CRANE AND HOIST PARTS
Our knowledge sets us apart

► Ultimate Parts Resource
► Design & Manufacturing
► P&H Prescription Parts
► Reverse Engineering
► Parts Modernizations
► Commodity Parts
► OE Rebuilds
► Spare Parts Program
► 24/7/365 Customer Service

P&H
Under the corporate ownership of Konecranes, we are the original equipment manufacturer (OEM) for over 30 crane brands. We are a world-leading supplier of crane parts, as we also supply crane and hoist parts for all other makes and models.

Our knowledge and experience in the crane industry is unmatched. Many of our employees established their background and experience with crane industry leaders like Shepard Niles and P&H, whose crane business began in 1878 and 1884, respectively.

We can be your one source for all makes and models of crane and hoist parts. If we don’t have the part in stock, our engineering and fabrication capabilities can quickly design and manufacture custom solutions, meeting your timetable crane industry and safety requirements - regardless of manufacturer. We also have access to countless original equipment manufacturers’ drawings, allowing us to fabricate parts for cranes and hoists no longer manufactured.
DESIGN & MANUFACTURING CAPABILITIES

CRANE AND CRANE PART EXCELLENCE

As a highly respected crane designer and manufacturer, and as a part of the world's largest crane company, we deliver:

► Crane parts that are made to equal or exceed the company's and industry's safety standards, through our world-class manufacturing facilities.
► Consumable parts quality and pricing that is leveraged via our global sourcing capabilities and are in-stock for fast delivery.
► State of the art, modernized solutions to vintage crane part needs.
► Rebuilt component solutions that deliver new part performance at a fraction of the cost.
► Comprehensive spare parts analysis and recommendations.
► Expedited part manufacturing and sourcing to cover critical crane situations.
► Unparalleled access to parts information and customer service.

CRANE SAFETY AND QUALITY STANDARDS

► We analyze, understand and only provide parts as an integral portion of safe and efficient crane operation.
► All crane parts meet or exceed industry standards.
► CMAA
► ASME B30.2
► OSHA 1910.179
► AGMA

IN-HOUSE PARTS DESIGN AND MANUFACTURING CAPABILITIES

► Hoist drums
  ▪ Up to 48" diameter and 26' long
  ▪ Flame hardened and stress relieved for superior performance
► Gear products
  ▪ Designed for the rugged use and abuse experienced in crane operation, utilizing advanced metallurgical specifications, tooth design, and heat treatment options
  ▪ Gears up to 48" diameter, up to AGMA 14
  ▪ Gear types: helical, crowned, spur, spline and pinions
  ▪ Quality is assured via our computer controlled system that measures all critical aspects, and logs them for customer viewing
► Gearboxes, end-trucks, hooks and bottom blocks
► Motors
  ▪ Wound Rotor
  ▪ Magnetorque®
► Wheels
  ▪ Patented 60+ induction hardened wheels
    ◦ The industry standard in wheel longevity
    ◦ Better than carburizing or flame hardening
    ◦ Uniform case depth on treads with improved ductility on flanges for increased strength
    ◦ Improved rail life delivered through less wheel/rail friction
    ◦ Wheel assemblies offer lower acquisition cost with factory controlled conditions and speed installation time in your facility
  ▪ Unparalleled speed to market!
  ▪ Prescription Wheels
    ◦ Corrective steering to address crane skewing
    ◦ Custom designed for each specific application

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P&H PRESCRIPTION PARTSTM

P&H PRESCRIPTION PARTSTM are custom engineered and designed to meet or surpass the OEM requirements as originally supplied with the crane. These parts incorporate knowledge gained from over 125 years in the crane industry.

Typical improvements include changes to the material, design and/or manufacturing process which can improve performance and the overall life-span of the part. These enhancements may also be applied to the entire assembly, enabling the crane to run more efficiently while extending the life of the crane.

Complementing the broad array of services and products available through Konecranes, P&H Prescription Parts solutions can be found for many chronic crane conditions. Rather than focusing on a single part, we consider the entire crane, and how the improved part impacts its related components. We provide an integrated state-of-the-art design, utilizing:

- Design improvements
- Material improvements
- Manufacturing process improvements
- Analysis of an assembly versus a single part
- Increased life-span of the part
- Extended parts warranty of 2 years vs. the industry standard of 1 year or less.
- Experience – Crane manufacturer for over 125 years and built over 40,000 Cranes
- On-site Engineering / Analysis

**Prescription Wheels and Assemblies** – can address excessive bridge binding or crane skew, and uneven wheel wear.

**Prescription Gears and Assemblies** – can address issues with vintage, two-piece pinion gears on shafts with unknown and unseen cumulative stresses that can potentially lead to catastrophic failure.

