CHAIN & DRIVES
COMPLETE POWER TRANSMISSION

POWER > SPEED > TORQUE

CHAIN & DRIVES
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MOTORS & BRAKES

DRIVE ASSEMBLIES

DRIVES & CONTROLS

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Introduction

Chain & Drives was established to become the leader in Power Transmission. To complement our range of products, we offer initial concept design of your project and specialised requirements, by utilising our 3D drafting and modelling systems. Our team will manage your project in all stages through design, supply, installation, commissioning and maintenance.

We have vast project experience in building & construction, crushing & screening, recycling plants, fertiliser plants, food production, plastics & chemicals, environmental technology, renewable energy and heavy industries.

Design

We are able to offer advice based on our experience with all aspects of your conveyor requirements.

Our sales and engineering team use cutting edge drawing software, utilising Auto CAD and Solid Works in the production of two dimensional layout drawings three dimensional modelling. Both of these technical software applications greatly assist in the very best installation of conveyor drive assemblies.

Supply

Chain & Drives supply all power transmission components from stock. We represent leading brands from around the world including:- Sumitomo, Motovario, WEG, Lafert, Transtecno, Bosch Rexroth and PIX. We also have relationships with all major conveyor equipment suppliers. This enables us to provide you with competitive pricing and great support when offering replacement options of all your power transmission, drive assemblies and spare parts.

Our scope covers supply of a component to a complete detailed design with project management, installation and commissioning.

Installation

Once your design is complete and we have supplied your conveyor components and equipment Chain & Drives can provide installation to complete your conveyor drive assembly.

Our value added services including project estimating, costing, scheduling, resource management and equipment hire provide our clients with confidence in meeting their project's unique needs.

Commissioning

When your equipment is installed, Chain & Drives can offer assistance or complete commissioning of your conveyor assembly and equipment.

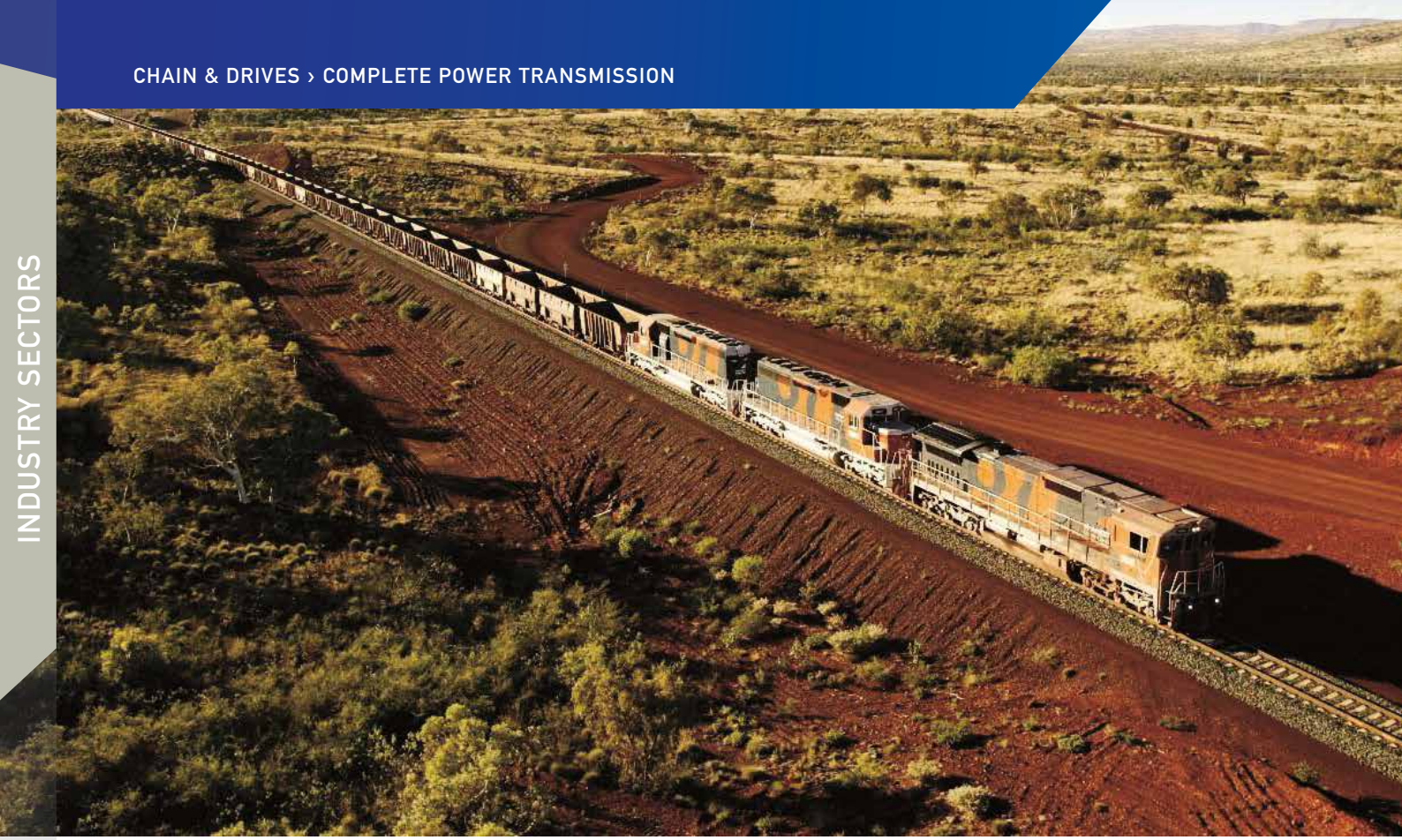
Our experience allows us to assist in any trouble shooting that may arise during the commissioning process. This experience minimises any down time getting your conveyor up and running.

Maintenance

Chain & Drives can provide full and ongoing maintenance servicing of all of your conveyor equipment including gearboxes, motors, drive controls, conveyor components, head drums, replacement skirting, belting and drive assemblies; Servicing and maintenance is the difference between a reliable efficient conveyor and one plagued with continuing problems.

We offer ongoing maintenance plans assuring that your equipment will stay in good condition. While after hours breakdown assistance means your always covered.

Chain & Drives supply market leading products from around the world. We offer design of power transmission products to suit specialised applications. We also offer on site application analysis and support. We service gearboxes, linear actuators and fluid couplings.



Industry Sectors

CHAIN & DRIVES SUPPLIES COMPLETE POWER TRANSMISSION AND PRODUCTS AND SERVICES.

We have over 6 years' experience in all industry sectors across Australasia.

Our knowledge and specialised product development provides you with a level of service and proven results that you can rely on to achieve greater productivity and results.

Through developing these processes we have an improved understanding of your business and application requirements.

With high level partnership and understanding we offer solutions that are efficient, competitive and beneficial to businesses.

Our partnership with clients across these sectors allows us to share a wide range of knowledge gained from previous experiences.

Our sector services and knowledge includes Design, Supply, Installation and Maintenance services.

- Agriculture
- Building & Construction
- Conveyor Drives
- Feed & Food
- Factory Automation
- Mining & Heavy Industry
- Plastics & Chemicals
- Renewable Energy
- Waste Water Treatment

Gearboxes & Drive Assemblies

We are drive specialists and have many years' experience in all aspects of drive design and supply. We stock a full range of all types of industrial gearboxes, motors and variable speed drives ready for immediate delivery and even in breakdown situations. We offer on-site application analysis and design services.

Our range of gearboxes is divided into the following categories:

SMSR/HSM - Helical Shaft Mount

Cyclo Drive

Cyclo Bevel Buddybox

Paramax Drive Assemblies

GC Seisa Gear Coupling

Planetery Gearbox

Worm Gearbox

Hyponic Drive

Screw Jack

Auger Boxes

Slasher Boxes

PTO Speed Reducer

Post Hole Digger Boxes

Speed Multiplier Gearboxes

General Purpose Gearboxes

Worm Wheel Speed Reduction Boxes

Stainless Steel Gearboxes

TRANSTECNO® THE MODULAR GEARMOTOR

Transtecno Gearboxes

AC GEARBOXES & MOTORS

Chain & Drives are the distributor the build centre for the Transtecno AC range of gearboxes and power transmission products.

Complementing and utilising our range of AC Motors and Drives, Chain & Drives AC Gearbox drive assemblies are a great choice for all you drive requirements.

- Our Transtecno AC gearbox range are supplied in Bevel Helical, Worm Drive, Planetary, Inline Helical, Helical Worm and Cycloidal.
- Available from fractional watt up to 250KW we supply drives in all configurations to suit your specifications.
- Our design team can supply 3D concept and construction drawings for all drive assemblies.
- Our service team offer installation, commissioning, maintenance and on site services.
- We offer the complete turnkey solution for all your drive requirements.

Contact us today to discuss you application or arrange a site visit.

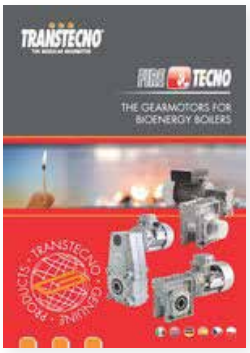
DC GEARBOXES & MOTORS

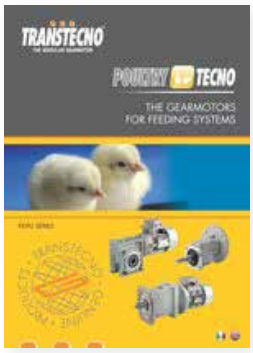
Chain & Drives are the distributor and are the build centre for the Transtecno DC range of gearboxes and power transmission products.

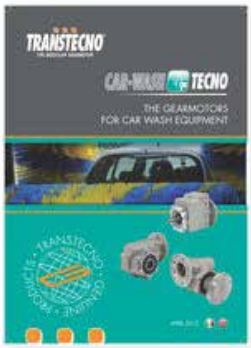
- Complementing and utilising our range of DC Motors and Controls, Chain & Drives DC Gearbox drive assemblies are a great choice for all you drive requirements.
- Our Transtecno DC gearbox range are supplied in Bevel Helical, Worm Drive, Planetary, Inline Helical, Helical Worm and Cycloidal.
- The DC drive range can be supplied in 12 and 24 volts with IP rating up to IP67.
- We also supply DC motors fitted with integral brake assemblies.
- We also offer DC motor brakes fitted to our drives for all applications, giving you total drive control and braking capabilities.
- Available from fractional watt up to 1.5KW we supply drives in all configurations to suit your specifications.
- Our design team can supply 3D concept and construction drawings for all drive assemblies.
- Our service team offer installation, commissioning, maintenance and on site services.
- We offer the complete turnkey solution for all your drive requirements.

