel Joint



SX3015

OPM series

Multiport Product With Mechanical Seals



Since 1979, TAC has kept supplying our products (Spindle motors, Drill units, Tap units, Mechatro cylinder, and vertical Drilling and Tapping machines) to the world.

SPINDLE MOTORS



Spindle

ATC

STAND SERIES



Rigid Drill Tap Stand

Auto Tapping Stand

Rigid Drill Tap Unit



TAP UNITS

Tap Unit

Mechanical Feed Drill Unit



DRILL UNITS

Drill Unit for Light Load Cutting





Industrial Automation



With energy and environment technology as its core technology, Fuji Electric contributes to the creation of responsible and sustainable societies through its five business segments: Power and social infrastructure, Industrial infrastructure, Power electronic, Electronic devices, and Food and Beverage Distribution.

DRIVE & AUTOMATION



Inverter



Premium AC Drive
Frenic VG Series



AC Drive HVAC, Fan & Pump
Frenic HVAC / AQUA series



AC Drive for Elevator
Frenic LIFT



Servo Motor



PLC



Synchronous Motor



HMI

PATLITE.



LKEHFE/EX Explosion
safe alarm/
Melody Hybird



RT-A/C/D/E 162mm
Revolving Warning light



KJT 116mm Square
Revolving Light



LR6 Series 60mm



LGE 100mm
Large Signal Tower



LMS 60mm



PHE-3FB2



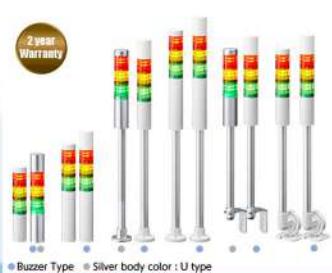
LR4-WC
40mm LED Signal Tower



VE25-304SU
Real Time



LR5 Series
50mm LED Signal Tower



LR4 Series
40mm LED Signal Tower



RFV



RLE



WDR-LE-Z2
Wireless Data
Acquisition System



WDT-4LR-Z2



Industrial Automation



On September 1st, 1946 the Master machine builder Ludwig Boschert founded our company. Very soon the small company was known for its good quality workmanship and it grew quickly. Shortly thereafter the young company was taken over by the Kunz family.



Safety Chuck - VT Chuck



Sliding Chuck



Special Safety Chuck



Pneumatic Chuck
Automatic Chuck A50 / A80



Safety Chuck - C Chuck



ESB



Pneumatic Chuck - P Chuck



Accreditation of the new JIS Mark on the pressure gauges.. Development, production, and sales of pressure gauges, thermo sensors, thermometers and measuring-related devices.



Sealing Case
Pressure Gauge



Standard
Pressure Gauge



Stainless Steel
Pressure Gauge



Plastic case
Pressure Gauge



Glycerin bath
Pressure Gauge



Pressure Gauge with
Electric Contacts



Small Size
Pressure Gauge



Twin Needle
Pressure Gauge

Thread and Tube Size Full Scale Chart

PISCO®

■ If you do not know exact size of your equipment, confirm it by using reference table below.

● Taper pipe thread & National Pipe Thread Taper

		About 9.8mm	About 13.2mm	About 16.7mm	About 21mm
Taper pipe thread	Size	R (PT)1/8	R (PT)1/4	R (PT)3/8	R (PT)1/2
	Code	O1	O2	O3	O4
National pipe Thread Taper (American standard)	Size	NPT1/8	NPT1/4	NPT3/8	NPT1/2
	Code	N1	N2	N3	N4

● Metric thread & Unified thread

		M3×0.5	M5×0.8	M6×0.75 M6×1	M8×0.75	M10×1	M12×1
Metric thread	Size	M3	M5	M6	M8	—	—
	Code	M3	M5	M6	M8	—	—
Unified thread	Size	—	No.10-32UNF	—	—	—	—
	Code	—	U10	—	—	—	—

● Tube diameter (mm size & inch size)

mm size	ø1.8	ø2	ø3	ø4	ø6	ø8	ø10	ø12	ø16
code	180	2	3	4	6	8	10	12	16
inch size		1/8	5/32	3/16	1/4	5/16	3/8		1/2
code		1/8	5/32	3/16	1/4	5/16	3/8		1/2

