

SYSTEMS • PARTS • FABRICATION • ACCESSORIES



A GLOBAL LEADER IN  
CUSTOM INNOVATIONS,  
EFFICIENT SOLUTIONS,  
& FIVE-STAR CUSTOMER  
SERVICE SINCE 1976



Your Primary Supply Chain Partner for all types and materials. **Call us first**





# INDUSTRIAL BRAKE & CLUTCH SPECIALISTS

## SYSTEMS • PARTS • FABRICATION • ACCESSORIES

**We offer OEM and Aftermarket solutions for virtually any industrial brake and clutch application.**

**DRUM** Kor-Pak can supply various styles of drum/shoe brakes that conform either AISE or DIN standards. Our drum brakes are fail-safe, spring-set and electro-hydraulic thruster or magnetically released. We can also provide all spare products and accompanying items such as brake drums, shoes, thrusters, coils (both shunt and series wound), controllers, and spare parts.

**DISC** Kor-Pak offers a diverse portfolio of industrial disc brakes that cater to a wide variety of applications. Our wide range of caliper disc brakes are offered as either hydraulic or air applied/spring released, or spring applied and hydraulic, air, or magnetically released. Our robust caliper disc brakes are used ubiquitously and can be found in numerous unique applications and they can furnish extremely high torque requirements and concurrently withstand the harshest of environmental conditions.

### STORM / PARKING BRAKES

Our innovative and diverse selection of storm and rail brakes have helped industries persevere throughout harsh and demanding environments. Whether it be intense winds, seismic activity, or bracing your container when incurring heavy loads, Kor-Pak's Storm Brakes will enable you to overcome these obstacles and achieve your industry-specific goals. Kor-Pak offers several options of Storm Brakes including: rail clamps, wheel grippers, rail grippers, and corresponding accessories. These are offered with various mounting options such as sill-beam, flange, or truck mounted and our rail clamps can be furnished with integral power units.

**ALL-INCLUSIVE SUPPLIER** for clutches, brakes, air brakes, and other Industrial Power Transmission Products including Sprag type freewheel clutches, Ramp & Roller type overrunning clutches and backstops, tension brakes and controls, water cooled clutches and brakes, hydraulic clutches and brakes, air clutches and brakes, and fluid couplings.

## ACCESSORIES

**ACTUATORS:** Thrusters, Coils, Hydraulic Cylinders

**POWER UNITS:** Air, Hydraulic

**SHOES AND PADS:** using organic, semi-metallic, or sintered friction linings. Complete assemblies available.

*\*Kor-Pak aluminum brake shoes are especially ideal because they dissipate heat extremely well and are substantially lighter than their cast-iron counterpart)*

**CONTROLLERS & FOOT PEDAL FOR MOTOR / TORQUE CONTROL**

**RIGID AND FLEXIBLE COUPLINGS**

**BRAKE DRUMS**

**DISCS** (ventilated discs available for high-temperatures)

**SPARE PARTS** (pins, bushings, springs, adjusting bars, etc)

**CLUTCH FACINGS**

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | kor-pak.com | 847.680.0999 | 888.2KORPAK





**SPECIALIZING IN**  
**EXPERTISE**  
**OPTIONS**  
**SAFETY**  
**ONE STOP**  
**SOLUTIONS**  
**EASY**  
**FULFILLMENT**

# SERVICES

**IF WE CAN'T SOURCE IT,  
WE WILL MAKE IT**

We deliver standard OEM parts, but as a progressive market leader, we also reverse engineer, and customize parts—including those that are obsolete and “hard to find”—to meet your specifications.

**NEW PARTS** Access to thousands of different parts for various industries and applications. We also manufacture custom parts to print.

**REBUILD** We follow a calibrated process that includes completely disassembling the brake and performing a diagnostic report that details the scope of work. Kor-Pak provides all required replacement parts as well as painting. Prior to shipment, Kor-Pak performs all requisite mechanical and electrical testing. All this is done at an extremely competitive price, and we offer a one-year mechanical warranty with all repair work.