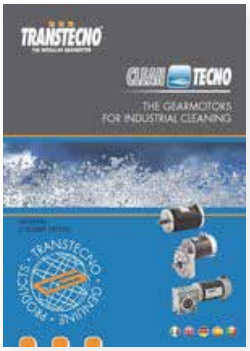
Contact us today to discuss you application or arrange a site visit.

Transtecno Specialised Sector Drives









IRONTECNO
THE HEAVY DUTY GEARBOX LINE

IRONTECNO - HEAVY DUTY

The IronTecno range includes 3 gearbox lines: helical, bevel and shaft mounted gearboxes. Each product line is divided into 3 sizes providing torque from 900 to 3500Nm. The main characteristics of this range are its modular iron housing and the gearboxes are interchangeable with other brands on the market.

Please contact us to discuss your Specialised Sector Drives.

Electric Motors & Motor Brakes

Chain & Drives supply electric motors suitable for all types of applications and industry requirements.

Brands including > AEG – WEG – Lafert – Brook Crompton – TECO – CMG.

» We carry local stock of alloy and cast iron motors in single and three phase.
» We can also supply custom designed motors through our partnership with Efficiency Lafert Motors.
» Stainless Steel motors are available for food and chemical applications.
» We can supply high efficiency AC motors to MEPS 4 efficiency levels.
» Complementing our motor range we stock a complete range of gearboxes and drive controls. We offer motor installation, maintenance and repairs.

Contact us today for more information or to discuss your requirements

WEGEXN Motors

Intorq Motor Brakes

Teco Motors

Explosion Proof Motors

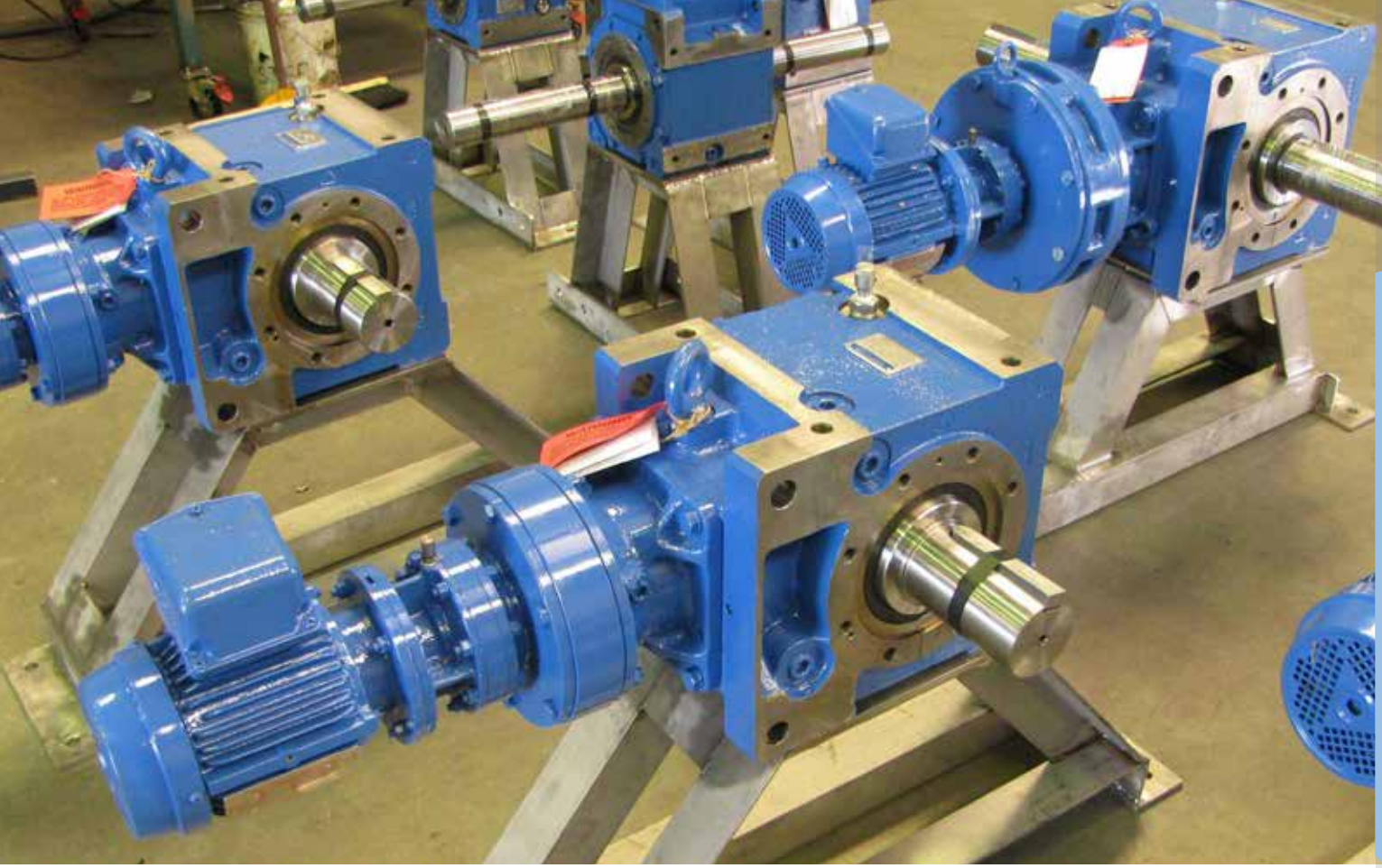
Mining Specification Motor

Lafert Electric Motors

AEG Motors

Stainless Steel Motors

A.C. Motors

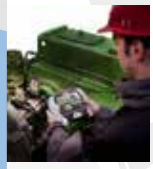


Drive Assemblies

Chain & Drives offer in-house drive package design and manufacturing services to meet specific project requirements. Our service team will assist with installation and commissioning for all your drive assembly requirements.

Please contact Chain & Drives experienced staff to discuss your drive package requirements

Services



BALANCING

Unbalanced fans, pumps and rotors place undue stresses and additional loads on bearings, motors and couplings substantially reducing component service life, and potentially causing catastrophic failure which can damage surrounding equipment and harm employees.

Often after major mechanical work on this type of equipment, re-balancing and alignment are required to ensure optimum operating efficiency.

CONSULTING & DESIGN

Chain & Drives provide engineering consulting services for upgrades and new equipment designs.

Utilising using up to date information and the latest technology, we provide optimised solutions for your designs of plant improvements. Our engineers can design entire machines or components there of individuals; electric motor specification motor bases, soft starters and variable speed drives; couplings, v-belt drives, gearboxes, bearing arrangements. We offer "Complete Power Transmission".

ENERGY AUDIT SERVICE

Energy consumption can be reduced by up to 40% through analysing inefficient and poorly designed drives and adopting better drive design practices.

The path to becoming an environmentally sustainable manufacturer begins with understanding how much energy you currently use and how you can reduce that consumption.

LASER ALIGNMENT

Misalignment in mechanical systems such as motor gearbox pump assemblies is a major factor in increased wear and premature failures.

Using traditional alignment techniques incorporating straight edges and dial indicators are extremely time consuming, subject to methodology errors and physical limitations. Laser alignment techniques are both fast and accurate while reducing the potential for human error. Aligned equipment runs more smoothly and avoids premature failure of bearings, belts and couplings.

MECHANICAL EQUIPMENT REFURBISHMENT

Our service facility will provide repairs and services of all types of gearboxes, motors, couplings, bearings, actuators and drive assemblies. Our service staff are factory trained with many years' experience in all types of power transmission equipment. We also can refurbish head and tail drum assemblies. Our service centre carries a large inventory of spare parts for immediate repairs and even in breakdown situations. We will prepare a tailored full-service report and provide a maintenance programme specific to your equipment.

OIL ANALYSIS

Oil analysis is a cost effective method for determining the condition of existing lubricants helping to protect service life.

Programs can consist of either in-house or external testing which tests for four major indicators,:base oil degradation, water content, presence of contaminants and presence of iron particles. As an example, in food plants it is common to find water contamination in gearboxes as a result of daily high pressure wash downs. Even very small concentrations of water will lead to premature bearing and gear failure due to corrosion.

PREVENTATIVE MAINTENANCE

Chain & Drives recommend adding security to your process by offering a Preventative Maintenance Contract (PMC) for your equipment. Our PMCs offer a comprehensive systematic inspection to help reduce failures or detect faults before they cause costly down time and help assist in extending the life of your equipment. Add peace of mind to your business by enquiring about a Preventative Maintenance Contract.

A PMC is tailored to suit individual requirements of each of our customers and a full report is issued upon the completion of each inspection. Customers with a PMC will also enjoy receiving prioritised service.

Our service team is available to install and commission all equipment we provide, including conveyor components and general associated fabrication.

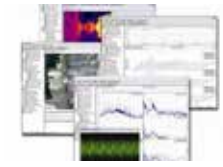
PLANT MAINTENANCE

Our field services team have many years' experience in plant maintenance. We can assist with break down installation of your power transmission requirements through to shut down maintenance programs. We will provide full plant audits and tailored maintenance programs across specialist industry sectors. Our maintenance team is backed by in-house engineers and specialists in consultation with our factory personnel. Our team provide complete maintenance solutions for your plant and equipment.

TRAINING

Through continuous commitment to quality Chain & Drives strives to provide training solutions for industry. Utilising technical expertise we have developed comprehensive product training programs.

From the engineer seeking assistance with selecting the appropriate materials or components, a distributor who wants to provide the best available advice and products to your customers, or a maintenance person interested in getting the maximum uptime, we have a solution for your plant and equipment.



VIBRATION ANALYSIS

This is the predominant technology employed in condition monitoring to determine the condition of various mechanical components making estimating a prediction on service life expectancy and urgency of repairs. It is a non-invasive technique which collects vibration data from machines under normal operating conditions. Vibration readings are typically taken at bearing locations following accepted industry.

