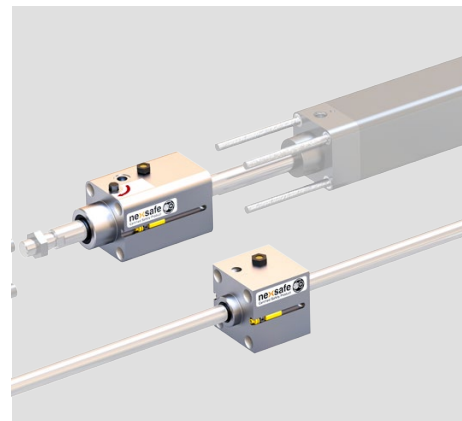
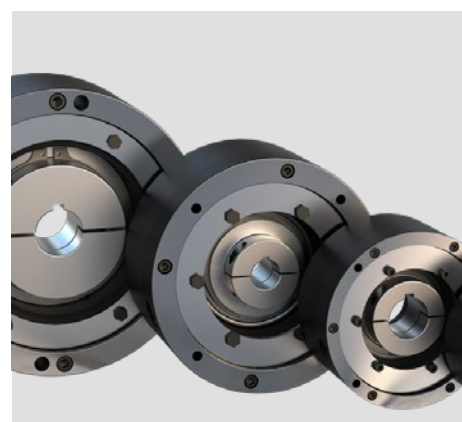
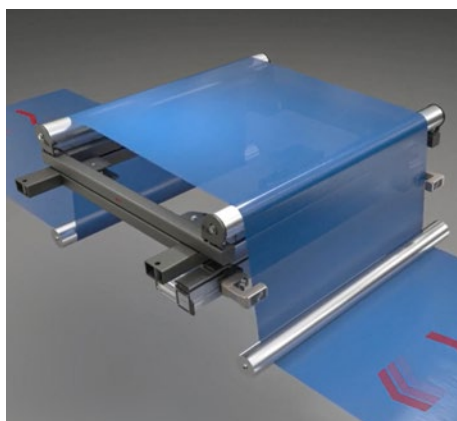
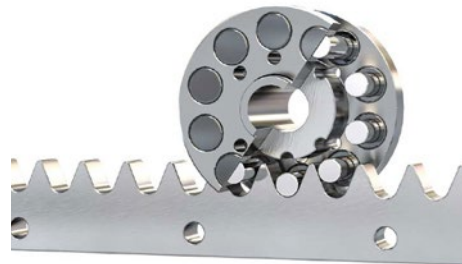
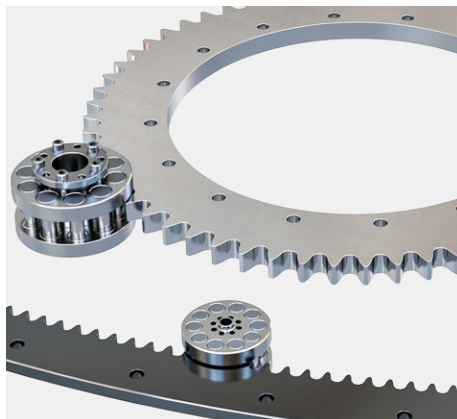




nexen.

IBD  WICKELTECHNIK
well engineered

 **BOSCHERT**

Erhardt+Leimer 

 **INSULFLEX**
Solving High-Temperature Problems Worldwide

 **SCHLUMPF**
DRIABLE & GROUP

 **DEUBLIN**

ZAP  **OFF**
ANTI-STATIC

 **OGURA**
INDUSTRIAL CORP.

MEROBEL

Roller Pinion Racks **Zero Backlash**

The Nexen Roller Pinion System (RPS) presents a fresh take on traditional rack and pinion systems, offering improved possibilities for linear and rotary motion control.

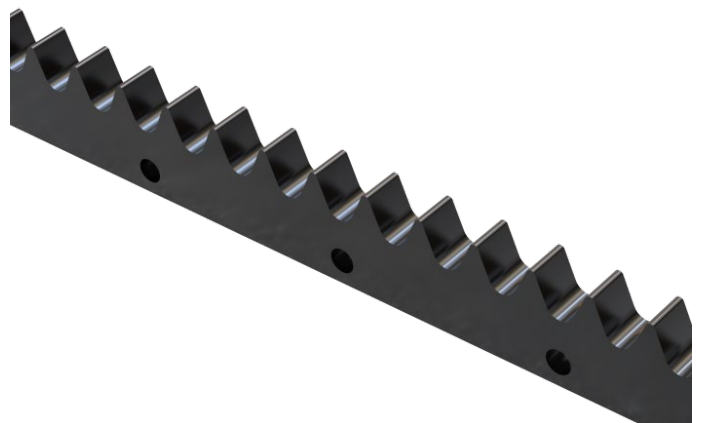


Applications

- Alternative to ball screws and rack & pinion
- Cartesian robots
- Dirty & corrosive environments
- Custom drilling and angular cutting machines
- Food Processing
- Gantry Router
- Non-destructive Testing
Medical Imaging
- Measurement systems
- Multi-head on a common axis
- Stainless steel requirements
- Plasma and laser cutting
- Vacuum environments
- Welding and Woodworking