● Tube OD & ID Chart

Tube OD	Metric (mm)	ø1.8	ø2	ø3	ø4	ø6	ø8	ø10	ø12	ø16				
	Inch mm in ()				1/8 (ø3.18)	5/32 (ø4)	3/16 (ø4.76)		1/4 (ø6.35)	5/16 (ø8)	3/8 (ø9.53)		1/2 (ø12.7)	5/8 (ø16)
Polyurethane-based	ø1	ø1.2	ø2	ø2	ø2.5	ø2.99	ø4	ø4.15	ø5	ø5.99	ø6.5	ø8	ø8.5	ø11
Nylon-based				ø2	ø2.5	ø2.99	ø4	ø4.57	ø6	ø6.99	ø7.5	ø9	ø9.56	ø13
Olefin-based					ø2.5		ø4	ø4.15	ø5	ø5.99	ø6.5	ø8	ø8.5	
Fluorine-based					ø2		ø4	ø4.57	ø6	ø6.99	ø7.5	ø9	ø9.56	ø13
					ø2.5									

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



Industrial Automation

GENERAL PRODUCT LISTS

AUTHORIZED DISTRIBUTOR	JOHNSON CONTROLS	PATLITE
NIHON PISCO	JOUCOMATIC	PB SWISS
KONAN	KANETEC	PERMA TORK
DAIKIN	KEYENCE	REXROTH
IAI	KHK	RKC
IDECK IZUMI	KHOZU SEIKI	ROSEMOUNT
HIROTAKA	KIPP	SAKAI
NIPPON BEARING	KOGANEI	SANGYO
IHARA SCIENCE	KOKUSAI	SANKI
LEYBOLD	KONDOH	SANKYO
CONTEC	KOYO	SANWA
TAC GIKEN	KUBLER	SANYO DENKI
ELESA GANTER	KURASHIKI	SANYU
MASTERFLEX	KYORITSU GOKIN	SAWAMURA
OPTEX FA	KYOWA	SAYAMA
KAMO SEIKI	LINE SEIKI	SEEKA
SHINKO	LUCIFER	SEISA
WIX	MAIKIKO	SHIMPO RING CON
OTHER PRODUCT	MAKISHINKO	SHINKO TECHNOS
AIRFLEX	MARUYASU	SHOWA DENKI
AMERICAN DENKI	MELEC	SIDEL
ANLET	MIKI PULLEY	SKK
ASAHI	MITSUBISHI	SMC
ASCO	MITSUBOSHI	SUGAWARA
ASK	MITSUHASHI	SUGINO
AZBIL	MITSUMI	SUJI SEIMITSU
BALDOR	MURATA	SUMITOMO
BANNER	NACHI	SUN-X
BAUMER ELECTRIC	NANABOSHI	SWAGELOK
BIMBA	NATIONAL/PANASONIC	TAIHEI BOEKI
BOSCH	NBK	TAIYO
BURKERT	NIHON MINIATURE	TAKAMISAWA
CHIYODA ELECTRIC	NIKKI DENSO	TAKEDA WORKS
CKD	NIPPON FLOW CELL	TAKENAKA
CONVUM/MYOTOKU	NIRECO	TAKICO
COREMO OCMEA	NISCON	TAKIGEN
COSEL	NISHIMURA	TAKUWA
COSMIC	NITTA	TAMAGAWA SEIKI
CROUZET	NKE	TRUSCO
DAIDO	NMB	TEIJIN SEIKI
DAISAN KOGYO	NOK	THK
DENSO	NSD CORPN	TOKIMEC
DKK	NSK	TOSHIBA
EBARA	NTN	TOSHIBA ELECTRON DEVICES
EDWARD	NUMATIC	TOSHIBA SEIKI
ENIDINE	OGURA	TOWA
FUJI SEIKI	OILES	TSUKASA
FUKUDA	OKAYA ELECTRIC	ULVAC
GEAR	OKCMO	UNION TOOL
GTR NISSEI	OLYMPUS	VICKERS
HITACHI	OMRON	WENGLOR
HOKUYO	ONO SOKKI	YAMADA
IFM ELECTRIC	ORIENTAL	YAMAHA
IKO	ORIGIN	YAMAMOTO
ISB	ORII	YAMATAKE HONEYWELL
ISEL	ORION	YASKAWA
ITOH	OSAKIDENGYOSHA	YOKOGAWA
IWAKI	PARKER	YOKOHAMA
JAPAN SERVO	PASCAL	YUKEN

Note :



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