



INTELLIGENT MOTION
Columbus McKinnon



TRANSPORTATION

AUTOMOTIVE – RAIL – AEROSPACE – MARINE & SHIPYARDS





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THE RELIABLE HOISTS, CONVEYORS, AND ADVANCED ENERGY AND MOTION CONTROL TECHNOLOGY FROM COLUMBUS MCKINNON ARE FOUND IN MANY PROCESSES WITHIN THE **TRANSPORTATION INDUSTRY** RANGING FROM AUTOMOTIVE TO MARINE AND RAIL. FROM PRODUCTION TO DISTRIBUTION, WE OFFER INNOVATIVE TECHNOLOGIES TO INCREASE PRODUCTIVITY, SAFETY, AND UPTIME IN YOUR FACILITY. WHETHER YOUR PRIMARY GOALS ARE TO SAVE MONEY, OR STREAMLINE YOUR PROCESSES, COLUMBUS MCKINNON CAN HELP YOU ACHIEVE YOUR OBJECTIVES.



Repairing and maintaining rail cars, controlling locomotive equipment or securing loads for transport: Columbus McKinnon products are there to **keep things moving**. When it comes to **maintenance and repair**, our extensive line of actuators, hoists and crane components help lift, move and precisely position transportation vehicles and components, allowing

technicians to get their **job done efficiently** and safely. Come along with us as we set out to transform the transportation sector. Together, we'll lead the charge towards a future characterized by eco-friendly practices, technological progress, and **unmatched quality** in automotive production.

The following pages offer a comprehensive insight into our diverse product range and solutions specifically designed for Transportation. Discover how our brands and their products fit together perfectly and complement each other. These products are just examples of intelli-

gent solutions aimed at giving you an insight into our extensive portfolio. Our goal is to meet these challenges and provide you with optimal performance, safety, and reliability.



LIFTING SOLUTIONS

STAHL CRANESYSTEMS IS RENOWNED FOR ITS DEPENDABLE AND SECURE HOISTS AND CRANE PARTS, ALONGSIDE SYSTEMATIC ENGINEERING SOLUTIONS. THESE OFFERINGS CATER TO VARIOUS INDUSTRIES, FROM STANDARD TO SPECIALIZED AND EXPLOSION-PROOF HOISTS AND CRANE TECHNOLOGY. KNOWN FOR EXPERTISE IN THE TRANSPORTATION INDUSTRY, OUR STAHL CRANESYSTEMS BRAND BOASTS AN EXTENSIVE AND INTEGRATED PRODUCT LINE.

AUTOMOTIVE



Double girder wall travelling cranes have become rare in the industry, but this system offers unique features for the automotive sector. The four cranes are equipped with **advanced hoists** that allow both single and tandem operation, offering **exceptional flexibility** in day-to-day production. This versatility ensures that loads can be moved **independently or synchronized**, depending on the task at hand.

For reliable tandem operation, the system integrates a **load summation system** paired with a **safety PLC** (Programmable Logic Controller). This setup continuously measures and monitors the loads on both crane hooks in real time, ensuring that the maximum combined load **capacity of 8 tons** is never exceeded. This not only protects the equipment and infrastructure but also enhances **operator safety** and supports compliance with strict industry safety standards.



MOVING TURBINES



In Brazil, a new facility with a state-of-the-art test laboratory has been built, using **intelligent technology** from STAHL CraneSystems. An **automated solution** for **transporting aircraft turbines**, optimizing maintenance, final inspection, efficiency and safety.

The system combines **powerful hoists and cranes**: A total of four SHF 60 frequency-controlled wire rope hoists, each with a load capacity of 20 tons, and two SHF 50 frequency-controlled wire rope hoists, each with a load capacity of 5 tons, are used. The radio control can be used to **switch between tandem operation and normal operation**. All hoists are equipped with **bogie trolleys** for entering the test cell. This system enables a seamless load transfer between the cranes without the turbine having to be lowered, ensuring **seamless hall-to-hall transport**.