Geared Bearing Features

- ✓ ZERO BACKLASH
- ✓ LUBE FREE OPERATION
- ✓ NO CUMULATIVE ERROR
- ✓ HIGH CORROSION RESISTANCE
- ✓ 99% EFFICIENT
- ✓ ACCURACY OF $\pm 30\mu\text{M}$ [.001 IN]
- ✓ RATED LIFE OF UP TO 30 MILLION CONTACTS
- ✓ SPEEDS OF UP TO 11 M/S [36 FT/S]
- ✓ UNLIMITED LENGTH POSSIBLE



Watch the Video
Roller Pinion Racks



Roller Pinion Gears Zero Backlash

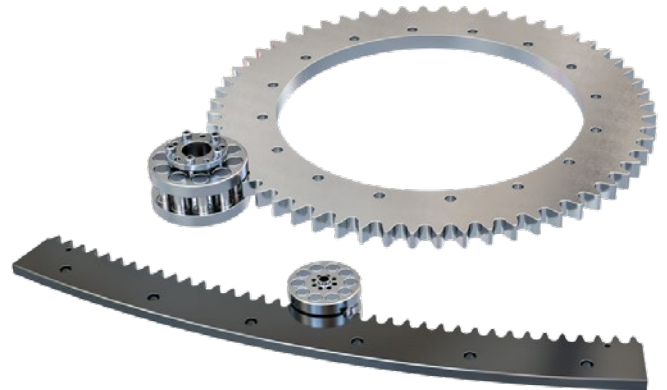
Nexen's Roller Pinion Gear System (RPG) includes a patented pinion consisting of bearing-supported rollers and a proprietary tooth profile.

Applications

- Cutting Systems
- Medical Products
- Robotics
- Aerospace
- Machine Tool
- Semiconductor
- Material Handling

Gear Features

- ✓ **HIGH INDEXING PRECISION** Nexen's Roller Pinion Gear Systems offer unmatched mechanical system capabilities with an indexing precision of up to ± 1.7 ArcSec and repeatability of up to ± 0.3 ArcSec.
- ✓ **ZERO BACKLASH** Unlike other mechanical drive systems, Nexen's Gears offer zero backlash.
- ✓ **HIGH SPEED** Nexen's Roller Pinion Gear Systems can handle speeds up to 607 RPM, and unlike traditional cam-driven systems, it can handle peak torque inputs at any time. This allows for faster indexing times than other options.
- ✓ **LOW NOISE**
- ✓ **LOW MAINTENANCE**
- ✓ **CORROSION RESISTANCE**
- ✓ **NO CUMULATIVE ERROR**



Geared Bearing Features

- ✓ **HIGH PRECISION RPS GEARS** Zero Backlash, One-way positional accuracy as accurate as ± 13 ArcSec, One-way repeatability as accurate as ± 1.6 ArcSec, Lubrication free operation
- ✓ **LARGE OPEN CENTER** Mount equipment and cabling through the center opening
- ✓ **HIGH OUTPUT TORQUE** Maximum acceleration torque of up to 4,313 Nm [3,181 ftlb], Nominal torque of up to 2,625 Nm [1,936 ftlb]
- ✓ **MOUNTING OPTIONS** Threaded hole mounting, Through-hole mounting, Piloting options
- ✓ **HIGH SPEED** Nexen Geared Bearings can handle speeds up to 632 RPM

Watch the Video
Roller Pinion Gears



Rotary Indexer Systems Zero Backlash

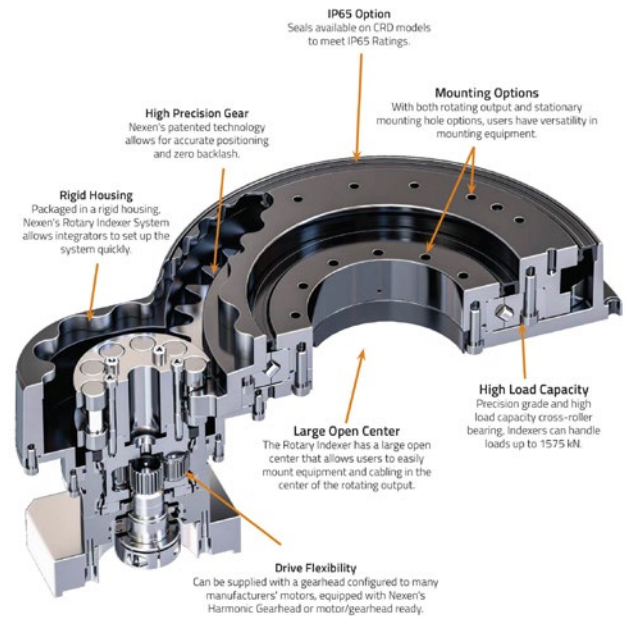
Nexen's Rotary Indexer Systems offer unparalleled accuracy, rapid acceleration, high speed, and impressive load capacity. They can be customized to meet diverse application requirements.

Applications

- Food Production
- Robotics
- Material Handling
- Machine Tool
- Cutting Systems
- Aerospace
- Defense

Features

- ✓ **HIGH INDEXING PRECISION** Indexing precision of up to ± 11 ArcSec and repeatability of up to ± 1.2 ArcSec.
- ✓ **ZERO BACKLASH** Nexen's Indexers offer zero backlash options from the motor through the driven load.
- ✓ **HIGH LOAD CAPACITY** Can handle loads up to 1575 kN (on PRD) by utilising precision grade, high load capacity cross-roller bearing,
- ✓ **HIGH OUTPUT TORQUE** Maximum acceleration torque of up to 4,811 Nm and a Nominal torque of up to 2,625 Nm.
- ✓ **HIGH SPEED** for speeds up to 304RPM.
- ✓ **LARGE OPEN CENTER** The design allows for a large open center for more application possibilities.
- ✓ **SMOOTH IN MOTION** Combining Nexen's RPS technology with a preloaded cross-roller bearing & an integrated motor/precision gearhead gives a rigid, smooth system.



