



Power Transmission – Conveyor Systems
Motors and Drives – Servo Automation

PRODUCT GUIDE

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CONTENTS

TRANSMISSION PRODUCTS



Mounted Bearings & Bearing Housings
PAGE 9



Chain & Sprockets
PAGE 10



Automatic lubricators
PAGE 12



Couplings
PAGE 4



Gearboxes
PAGE 5-6

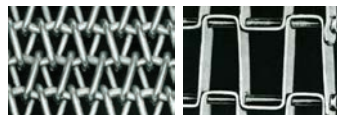
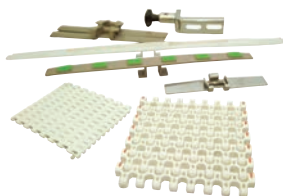


Transmission products
PAGE 7

CONVEYOR PRODUCTS



Conveyor belting and chain
PAGE 10



Wire mesh belting
PAGE 11



Conveyor rollers and components
PAGE 11

PUMP TECHNOLOGY



Wine Pump Controllers
PAGE 22



Dairy pump Controllers
PAGE 23

DRIVE PRODUCTS



A.C. Variable speed drives
PAGE 14-15



Actuators
PAGE 12



Motors, Drives and
Power Transmission
PAGE 13/ 17/ 19



Servo motors & Motion Controls
PAGE 20



Miniature & Precision Drives
PAGE 17

AUTOMATION PRODUCTS



Touchscreens
PAGE 18



PLC's
PAGE 18



Linear Motors
PAGE 19

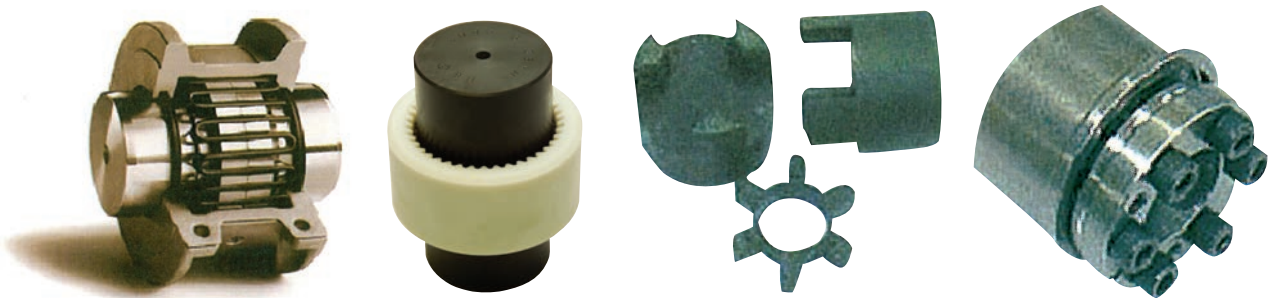
For more detailed information regarding any of the products listed in this guide, please contact your nearest John Brooks branch who will put you in direct contact with your area Sales Engineer or visit the John Brooks website.

WWW.JOHNBrooks.CO.NZ

Visit our website for additional information, product datasheets and more.

COUPLINGS

JOHN BROOKS CARRIES A VARIETY OF COUPLINGS.
LARGER COUPLINGS ALSO AVAILABLE TO ORDER.
THE RANGE INCLUDES THE FOLLOWING:



BIBBY SHAFT COUPLINGS (Taper Grid Resilient Coupling), which give positive protection against the damaging effects of shock impact loads and vibration.

POGGI CROWNED AND BARRELLED TOOTH COUPLINGS (Gear couplings) using steel hubs and polyamide nylon outer sleeve.

POGGI GH FLEXIBLE SHAFT COUPLINGS for Electric Motors, which absorb shock and give high abrasion and wear resistance, as well as accommodating mis-alignment.

POGGI TORQUE LIMITERS AND SAFETY COUPLINGS
Providing overload protection to machinery.

QUANTUM LOCKING ASSEMBLIES that are a replacement for taper lock bushes.

ATRA-FLEX FLEXIBLE COUPLINGS
The quick, low cost solution for coupling maintenance problems.
Available in Stainless Steel.

DODGE PARA-FLEX COUPLING
Tyre Coupling employ a non-lubricated elastomeric flexing member loaded in shear.