Service Centre & Site Services

Chain & Drives service department has friendly fully trained, equipped personnel to service and repair your equipment. Our team also offers technical support, trouble shooting and advice.

Our extensively tooled workshop and spare parts stock holding means technical staff carry out repairs in a timely and professional manner. We stock loan replacement drives and gearboxes to keep our customers operational whilst repairs are being carried out.

For customers who require on-site service we have a quick and reliable mobile service team. They provide full project management including design, supply, installation and maintenance on all power transmissions.

We offer servicing and repairs for a range of equipment including all leading brands of Gearboxes, Motors, VSD Drives, Actuators, Fluid Couplings, Conveyor Rollers and General Fabrication and Maintenance. When you purchase equipment and products from Chain & Drives you can rest easy in the knowledge that you have entered a partnership offering a one-stop-shop solution.

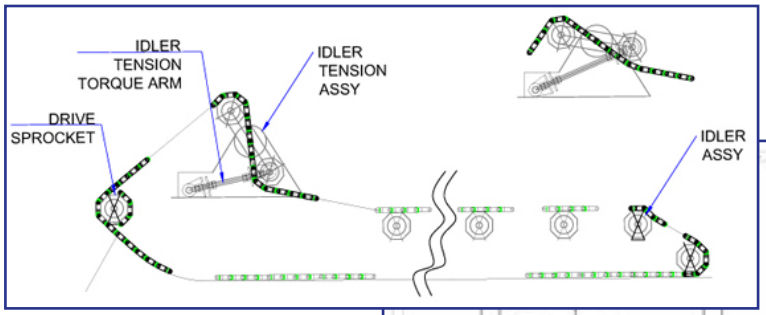
Chain & Drives offer in-house service and repair for all industrial gearboxes, fluid couplings, linear actuators and variable speed drives. Our service capability includes design-supply-installation-maintenance.

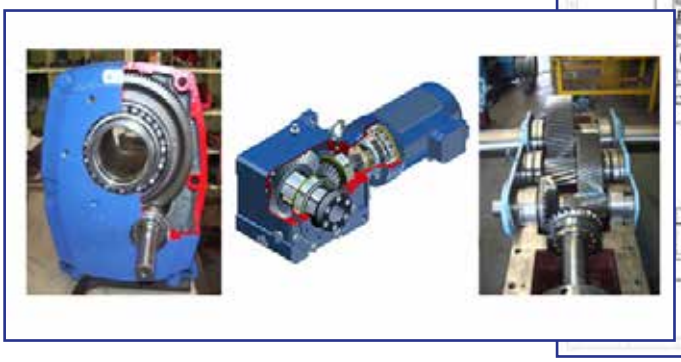
Our field service team can assist with installation and maintenance of all types of gearboxes, motors, couplings, bearings, actuators and power transmission equipment.

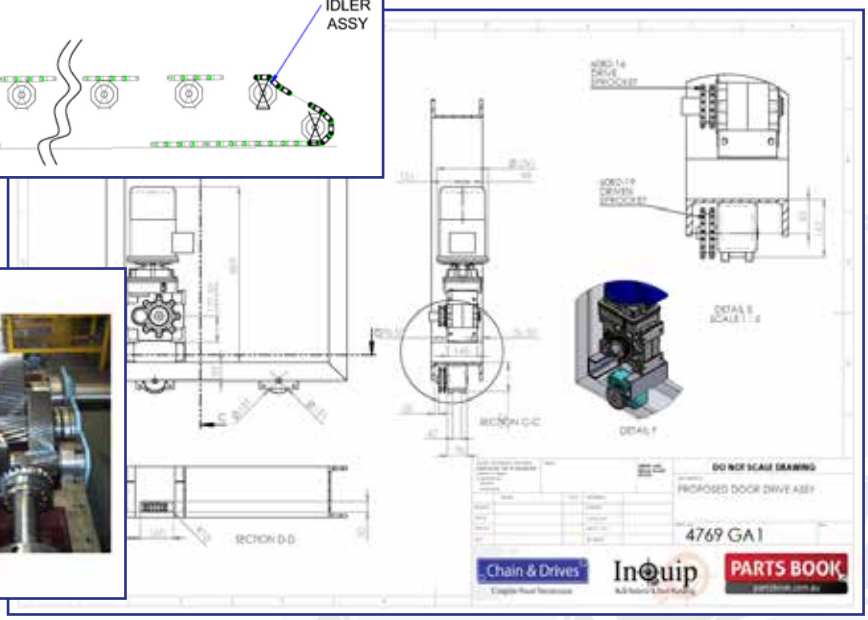
At our workshop Chain & Drives repair all types of industrial gearboxes, motors, fluid couplings and linear actuators.

- We can offer a rebuild service for all head drum and idler assemblies.
- Full strip and inspection reports, including all analysis, hardness testing and no load run testing.
- We can tailor our reports to meet your requirements and offer advice for preventative maintenance and drive installation.
- We use genuine parts on all gearboxes serviced and can organise locally manufactured parts for other urgent breakdown situations.

Our goal is to offer the highest level of customer service, supported by premium power transmission products.







KB AC Drives & KB DC Drives

KB offers 66 models of off-the-shelf distributor style Variable Frequency Hybrid Variable Speed AC Drives and Digital AC Drives which cover the most popular voltages and horsepower ranges. From 115/230 and 380/400/460 input voltages and extending from 1/10 to 5 horsepower.

Our AC drives are available as:-

» Chassis/IP 20
» Stamped Aluminium NEMA-1 / IP 50 enclosure & rugged, indoor/outdoor wash down
» Watertight, die-cast Aluminium NEMA-4X / IP 65 enclosure with hinged cover

A variety of optional AC Drive accessories are also available to meet the most demanding applications.

FOR KBAC, NEMA-4X/IP 65, HYBRID AC DRIVES AVAILABLE OPTIONS INCLUDE:

» On/Off AC Line Switch
» Forward-Stop-Reverse Switch
» Signal Isolator with Auto/Manual Switch
» Run-Stop-Jog Switch
» Class "A" RFI/EMI CE Approved Line Filter
» Liquid-tight Fittings

FOR KBAC, NEMA-4X/IP 65, HYBRID AC DRIVES AVAILABLE OPTIONS INCLUDE:

» On/Off AC Line Switch
» IODA Input/Output Multi-Function Board
» Modbus Serial Communications Module
» Class "A" RFI/EMI CE Approved Line Filter
» Liquid-tight Fittings

FOR KBMA, NEMA-1/IP 50, HYBRID AC DRIVES AVAILABLE OPTIONS INCLUDE:

» Forward-Stop-Reverse Switch
» Signal Isolator with Auto/Manual Switch
» Class "A" RFI/EMI CE Approved Line Filter

FOR KBMK, NEMA-1/IP 50, DIGITAL AC DRIVES AVAILABLE OPTIONS INCLUDE:

» On/Off AC Line Switch
» IODA Input/Output Multi-Function Board
» Class "A" RFI/EMI CE Approved Line Filter

Transtecno VSD & Drive Packages

TRANSTECNO
THE MODULAR GEARMOTOR

Over the years Transtecno Group has built its solutions for the mechanical and small automation industry including: gearboxes, electric motors and most commonly variable speed drives. The newest addition, inverter TT100 gives clients complete solution using one device. The TT100, rated output power from 0.20 to 15 kW, single phase 230Vac and three phase 400Vac covers the majority of market needs.

CHARACTERISTICS

- Full torque at 1.5Hz
- Torque can reach 150% of rated torque
- Auto torque promotion and auto slip compensation allows larger output torque at low frequency
- User-defined curve, V/F curve can be adjusted
- Lower-noise, carrier-wave frequency can be adjusted from 2KHz to 10KHz
- Control protection is immediate and reliable, which improves system stability
- Built-in filter is optional
- Compatible with NPN and PNP types
- Advanced V/Hz control technology ensures precise control and better performances.
- Output frequency is 0.50~650.0Hz (V/F), 0.50~200.0Hz (SVC). The highest resolution is 0.01Hz
- We supply larger Delta Series Variable Speed Drives up to 250KW.
- We also offer control cabinet and PLC design and manufacture
- Soft starters up to 250KW are available

For more information please contact us today to discuss your requirements.

VSD

As part of Chain & Drives commitment to supplying Complete Power Transmission, we offer complete (VSD) Variable Speed Drive Packages.

This product incorporates our market leading Bosch Rexroth inverter drive units. Including the FE, FV and EFC3600 ranges. Available up to 900KW.

We supply custom built IP66 Drive Cabinets suited to many applications in most industry sectors.

Our drive cabinet components are sourced from leading European and US manufactures.

Once we understand your application the drives are assembled locally to meet your specifications.

The drives are supplied with full control from the face of the cabinet and locked to provide you with complete security and control.

Standard panel control functions include:-

- Total drive speed control
- Forward & reverse operation
- Soft start – Ramp Up – Ramp Down Operation
- Indexing Drive Control
- Multi-function programming
- Vector Torque Control
- Emergency Stop

Our drives can also be supplied with full automation Bosch Rexroth products incorporating PLC Control and Servo Motor Drives.

This product range has been developed to complement our range of gearboxes, motors, conveyor drives and drive assemblies.

All programming is done in our workshop.
So the control box is ready for operation once commissioned.

Our cabinets can be mounted and installed in all applications.

We also offer site consultation, installation and maintenance for all your requirements.

Bosch Rexroth

FREQUENCY CONVERTOR EFC 3600 VSDS

- Compact and complete: space saving side-by-side assembly, plug-in I/O terminals, with brake chopper and mains filter – for ultra-simple installation and integration
- Simply practical: removable operator panel with storage function, straightforward parameter inputs, harmonized parameters for the entire series – to save time and improve quality during series start-up
- Maximised energy efficiency and minimised motor noises through continuously adjustable pulse
- The Rexroth EFC 3600 frequency converter is the compact, cost-efficient and energy-efficient drive solution for the performance range from 0.4 kW to 4 kW. Easy commissioning and installation enable a wide range of applications.