X-Line of Rotary Indexers 3X Torque

Based on Nexen's established Precision Ring Drive Systems, the new X-Line delivers up to 3 times more torque and 2.6 times moment load capacity in a compact package.



Watch the Video
Rotary Indexers



Gearheads **Zero Backlash**

The Harmonic Gearhead integrated with Nexen's Roller Pinion System creates a true backlash-free solution from the motor to the driven load, delivering high load capacity in a compact package.

With up to a 70% reduction in length over standard gearheads, machine designers have greater opportunities available with this space-saving product.

Applications

- Aerospace
- Robots and Robotic Arms
- Semiconductor
- Factory Automation
- Medical/Surgical
- Machine Tools
- Rack and Pinion Systems



Gearhead Features

Gearheads are a replacement for non-rigid, bulky, high-ratio gearboxes.

- ✓ **SIZE** operates in less than half the space
- ✓ **ZERO BACKLASH** directly to the motor
- ✓ **QUIET OPERATION**
- ✓ **OUTPUT TORQUE** up to 1,057 Nm
- ✓ **THRUST** up to 6,000 N on units with integrated pinion output
- ✓ **ROTATIONAL ACCURACY** of ± 45 ArcSec and linear accuracy of $\pm 25 \mu\text{m}$ on units with an integrated pinion on the output
- ✓ **ROTATIONAL REPEATABILITY** of ± 10 ArcSec and linear repeatability of $\pm 7.5 \mu\text{m}$ on units with an integrated pinion on the output
- ✓ **RUGGED** cross-roller output bearing supports moment loads up to 1,590 Nm

evolve Electric Servomotor Brakes **Zero Backlash**

Nexen Group is redefining the electric brake market by creating the Evolve line of Electric Servomotor Brakes.

Evolve Electric Servomotor Brakes offer the **SPRING ENGAGED & ELECTRICALLY RELEASED** solution for a more robust machine design.

Applications

- Food Production
- Robotics
- Converting
- Metal Processing
- Gantry
- Wood Processing

Features

- ✓ **STANDARD VOLTAGE OPTION:** Available in 24 VDC
- ✓ **FRAME SIZES:** Industry-standard 155 mm, 125 mm, and 100 mm frame sizes
- ✓ **ZERO BACKLASH HOLDING:** Nexen utilises a flexible rotor and flexible discs for true Zero Backlash up to 100% of holding torque.
- ✓ **ZERO BACKLASH CLAMP COLLAR:** The easy-to-install split-hub shaft collar, with a backup keyway, prevents backlash for smooth stopping and precision holding up to and beyond the minimum holding torque.
- ✓ **EASE OF INSTALLATION:** An air gap is set at the factory, so there's no need for initial adjustment or fine-tuning in the field. Rated torques are achievable out of the box.
- ✓ **OVERHUNG LOAD:** Double Row Angular Contact Bearing delivers high overhung load capacity and axial rigidity.
- ✓ **ENVIRONMENTAL PROTECTION:** Sealed housing meets IP65 dust and waterproof standards.



Operation

The Nexen Electric Servomotor Brake is spring engaged, electrically released.

In a de-energized state, the double-sided friction disc assembly is constrained between the output flange and the armature plate by compression springs.

Torque is transmitted through the shaft to the armature plate via flexible discs, resulting in a Zero Backlash connection up to 100% of holding torque.

Watch the Video
evolve Electric
Servomotor Brakes



Nexsafe Safety Certified

Nexen NexSafe™ Functional Safety certified products provide a verified, reliable solution that machine builders can depend on in their design.

With ISO 13849-1 Functional Safety Certification by Intertek®, NexSafe products can be used on a machine for operations such as holding, emergency stopping, or positioning.

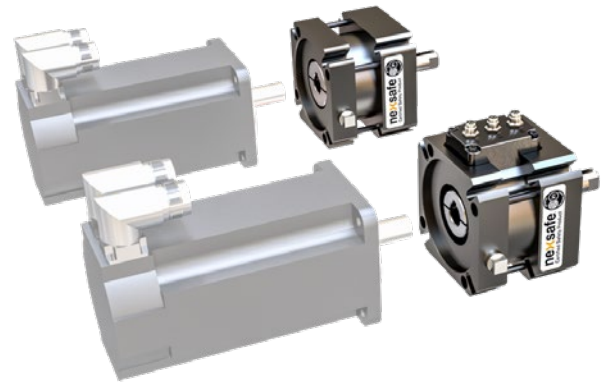
Applications

- ➔ Automotive
- ➔ Cyclical operations
- ➔ Food production (meets IP67)
- ➔ Gantry routing
- ➔ Semiconductor

Servomotor Brakes **Zero Backlash**

Nexen's Spring Engaged, Air Released Servomotor Brakes are available safety certified to comply with international safety standard ISO 13849-1. Category Level up to 4 and Performance Level up to e, can be achieved using NexSafe™ products in recommended configuration.