Not only does Kor-Pak supply a diverse array of products, but we also offer custom engineering and exclusive service to our customers which is rarely offered by other suppliers. Kor-Pak will go to any length to insure that you receive the exact product that best suits your needs in terms of safety, quality, functionality, and price. We understand that there isn't a “one-size fits all” in industrial applications and thus Kor-Pak espouses the philosophy that first-class customer service will never go out of style.

**RELINE** Various types of equipment, including brake shoes, brake bands, disc pads, clutches, and plates. We possess a large variety of friction materials that will be sure to meet your needs. We hot bond, rivet, and machine your products and deliver them in work condition.

**REPAIR** With over thirty years of experience, Kor-Pak Corporation follows a meticulous multi-step process to return your brake in “drop-in replacement” condition.

**EXCHANGE PROGRAM** Kor-Pak makes it easy to upgrade your parts. Along with our world-class customer service, Kor-Pak offers a robust exchange program to make it easy to upgrade to new parts without compromising the value of your old parts.

**CUSTOM ENGINEERING** includes, but is not limited to Horizontal and Vertical Machining, Turning, Grinding, Laser Cutting, and Fabricating. We also create molded/casted products such as aluminum, cast iron, and manganese steel.

## AUTOMATED SOLUTIONS

at the cutting edge of innovation & technology, Kor-Pak provides the evaluation, solutions, engineering design, project management, field startup/testing, and installation assistance required to help you achieve your strategic objectives to improve your efficiency, throughput, positioning and inventory accuracy, safety, and reduce maintenance costs and downtime.

# SAFETY

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | kor-pak.com | 847.680.0999 | 888.2KORPAK





# FRICTION & WEAR MATERIALS

WE ARE THE  
“FRICTION MATERIALS  
EXPERTS”

**CUSTOM AND VALUE-ADDED FRICTION MATERIALS:** We make friction materials custom engineered to your unique applications and required specifications

Examples of friction products in terms of materials, applications, industries, etc:

**RIGID FRICTION MATERIALS:** crane linings, disc pads, gear tooth/clutch facings, insulator plates, and molded cathead facings

**OIL FIELD FRICTION MATERIALS:** Kor-Pak offers a substantive product mix of Oilfield Friction Materials. We also use flexible, woven, and other materials for brake band assemblies which are used in various applications such as oil, marine, and agriculture. Kor-Pak offers the following:

- An extensive range of brake bands, brake blocks and draw works sets for both drilling and service rigs
- A complete line of molded cathead linings and gear tooth clutch facings
- Our woven linings have obtained industry-wide recognition for successfully servicing pump jacks

**Kor-Pak supplies Non-Asbestos Friction Material for Oilfield Applications:** Drawworks Brake Blocks Drilling and Workover, Clutch Block Replacements, Insulator Plates, Other Friction Products, Gear Tooth Clutch Facings, Plain Rings/ Catheads, Disc Pads, Hardware, Woven Brake Linings

**RIGID  
FLEXIBLE  
WOVEN  
SEMI-METALLIC  
SINTERED  
PHENOLIC / LAMINATES**

**PHENOLIC BEARINGS AND LAMINATES:** Impregnated materials that are self-lubricating provide an ideal alternative to metal. We offer a wide range of phenolics which includes materials impregnated with Teflon, cotton, graphite, moly, and fiberglass.

Our phenolic bearings are used ubiquitously in industry such as dryer bearings, hanger bearings, and thrust collar bearings.

Our laminate sheets can be custom cut and manufactured to your unique application and our wide range of materials include: Teflon, Gatke, Micarta, Ryertex, Grade C, E, and LE Canvas Phenolic, and many others.

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | kor-pak.com | 847.680.0999 | 888.2KORPAK







# APPLICATIONS INCLUDING BUT NOT LIMITED TO



**MINING:** Conveyors, Grinding Mills (Ball and Sag), Stacker/Reclaimer, Single and Double Drum Mine Hoists

**OIL:** Drawworks and Service Rigs

**STEEL:** Electrical Overhead Traveling Cranes (i.e. hoist lifting hot metal steel)

**TRANSPORTATION:** Container Ports, Bulk Terminals, Materials Handling, Seaway Locks

**MARINE:** Propulsion, Towing, Anchor Handling

**HEAVY MOVABLE STRUCTURES:**

Brakes for Moveable Bridges

**NUCLEAR:** special features available such as explosion-proof

**MILITARY**

**WIND TURBINES**

**VENTILATION FANS,  
RAIL CAR DUMPERS,  
ESCALATORS, ELEVATORS**

**MOVING WALKWAYS,  
AMUSEMENT PARK RIDES,  
SKI LIFTS**

We provide custom innovations and efficient solutions for all industries and welcome your inquiry.