ELTRA ZERO-BACKLASH COUPLINGS



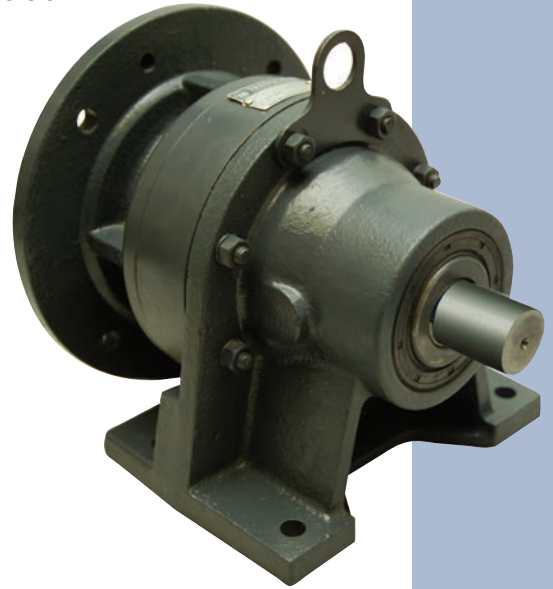
CYCLOIDAL GEARBOXES

BROOKSCYCLO

Hollow input, concentric shaft cycloidal gearboxes designed to accept standard IEC flanged motors. We offer a wide range of sizes and ratios at competitive prices.

ADVANTAGES OF USING A CYCLOIDAL DESIGN OVER A CONVENTIONAL GEAR TOOTH DESIGNED REDUCER ARE:

- Rolling elements ensure high Mechanical & Thermal Efficiency
- Shock overload rating of 500% as gear forces are predominantly radial rather than tangential
- Ideal for stop/start operations
- A wide range of models and sizes with reductions 6:1 through 7569:1 in either single or double reduction
- High overhung load capacity
- Long Life - Low Maintenance



WORM REDUCERS AND MECHANICAL VARIATORS

BROOKSDRIVE

Any of our Metric IEC frame AC or DC motors can be incorporated with our Brooksdride gearboxes to make a cost effective gearmotor. As dimensionally identical copies of motovario boxes its main features are:

- High quality, light weight aluminium alloy housing and non rusting
- Large output torque
- Smooth running and low noise
- High radiating efficiency
- Good-looking appearance, durable service life and compact design
- Suitable for Torque Arm installation



WORM, HELICAL, BEVEL HELICAL AND PLANETARY GEARBOXES



Our range of Tramec gearboxes are manufactured from either high quality aluminium or G20 cast iron. The range includes the following -

- Worm Reduction Units
- Bevel Helical Gearboxes
- Motorised Mechanical Variators
- In-line Helical Gearbox



These boxes have a hollow output, can be fitted with a single or double output shaft and can be mounted in any one of 12 different positions.

A range of input flanges and motor shaft adaptors are available, allowing direct connection of 56-90 Frame IEC motors.

Torque arms are also available.

Tramec boxes are lubricated for life with synthetic oil.

Low backlash planetary gearboxes to fit most servo or stepper motors in 4 sizes and ratios from 3 to 343:1. These little boxes will deliver an amazing amount of torque compared to a standard helical worm box with over 95% efficiency.



TIMING PULLEYS AND TIMING BELTS

JOHN BROOKS SUPPLIES BOTH IMPERIAL AND METRIC BELTS AND PULLEYS.

This includes MXL, XL, L, H, XH, and XXH in the imperial range and 3M, 5M, 8M, 14M, 20M, T5 and T10 in the metric range.

We also offer a very cost effective, Custom pulley making service for rare, special or hard to find pulleys.



V BELTS

Roulunds raw edge V-belts were specially developed to meet exacting demands regarding power output and smooth running.

- Heavy duty raw edge Cog Belts are stocked in the Classical range ZX,AX,BX,CX and DX and in Wedge XPZ, XPA, XPB, XPC
- We also stock POLY V BELTS
We may also be able to find that more elusive belt so don't be afraid to ask
- Available from stock are GARDEN BELTS AND POWER RATED BELTS for the agricultural industry.
- Also available on request are BANDED V BELTS, DOUBLE SIDED BELTS and FLAT BELTS.
- Another range available from stock is VOLTA ROUND BELTING that can be cut to size and either joined at the workshop or on site.