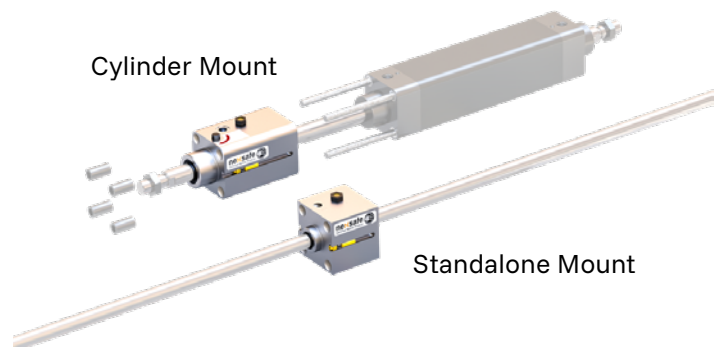
- ✓ Integral Clamp Collar with Backup Keyway
- ✓ Three Operating Mode Sensors are Available
- ✓ Multiple Engagement Springs
- ✓ Default to Lock
- ✓ Easily mounts directly to a servomotor flange



Rod Locks **Zero Backlash**

Nexen's Static Rod Locks deliver precision holding with virtually no backlash, providing high accuracy in demanding applications.

- ✓ Precision operation maintains accurate positioning
- ✓ Large clamping surface ensures consistent performance
- ✓ Spring-engaged units engage in power-off situations
- ✓ Sealed to withstand harsh environments
- ✓ Manual release

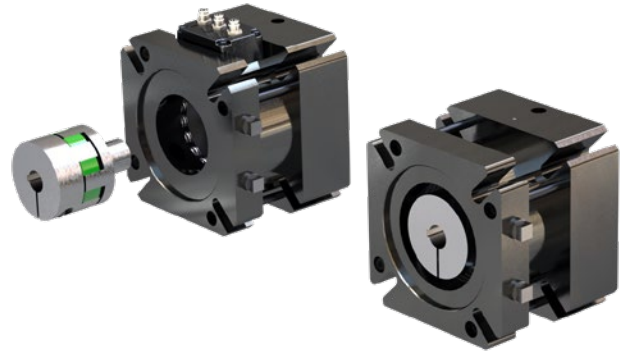


Watch the Video
Nexsafe Products



Ball Screw Brakes

Nexen's Ball Screw Brake serves as a primary or redundant safety brake to prevent back driving if a power loss or mechanical defect occurs.



Applications

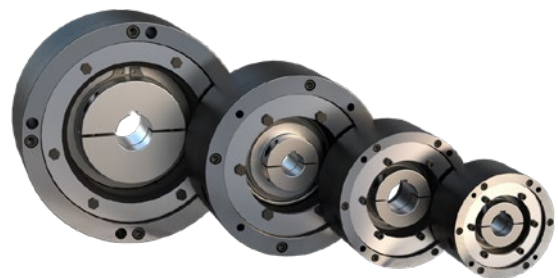
- Medical equipment
- Robotics
- Material handling systems
- Custom lifts
- Work platforms
- IP67 rated conditions

Features

- ✓ SPRING ENGAGED, AIR RELEASED
- ✓ LOW INERTIA
- ✓ HIGH TORSIONAL RIGIDITY
- ✓ BI-DIRECTIONAL BRAKING
- ✓ FAST ENGAGEMENT
- ✓ MEETS IP67 DUST AND WATERPROOF STANDARDS
- ✓ ALLOWS FOR THERMAL EXPANSION OF BALL SCREW

ZSE Zero-Backlash Shaft Brakes Zero Backlash

These spring-engaged, air-released brakes offer outstanding holding for consistent, long-lasting performance.



Shaft Brake Applications

- Assembly/inspection tables
- Automotive
- Pharmaceutical
- Consumer goods
- Power-off holding
- Trunnion Tables

Geared Bearing Features

- ✓ LOW INERTIA
- ✓ OPEN THROUGH BORE
- ✓ COOL OPERATION
- ✓ SMOOTH TORQUE TRANSMISSION
- ✓ TRUE ZERO BACKLASH HOLDING
- ✓ ZERO BACKLASH COUPLING
- ✓ COMPACT HOUSING

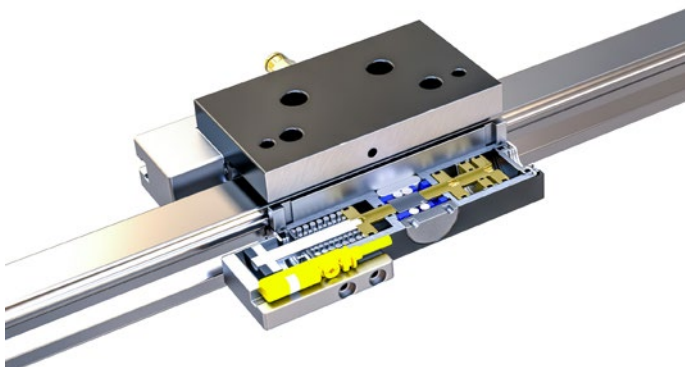
Nexsafe Rail Brakes

Nexen's Safety Rated Rail Brake Series of linear profile guide rail brakes use spring force to secure the load in holding applications. Superior response time and high force for stopping and holding in e-stop and power-off situations.

Each RBB brake clamps directly onto the guide rail to provide positive braking and holding in all axes, with no effect on bearing surfaces.