**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | [kor-pak.com](http://kor-pak.com) | 847.680.0999 | 888.2KORPAK [f](#) [in](#)



# CASE STUDIES

KOR-PAK provides industry and application-specific solutions by using a hands-on and collaborative approach to project management. Here are a few examples of what we do to help our customers achieve robust and innovative industrial solutions.

## **STEEL:** 500 Ton Main Hoist EOT Ladle Crane:

Kor-Pak retrofit this crane with heavy duty spring-set, hydraulic released low-speed emergency caliper disc brakes mounted to the drum and interfacing with PLC, two AC Thruster Released Drum Brakes used as holding brakes on the high-speed side, and an AC Adjustable Speed Drive used as primary braking function. Crane also outfitted with Radio Remote Control and Collision Avoidance System to insure optimal safety and efficiency.

**OIL:** Draw works outfitted with heavy duty spring-set, air released caliper disc brakes on the main drum designed as a robust braking system to endure harsh and demanding environmental conditions. Custom Ventilated Disc supplied to withstand high temperatures and Air Power Unit used as the actuating brake release mechanism to accommodate extremely high torque requirements.

## **RAIL:** Gallery Passenger Car Project:

Kor-Pak supplied multiple parts to major passenger car manufacturing project including: wear plates, end-of-car diaphragm assemblies, bolster anchor assembly, and various rubber and fabricated parts. Through collaborating with end users, Kor-Pak was able to design, engineer, and develop products that possess the requisite strength, frictional properties, and other characteristics to provide optimal performance under demanding conditions.

### **For high-speed passenger cars:**

Kor-Pak upgraded and outfitted high-speed passenger car system with high-integrity friction pad assemblies using rigid molded friction material to create a safe and highly reliable braking product.

# SAFETY

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | [kor-pak.com](http://kor-pak.com) | 847.680.0999 | 888.2KORPAK





# CASE STUDIES

KOR-PAK provides industry and application-specific solutions by using a hands-on and collaborative approach to project management. Here are a few examples of what we do to help our customers achieve robust and innovative industrial solutions.

## MARINE / BULK HANDLING:

Outdoor Container Cranes at International Bulk Terminal used for loading/unloading of ships outfitted with Kor-Pak materials handling equipment: AC Thruster Drum brakes, hydraulic caliper disc brakes for emergency stopping, festoons, and crane controls. We also outfitted these cranes with Storm Brakes: hydraulic released rail clamps to mitigate the risks of harsh weather conditions interfering with crane performance and safety.

**MINING:** Downhill regenerative conveyor fitted with hydraulic disc brakes and power units to furnish sufficient torque to overcome colossal torque requirements. This effectively reduced the propensity for a catastrophic event from occurring. Kor-Pak also outfitted Stacker Reclaimer with Storm Brakes and Thruster-Released Electric Disc Brakes

## PAPER AND ALUMINUM

**MILLS:** Kor-Pak provided a high-profile paper mill with dynamic air-applied, spring-released caliper disc brakes.

**For Paper and Aluminum Mills:** Kor-Pak reengineered bearings used for critical applications at these plants to replace the metal bearings they were previously using with Phenolic Impregnated, Self-Lubricating, high-temperature resistant bearings which subsequently yielded a much more forgiving wear product that lasted far longer than its predecessor.

# QUALITY

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | kor-pak.com | 847.680.0999 | 888.2KORPAK





# YOUR ONE-STOP SOURCE FOR YOUR RAIL PRODUCTS

Over the years, Kor-Pak has established itself as a reputable and innovative “niche vendor” to the rail industry, providing quality products for both freight and passenger cars.