VARIABLE SPEED & STATIONARY ADJUSTABLE PULLEYS

To accompany the V Belts, we also stock or can obtain at short notice a range of V Pulleys. This range includes Taper lock, Biloc, Stenco, stationery adjustable, cast iron and Hi Lo variable speed pulleys.



ROD ENDS AND SPHERICAL BEARINGS

To meet the high demands of the USA Space industry the Aurora Bearing company has been manufacturing rod ends and spherical bearings since 1971.

As well as a full range of standard products, Aurora designs and manufactures special bearings to meet a variety of applications that require custom engineered units or special materials.

Besides steel rod ends, Aurora also manufacture a range of PTFE lined rod ends and bearings.



MOUNTED BEARINGS

PATENTED SEALING OPTIONS

An ineffective seal will allow contaminants into a bearing, which will cause premature failure. However, with Dodge bearing inserts, you get two exclusive seals for improved sealing protection. Available in metric & imperial bore dimensions.

For dirty environments, low-to-medium speeds, and normal ambients, these inserts feature our proven TRIDENT seal. Made up of nitrile material, this triple-lip rubbing seal assures a low coefficient of friction, and its seal land maintains full seal contact when misaligned.

For high speeds and higher ambients, the IMPERIAL SERIES inserts offer labyrinth seals with corrosion-resistant flingers and a clearance steel seal carrier.

DODGE®



TIME SAVING REMOVAL AND REPLACEMENT DESIGN

1. Steel cage provides precision roller guidance
2. Outer ring riding two-piece guide ring minimises heat generation
3. Tapered seal land maintains full contact when misaligned
4. Patented Nitrile triple lip seal resists heat & chemical breakdown
5. Ease in mounting & dismounting with patented adapter system
6. Adapter sleeve improves concentricity and reduces inherent vibration



PLASTIC BEARING HOUSINGS AND CONVEYOR COMPONENTS

TECOM OFFER BELOW:

- Corrosion resistant
- Lubrication and maintenance free
- Light weight and low friction resistance
- Long life
- Good alternative substitute for stainless steel bearings
- Temperature resistance up to 350 deg C
- Bearing Housings available in Pillow Block, Flange and Take-up.

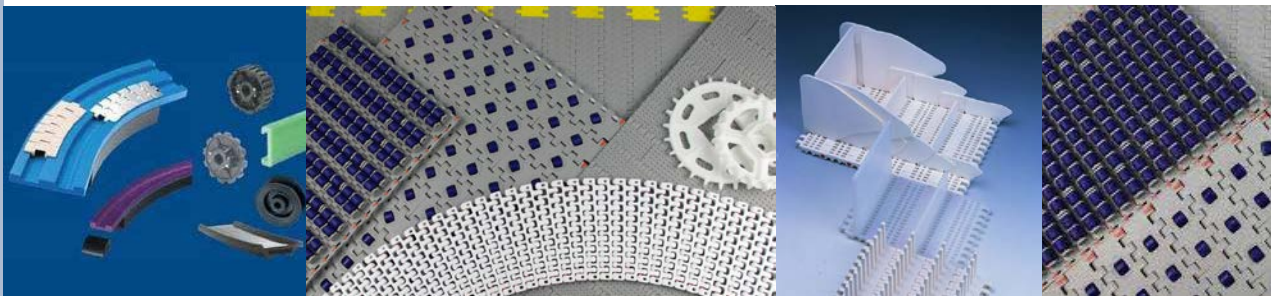


CONVEYOR CHAINS, BELTING AND CONVEYOR COMPONENTS

As Italy is recognized as suppliers of premium quality Slat Band chain and conveyor components, John Brooks are distributors for Magris who for over 40 years have been producing quality slat band chain & components to the international market.

Sizes stocked include 812, 820, 880 and 881 slat band chains in low friction Acetal, with split sprockets and wear strip.

The range of Magris products is developed to be used in a large number of industrial applications like packing, glass, bottling, pharmaceutical, chemical, food & mechanical industries.



TRANSMISSION CHAIN

INDUSTRIAL ROLLER CHAIN

John Brooks is the importer and distributors of high quality DID (DaidoKogyo, Japan) industrial roller chain. Shelf stock includes both BS and ANSI(ASA) in a wide range of pitches and materials, including O-ring, X-Ring and corrosion resistant chain. Agricultural and specialised conveying chains are available ex-stock or to order.