FREQUENCY CONVERTOR FE

- Broad performance spectrum
- High over-current carrying capacity
- Integrated brake chopper (< 15 kW)
- CE marking and UL certification
- Worldwide availability and service

Rexroth frequency converter Fe represents the economical line of converters for the power range from 0.75 kW to 160 kW. The frequency converter Fe is designed for V/f operation under rough environment, allowing a wide range of application

FREQUENCY CONVERTOR FV

- Brake chopper with up to 30 kW continuous braking power
- Easy to operate and service (detachable fan, LCD operating panel with copy function)
- Advanced functions and high performance
- Reliable quality
- CE marking and UL certification
- Worldwide availability and service
- Rexroth Frequency Converter Fv is the new optimized drive solution for the automation of diverse applications in the power range up to 90kW. The distinct operating modes voltage/ frequency (V/f), sensorless vector control (SVC) or sensor vector control (FOC) allow a wide range of applications.

Bosch Rexroth

SERVO DRIVES & GEARBOXES

COMPACT DRIVES & GEARBOXES

» 100 W – 3.5 kW
» Ethernet-based communications, multi-protocol support
» Innovative multi-encoder interface
» Extremely compact design

CONVERTERS

» Extremely high overload capacity
» Can be connected to inverters for cost-effective solutions
» Direct mains connection from 200 V to 500 V

MODULAR SYSTEM

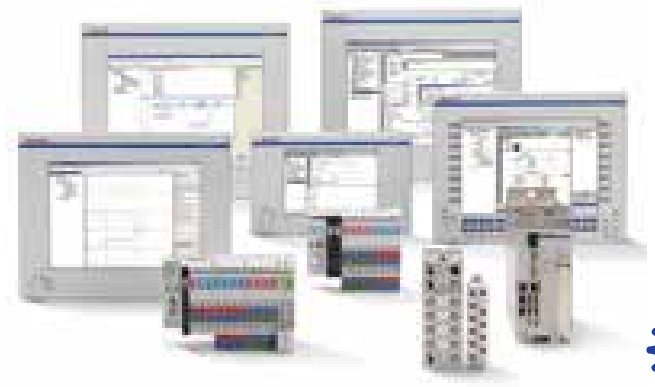
» Single-axis inverter with maximum current from 20 A to 350 A
» Double-axis inverter with maximum current from 12 A to 36 A
» Space-saving design for multi-axis applications
» Can be powered via power supply unit or converter
» Energy exchange via common DC bus

CONTROL UNITS

» Scalable performance and functionality
» Individual solutions for standard to high-end
» Open interfaces for international use
» Certified safety technology

FIRMWARE

» All standard functions already included in basic package
» Individual function extensions
» Industry-specific technology functions
» Integrated IEC-compliant motion logic



PLC

The powerful Bosch Rexroth PLC systems set new standards for open automation with a consistent control, programming and communication design. Whether you are using a controller, an embedded or industrial PC you can tackle any job rapidly and cost-effectively.

INDRALOGIC XLC

» Cutting-edge control hardware with numerous extension options
» The latest PLC kernel IndraLogic 2G (based on CoDeSys V3)
» High-performance communication via RT Ethernet SERCOS III for all peripherals
» Synchronized motion control functionality
» IndraWorks – The Tool for All Engineering Tasks

INDRALOGIC L CONTROLLER BASED

» Powerful, with extensive functionality and interfaces
» Scalable, with the innovative IndraControl L platform
» Centralized and decentralised I/O
» Open interfaces for networking via Ethernet or PROFIBUS
» Easy expansion with function modules (IndraLogic L40)
» Easy integration of HMI solutions

INDRALOGIC V PC-BASED

» Powerful, with extensive functionality and interfaces
» Scalable with the innovative IndraControl V platform
» Open interfaces for networking via Ethernet or PROFIBUS
» Extremely well-suited for industry, with its robust device technology Integrated HMI solution WinStudio and IndraWorks Operation

Couplings

CHAIN COUPLING

TChain coupling is composed of double-strand roller chain and two sprockets - featuring a simple and compact structure that offers high flexibility and greater transmission capacity compared to similar sized coupling. This chain coupling allows simple connection and disconnection, use of the housing enhances safety and durability.

CONE RING COUPLING

Cone Ring couplings transmit the load from one member to the other by means of a number of steel pins fitted with multiple, conical section flexirings.

- Simple uncomplicated construction
- Requires no lubrication or maintenance
- Reduces starting shock
- Helps absorb vibration and provide torsional flexibility
- Operates in either direction
- Coupling halves manufactured from high-grade cast-iron. They can be supplied in cast-steel on application.
- Each flexiring and pin assembly can be removed by withdrawing them through the bush half of the coupling making for easy replacement of the flexirings after long service
- Available in standard, Taperbush and Rigid coupling models

CURVED GEAR COUPLING

Chain & Drives Australia supply a range of pilot bore curved tooth gear couplings.

The Curved Tooth Gear Coupling consists of 2 geared hubs and a curved tooth nylon sleeve.

DISC COUPLING

- High power-to-weight ratio
- No wearing parts, no lubrication required
- Easy installation with 'Drop Out' spacer
- Accommodates angular, parallel and axial misalignments
- Non stainless steel parts coated with a durable anti-corrosive coating
- High temperature application
- Replaceable element blades
- Visual inception possible without disassembling equipment
- Inherently balanced
- High torsional rigidity with low axial stiffness
- Special options including spacer lengths, modified hubs, special materials are available
- Floating shaft/cooling tower couplings are available.
- Backlash free
- High speed capability
- Dynamic balancing to customer specifications
- Machined to high precision standards
- Lightweight couplings

Couplings

RM RIGID COUPLING

GB RM Rigid couplings are used to rigidly connect two shafts and are often used to facilitate ease-of-maintenance or simply to aid machine assembly. TaperFit bushes provide a secure fit on the driving and driven shafts, ensuring installation and removal is simple.

HRC COUPLING

This is a general purpose drive coupling for all industry sectors and can be supplied in pilot bore or taper bore locks. It can be used in rubber flexible drive elements. Ask for more information.

SEISA COUPLING

Chain & Drives supply Seisa Gear Couplings. They are used in many mining and industrial applications.

Features and benefits of the Seisa GC Gear Coupling range include:-

- Torque is fully transmitted even if misalignment of shaft centre or vibration occurs
- When misalignment or tilt of connected shafts occurs in operation, it will automatically adjust. As no extra load is applied to shaft and bearings, machine is well protected
- It is a flexible coupling using crowning gear and has high wear resistance with extra toughness.
- As it is separated from centre case, its assembly and removal are easy, compact and light and the mounting space can be minimised
- Unlike other types of flexible coupling, misalignment of rotation angle between two shafts (caused by deflection coupling) doesn't occur. It is suitable for the joint of line-shaft, high-speed and heavy-load usage

JAW COUPLING

Our Jaw Type couplings are designed to suit the largest variety of stock bore/ keyway combinations. These couplings require no lubrication and provide highly reliable service for light, medium, and heavy duty electrical motor and internal combustion power transmission applications.

SW RRS Type – Radially Removable Element & Spacer Coupling

- Larger version of RRS Spacer type couplings
- Spacer coupling with "drop out" centre for proper separation
- Radially removable elastomers (easy installation & maintenance)
- Spacer made of aluminium Standard Sizes: 100mm, 140mm, 180mm, 200mm

SW Type – Radially Removable Element

- Standard L type coupling with radially removable elastomer
- Higher RPM limit 3,600 RPM
- Fail-safe, plus open centre allows for minimal shaft separation
- Max Bore: 65 mm

L Type – Standard Jaw Coupling

- Industry's standard shaft coupling
- Fail-safe will still perform if elastomeric "spider" fails
- Max Bore: 75 mm
- Max Torque: 2000 Nm

Couplings

TYRE COUPLING

GB tyre couplings have shock and vibration dampening characteristics creating significant load reduction on machinery and bearings helping reduce costs and prolonging life. When used in conjunction with a GB series spacer, a GB tyre coupling easily accommodates standard 100, 140 & 180mm spacers. TaperFit bushes, spacer coupling and a generous allowance for misalignment ensures GB tyre couplings are extremely easy to install.

GE CURVED JAW COUPLING

Chain & Drives supply GE curved jaw couplings which are fully interchangeable with other industry leading brands. High quality casting available in pilot bore and taper fit for fast finish bore option. Huge range of imperial and metric bush sizes available.

Standard, heavy duty and super heavy duty spiders available

GE curved jaw couplings are suitable for high torque and hydraulic applications.

Couplings are ideal for hydraulic bell housing drive applications.

Main benefits of our GE Curved Jaw Couplings are:-

- High torque capacity for size
- Compact design
- Low weight for reduced inertia
- Machined surfaces for extended life
- Absorbs shock loads
- Vibration dampening

GS GRID COUPLINGS

The GS Grid Coupling is a general purpose, lubricated grid coupling design that combines the economy and high torque capacity of a gear coupling, combined with the torsional flexibility of an elastomer coupling. Our Grid Couplings are interchangeable with other market leading brands.

GS Grid coupling features & benefits:-

- Prevents damage to high capital cost connected equipment in the event of severe overload and grid breaks
- Comes with optional Horizontal Split case
- When the parallel misalignment is too severe, the relating machine is protected by the virtue of shearing Grid or Tooth
- Service life of connected equipment including bearings and seals are extended due to Grid Coupling smooth high torque capabilities
- Quick installation and easy maintenance reduce labour cost and downtime
- Interchangeable with other industry standard brands
- Low noise emission even at 100% transmission of power

FLUID COUPLINGS

- Chain & Drives supply your fluid coupling requirements, including
- Brands such as Turbostart, Fluidomat and Transfluid.
- Fluid couplings are available with delay fill chamber and can be supplied as bare shaft or fitted with v-belt pulley drives.

Centa Couplings

Torque range
0.01 to 12.5 kNm
Elastic material
NR / Si
Temperature range
NR –45° to +80°C
Si –45° to +120°C

CF-A

Highly flexible coupling for a wide range of applications and for a maximum of design variants. Based on a highly elastic rubber element subject only to compressive stress. Extremely high-performing design with high torsional elasticity. Dampens torsional vibrations and shocks and compensates considerable axial, radial and angular misalignments. Electrically insulating and thermally resistant in silicon design. For rupture-proof and backlash-free transmission of high torques. Available as axially blind fitting design with radial mountability.