Key feature: high automation with **constantly communicating sensors**. The cranes autonomously **detect load positions**, adjust movements, transport turbines, and hold them precisely when needed.



CRANEKITS

CraneKits with chain hoists and wire rope hoists offer crane builders around the world the possibility to execute orders economically with manageable planning costs. **Customer service, planning, construction of the system** as well as service and the **provision of spare parts** are carried out by **competent local crane builders**. The **intuitive, structured planning software** with continuously updated database enables **easy configuration** of the crane system. STAHL CraneSystems manufactures the hoists, components and other equipment to a high standard of quality and tests the modules for hoisting, travel and control technology exhaustively.



HOISTS & WINCHES

STAHL CraneSystems offers a comprehensive range of **chain hoists, wire rope hoists and winches** for a **wide variety of lifting and transport tasks**. The ST chain hoists are **robust and reliable** with load capacities from **125 kg to 6,300 kg**. Wire rope hoists offer precise and safe lifting technology for demanding applications and are designed for loads from **500 kg to 125,000 kg**. SHW8 winches are versatile and designed for loads of **up to 250,000 kg**. The products are characterised by high quality, durability and innovative technology.

FEATURES & BENEFITS

- Effective and economical
- Intuitive, structured software
- Up-to-date database
- Optional support by engineering team or factory service centre



All products are optionally available in explosion-proof design according to ATEX or IECEx

FEATURES & BENEFITS

- Largely maintenance-free, low wear and long service life according to FEM/ISO standards
- The hoists are designed for heavy-duty industrial use and are characterised by their robust and reliable construction
- Standard high-quality safety components for increased safety at work
- Stationary design and systems applications
- Suitable for various applications and environments

CASE STUDY PRODUCTS



ENDCARRIAGES & WHEEL BLOCKS

The robust crane endcarriages are manufactured in modern series production. They are easy to mount on both suspension cranes (underslung cranes) and bridge cranes. The wheels, made of high-quality spheroidal graphite cast iron with self-lubrication, come in various diameters.

The SR wheel block programme is used in crane, trolley and systems building as well as in custom applications & special constructions. The SR wheel block comes in six different sizes for wheel loads from 5,000 kg to 30,000 kg.

CRANE ELECTRICS

The crane electrics include cable power supplies, conductor rails and energy chains for the power supply. Control units, radio remote controls and frequency inverters are available for all hoists. Standard contactor controls for all common control voltages in crane systems with components from STAHL CraneSystems. In the basic version, the components are supplied with plug-in connections where possible.

FEATURES & BENEFITS

End Carriages for bridge & suspension cranes

- Impellers made of high-quality spherical graphite casting with self-lubrication
- Low-noise impeller drive

SR wheel block

- Three standard configurations for connection to on-site structures
- Low-maintenance direct drive with two travel speed

FEATURES & BENEFITS

- Robust control pendant with Emergency Stop palm button and control cable
- All switching elements for hoist, cross, and long travel are 2-step
- IP65 protection, additional buttons



LINEAR MOTION

RENOWNED FOR ITS TECHNOLOGICAL INNOVATION, **PFAFF-SILBERBLAU** LEADS THE FIELD IN **DRIVE AND LIFTING TECHNOLOGY**, OFFERING COMPREHENSIVE SOLUTIONS INCLUDING LIFTING ELEMENTS, ELECTROMECHANICAL COMPONENTS OF LINEAR DRIVE TECHNOLOGY, AND SPECIALIZED WINCHES. CUSTOMERS CAN TAILOR THESE SOLUTIONS BY COMBINING COMPONENTS ACCORDING TO THEIR SPECIFIC NEEDS IN THE TRANSPORTATION INDUSTRY.

CONTAINER CRANE



The customer needed to **improve safety in the container port**, especially with uneven loads and stormy conditions causing tilts.