DID X-Ring roller chain will provide up to 30 times the wear life of standard chain.

ROLLER CHAIN SPROCKETS

Fully machined steel sprockets in all popular BS pitches and sizes. ANSI sprockets and double pitch sprockets for conveying chains available on short delivery. Specialised sprockets made to order.



LINEAR MOTION



HEPCO MOTION;
World leaders in linear motion,
V guides, circular continuous motion.



ROLLER CONVEYORS, SYSTEMS & COMPONENTS



SKATE WHEELS
Versatile product that can be used in a variety of applications



DYNOPIPE ROLLERS



POWERED ROLLER
Powered Accumulation Conveyors
Safe Quiet, efficient



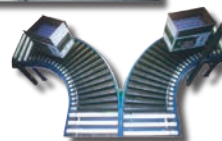
BEARINGS & ENDCAPS
A large range of bearings and endcaps



STAINLESS STEEL ROLLERS



LIGHT ROLL
Light weight galvanised
Gravity with conveyors



EZYROLL
A robust gravity conveyor with a range of rollers to suit

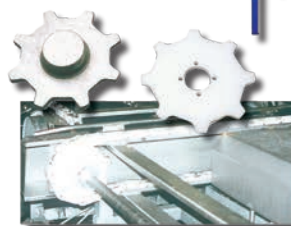


GALVANISED ROLLERS

MULTIDIRECTIONAL ROLLERS



MINIROLL
Robust roller system with multiple uses



DYNO CHAIN
Thermoplastic chain and components

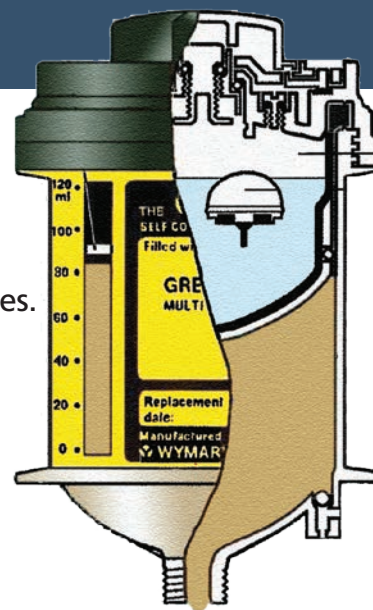
TRANZBELT CHAIN



AUTOMATIC LUBRICATORS

- Injects lubricant continuously for a preset period of up to 12 months.
- Screws directly to a std grease nipple socket.
- Gas operated output.
- Activated by chemical reaction, requires no batteries.
- Approved for hazardous areas.

Many more features included. Ask to see the Wymark brochure to view these features. Available in a range of greases and oils for different applications.



ACTUATORS

Linak offer a large range of Low Voltage DC acme thread actuators for Healthcare, Industrial and furniture applications including power supplies and controls.



Edrive actuators are high load precision ball screw actuators suitable for direct or belt driven connection to Servo and AC motors. Their rugged construction make them suitable for heavy shock loads experienced in the Timber Industry.



Servomech Ball screw and acme thread actuators are designed for connection to all types of motors including ATEX applications. Available with centre pivot mount for long stroke installations. Screw jacks with traveling nut and traveling screw offer transfer of large loads in compact and tight locations.



A.C. & D.C. MOTORS



ABB • Baldor is one of only a handful of companies that designs, engineers and manufactures motors and drives.

BALDOR PRODUCTS INCLUDE

- Thyristor Drive Permanent Magnet D.C. Motors to 3.7 kW
- Tachometer - generators & mounting accessories
- Low Voltage D.C. motors & controls
- A.C. and D.C. Gear Motors
- A.C. Flux vector & inverter controls, motors & accessories
- Paint free & wash-down duty AC. motors
- TXT Torque-Arm Shaft mounted reducers
- Quantis gearmotors & reducers
- AP Aluminium Motors



WASHDOWN STAINLESS STEEL MOTORS & GEARBOXES

- Tema Stainless Steel motors & gearboxes are designed & manufactured to operate in extreme conditions. Rated to IP67 they can withstand conditions with high ambient temperatures, high humidity, water & steam.
- All motors are supplied with a 1 metre cable and are tested under water as part of the standard testing.
- While Stainless Steel motors & Gearboxes have a higher Capital Cost than traditionally used Cast Iron or Aluminium units they can result in significant cost savings over their life cycle.
- Cast iron & aluminium units regularly fail when subjected to water, steam, chemical cleaning & outdoor use especially in coastal areas. Add in the lost downtime to the replacement cost & Stainless Steel motors & gearboxes become a viable option with their long service life.
- Standard IEC metric frame with B5, B14 flanges. We can even supply Tema motors with flanges to suit other manufacturer's of gearboxes making retrofitting your existing plant a simple procedure.