Rubber element available as split element for quick replacement. Easy handling and mountable with minimum effort. In various lengths adaptable to the installation requirements if applied as homokinetic shaft. Also available as carbon-fibre or glass-fibre designs.

Torque range
0.28 to 40 kNm
Elastic material
NBR
Temperature range
–25° to +80°C

CF-D

Flexible flange coupling with progressive characteristic. For use in heavy duty applications. Extremely robust and fail-safe jaw-type construction with elastomeric buffers subjected only to compressive stress. Features medium torsional stiffness with progressive characteristic. Developed for a resonance- free operation of diesel-driven power Train, particularly generators. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Reliable and rupture-proof, in an especially short and economical design. Blind assembly for minimum mounting effort. With flywheel connections acc. to SAE. Also available for non-standard flywheels

Torque range
0.075 to 40 kNm
Elastic material
NBR
Temperature range
–25° to +80°C

CF-E

Flexible shaft coupling for a wide range of applications. For safe transmission of high torques. Extremely robust and fail-safe jaw-type construction with elastomeric elements subjected only to compressive stress. Features medium torsional stiffness with progressive characteristic. For resonance-free operation and reliable transmission of high torques at low reaction forces. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Heavy duty performance and compact dimensioning. Oil and temperature-resistant, rupture-proof and available in numerous standard and special designs. Available as homokinetic drive shaft in any length required by the installation. Axial blind assembly for minimum mounting effort.

Torque range
0.032 to 1.4 kNm
Elastic material
PU/TPE
Temperature range
PU –40° to +80°C
TPE –50° to +150°C

CF-B

Flexible shaft coupling in economical design. For maximum application flexibility. Extremely robust and fail-safe jaw-type design with elastomer element subjected only to compressive stress. Characterised by intermediate torsional stiffness with progressive characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Many design variants and economical design. Oil-resistant and also available in thermally resistant design. As drive shaft available in any length required by the installation requirements. Delivered pre-assembled. Axial or radial mounting with minimum effort. CENTALOC clamping or taper lock bushes optionally available to prevent wear and frictional corrosion on not backlash-free hub to shaft connections.

Centa Couplings

CF-H

Torque range
0.1 to 4 kNm
Elastic material
TPE
Temperature range
–50° to +150°C

Torsionally stiff coupling with heavy duty performance. For resonance-free operation of diesel-hydraulic drives. Based on a flexible element of heavy duty elastomer with built in aluminium or steel bushes. Especially powerful and compactly dimensioned design with high torsional stiffness. Dampens torsional vibrations and shocks and compensates high axial as well as moderate radial and angular misalignments. At the same time very durable and economical. Oil-resistant and suitable for extremely high temperatures. Blind assembly for minimum mounting effort. Available with CENTALOC clamping hub with flywheel connections acc. to SAE. Also available for non-standard flywheels.

CF-K

Torque range
0.4 to 5.2 kNm
Elastic material
GFK
Temperature range
–40° to +150°C

Compactly dimensioned coupling with high torsional stiffness. For resonance-free operation. Material combination of steel and highly shock-resistant glass-fibre reinforced plastic. Highly robust and short design with high torsional stiffness for fail-safe transmission of small to medium operation ranges. Enables optimum design adaptation to existing space requirements. Extremely durable and economical. Oil-resistant and suitable for high ambient temperatures. Blind assembly for minimum mounting effort. Delivered with pre-assembled hubstar and flywheel connections acc. to SAE. Also available with CENTALOC clamping hub and for non-standard flywheels.

CM-B

Torque range
0.7 to 15 kNm
Elastic material
NR/Si
Temperature range
NR –45° to +80°C
SI –40° to +120°C

Robust coupling with high torsional flexibility, especially for independently mounted gensets. For backlash-free transmission of medium torques. Backlash-free torque transmission via a steel flange onto a pre-compressed rubber element. Extremely fail-safe and low-wear design for transmission of medium torques. Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial and angular misalignments. Economic design effectively ventilated and with high allowable energy loss. Blind assembly for minimum mounting effort. Easy radial replacement and maintainable design. With flywheel connections acc. to SAE. Also available for non-standard flywheels and as shaft-to-shaft connection.

CM-G

Torque range
1.2 to 7 kNm
Elastic material
NR
Temperature range
NR –45° to +80°C

Robust coupling with high torsional flexibility. For quick and easy mounting in drives subject to torsional vibration particularly on gensets. Transmission of torque via toothed outer ring onto a rubber element. Additionally equipped with a taper locking bush for quick and easy installation. Highly dependable and fail-safe design. Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss. Blind assembly for minimum mounting effort. With flywheel connections acc. to SAE. Also available for engine and generator connections acc. to DIN 6281.

Centa Couplings

Torque range
0.1 to 24 kNm
Elastic material
NR/Si
Temperature range
NR –45° to +80°C
SI –40° to +120°C

CM-S

Robust coupling with high torsional flexibility. For resonance-free operation of drives susceptible to torsional vibration. Torque transmission via a toothed outer ring onto a rubber element. Highly reliable and rupture-proof design for transmission of high torques in a compact design. Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and shocks and compensates axial, radial and angular misalignments. Effectively ventilated and with high allowable energy loss. Additionally oil-resistant in silicone design. Blind assembly for minimum mounting effort. With flywheel connections acc. to SAE. Also available for non-standard flywheels.

Torque range
0.01 to 12.5 kNm
Elastic material
NR / Si
Temperature range
NR –45° to +80°C
Si –45° to +120°C

CARBON

Light-weight drive shaft made of carbon-fibre reinforced plastic. For energy-efficient power transmission while simultaneously permitting increased velocities of the driven machines. Developed in cooperation with the Technical University of Darmstadt and leading classification societies. Strength and stability comparable to steel, but significant savings in weight. Combinable with a variety of flexible couplings and connecting elements for optimum adaptation of the torsional situation. Extremely durable and noise damping. With low thermal expansion, fatigue-free and corrosion-proof. Available in any length with up to 10 metres per section. Further handling, maintenance and cost benefits by the omission of additional components, such as bearings and foundations.

Torque range
0.1 to 4 kNm
Elastic material
TPE
Temperature range
–50° to +150°C

CX-V

Torsionally highly flexible intermediate coupling with linear characteristic. For drive concepts with cardan shafts. Safe transmission of torque via a highly flexible pre-compressed rubber element with precisely centred plain bearings. Characterised by high torsional flexibility with linear characteristic. Dampens torsional vibrations and noise, ensures smooth operation and long service life of the connected units. Also effectively ventilated and with high allowable energy loss. Available with flywheel connections acc. to SAE and various cardan connections. Also available for non-standard flywheels. Flange bearing CENTA FH recommended for larger deflection angles.

ArcusaFlex

The ARCUSAFLEX coupling is a highly flexible flywheel coupling with an axial plug-in facility, providing a torsionally soft connection between an internal combustion engine and a driven machine.

Advantages of the highly flexible ARCUSAFLEX coupling:

- Very high torsional flexibility with a linear torsional deflection characteristic
- Backlash-free torque transmission
- Available in many different versions
- Available in 15 sizes: from 200 Nm to 110000 Nm
- Ease of assembly thanks to the plug-In type design 11 with ample axial float
- High torsional vibration and shock load absorbing capability
- Compensation of major misalignments
- Torque limitation protecting the drive against overload
- Compliant with EU regulation 94/9/EG (ATEX 95)

Bushes & Hubs

Chain & Drives stock the complete range of taperlock bushes to complement our coupling, pulley and sprockets stock.

They include: 1008 - 1108 - 1210 - 1610 - 1615 - 2012 - 2517 - 3020 - 3525 - 3535 - 4040 4545 - 5050 - 6050.

We stock the complete range of weld-on hubs in short reach and long reach models. They may be used to in assisting use of taper lock bushes to melt your equipment to a driven shaft.

Our stock includes: W/WH12 - W/WH16 - W/WH20 - W/WH25 - W/WH30 - W/WH35 W/WH40 - W/WH45 - W/WH50 - W/WH60.

We also supply QD bushes and various shaft locking assemblies.

The Taper Lock Bush is a tried and proven method for fixing a driven device to a shaft. The simple design allows for easy maintenance, has an easy-on, easy-off process. We stock a range of items that are used in conjunction with Taper Lock Bushes including sprockets, pulleys and couplings.

Taper Lock Bushes come in a variety of bore sizes, in both metric and imperial. Locking Assemblies provide reliable, high strength keyless connections by converting locking screw clamp loads into radial contact pressures applied simultaneously to both the shaft and the bore of the mounted component. The resulting zero-backlash mechanical interference fit will accommodate high torque, thrust, bending and/or radial loads and unlike other mounting technologies will never wear or pound out, even for high cycle fluctuating or reversing loads. Locking Assemblies also provide reliable, high strength keyless connections for shaft driven devices. When the Locking Units bolts are tightened plates engage with both the shaft and the inside circumference of the driven component. The Locking Assembly distributes the applied pressure evenly. No keyways or grubscrews are required with this device.

Description

Taper-Lock or QD weld-on hubs are for use in the fabrication of conveyor pulleys, plate sprockets, fans and impellers. Weld-on hubs are made of low carbon steel for good welding compatibility.

Features/Benefits

Weld-on hubs are made of 1015-1025 steel, drilled, tapped and taperbored to receive the TAPER-LOCK bushing. They are useful for welding into fan rotors, pulleys, plate sprockets, and must be firmly mounted onto shafting. Four types of hubs are available.

QD weld-on hubs: are made of low carbon steel for good welding compatibility. They are useful for welding into fan rotors, impellers and agitators, which require secure mounting to the shaft. A standard type is available in addition to one that is specifically designed for use in the end disc of a conveyor pulley.

Hitachi Chain

SBR PRIME

» Maximum allowable load increased by 30%. Highest published M.A.L of any of the premium quality chain brands
» SBR-Prime offers long service life for chain and selection with M.A.L equal to a chain size lower. This is achieved by compressive residual stress zoning. They have identifed the areas of the chain that
» benefit from better tolerances and made improvements. Triple zone hardness of all components high energy mechanical process - three layers of hardness instead of one as different parts of the pin and bush respond better to different hardness
» Stainless steel blast treatment for pin and bush combined with special lubrication offers corrosion resistance to these components

HITACHI SBR-CR

Hitachi SBR-CR Corrosion Resistant series roller chain is a highly cost effective alternative to both stainless steel and nickel-plated roller chains traditionally used in medium to high corrosive applications. The coating is applied using a mechanical plating system that does not flake or peel and will not contaminate valuable processing lines.