**Prescription Motors** – can address issues with short service life of motors due to high utilization and tough environments.

**PRESCRIPTION PARTS™ FOR ALL CRANE BRANDS**

We can apply the P&H Prescription process to all brands of cranes whether it’s for a Konecranes family brand or one of our competitor’s crane parts – not just P&H.

We will apply the same P&H Prescription Techniques: improved design, materials, and manufacturing processes along with considerations for complete assemblies and overall crane operation to any brand of crane part. They will surpass the design requirements of the OEM, extending the life of the parts, as well as the crane.
Can’t find obsolete crane parts? OEM lead times unacceptable?
REVERSE ENGINEERING JUST MIGHT BE THE ANSWER!

Parts for older model cranes can often be hard - if not impossible to find. And, the quality of many replacement parts - even for newer cranes - is often a concern.

We have the answer to those critical parts issues with our Reverse Engineering Process (REP). Through REP, virtually any obsolete, hard-to-find or first-time replacement part can be manufactured at or above the original specs and at the high quality level the industry has come to expect from P&H products.

There are several other reasons to use REP:
► The original drawings have been lost, destroyed or you simply don’t have access to them.
► The OEM is no longer in business.
► The quality you’re receiving today is a concern.

Reverse Engineering Process begins with one of three options:
► Existing Part Analysis
  The actual or spare parts are available to be evaluated and reverse engineered by the skilled REP team.
► On-Site Dimensions
  We measure the part on site and a rough drawing of the required part is completed.
► Original Drawings
  Existing OEM drawings are supplied to be analyzed.

Questions or have a reverse engineering need, contact:
Kelly J. Tebon – Competitive Brands Parts Manager
414.764.8476 or 262.880.6363
Kelly.Tebon@konecranes.com
PARTS MODERNIZATIONS

JUST THE LIFT YOU NEED

Times are tough. We’re all trying to get the most mileage possible out of our equipment. While it may be time for a new crane or hoist, the reality is that budgets might now allow the purchase of new equipment. There is an alternative: efficiently and cost-effectively modernize your existing equipment.

We have the expertise to retrofit older cranes - no matter the make or model - updating them to run more efficiently and at lower cost.

When cranes fail to meet your requirements, productivity suffers. Modernizing your crane can be an economical way to restore your fatigued equipment to peak performance.

MAKING IT HAPPEN

Our staff of experts - who work with all brands of cranes - follow a four-step process:

► Analyze the requirements for modification of your crane based upon current usage.
► Develop a modernization plan.
► Detail the necessary materials.
► Manufacture the required replacement parts, which we can install.

WHY MODERNIZE YOUR CRANE?

1. IMPROVE PERFORMANCE - Our modernization program helps increase speeds, improve efficiency and reduce downtime.

2. INCREASE RELIABILITY AND REDUCE MAINTENANCE - Through modernization we replace high-maintenance and/or obsolete components with new parts manufactured to today’s tolerances and standards of performance.

3. INCREASE SAFETY - Older parts can be unreliable and are prone to failure, which can lead to injury or damage. Modernization enhances safety by replacing those parts with reliable new components.
INVENTORIES THROUGHOUT NORTH AMERICA ARE ONLY A PHONE CALL AWAY.

COMMODITY PARTS

YOUR SOURCE FOR COMMODITY PARTS
P&H strategic world-wide partnerships mean competitive pricing, quick turn-around, and one stop shopping for you.

ELECTRICAL
- Contactors
- Pendant stations
- Radio controls
- Conductor bar
- Collector assemblies
- Festoon systems
- Etc.

MECHANICAL
- Brake discs
- Wire rope
- Crane rail
- Bearings
- Couplings
- Etc.

PARTS INVENTORY DATABASE
With immediate access to parts inventories at our warehouses across North America, our customer service professionals will let you know right away if your part is in stock. If it is, we'll ship it in 24 hours or less.

Maybe you have only a description or a part from “Brand-X”. Using our parts inventory database, we can cross reference it to parts we have in stock.

CUSTOMERS RELY ON US FOR:
- SAFETY – parts designed and tested for performance and durability.
- DELIVERY – quick access to inventories across North America.
- VIP/MVP – expedited shipping programs.
- 24/7 ACCESS – parts service and support.
- QUALITY – High-quality replacement parts.
- ALL BRANDS – Replacement parts for ALL BRANDS of cranes & hoists.
- PRICE – Competitively priced.