All Tema motors have received CSA Approval and have been certified under USA PREMIUM EFFICIENCY and MEPS.



D.C DRIVES/CONTROLLERS

KB controls dominate the fractional to 3.7kw A.C and D.C. Motor Speed Control market.

SOME OF THE FEATURES OF KB CONTROLS ARE

- Patented Direct-Fed CL circuit
- Current feedback priority
- Timed current limit (Electronic Overload Protection)
- Plug-in Horsepower resistor
- Current selection, quick jump
- Short circuit protection
- Active PWM power bridge



*"The Right Control
for Your Application"*

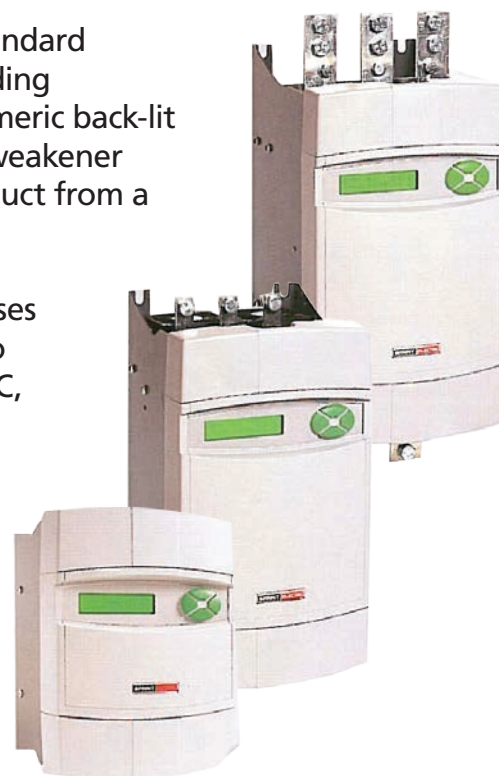


DIGITAL DC DRIVES/CONTROLLERS

The Sprint PL/ PLx range has an extensive libraries of standard software blocks, it can take control of the most demanding motion tasks. All models include 40 character alpha-numeric back-lit displays, a full set of centre winding blocks and a field weakener function for extended speed range. A high quality product from a world leading company. UL, CuL and CE approved.

Available in both 2Q and 4Q versions, the range comprises 3 very compact chassis sizes with models rated from 5 to 265 kW. Drivelink software allows easy setup from your PC, plus trending & logging.

**INCLUDES FREE PL PILOT
CONFIGURATION AND MONITORING
SOFTWARE**



A.C. DRIVES/CONTROLLERS

The Teco range not only consists of A.C. controllers but also includes Controllers with a built in PLC. There is also a special pump and fan series.

Controllers range from 0.2kw through to 75kw with the basic E2 and 7300CV sensorless vector. The new 510 Series for ready configured pump control of constant pressure or flow, vector and brushless motor control.

PLC built into 7300CV & A510 control to satisfy small automation solutions, eg lifts, cut to length etc

KB Electrics have been in the forefront of DC and AC drives in both chassis form and KB's AC drives provide variable speed for 3Ø AC Induction motors from 1/8 through 5 HP. For OEM applications, custom drives are also available for Brushless DC, PMSM, PSC, and Shaded Pole motors. They are available in 115, 208/230, and 400/460 VAC – 50/60 Hz with 1Ø and 3Ø input. Enclosure types include Chassis / IP20, NEMA 1 / IP20 & IP50 and NEMA 4X / IP65. The NEMA 4X / IP65 drives are housed in a rugged die-cast aluminium enclosure with a hinged cover.

ABB machinery, standard and Industrial drive portfolios include numerous applications such as general machinery, food and beverage, HVAC with specific features for building management solutions including BACnet and KNX.

Heavy Duty Industrial applications have a complete drive range from ABB that delivers the extra capacity that is required in these applications. Engineered solutions requiring Torque control and Speed control are easily achieved.