All parts of the roller chain are individually coated prior to chain assembly ensuring total protection for all roller chain parts. Other coatings applied to already assembled chain don't penetrate the parts that need the protection most and also wear from the moving parts of the chain-further exposing them to corrosion early in their service life.

HITACHI NEO-SBR CHAIN

Heavy duty offset side bar Crank Link chain and conveyor chains are imported by Chain & Drives.

The Hitachi chain range is manufactured in Japan and is the ultimate in premium quality roller and conveyor chains. The standard range offers features and benefits not available in some of the other leading brands available in Australia.

SBR-Solid Bushing and Solid Roller provide total contact between pin bushing and roller increasing wear resistance and reducing elongation-significantly improving chain service life. Neo special double surface treatment of the pin and bush provides corrosion resistance and a further increase in wear resistance.

New improved connection link design with wide waste plate improving stress distribution and fatigue resistance. Chain & Drives also offers the new Hitachi inspire series SBR chain.

Please contact us for a catalogue today.

Hitachi Chain

Heavy Duty Crank Link Chain

Trencher Chain

EQUIPMENT DRIVE CHAIN

Chain & Drives supplies Hitachi and GB chain and sprockets suitable for the hire and earthmoving industry.

We supply Road Roller drive chain, Asphalt Paver chain assemblies and Grader drive chain. Chain & Drives also supply heavy duty offset side bar crank link chain suitable for propel drive track chain assemblies. Our crank link chain is also used on industrial tromel drives.

To complement chain supplied for your equipment we also stock replacement drive sprockets and can machine these to suit unique machining requirements.

Chain & Drives also supplies GB trencher and frost chains for trenching machines and industrial hire equipment.

We also supply scraper chain assemblies and sprockets suitable for earthmoving equipment.

Chain & Drives supply HE series Hitachi chain to suit Bobcat and Skidsteer Loader drive chains. We also can supply machined sprockets to suit your equipment.

DRILL CHAIN

Chain & Drives supply Hitachi NEO-SBR Prime Series heavy duty drill rig pull down chain.

Our drill rig chain incorporates all features of NEO-SBR Prime +30% maximum allowable load and triple zone hardening on all components. Our drill rig chain is also available with Hitachi CR Corrosion Resistant chain coating system.

Sizes include 100 1-1/4", 120 1-1/2", 140 1-3/4", 160 2", 180 2-1/4", 200 2-1/2"

Chain is available in simplex and duplex - meeting all international standards.

We supply HE series and Super H series chain. Drill Rig chain available in standard and CR series.

HITACHI ENVIRONMENTAL

Clarifier Tank Assemblies

Non-metallic Chains

Stainless Chain

Hybrid 7 Non-metallic Sprockets

Fibreglass Flights

- As the distributor for Hitachi Environmental Products, Chain & Drives offers a wide variety of products and components for use in standard wastewater treatment facility scraper equipment
- Stainless steel and non metallic chain products are available from Hitachi purpose built manufacturing plants in Japan and the USA
- Chain & Drives offer after-market replacement and complete new system installations on most applications

Leaf Chain

FB GAUGE

The FB Chain wear gauge enables you to track chain wear at each service and take any necessary action.

The FB gauge is a 'how much worn' chain gauge, showing chain wear in 1/4 percent increments from 0% to 4% worn with a red warning box appearing at 2%.

Old style chain wear gauges only tell you that a chain is either worn out or not worn out.

The FB gauge alerts you to chains that could be dangerously worn out before the next service and will provide consistency across your whole service team. It works on all pitch sizes from 3/8 to 3 inch.

LEAF CHAIN

Leaf Chain is the most simple of steel chains, consisting only of link plates and pins. This chain has greater tensile strength than roller chains and runs over sheaves rather than sprockets. They are suitable for hanging, balancing or motion transmitting applications. Leaf chains are often used as counterweight chains for machine tools, elevator and oven doors, fork lift truck masts, spinning frames and similar lifting or balancing applications. Plates are connected by pins and hold the tension loaded on the chain.

Chain & Drives supply Hitachi, GB, Rex, DongBo & Sedis in all types of leaf chain to suit forklifts, drill rigs and industrial equipment.

AL TYPE

Plate configuration and thickness are the same as ANSI roller chain. Pin diameter is almost the same as ANSI roller chain. AL series (American Light) chain (manufactured to the ANSI B29.9 standard) is constructed from American standard roller chain components. AL series chain is lightweight chain used for light load lifting applications and machine tools.

BL TYPE

BL Series leaf chains consist of link plates which are thicker and larger in contour than the AL Series link plates of the same pitch. The link plates have the same thickness as the link plates of the next larger pitch size in ANSI roller chains. The pins have the same diameter as those of ANSI roller chains of the next larger pitch.

LL TYPE

LL series (European Light – Leaf Light) chain, manufactured according to ISO4347, DIN8152 and NFE26107, is constructed from roller chain components to European standard. Like AL series chain, EL-LL series chain is a lightweight chain used for light load lifting applications and machine tools.

Our chains batch serial numbered so it can be tracked back to the manufacturing process. All chain batches manufactured are QA checked before shipment - the material quality, heat treatment, workmanship and chain tensile strength is assured on all sets of Leaf Chain supplied

We supply 1/2" pitch to 3" pitch leaf chain. Including 2x2 lacing, 3x2 lacing, 3x4 lacing, 4x4 lacing, 4x6 lacing, 6x6 lacing and 8x8 lacing.

IWIS

- Standard roller chains according to DIN 8187 from 04B up to 32B in simplex, duplex and triplex versions as well as IWIS standard
- Double-pitch chains according to DIN 8181 from 208B up to 216B
- Standard roller chains according to DIN 8188 (American standard) from 08A up to 16A
- Conveyor chains
- MEGAlife chains
- CR chains
- Power and free conveyor chains
- Nanochain for precision chain drives
- Transfer chains
- Grip chains
- Side bow chains
- Tube and can (pin oven) transport chains
- Leaf chains
- Pallet transporting chains
- Plate chains
- Tools
- Automatic Tensioners
- Extensive product program according to the ISO-Norms, DIN and ANSI
- Assembly of program on modern production lines and use of high quality materials
- All chains are pre-stretched: a guarantee for minimal initial elongation
- Roller chains according to DIN 8187/ISO 606 from 04B up to 72B in simplex, duplex and triplex versions
- Standard roller chains according to DIN 8188/ANSI B 29.1 (American Standard) from 03C up to 48A-3
- Roller chains with diverse attachments and special attachment plates
- Hollow pin chains

APPLICATIONS

- Agricultural chains
- Leaf chains
- “Coated” corrosion protected roller chains according to American and European standard
- “Everlast” low maintenance roller chains
- Heavy-duty cranked-link transmissions chains according to DIN 8182 and ANSI 29.10
- Accumulation chains
- Numerous special conveyor chains
- Stainless steel flat top chains
- Plastic flat top chains
- Plastic and iron Conveyor chains
- Straight running plate top chains
- Straight running modular belts
- Side flexing modular belts
- Transfer comb
- Drive sprockets
- Idler sprockets
- Idler wheels

iwis antriebssysteme
wir bewegen die welt

FLEXON®

JWIS®

ELITE®

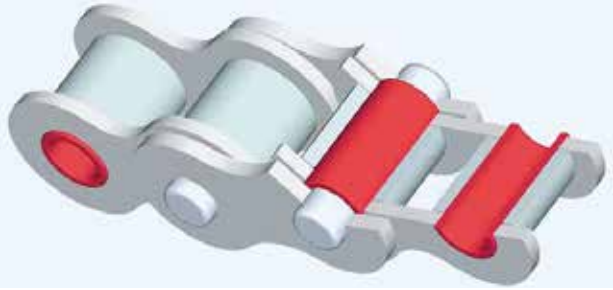
IWIS

MEGALIFE

MEGAlife maintenance free roller and conveyor chains can be applied in all areas where post installation lubrication is not (or only partly) possible. This is the case in clean and dry surroundings or in applications with difficult lubrication passage.

MEGAlife maintenance free chains are corrosion resistant due to nickel-plated parts and can be utilized in a temperature range from –40°C up to +160°C. The chains are supplied either dry or with special-purpose lubrication in line with the requirements of the applied application.

- Excellent wear resistance even at high speeds and loads where conventional maintenance free chains can stretch
- Maintenance free under certain conditions
- Extremely high levels of fatigue and breaking strength
- Protected from corrosion
- Easy to dismantle
- Reduced overall maintenance cost
- Less production still-time
- Environmentally friendly as lubrication is not necessary



POWER BEND

IWIS power bend chains, for synthetic belt bend applications, offer the best solution for radial synthetic belt bend applications - with minimal radii. All chains are manufactured with IWIS' premium precision ANSI side-bow roller chains which have a unique tapered pin and chain link design.

Belts are driven by attaching the outer radius to the chain via a stud and O-ring. This system can also incorporate a bearing, further reducing friction in the system.

- All tension is transferred to the chain rather than the belt ensuring optimum product stability
- Available in 3 sizes: ASA 40 / ASA 50 / ASA 60
- Available in carbon steel with bearings
- Available in nickel-plated finish with stainless steel bearings or studs for wash-down applications

SPECIALITY CHAIN

As technological leader in Europe, we develop and manufacture innovative precision chain systems which set high standards in quality and profitability. Our manifold product program high quality standard products through to high-precision quality chains for flexible and customized applications of any kind.

As a system manufacturer, we offer holistic solutions which go far beyond the chain and implicate the application as a whole - technical perfection of highest quality for maximum customer benefit - that is our high standard.

Chains and Drives products are sold by our worldwide through subsidiaries and qualified distribution partners in more than 30 countries on all continents.