OUR GOAL IS TO SHIP STOCKED PARTS ORDERS WITHIN 24 HOURS

WE STOCK OEM PARTS, ENGINEERED PARTS, AS WELL AS COMPARABLE REPLACEMENTS FOR ANY BRAND OF CRANE AND HOIST.

Abell-Howe, Abus®, Acco®, Ace Alliance, American Crane & Equipment, TC/American Monorail®, Andritz®, Budgit®, Burlington Engineering™, Canadian Overhead Handling, Chester Cleveland Tramrail®, Coffing®, Columbus McKinnon, Conco®, Crane America®, CraneMann™, CraneMart™, Dearborn™, Demag®, Deshazo®, Detroit Hoists & Cranes, Dresser, Duff Norton®, Ederer, Euclid™, Foley Material Handling, Gaffey, Gorbel®, Harrington Hoists®, Heede, Illinois Crane, Indiana Crane, International Crane, Jamarco, Lift-Tech™, Louden®, Milwaukee Crane, Mondel, Morgan Material Handling, Munck®, Munk North American Industries, Northern®, OMH, Philadelphia, Progressive®, Reading, Robbins & Myers®, Shaw-Box®, Superior, Uesco, Virginia Crane®, Whiting®, Wright®, Yale®, Zenar®, And more...
During tough economic times it’s tempting to sacrifice performance for price. We’re aware of that temptation and that’s exactly why we offer the industry’s finest electrical crane motor rebuilds and rewinds.

You no longer have to choose between price and performance. Now you can have it all.

Our motor rebuilds perform just like new electrical crane motors, but at a fraction of the cost.

We accomplish that while maintaining OEM integrity to ensure OE specifications and OE performance by using higher quality materials and quality craftsmanship.

Consider these benefits:

► OEM SPECS: Rebuilt to original P&H manufacturing specifications.
► P&H MOTOR SPECS: The only repair shop with access to P&H motor specifications and all other Konecranes brand motors
► GOOD AS NEW: Built in the same manufacturing cells used for building new crane motors.
► AC & DC MOTORS: Up to 5000 HP or 3,750 kW DC fraction motors (at no load) as well as magnetic brakes.
► REPLACE DAMAGED SHAFTS: Damaged shafts are replaced with new to ensure precise bearing fit and maintain the overall shaft strength and integrity.

► CLASS H INSULATION: All motors are electrically tested complete which includes hi-pot tests for voltage and current. Eddy current brakes are dynamically tested under load using a dynamometer.
► PROTECTED: All outgoing repairs include an application of rust inhibitor, a protective boot and inclusion of a patented torque nut for brake motors.
► PROPRIETARY WIRE: Heavy gauge fiberglass over enamel wire for improved varnish retention to withstand mechanical forces and provide higher heat resistance.
► HIGH EFFICIENCY DESIGN: OE diamond shaped coils offer more efficient end turns than standard round-end turns (mush wound).
► MAXIMUM DURABILITY: Class H insulation increases temperature tolerances.
► CORE LOSS TESTING: Eliminates core losses that lead to motor inefficiencies and higher operating temperatures.
► CRAFTSMANSHIP: Rotor connectors are copper banded, TIG welded, taped and covered for optimal heat resistance.
► QUALITY PROCESSES: Rotors and stators are dipped multiple times without solvent according to OE specs.
COMPONENT REBUICKS
Sometimes a rebuild is the best solution. If that’s the case, our rebuild center has you in mind. In addition to receiving Konecranes quality, you’ll realize these benefits:

- **PRICING:** Save 40-60% of the price of a typical new replacement
- **RESPONSE:** Turn-around is quicker than replacing new
- **WARRANTY:** Your rebuilt equipment warranty is the same as a new replacement.
- **OEM SPECS:** Equipment is rebuilt to original manufacturer specifications.

TROLLEY REBUICKS
Is your trolley assembly tired and in need of a lot of work? We can strip it down to the frame and install new bearings, seals, friction discs, input shaft and coupling. We replace worn and old holding brakes. The electrical components can be upgraded with new wiring and conduit, new junction box and terminal strip that replaces the old style butt spliced wires.

BRAKE REBUICKS
- Tear down brake assembly to base
- Sandblast and check for wear and/or cracks.
  - Replace damaged parts with new.
- Inspect bases for wear at bearing housings, bearing surfaces and pivot points.
  - Brush and re-machine as needed.
- Reassemble with new bearings, bushings and hardware.
- Adjustments set back to factory specs.
- Brake shoe relining available for most brakes.