Product Range from 0.37kW to 355kW



TECO



"The Right Control
for Your Application"



ABB



HIGH PERFORMANCE INDUSTRIAL MOTION CONTROL

Trio Motion Technology is a specialised supplier of high performance motion control technology. They manufacture flexible and economical solutions for motion control applications, enabling control of complex high speed automation and machine control in many industries throughout the world.



- 1 to 64 axes of Motion
- Compatible with servo motors, stepper motors, piezo motors or hydraulic systems.
- Common user interface and standard programming language
- Communicates through all main bus options
- Mounting options include bus mount, rack mount and standalone
- Flexible and modular

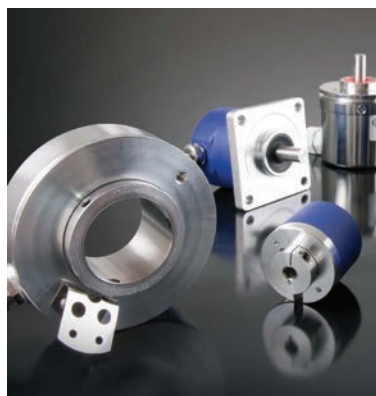
ENCODERS-LINEAR & ROTARY, INCREMENTAL & ABSOLUTE

More than 4000 options (Incremental, Absolute Encoders, Sensors, Linear Transducers and accessories), one of Eltra's strengths is to deliver custom solutions based on customer specifications.

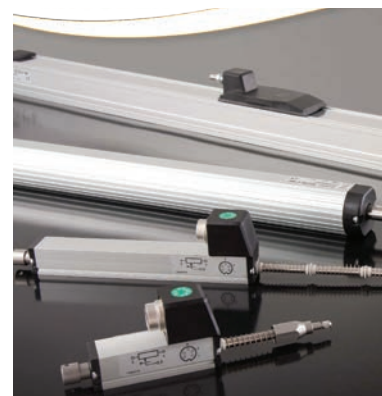
ABSOLUTE ENCODERS



INCREMENTAL ENCODERS



LINEAR TRANSDUCERS



MINIATURE & PRECISION DRIVES

Orientalmotor

AC MOTORS



Standard AC Motors operate by simply connecting a capacitor and supplying power from a commercial power supply. Standard AC Motors include the basic induction motor and reversible motor. In addition, Oriental Motor offers electromagnetic brake motors, synchronous motors, torque motors and watertight, dust-resistant motors to meet specific application requirements.

BRUSHLESS MOTORS / AC SPEED CONTROL MOTORS



Brushless motors / AC speed control systems are ideal for applications that require the precise control of speed. Brushless motors / AC speed control systems can be either highly efficient brushless motors or simple-to-use AC motors. The function and the performance required for these motors are wide-ranging. When focusing attention on the speed control segment of the motor market, servo and stepper motors control their speed with a pulse train, while the induction motor and the brushless DC motor control speed with an external resistor and/or DC voltage.

STEPPER MOTORS



Stepper motors are used to achieve precise positioning via digital control. The motor operates by accurately synchronizing with the pulse signal output from the controller to the driver. Stepper motors, with their ability to produce high torque at low speed while minimizing vibration, are ideal for applications requiring quick positioning over a short distance.

SERVO MOTORS



The servo motor is specialized for high-response, high-precision positioning. The servo motor is composed of three elements: the motor, the encoder and the driver. As a motor capable of accurate rotation angle and speed control, it can be used for a variety of equipment. The tuning-free servo motor and driver package in the NX Series are easy to operate and allows for smooth operation with large inertial loads and belt mechanism. Motor offers electromagnetic brake motors, synchronous motors, torque motors and watertight, dust-resistant motors to meet specific application requirements.

LINEAR & ROTARY ACTUATORS



A linear motion product incorporating a motor and linear-motion mechanism. Drawing on our expertise as a motor manufacturer, Oriental Motor offers a wide range of linear motion products in various shapes and sizes, featuring different motor types, drive methods and power inputs.

BEIJER ELECTRONICS HMI SCREENS

IX PANELS

The iX Panels are the next generation HMI panels, available in TxA, TxB, TxC and iX runtime a PC based system.