Standard roller chains according to DIN 8187 from 04B up to 32B in simplex, duplex and triplex versions as well as our IWIS standard

- Double-pitch chains according to DIN 8181 from 208B up to 216B
- Standard roller chains according to DIN 8188
- American standard from 08A up to 16A
- Conveyor chains
- MEGAlife chains
- CR chains
- Power and free conveyor chains for precision chain drives
- Transfer chains
- Grip chains
- Side bow chains
- Tube and can (pin oven) transport chains
- Leaf chains
- Pallet transporting chains
- Plate chains
- Tools
- Automatic Tensioners

GB Ansi & BS Chain - Agricultural Chain

KANA JAPAN

Our BS range includes 05B 1/4", 06B 3/8", 08B 1/2", 10B 5/8", 12B 3/4", 16B 1", 20B 1-1/4" 24B 1-1/2" 28B 1-3/4", 32B 2" & 40B 2-1/2" pitches. Chain stocked in simplex, duplex, triplex and quadruplex.

Chain & Drives supply all types of agricultural chain, including S32, S42, S52 and S62. We also stock attachments to suit this style of chain.

Chain & Drives supply harvester, bailer, agricultural equipment chain and attachments including CA550 and CA557.

We also supply press steel chain PS25, PS32, PS42, PS51, PS52, PS62 and PS72.5.

Other chain supplied includes double pitch, conveyor chain, A-C 2040, A-C 2050, A-C 2060H and A-C 2080H.

Specialised steel pintle agricultural chain includes D667K, D667H, D88K.

Chain & Drives supply the complete range of standard ANSI & BS standard roller chains. We also supply this range in stainless steel.

Our ANSI range includes 25 1/4", 35 3/8", 40 1/2", 50 5/8", 60 3/4", 80 1", 100 1-1/4", 120 1-1/2", 140 1-3/4", 160 2" and 200 2-1/2" pitches.

Chain stocked in simplex, duplex, triplex and quadruplex. ANSI chain stocked in standard, (H) heavy duty and (SH) super heavy duty.

Conveyor Chain, Attachment Conveyor Chain & Specialised Conveyor Chain

Chain & Drives supply the complete range of AS, BS and European standard conveyor chains. We can locally assemble conveyor chains, fitted with attachments, to your specific requirements.

Chain & Drives can assist with CAD design and manufacture of specialised conveyor chains made to requirement.

Sharp Tooth Timber

Escalator Conveyor

Roof Top Conveyor

Attachment Roller Conveyor

Rice Harvest

Flat Top with Base Roller

Double Pitch Conveyor

Attachment Chain

BS Conveyor

Chain Attachments & Links

Chain & Drives supply the complete rage of chain attachments and links. Links to suit ANSI series chain, BS series chain and conveyor chains.

Roller Link

Con Link Circlip

Pin Link

Con Link Spring Clip

Con Link Spring Clip

Offset Link

Con Link Cotter Pink

Con Link Pin Type

K-1

SA-1

WK-1 / WK-2

SK-1

WSA-1 / WSA-2

A-1

WA-1 / WA-2

WSK-1 / WSK-2

Sprockets

Weld Fit Sprockets

Taper Bushed Sprockets

Harden-Teeth Sprockets

Special Sprockets

Standard Bore Plate Wheels

Standard Bore Sprockets

Chain & Drives stocks all types of industrial sprockets to complement our chain products.

We supply pilot bore, taper lock and weld fit sprockets in all chain sizes.

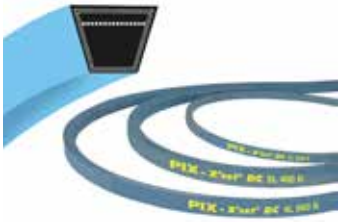
Our sprockets are manufactured from high grade steel and supplied with induction hardened teeth.

Chain & Drives are experienced in working with OEM requirements and can offer tailored services and special indent orders to suit your equipment needs.

Chain & Drives also offers CAD design and manufacture of specialised sprockets to suit your equipment's requirements.

Chain & Drives provide manufacturing and machining requirements for all sprockets.

Belts



Chain & Drives supply many types and brands of industrial V belts. They include the market leading PIX and Rexon belts and industrial belting products.

V-belts and wedge belts are designed to link two or more rotating shafts. They offer high efficiency, high misalignment tolerance, and are economical and virtually maintenance free. They are used to drive and control moving component parts in automotive, industrial and agricultural applications.

Wrapped V-belts and high capacity wedge belts remain the most widely used belt/pulley systems in service today. Raw edge cogged V-belts and wedge belts enable the use of smaller pulley diameters and save costs on drive design.

Banded V-belts consist of several single belts that are joined as one unit with a band at the top. This design absorbs the natural vibration generated by individual belt sets. They are also used for their high strength and lateral rigidity.

Kevlar corded V-belts are stronger than conventional drive belts, due to the high strength of the Kevlar cords and the heat resistant cotton wrap that covers the outer edges of the belt. Kevlar corded V-belts are suitable for all heavy duty applications.

We can also supply cog belts and branded belts in all sizes. SPZ, SPA, SPB, SPC, 3/9VN, 5V, 8V, A & B sections.

We supply industrial timing belts including MXL, XL, L, H, XH, XXH, D-XL, D-L and D-H.

Chain & Drives also supply high powered V-belts for heavy duty applications. We can we also supply kevlar belting suitable for the lawn equipment market. We offer design and supply of any Poly Chain and pulley drives you may require.

REXON

PIX BELTS & HOSES

Chain & Drives can also supply specialised belting to your individual requirements.

Pulleys

SPA SPB SPC SPD
8V Taper Lock Pulleys

Pilot Bore Pulleys

Variable Speed
V-Belt Pulleys

Pilot Bore Timing

Alloy Pulleys

Chain & Drives stock all types of pulley products. SPA, SPB, SPC, SPD, 8V, A & B section.

Pulleys are dynamically balanced and suit standard taper lock bushes. We also supply industrial timing pulleys to suit HTD timing belts.

We also offer special designed and manufactured pulleys to meet your requirements.

The Standard Vee Belt Pulley drives have been around for more than 50 years. It is used in many applications throughout industry and is one of the most recognised power transmission drives ever made.

Belt Drives are used for high speed high power applications including:-

Pump Drives, Fan Systems, Blowers, Crusher Drivers, Agricultural Equipment, Lawn & Garden Equipment and Automotive Drives to name a few.

Our Pulleys are available in single and multi strand (up to 12 grooves) in standard Pitch Circle Diameters (PCD) from 63mm up to 1250mm. They are available in the 4 standard SPZ, SPA, SPB and SPC section belts in Vee and Cogged X design.

Standard Taper Fit designs accommodate a huge range of imperial and metric bore. Taper bore hubs available in stock for immediate delivery. Light weight taper lock design allows easy installation onto shafts and simple removal for any future maintenance requirements.

Our Pulleys are manufactured from high quality cast iron materials meeting international standards. High quality castings are dynamically and statically balanced, ensuring maximum service life in new and replacement applications. The latest Pulley and Taper Fit Bush technical reference catalogue is available for download from our web site

The SPA, SPB, SPC and SPZ series is the new and improved version of the Vee Belt drive. It is capable of greater power than the standard A, B C&D section, giving a more compact drive. For further information or help in selecting a drive contact us today.

We stock all types of pulley products. SPA, SPB, SPC, SPD, 8V and A & B section.

Pulleys are dynamically balanced and suit standard taper lock bushes. We also supply industrial timing pulleys to suit HTD timing belts.

Our in house CAD design team offer specially designed and manufactured pulleys to meet your requirements.

TAPER LOCK PULLEYS

Chain & Drives Heavy Duty Industrial Taper Lock pulleys are manufactured using the finest quality materials for maximum performance and increased belt life even under the most severe working conditions.

All our pulleys are precision machined and statically balanced to industry specifications to ensure a reliable, concentric part for smooth operation.

Our pulleys are manufactured to suit the following belt cross sections:

» SPZ, SPZX, 3V, 3VX and M
» SPA, SPAX and A
» SPB, SPBX, SV, SVX and B
» SPC, SPCX and C Section

FM Clutches

Chain & Drives supply the market leading FM Series Heavy Duty Clutches. Our range cover 30HP through to 5000HP.

Our clutches are manufactured to your specifications and fit all types of engine flywheels.

Clutches are supplied with Universal Joints, Flexible Couplings and Centaflex Couplings from our local stock.

This is an example (left) of our FM400 clutches fitted with Centaflex series 140 couplings and one rated for 400HP operation. Its design provides smooth clutch operation with excellent speed and power transfer. The Centaflex coupling eliminates harmonic vibration and provides great protection against misalignment. These clutches are used by the Water Corporation in Western Australia.

They are an economic alternative to conventional transfer gearboxes used in dredging application and pump drive assemblies

Talk to us about your application.

Centrifugal Clutches

Chain & Drives are the distributor of the Lawrence Clutches range of centrifugal clutches.

- Diesel engine FM Series Clutch range up to 3000 HP Lawrence 4HD, 5HD, 6 series, 9 series and 10 series clutches
- In-line centrifugal coupling clutches
- Max torque Go-kart clutches
- Lawrence custom designed clutches
- Flywheel, universal joint and flexible coupling mount clutches
- The Aussie agricultural range of 4HD and 5HD clutches

Bearings

Typically a bearing is a component of a machine that transfers or supports load and rotation of parts.

We supply market leading bearings and rotating machine parts to all Australian industries and sectors including:-

Agriculture - Building & Construction, Conveyor Drives, Feed & Food Factory, Automation, Mining & Heavy Industry, Plastics & Chemicals, Renewable Energy, Waste Water Treatment

Our expertise in this field provides customers reduced downtime and lower maintenance cost of your capital equipment.

The range of industrial bearings include: ball bearings, spherical bearings, taper roller bearings, sealed bearings, linear bearings, linear rails and their associated products.

We supply a large range of industrial bearing housings in cast iron and stainless steel.

Sealed Bearings

Bearing Housing Assemblies

Linear Bearing

Ball Bearings

Taper Roller Bearings

Stainless Steel Bearing Assemblies

Spherical Roller Bearings

Vibration Mounts

We supply the complete range of vibration mounts. From mounting delicate electronic equipment to very large engine sets, we has a standard mount to suit the application.

- Vibration Isolators
- Rubber Seals
- Radiator Hoses
- Rubber Hose
- Engine Mounts
- Suspension Bushes
- Engine Hoses
- Rubber Design
- Pedal Pads
- Exhaust Mounts
- Rubber Buffer
- Rubber Bellows
- Conical Mounts
- Rubber Injection Moulding

Oil Seals & O-rings

We supply a complete range of seal, O-rings, gaskets and sealing products from all leading Seal manufacturers.