**VALUE ADDED** Kor-Pak is a one-stop source for your rail products. Our diverse capabilities enable us to create complete assemblies for you using lean technology and advanced engineering services. Our abilities include:

**LASER-CUTTING CUSTOM PLATES**

**ADVANCED BONDING CAPABILITIES**

**INTEGRALLY MOLDING WEAR MATERIALS**

**CUSTOM RUBBER PRODUCTS:** rubber to metal bonding, injection, molding, extrusion, endless vulcanization, fabric insertion

**CUSTOM MACHINING AND FABRICATION**

Kor-Pak's extensive manufacturing and engineering capabilities allow us to provide extremely durable and high-quality rail products. Our Product Portfolio for the rail industry covers a diverse range of applications and materials. For instance, our rail product includes parts that are compatible with the following brands: Nippon Sharyo, Power Parts Company, Budd, Pullman, EMD, Amtrak, Wabco, and other commonly utilized rail parts. Our products undergo substantive testing procedures they are being used on both passenger and rail applications around the world. Take a look at our website to gain a more thorough understanding of what Kor-Pak can offer for your rail application.

**WEAR PARTS:** Kor-Pak provides equalizer seats, vertical liners, center plates, and various wear pads using both rigid and phenolic (Gatke) friction materials. Also, Kor-Pak can make wear parts to various dimensions and specifications and our value-added capabilities enable us to create finished goods. Gatke Materials possess sliding lubrication, high compressive strength, and impact resistance that makes it an ideal material for rail applications.

**Snubbers:** using our high-integrity rigid friction materials, we can make all sizes for both new and old locomotives.

**Rail Friction Products:** Kor-Pak's Unique Capabilities Offers an Unparalleled Value Proposition

**RUBBER PARTS:** Rubber sandwich (bolster stabilizer), motor mount, anchor rod pad, bolster end bumper, load leveling bushing, lateral bumper, End of car diaphragms, Rubber Seals, Window filler strips

**PEDESTAL LINERS:** Made in both polymer and manganese materials in all sizes with or without slots

**OTHER RAIL PARTS:** Kor-Pak provide springs, wheel chocks, Fabreeka (aka Sorbtex/Viblon) in all shapes, sizes, and thicknesses, Viton engine seals, coupler parts, shims, and various other standard and custom parts that we can create from our manufacturing and engineering resources.

**Your Primary Supply Chain Partner for all types and materials. Call us first**

27864 Irma Lee Circle, #106, Lake Forest, IL 60045 | kor-pak.com | 847.680.0999 | 888.2KORPAK







## OTHER PRODUCTS AND SERVICES KOR-PAK OFFERS:

**AC AND DC CRANE CONTROLS:** Variable Frequency Drives, Contractors, Limit Switches, Magnet Controllers

**MOTORS:** AC Motors, DC Surplus Motors, Motor Rebuilds and Exchanges

**FESTOONS**

**CONDUCTOR BARS**

**CABLE REELS**

**HIGH-TEMPERATURE SLEEVING/INSULATION**

**CRANE WHEELS, CRANE RAIL, COLLECTOR SHOES AND TROLLEYS**

**RADIO REMOTE CONTROLS**

**PENDANTS AND PUSH BUTTONS**

**RUBBER PRODUCTS:** custom molded and injected rubber products, seals, gaskets, O-rings

**PLASTICS:** urethane and other custom plastic products

**GEARS AND GEAR BOXES**

**FLEXIBLE AND RIGID COUPLINGS**

**HYDRAULICS AND PNEUMATICS:** power units, valves, pressure switches and more



## BRAND NAMES WE CARRY:

**INDUSTRIAL BRAKE AND CLUTCH:** Johnson Industries, Magnetek/ Mondel, Wichita Clutch, Formsprang Clutch, Warner Electric, Marland Clutch, Cutler Hammer, GE, Bubenzer, Twiflex, Svendborg, Westinghouse, Square D/EC&M, Fluidotechnic, Sibre.

**FRICTION MATERIALS:** Distributor/Dealer for Scan-Pac manufacturing. Also carrying Carlisle, Eaton Airflex, Wichita, Twin Disc

**MATERIALS HANDLING:** Magnetek, Telemotive, Conductix, Gleason, Lovejoy, Voith, Lenze, Eaton, Square D, Warner Electric, XTek, Aeromotive, TB Wood's