TxA: The cost effective solution available in 4", 7" and 10"

TxB: High performance operator panel available in 7", 12" and 15"

TxC: HMI industrial PC for demanding applications, the largest 21" supports full HD

iX Runtime:

PC based package available in 250, 2000, 4000 external tags.



IX OFFERS A WIDE RANGE OF PANELS

No matter your application, we have the hardware to match it, from the ultra compact 4 inch operator panel to the high-performance 21 inch iX HMI. Naturally, your iX application project can be scaled accordingly to suit the display, making sure you can offer flexible and competitive solutions.



IX HMI SOFTWARE



iX offers Windows embedded CE upto Windows 7 Ultimate high performance platforms. From ARM9 to intel Core i7-2715QE processor. Beijer TxB and above have C# programming language, PDF broser, Media player and web browser for no extra cost. Remote access can be acheived through VNC, Web Server and FTP. iX has a wide range of drivers to suit most PLC's and can be used to create a gateway.

FATEK PLC



THE FATEK RANGE INCORPORATES THE FBS HIGH-PERFORMANCE SERIES AND THE NEW-ECONOMICAL B1/B1Z SERIES MICRO-PROGRAMMABLE CONTROLLERS.

The FBs-PLC design incorporates a "System on Chips"(SOC) developed in-house by Fatek Corporation. The chip consists of over 120,000 gates which integrates powerful features such as a Central Processing Unit(CPU), Hardware logic Solver(HLS), five high-speed communication ports, four sets of hardware high-speed counters/timers, four axes of high-speed pulse outputs for NC positioning control (with linear interpolation of dynamic tracking) 16 high speed interrupts or captured inputs. The FBs represents high functionality and reliability with exceptional value compared to other PLC's in its class.

LINEAR MOTORS

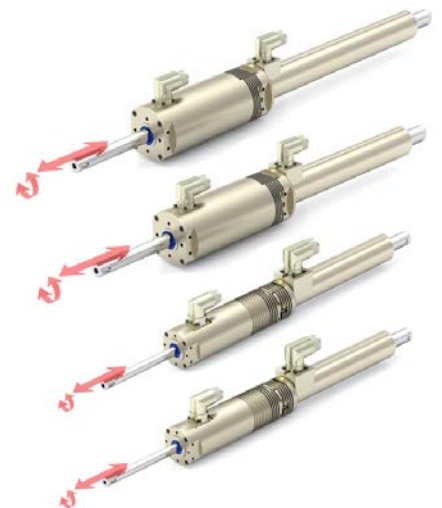


LinMot Linear Motors, Guided Actuators, Servo Drives, and MagSpring constant force springs. LinMot motors provide extremely long life, high dynamics, and high repeatability at a moderate cost. Available for wash down applications, these motors are widely used in packaging, material handling and the health care industry.

- Alternative to pneumatics with low running costs
- Forces from 44N upto 2500N with force control
- Stroke length up to 1770mm.
- Force control
- Part and fully stainless models
- Up to IP 69
- Atex rated for explosion proof

The LinMot PR01 series of Linear-Rotary motors includes various sizes that differ primarily in the maximum torque available from the rotary motor or the linear force available from the linear motor. In addition to the different sizes, variants with axial through-holes (for a pneumatic line or an ejector, for example) and stainless steel models are available.

A Linear-Rotary motor fundamentally consists of a linear motor with an attached rotary torque motor. The two motors are electrically independent units and can be controlled completely independently of each other.



MOTION CONTROL PRODUCTS

MOTION CONTROL SOLUTIONS

ABB offers a range of motion control products, providing a complete motion solution for machine automation. Products include:

- Rotary and linear servo motors
- Servo drives: Single and three phase
- Inverter and vector drives
- Multi-axis motion controllers: Boxed and board level solutions
- Operator panels

All of the motion controllers, and intelligent servo drives, are programmable in ABB-Baldor's easy to use motion language, Mint.



IMS (INTELLIGENT MOTION SYSTEMS)

- Stepper Motors and separate controls
- Integrated Motors and controller combinations (MDrive Range)
- Stepper linear motion actuators, both ball screw and belt driven



A.C. AND D.C. FAILSAFE BRAKES

The Temporiti "AC and DC " models are spring applied, power release AC and DC voltage brakes which have been designed to stop rotational movement of machine shafts when power is lost.