Applications

- Gantry Axis braking
- Industrial Door Open/Close locking
- Window & Door Manufacturing
- Primary & Secondary Packaging
- Medical equipment and hospital beds



Geared Bearing Features

- ✓ **LARGE FRICTION-FACING** contact area for consistent performance and low rail wear
- ✓ **IDEAL FOR POWER-OFF**, e-stop, and holding applications
- ✓ **LOW BACKLASH** for accurate position holding
- ✓ **BRAKE GEOMETRY** is similar to linear bearing cassettes for easy installation
- ✓ **PROVIDES STIFFNESS** and eliminates vibration in linear drives
- ✓ **LARGE CLEARANCE** between brake and rail compensates for installation misalignment
- ✓ **NO LUBRICATION** or periodic maintenance required
- ✓ Models available to fit most common profile guide rails
- ✓ **THE HIGHEST SPRING ENGAGED** / air-released holding force on the market
- ✓ **LONG-RATED LIFE** (B10D) of four million cycles

Watch the Video
Nexsafe Products



Power Transmission

Nexen products provide torque in clutches, brakes, torque limiters, and coupling products.

The power transmission product line includes a variety of designs that interface with imperial and metric components.

Friction Clutches



Tooth Clutches



Friction Brakes



Caliper Brakes



Friction Clutch-Brakes



Torque Limiters



Air / Winding Shafts

IBD Wickeltechnik Air Shafts and Core Holding Products are Engineered for the most demanding applications in the web industry. Quality, Engineered Design and Manufacturing ensures machine up time and quality winding on all types of machinery. Ensures machine up time and quality winding on all types of machinery.

Lightweight Aluminium Winding Shafts



High-Power Clamping Shafts



Standard Aluminium Clamping Shafts



Pneumo Mechanical Precision Shaft



Winding Shaft Accessories

Filling Pistol With
Manometer &
Equipment



Spare Parts for High-
Power Clamping Shaft



Spare Parts for
Clamping Shaft



**More
IBD
Products**



Safety Chucks

The Boschert Classic Chuck "C-Chuck", since creation in 1948, became a standard in various industries.

The C-Chuck is similar to the VT-Chuck. The swivelling handwheel secures the journal of the winding shaft in the square bars.



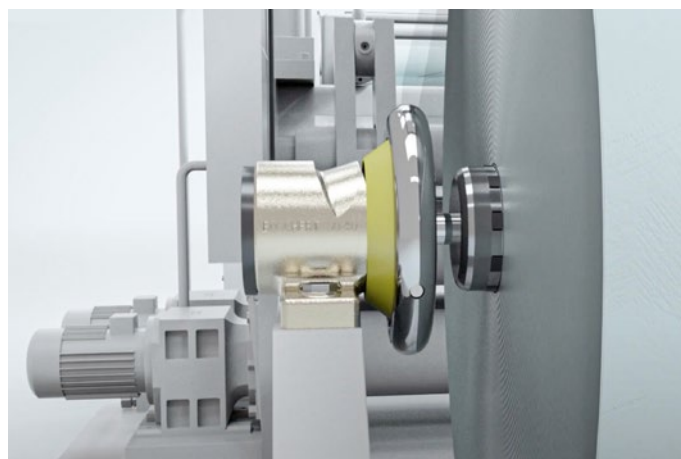
C Safety Chuck

- ✓ FOOT MOUNTED OR FLANGE MOUNTED CHUCK
- ✓ WITH OR WITHOUT SHAFT END
- ✓ CHROMED HANDWHEEL
- ✓ RUBBER FINGER GUARD



VT Safety Chucks

- ✓ FOOT MOUNTED OR FLANGE MOUNTED CHUCK
- ✓ WITH OR WITHOUT SHAFT END
- ✓ CHROMED HANDWHEEL
- ✓ RUBBER FINGER GUARD
- ✓ QUICK REPLACEABLE OF VT WEARING PARTS

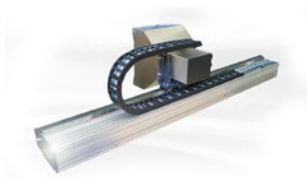


Watch the Video
Boschert
Safety Chucks



Web Guiding & Inspection

Erhardt+Leimer is a specialist for system solutions and automation technology on running webs and belts. Erhardt+Leimer rank among the worldwide leading suppliers of control, guiding, and inspection systems for the textile, paper, corrugating, film, tire, rubber, non-woven, and printing industries.



Elscan

With the Elscan web video system a camera takes an image of the print with respect to the web repeats and displays this image on a screen.



Elguider

On an ELGUIDER web guiding system, the web changes direction four times, each time by 90°.



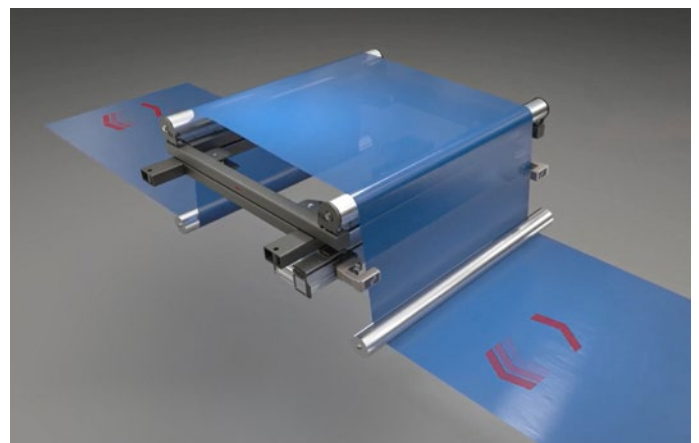
Elroller

ELROLLER steering roller systems used for web guiding already correct the web position on the infeed plane.