The SLA spreader from Pfaff-silberblau is designed for port cranes and container handling. Thanks to its **high load capacity, precise positioning** and robust design, it makes a significant contribution to efficiency and safety in port logistics. Using the SLA enabled **synchronous and precise positioning** of spreader frames. The linear drive ensured even **load distribution**, even with inclined loads. This not only led to a smoother, more **stable lifting** of the containers, but also to significantly reduced mechanical loads on the crane. The **reliable control system** and robust drive design ensured **low-maintenance performance**, even in continuous operation and bad weather.

ROOF WORKING ON BUSES



The flexible modular concept with **adjustable heights** and **segment lengths** allows quick adaptation of roof working platforms to all buses. The electro mechanically extendable working platforms and **sliding safety guards** at the front and rear ensure ergonomic all-round **fall protection**, regardless of which fleet vehicle is in the work bay. The mechanics can safely reach their workplace on the roof of the vehicle via height-adjustable stairs. **Optional components** such as various crane systems, lighting equipment, signalling systems or monitored access doors increase **efficiency and safety**.

Electric buses for example, are equipped with up to ten powerful high-voltage battery packs with a total **capacity of 330 kWh**, which ensure an appropriate range. They require **more maintenance** due to heavy electrical components like battery packs, fuse boxes, inverters, and air conditioning systems on the roof. There are also additional hazards and challenges for the maintenance crew due to the rounded plastic roofs.



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VIDEO: SPECIAL
RAIL SOLUTIONS

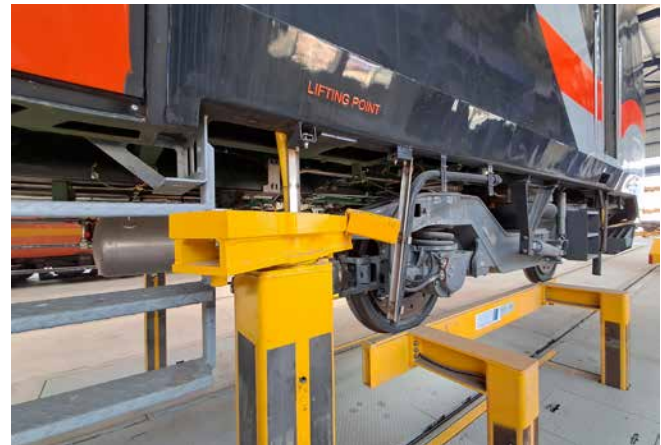
SHIP SLIPWAY



This application involves eight **BETA wire rope winches** used for accommodating larger ships on a slipway. The **slipway is an inclined ramp** on which a vessel is pulled out of the water by means of rail-guided trolleys and lowered back into the water, e.g. for **inspection and maintenance purposes**. The winches required for this are operated from a **central control station**.

This system allows for the **differentiated selection** of individual winches depending on the ship model and length. The control system manages all pre-selected winches in **complete synchronisation** throughout the entire travel path, regardless of the load. An alarm triggers when a winch nears its 12-tonne pull limit, and the system shuts down if exceeded. All slipway winches have an **IP55 rating for outdoor use**, with **geared limit switches**, an absolute encoder, motor monitoring, and a 47-meter rope capacity. A pressure roller ensures perfect spooling.

UNDERFLOOR LIFTING SYSTEM



Underfloor lifting systems bring trains up to the level needed to **conduct inspections**. Their proven design and their control system technology assist staff in the safe and efficient maintenance of all kinds of rail vehicles, including subways, trams and high-speed trains. **Maintenance and repair work** can be comfortably carried out **under the raised train**.

This example showcases an eight-car **synchronized pit jack system** designed to handle a train length of up to 200 meters and a weight of 384 tons. The system is synchronized **using VFD** and a **fail-safe PLC** that does control, interlock function and monitoring of the jacks in a range of ± 5 mm, which allows **simple user interface** and provision of modification and expansion. Inverter or VFD in the design ensures **smoother operation** and **energy conservation** through its ramp up and ramp down feature.