TENSION CONTROL EQUIPMENT



WEB VIEWER SYSTEMS



MECHANICAL CHUCKS



PNEUMATIC & ELECTROMAGNETIC
POWDER BRAKES & CLUTCHES



AIR EXPANDING SHAFTS
& SAFETY CHUCKS



TENSION CONTROLLERS



WEB GUIDING SYSTEMS
Keep your film running true



LOAD CELLS



ROTARY UNIONS

MAGNETIC PARTICLE CLUTCHES AND BRAKES

MAGPOWER

TORQUE &
TENSION CONTROL
PRODUCTS



AUTOMATION SYSTEMS

Our automation engineers can design, quote, develop and commission your automation or motion control project. Some recent examples of successful projects:

- Rapid motion corrugated cardboard cut to length machine.
- Linear or rotary travel water jet pin bone removal on fish fillet conveyor.
- Service platforms to allow service engineers around the 737 and A320 aircraft body.
- Synchronising 3 colour printing on both sides of plastic film.
- Polishing 90° stainless steel bent tube.
- Fruit tray packing in 3 seconds.
- Testing lifetime of grinder brushes in minutes.



BROOKS WINE PUMP CONTROLLERS



John Brooks Ltd are the designers and manufacturers of the mobile Brooks Wine Pump (BWP), trolley mounted controlled pumps that can be easily wheeled to any location within a location with a winery's processing plant.

Fine wine must be handled with care, and the BWP ensures that wine can be easily transported from location to location with minimal damage for blending, bottling, and transferring between wine vats. Quality, reliability and the ability to easily adapt are core BWP features.

Various BWP models are available to meet the needs of small boutique wineries and large multinational brewing companies. Flow rates range from 1000 to 35000 litres per hour and a variety of fittings are available to suit connections to popular brewing systems including Tri Clover and RJT.



MILK PUMP CONTROLLERS

DAIRY-FLO: INCORPORATING CONSTANT FLOW TECHNOLOGY

This technology has been developed exclusively by John Brooks. Constant Flow strives to keep the flow of milk through the heat exchanger as low and as constant as possible, to enable the heat exchanger to extract the maximum amount of heat out of the milk before it is delivered to the vat. A lower milk delivery temperature results in running electricity cost savings from the refrigeration plant.

- Unique, user friendly interface.
- Highly adaptable inbuilt I/O to integrate with any existing plant.
- System is fully automatic with 410, 500 or 585mm probe.
- Control is suitable for all types of milk lift pumps used in dairying.
- One control does all motor sizes up to 2.2kW. 1 or 3Phase models.
- IP65 Stainless Steel enclosure.
- Adjustable run on Timer and Drain interval.
- Motor and power protection built into the controller.



JBDA (JOHN BROOKS DAIRY AUTOMATION):

A cost effective milk pump controller for installations that require basic functionality to comply with dairy codes of practice while at the same time achieving high levels of control.

- System is fully automatic with 410mm analogue probe.
- Control is suitable for all types of milk lift pumps used in dairying.
- One control does all motor sizes up to 2.2kW. 3Phase only.
- IP65 Aluminium enclosure.
- Adjustable run on Timer.



VACUUM PUMP CONTROLLERS

DAIRY-VAC:

Is different to all other controls offered to the Dairy Industry. John Brooks has designed a purpose built control interface to manage and control the automation requirements of the modern dairy shed. The system has been developed to provide a high level of energy efficiency and control for all types of vacuum pumps used in the dairy industry. The simple to use interface takes all the guess work out of the setup procedure and operation of the unit.

- Reduce energy costs by up to 75%.
- Extends vacuum pump life.
- Huge noise reduction.
- One controller can operate multiple motors.
- Suitable for 5.5 to 30kW motor sizes.



PARTNERS



P13/14/15



ATRA-FLEX
Flexible Couplings
TECHNICAL P4



P4



P13



P4



P10



P9



P12



P18



P11



P20



JOHN BROOKS
INDUSTRIAL AUTOMATION SUPPLIERS

P22/23



"The Right Control
for Your Application"

P14/15



P12



P19



P10



P17



P4



P21



P7



P14



P15



P9



P13



P15



P6



P16

PRODUCT GUIDE



JOHN BROOKS
INDUSTRIAL AUTOMATION SUPPLIERS

For more detailed information regarding any of the products listed in this guide, please contact your nearest John Brooks branch who will put you in direct contact with your area Sales Engineer or visit the John Brooks website.

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