Elsmart

Guide profiles arranged around the circumference form the basis of the web guiding.



More
Erhardt+Leimer
Web Solutions



Rotary Unions



57 Series General Purpose Unions

The 57 series was designed to handle early wear by providing seal combinations that accommodate severe water conditions for both monoflow and duoflow configurations. The simple design allows for quick and easy replacement of each seal.

All 55 Series Unions have been updated to 57 Series General Purpose Unions. Eg: 355-000-222 is now 357-000-222



Deublin Paper Industry Steam & Water Unions & Siphon Systems

Deublin paper applications span the production chain from the raw pulp and paper mills, to the downstream paper converters. Mills use steam joint and siphon systems and water unions for heating and cooling. Converters use rotating unions for heating and cooling rolls, as well as winders with air clutches to the downstream paper converters.



F Series Unions for Water Service

Deublin 5" water rotating union allows for on-machine seal replacement for ease of repair and reduced downtime.



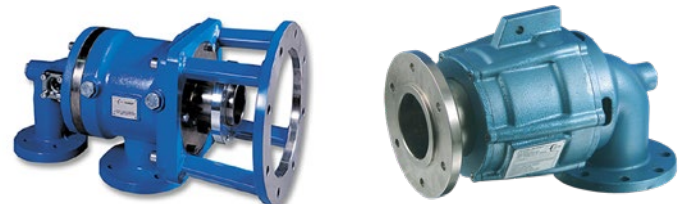
6000 Series Unions

The Deublin 6000 series was designed for easy seal replacement while on the machine. The rotary union can remain on the machine with the hoses to eliminate unnecessary downtime. The 6000 series can operate in high temperature and poor water quality.



Air/Hydraulic Unions

Reliable hydraulic rotary unions for high speed, high-pressure applications are available in a variety of mounting configurations. Hydraulic unions are available in many sizes to fit small spaces but are constructed for harsh environments.



Steam Unions

Deublin steam rotary unions provide consistent temperature control to help create a high-quality product. Select from the broadest line of off-the-shelf solutions or work with a team of expert engineers to create a custom solution.

Machine Tool Solutions

Which DEUBLIN® Seal Technology?

DEUBLIN offers five different seal technologies, in order to provide the best solution for every machining application. Only **DEUBLIN** can offer such flexibility to the machine tool designer.



1005 Series "Closed Seal" Rotary Unions

- ✓ Single passage for coolant or MQL applications
- ✓ Closed seals for transfer line and similar applications
- ✓ Full-flow design has no obstructions to trap chips or debris
- ✓ Bearing-supported with threaded rotor for easy installation
- ✓ Labyrinth system and vents to protect ball bearings
- ✓ Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions



902 Series Pop-Off™ Rotary Unions

- ✓ Single passage for coolant or MQL applications
- ✓ Closed seals for transfer line and similar applications
- ✓ Full-flow design has no obstructions to trap chips or debris
- ✓ Bearing-supported with threaded rotor for easy installation
- ✓ Labyrinth system and vents to protect ball bearings
- ✓ Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions



1139 Series - All Media

- ✓ For Coolant, MQL, & Air Service
- ✓ Single passage for all media
- ✓ Patented technology operates with closed seals for coolant, as a Pop-Off™ when pressure is removed, and as with a microscopic gap between the seals (controlled leakage) with pressurized dry air.
- ✓ Full-flow design has no obstructions to trap chips or debris
- ✓ Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions.

**More
Deublin
Products**

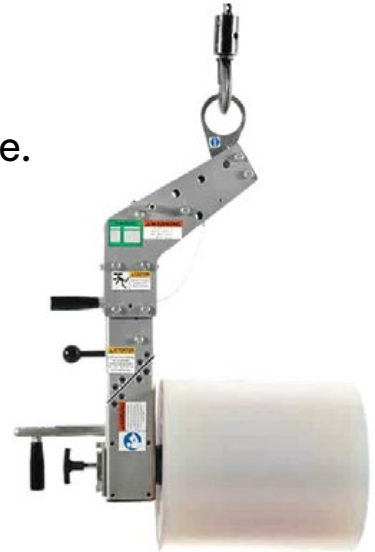


Hoist Based Roll Handling

Lift & Turn Handling

Lift and turn a roll of material with the greatest of ease. They are designed for manual or powered turning of rolls between horizontal and vertical.

- ✓ Effortless, easy to use turning
- ✓ Lift and rotate rolls and reels between horizontal and vertical by the core
- ✓ Unload rolls and reels onto machine spindles or carts
- ✓ Loading or unloading pallets
- ✓ Universal mandrel holder for easy change between core sizes



Horizontal Roll Lift

Schlumpf's Horizontal Roll Lifters are used to transport rolls in a horizontal position. The unit is supported by a hoist and allows operators to load or unload the rolls onto a machine spindle and to and from a roll cart or table.