Chain & Drives have a strong and dedicated team of Research and Development. We design, develop and carry out material research and follow up with customer requirements.

All our products meet with ISO9001/TS16949 requirements. Designs and manufacturing processes of Chain & Drives' products are done with state-of-the-art equipment. New products are developed using the most advanced lab equipment combined with the latest technologies and fully conform to international standards including ASTM, DIN, BS, JIS and SA.

We supply seals in Viton, Nitrile and specialised materials for all applications.

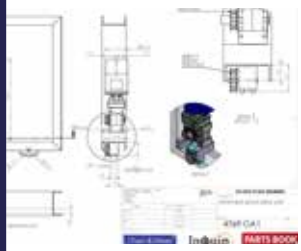
We can design custom sealing solutions for many applications including taconite and labyrinth seal assemblies.

Specialised Products

POWER TRANSMISSION

- Chain & Drives supply general power transmission products to suit your individual requirements
- They include: CB1; CB2 and CB3 chain breakers and chain rivet punches (to suit up to 200 chain.) Molybond chain lubrication products
- Specialised design industrial gearing; Rack and pinion assemblies; linear actuators, linear rail and bearings and fluid couplings
- Specialised gearbox and drive assemblies; labyrinth and taconite seal assemblies
- Chain & Drives can design and manufacture specialised products to meet your specifications

Below are examples of custom designed and manufactured sprockets.



CUSTOM BUILDS & SPECIAL PROJECTS

- Chain & Drives offer complete power transmission products and services.
- Our design team will assist you through concept design to construction drawings.
- We will then have your product manufactured to your specifications.

Our scope includes all types of power transmission products including:-
Sprockets, specialised conveyor chain, coupling assemblies, specialised pulleys and specialised couplings

Our AC & DC drive assemblies include:-
Conveyor drives, mixer drives, crusher drives, factory automation and solar tracking drive assemblies

ROLL-RING TENSIONERS

Roll-Ring Chain Tensioners to suit both BS and ANSI Chains, ROLL-RING Chain Tensioners can be applied in a wide variety of fields of mechanical engineering and are very easy to install.

ROLL-RING Chain Tensioners do not require any time for maintenance or adjustment; they are automatic, always exactly diametrical and self-lubricating in chain operation.

Specialised Products

TENSIONER AND IDLERS

Chain & Drives supply chain tensioner and idler assemblies.

Our tensioners are interchangeable with Roster and Resetec.

We stock idler sprockets and rollers to suit our tensioners and all chain & pulley drive applications. We also supply the snap idle maintenance free chain tensioners.

We offer alternate tensioning system requirements:-

- Chain & Drives stocks a large range of quality Key Steel products
- Our Key Steel is supplied in standard or nickel plated
- We carry a full range of Key Steel they include metric rectangular, imperial rectangular and imperial square Key Steel
- We can also supply your special manufactured key steel requirements

SNAPIDLE CHAIN TENSIONERS

Snapidle chain tensioners provide minimal wear to the chain drive as the chain rides on the side plates.

Snapidle provides a constant amount of tension to the chain drive, increasing drive life. It tensions, guides, quietens, controls and increases both chain and sprocket life. It requires no mounting devices or maintenance and is a benefit to the drive system. Economical, easy to install and maintenance free, the Snapidle is the answer to the problem of controlling drive chains.

By taking up tension through the chain, Snapidle eliminates the need for adjustable centre distance drives. All chains may be ordered in even pitches (eliminating half links) since the additional tension taken up by Snapidle.

Snapidle "floats" on the chain drive and absorbs shock it does not add to vibration in the drive. Both sprockets will have the maximum chain wrap possible, thereby increasing chain life (load sharing) and sprocket life (the chain is unable to crawl out of the teeth).

On large chain drives, the expense to install a tensioning system may be prohibitive. A Snapidle unit at a fraction of the cost of traditional tensioning methods can tension almost any roller chain drive. Many multiple strand drives cannot be tensioned by traditional idling or tensioning systems and are economically fitted with Snapidle economically.

OEM EQUIPMENT PARTS MANUFACTURE

Chain & Drives supply many OEMs across Australia in many industry sectors needing power transmission products.

We offer a tailored solution to equipment specifications. Understanding our customers equipment and application is a priority. We can provide a 3D design of all components including non standard and specialised products.

We also offer scheduled delivery of components to meet build schedules, and assist with commercial requirements of our OEMs

We offer branding of our products labelled with your part numbers to assist you and your customers after-market supply requirements.

Actuators

LINAK's extensive range of actuators are robust, rugged and reliable.

They provide you with a serious alternative to hydraulic and pneumatic cylinders.

What makes actuators a viable option?

- Forces up to 1 tonne
- Stroke lengths to 1 metre (1.2m option available)
- IP66 Dynamic and IP69K Wash Down
- iFlex™ designates integrated electronics for direct PLC and Modbus Control
- 12, 24 or 36 V DC - 2D and 3D drawings available from website
- IEC Ex td - Dust Ignition Proof Certification

CONTROL OPTIONS

- Current Protection
- Servo Positioning
- Parallel Control (2,3,4 Actuators)
- Position Feedback (Potentiometer, Hall, Reed)
- Integrated MODBUS and PLC Control - Power Supplies

Our LA35 and LA36 actuators have been comprehensively tested to:-

- Climatic Tests including Cold Test, Dry Heat, Change of Temperature, Damp Heat, Salt Spray, Degrees of Protection and Chemicals
- Mechanical Tests including Vibration, Shock and Bump
- Electrical emissions and immunity which include specific applications including machinery, railway, recreational crafts, earth moving, automotive, agricultural and construction
- LINAK are world leaders in design and manufacture of electric linear actuators. A privately owned Danish company, LINAK employs over 1400 people across 26 countries

Bulk Materials & Dust Handling

Chain & Drives supply bulk materials and dust handling needs through it's sister company Inquip.

Inquip is the distributor for the WAMGROUP of companies, Oli Vibrators and Kinders range of bulk materials handling, processing and monitoring equipment.

The equipment range has been developed to assist the following industry categories:

- Cement Production and Batching Plants
- Mining and Processing Plants
- Municipal Waste Plants
- Waste Water Treatment Plants
- Quarrying, Crushing and Screening Plants
- Lime Dosing and Flocculent Plants
- Silo Storage and Powder / Granule Metering
- Bag Loading and Unloading Plants
- Horticultural and Agricultural Facilities
- Grain and Fodder Processing Plants

Please visit the Inquip website for further information.

inquip.com.au

OUR NEW INTERACTIVE WEBSITE WITH TOOLS, TRAINING, ONLINE FORUM, ONLINE STORE AND IN-DEPTH TECHNICAL LIBRARY COMING SOON.

CHAINANDDRIVES.COM.AU

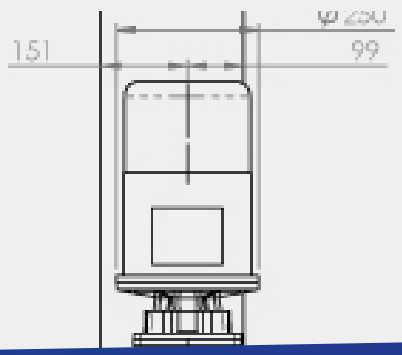
REGISTER NOW TO RECEIVE UPDATES

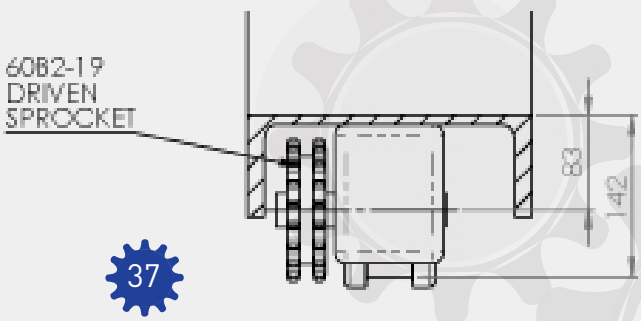
Project Management, Design & Support

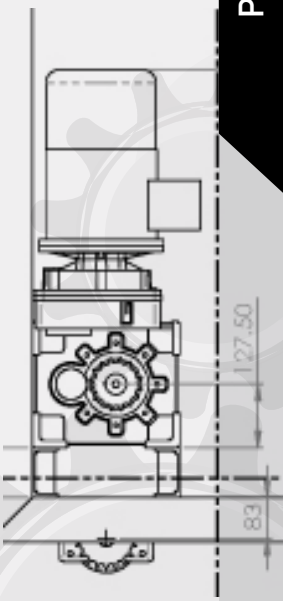
Chain & Drives offer design and support for all power transmission equipment requirements.

This includes understanding specific requirements and supply of CAD drawings and application data for review.

Chain & Drives will facilitate project management from initial consultation stage through to commissioning the finished project. Will also assist with maintenance planning, on-site services, reliability and application analysis.







CHAIN & DRIVES
COMPLETE POWER TRANSMISSION

POWER > SPEED > TORQUE

- INTRODUCTION & INDUSTRY SECTORS
- GEARBOXES
- MOTORS & BRAKES
- DRIVE ASSEMBLIES AND SERVICE & REPAIRS
- VSD & DRIVES
- COUPLINGS
- CHAIN & SPROCKETS
- BELTS & PULLEYS
- BEARINGS & SEALS
- CLUTCHES & SPECIALISED PRODUCTS – GENERAL POWER TRANSMISSION
- TOOLS & TRAINING – BULK MATERIALS HANDLING

Hitachi · GB · CENTA · AEG · LAWRENCE CLUTCHES

Rexroth Bosch Group · CR · INTORQ · LAFERT ELECTRIC MOTORS · weg · UBC · sealing products NAK

PIX BELTS & HOSES · DONG BO · REXON · sedis · KANA JAPAN · Koyo · iwis antriebssysteme wir bewegen die welt

TRANSTECNO THE MODULAR GEARMOTOR · WAMGROUP · OLI · KINDER BULK MATERIALS HANDLING SOLUTIONS · FB Chain · LINAK WE IMPROVE YOUR LIFE

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