HOIST DRUMS
- Re-grooving and gearing replacement.

ELECTRICAL COMPONENTS
Dedicated to building electrical components to order, our facility in Windsor, Wisconsin can assemble and ship most older or difficult-to-find components within days. Many in stock items can be out the door in less than 24 hours.

REBUILD THESE PARTS:
- SWITCHES
- CONTROLS
- MASTER SWITCHES
- PUSHBUTTONS
- CONTACTORS
- RELAYS
- BRAKE RECTIFIER PANELS
- CV RELAYS
- LIMIT SWITCHES
INTERNET ACCESS TO PARTS MANUALS
Manuals are available on-line 24/7/365 days a year! Access your crane information via the web from your office or off-hours during breakdowns.
► No Lost CD’s
► No Lost Manuals
► No Torn/Missing Pages
► Keyword Searches

CUSTOMER SERVICE

CRANE PARTS EXPERTS
The only thing more stressful than a crane parts emergency is an after-hours crane parts emergency.
When you order your parts through us, there’s no longer any reason to stress.

INSTANT ACCESS 24/7/365
► 800.727.8774 is open all day, any day.
► 24-hour access to a customer service representative, who will consult with you on your parts emergency.
► Our experts are on-call 24/7/365 with full capabilities to research requests and analyze any situation.
► No matter what time of day or night - regardless of the crane make and model - our staff is able to take and process orders immediately.
This helps push your request through our system without waiting until the next morning.
Our comprehensive parts warehouse is also available after hours to process and ship emergency parts orders, sometimes even that very evening.

ACCESS THE ULTIMATE CRANE PARTS DEPOT!
► One number, 800.727.8774 gets you instant access to the crane industry’s most complete parts depot. Our extensive parts depot is ready to supply virtually any part - for any crane - at any time.

CRANE PART RESEARCH AND RESPONSE
Experienced parts application engineers have online access to over 125 years of detailed engineering files and drawings.
► Almost 90% of parts requiring research can be responded to within 48 hours - faster for breakdown situations.
► We provide the optimal parts solution for your crane or hoist
► Kits or assemblies are often suggested, making for a faster and safer installation, often at a lower total cost.
► Should a part be superseded, or if the crane is modified by our company, your crane records are updated. This ensures long-term integrity and viability of your equipment.
Accessing these records going forward, can lead to quick diagnosis and improved crane productivity.
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VIP EXPEDITED SERVICE
- Manufactured parts only
- Reduces normal lead-time by 75%
- Fee is list price plus 50%
- Certain minimum charges may apply. Ask for details

MVP EXPEDITED SERVICE
- Manufactured or purchased parts
- Reduces normal lead-time by 50%
- Fee is list price plus 25%
- Certain minimum charges may apply. Ask for details

NEED A PART NOW?
TRY OUR EXPEDITED SERVICES

Do you need that part faster than fast? We offer two levels of expedited parts delivery for your cranes. Whether you’re dealing with a catastrophic failure or simply a tight schedule, Our VIP and MVP expedited add-on services can help get you back up and running in a jiffy. Use these services for ALL brands of cranes and hoists.

SPARE PARTS PROGRAM

While running lean or trimming parts inventories may appear to be a good short-term decision during these rough economic times, such a move can lead to much higher costs down the line. We are crane experts, and we can help you plan your parts inventory to control costs. We offer a spare parts program for new and existing cranes that is designed to keep essential parts close at hand. When purchased in any of three recommended assortments, spares for new cranes offer cost savings over buying parts on an “as needed” basis.

We can design a custom spare parts program to meet the needs of your equipment and budget.

The spares proposal is structured so that you will receive your best value by purchasing these parts in the assortment that best fits your business needs:
- Start-Up Spares
- One Year Spares
- Capital Spares

These listings have been carefully crafted by a parts product engineer to include parts that will likely need to be replaced within the designated time frames, as well as those that are of a critical nature to maintain consistent operation of your crane.

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Morris Material Handling is the original equipment manufacturer of P&H cranes, hoists and replacement parts and is a wholly owned subsidiary of Konecranes Inc. Worldwide, the P&H brand has long been recognized as the symbol of quality, innovation and reliability in the most demanding material handling applications and environments.

Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity-enhancing lifting solutions as well as services for lifting equipment and machine tools of all makes.

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315 W FOREST HILL AVENUE
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www.konecranesamericas.com

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