- ✓ Below-the-hook lifting devices attach to standard hoist hooks
- ✓ Lift roll by the core or by supporting the outside diameter
- ✓ Manual, powered and automatic load leveling systems available
- ✓ Multiple tooling options available, including cradle and probe
- ✓ Pneumatic gripper retract and hoist integration available

Vertical Roll Lift

Lift and transport rolls by their core in a vertical position. A hoist is used to maneuver the rolls from a pallet, work table or to a cart.

- ✓ Below-the-hook lifting devices attach to standard hoist hooks
- ✓ Safely lifts rolls by the core
- ✓ Fail safe gripper design holds roll securely
- ✓ Quickly and easily change between mandrels



Watch
MRT
Roll
Handler



Portable Roll Handling

Light Duty Roll Handlers

Light Duty Roll Handlers grasp the rolls inside the core without contacting the valuable material. This reduces the risk of both material damage and operator injury, saving your company money and valuable resources.

- ✓ Lightweight aluminum frame
- ✓ Customizable height
- ✓ Compact Euro or adjustable straddle base
- ✓ Powered raise and lower
- ✓ Ergonomic and efficient
- ✓ Several manual tooling options available: flat platform, roll cradle, probe, roll turner, and swivel top



Heavy Duty Roll Handlers

Powered Roll Handling Trucks are used to lift, transport load and unload rolls and products. Tooling options, both custom and standard, offer users a variety of productivity enhancing benefits.

- ✓ Adjustable Straddle, Euro style or counter-balanced bases
- ✓ Custom tooling options
- ✓ Ergonomic design

V-Cradle Roll Handlers

Our powered lift trucks with cradle tooling make moving large rolls easy. With powered drive and lift mechanisms they can achieve a multitude of jobs.

- ✓ 2 speed operation
- ✓ Custom configurations available
- ✓ Able to load unwind/rewind shafts
- ✓ Hydraulic lip to mate with pallet
- ✓ Contoured forks available
- ✓ Custom capacities available



Watch
ERH
Roll
Handler



Aerostyle Pyrojacket Fire Sleeve

Thicker, denser inner glass fiber than our Industrial grade Pyrojacket® gives higher insulation values, increased strength and enhanced abrasion resistance.

The World's Most Certified Fire Protection Sleeve



- ✓ SAE AS 1072E
- ✓ UL 1441 CERTIFIED
- ✓ VW1 FLAME TEST CERTIFIED
- ✓ MSHA CERTIFIED FOR USE IN UNDERGROUND MINES
- ✓ GL - GERMANISCHER LLOYD CERTIFIED FOR 800°C FOR 30 MINUTES
- ✓ BS EN 373 MOLTEN SPLASH TESTED
- ✓ BS EN 388 ABRASION TESTED
- ✓ BS EN ISO 6940 FLAME RESISTANCE TESTED
- ✓ BS EN ISO 6530 OIL RESISTANCE TESTED
- ✓ BS 2576 TENSILE STRENGTH TESTED
- ✓ DIN 54837 I 5510-2 RAIL VEHICLE CERTIFIED FOR RESISTANCE TO COMBUSTIBILITY
- ✓ DIN 5659-215510-2 RAIL VEHICLE CERTIFIED FOR TOXICITY



CONTINUOUS OPERATING TEMP	260°C
MAX SHORT TERM EXPOSURE	1650°C
MOLTEN SPLASH RESISTANCE	OUTSTANDING
FLAME RESISTANCE	VERY GOOD
ABRASION RESISTANCE	VERY GOOD
FLEXIBILITY	OUTSTANDING
WATER & OIL RESISTANCE	OUTSTANDING

Sheds Splash Immediately

Aerostyle Pyrojacket® withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs.

Withstands Intense Radiant Heat And Flame

Aerostyle Pyrojacket® will withstand continuous exposure to 500° F (260°C); up to 2000°F (1090°C) for 15-20 minutes; and up to 3000°F (1650°C) for 15-30 seconds.

More
ADL Insulflex High
Temperature Solutions



Pyrojacket VCO Firesleeve

Knitted or braided high bulk glass fiber fire sleeve with VCO hook-and-loop closure. Ideal choice for easy retrofits.



Install Without Disconnecting Hoses Or Cables

Constructed from a high bulk glass fiber braided or knitted sleeve, heavily coated with our proprietary compound of iron oxide red silicone rubber. Using high temperature glass fiber thread, a flame retardant hook-and-loop closure system is sewn internally.

Sheds Splash Immediately

Pyrojacket® VCO withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F (1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs. When exposed to flames, the silicone rubber transforms into a crust, creating a protective SiO₂ refractory layer



CONTINUOUS OPERATING TEMP	260°C
MAX SHORT TERM EXPOSURE	1650°C
MOLTEN SPLASH RESISTANCE	OUTSTANDING
FLAME RESISTANCE	VERY GOOD
ABRASION RESISTANCE	VERY GOOD
FLEXIBILITY	GOOD
WATER & OIL RESISTANCE	GOOD

Withstands Intense Radiant Heat And Flame

Pyrojacket® VCO will withstand continuous exposure to 500° F (260°C); up to 2000°F (1090°C) for 15-20 minutes; and up to 3000°F (1650°C) for 15-30 seconds.

Pyrotape®

Non-adhesive high bulk glass fiber tape withstands intense heat and flame and sheds molten splash immediately.

Outstanding molten splash protection

Pyrotape® is a knitted high bulk glass fiber tape, heavily coated with our proprietary compound of iron oxide red silicone rubber. The specially designed compound sheds molten metal splash immediately, so very little heat transfer occurs.

Non-adhesive installation without line disconnection

Pyrotape® has an excellent modulus of elasticity and can wrap any diameter hose or cable - typically in a spiral wrap with a 50% overlap. Can be installed without disconnecting hoses or cables.



High temperature protection for hoses and cables

Pyrotape® withstands continuous exposure to 500°F (260°C), up to 2000°F (1090°C) for 15-20 minutes, and up to 3000°F (1650°C) for 15-30 seconds.

When exposed to flame, the silicone rubber transforms into a crust, creating a protective SiO₂ refractory layer.

Pyrosil™ Tape

Silicone rubber high temperature tape forms a non-adhesive, self-bonding, self-curing, liquid-tight insulation barrier.

Broad application range

By virtue of its high dielectric strength, Pyrosil™ heat resistant tape is an excellent alternative to heat shrinkable tubing, vinyl tapes and wraps.

Typical applications include: wrapping wiring harnesses; protecting splices and terminations of power cables; insulating coils on motors and generators.

Pyrosil™ is also ideal for use as an end sealant in conjunction with Pyrojacket® to prevent hydraulic oils and contaminants wicking into the inner braid.



CONTINUOUS OPERATING TEMP	260°C
MAX SHORT TERM EXPOSURE	1650°C
MOLTEN SPLASH RESISTANCE	OUTSTANDING
FLAME RESISTANCE	VERY GOOD
ABRASION RESISTANCE	VERY GOOD
FLEXIBILITY	OUTSTANDING
WATER & OIL RESISTANCE	OUTSTANDING

Available in custom colours by special order
Available in sizes up to 5" (127 mm) wide.

Pyroblanket™ 96 oz

Ultra-heavy grade high temperature resistant fabric, designed for use in severe molten splash applications in the primary metals industry.

Tough, Durable & Very Versatile

Our heavyweight – Pyroblanket™ 96 oz (3260 g) / m²) is constructed from a glass fiber base fabric, coated one side only with a very thick layer of specially compounded silicone rubber that sheds molten splash almost instantly, before heat transfer can occur.

It is used primarily for fabrication of specialized covers and curtains in applications such as electric arc furnace (EAF), blast furnace and casting, where severe molten splash occurs. It can be cut and sewn into custom shapes and formats, or used with other Insulflex high temperature fabrics to create unique protection products for the most severe industrial applications.



CONTINUOUS OPERATING TEMP	260°C
MAX SHORT TERM EXPOSURE	2160°C
MOLTEN SPLASH RESISTANCE	OUTSTANDING
WELD SPATTER RESISTANCE	OUTSTANDING
FLAME RESISTANCE	OUTSTANDING
ABRASION RESISTANCE	OUTSTANDING
FLEXIBILITY	VERY GOOD
WATER & OIL RESISTANCE	VERY GOOD

Pyroblanket™ 32oz & 17oz

Heat, flame and weld spatter protection, designed to exceed industrial standards where resistance to moisture, sunlight, corona and hydraulic oils is needed.

	32OZ	17OZ
CONTINUOUS OPERATING TEMP	260°C	260°C
MAX SHORT TERM EXPOSURE	2160°C	2160°C
MOLTEN SPLASH RESISTANCE	VERY GOOD	GOOD
WELD SPATTER RESISTANCE	OUTSTANDING	OUTSTANDING
FLAME RESISTANCE	VERY GOOD	VERY GOOD
ABRASION RESISTANCE	VERY GOOD	VERY GOOD
FLEXIBILITY	OUTSTANDING	OUTSTANDING
WATER & OIL RESISTANCE	OUTSTANDING	OUTSTANDING



Electromagnetic Clutches & Brakes



Founded in 1938, Ogura is the world's largest manufacturer of electromagnetic clutches and brakes. Current production capacity is over 30 million products per year.

Ogura offers clutches and brakes for applications requiring 0.01"oz. to 25,000 lb.ft. of torque. There are approximately 3,000 different clutch models available. Besides an extensive standard product line Ogura also have the flexibility to handle special designs or modifications for its customers.



Static Removal Cord

Zap-Off is an economical and guaranteed solution to remove static from processing machinery. The simple design and mounting allow for multiple installations to wick out static in the various stages of production. As long as the Zap-Off elastic cord is earthed with the machine the static simply dissipates.



- ✓ **INCREASE OPERATOR SAFETY** and reduce discomfort.
- ✓ **INCREASE LINE SPEEDS** which have been reduced to avoid static.
- ✓ **REMOVE POTENTIAL SPARKING HAZARDS** which can also damage electrical equipment.
- ✓ Be **MOUNTED IN MULTIPLE POSITIONS** to optimise static removal.



Precision Drives

Initially developed for machine tools axis drives, **REDEX GROUP** offers complete drive solutions for machine builders seeking high performance linear and rotary precision drives.



Spindle & Table Drives



Linear & Rotary Axis Drives



Precision Drives

**REDEX
ANDANTEX**

EMP Clutches & Brakes

For many years, Merobel has consolidated its position as the leader in EMP Brake & Clutch technology and associated electronics, especially for wire & cable and web tension control, as well as variable torque simulation on test rigs.



Electro-magnetic Powder Brakes



Magnetic Particle Torque Limiters



Electro-magnetic Powder Clutches

MEROBEL



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EST. 1919

**Supporting Australian Industry
For Over 100 Years.**

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