CASE STUDY PRODUCTS



SLA SPREADER LINEAR ACTUATOR

SLA linear actuators are used for the **tilting movement of the spreader/head block** in STS and RTG cranes. The SLA linear actuators are characterized by high energy efficiency because they do not require a continuous power supply. This **reduces operating costs** and contributes to more sustainable resource use. Your advantage: **maximum efficiency in port operations** by using the Spreader Linear Actuator in your harbour cranes, you benefit from **higher handling capacity, reduced downtime**, and overall increased operating efficiency.



RWP ROOF WORKING PLATFORM

Our RWP roof working platforms offer you a **flexible means of access for inspection and maintenance** of different rail and road vehicles for public transportation. To bridge the distance to the vehicle, the roof working platforms are fitted with the **latest extender units**. Our roof work platforms with an adjustable height can be **flexibly adapted to the respective vehicle fleet**. When it comes to the various possible applications, your best option is to let our experienced specialists draw up tailored proposals for you.

FEATURES & BENEFITS

- Load capacity up to 150 kN, ideal for heavy-duty applications
- Weatherproof coating (C4, 240 µm, RAL5015), protection against salt water and corrosion
- IP66 protection class, complete protection against dust and water
- Precise control via absolute encoders, no homing required
- Energy-efficient IE3 three-phase motors, reduced power consumption with high performance

FEATURES & BENEFITS

- Minimum risk of falling due to an enclosed working area created by electromechanical extension modules
- No tripping areas and a tidy workspace
- Minimal obstruction of traffic routes due to a slim, clear design
- Optimized workflows with a wide range of options for temporary storage of tools and work equipment
- Highly automated roof working platforms ensure operational readiness at the push of a button



BETA-EL ELECTRIC WIRE ROPE WINCH

The BETA EL electric wire rope winches **lift, lower and pull** a wide variety of loads in all areas of application. The **proven technology** and **high quality** standard of the BETA EL electric wire rope winches guarantee trouble-free, **safe and durable operation** up to 7.5 t. The modular principle enables a **high degree of flexibility**: the BETA EL electric wire rope winches with their numerous options can be perfectly combined to create a customized solution.



UNDERFLOOR LIFTING SYSTEMS

Underfloor lifting systems from Pfaff-silberblau are a full and **elegant solution** for the maintenance of diesel locomotives or high-speed trains. **Turntables for exchanging bogies** can also be integrated into this maintenance solution. The tried and tested design of Pfaff-silberblau underfloor lifting systems together with the **latest control technology** ensures the safety and reliability of the system as well as optimum **operator ergonomics** for maintenance personnel. Underfloor lifting systems have the advantage that, in the rest position, the **workshop floor is completely level** and can be negotiated without any restrictions.

FEATURES & BENEFITS

- Capacity 320 – 7,500 kg
- Modular construction system with many versions
- Maintenance-free worm gear pairs or low-maintenance spur gear with milled & ground gears, running in oil bath
- Very quiet running by diagonal interlock
- Electrically released spring-applied disc brake
- Duty ratio S3 – 40 %, contactor control 42 V
- Powerful three-phase motor for multi-range voltage 380 – 420 V / 50 Hz or 440 – 460 V / 60 Hz
- Motor protection type IP55

FEATURES & BENEFITS

- Choose from different versions and system configurations: longitudinal beam hoist for universal application, or a custom-made system with a cantilever beam design



We would be happy to provide you with detailed information on our underfloor lifting systems and to advise you on the design of your maintenance equipment.

LIFTING DISTRIBUTION

YALE IS A LEADING BRAND IN THE MATERIAL HANDLING SECTOR, DISTINGUISHED FOR ITS EXTENSIVE RANGE OF PRODUCTS VALUED FOR THEIR SUPERIOR QUALITY AND PERFORMANCE. THESE PRODUCTS ARE PREDOMINANTLY INCORPORATED BY CRANE BUILDERS INTO COMPREHENSIVE OVERHEAD LIFTING SYSTEMS, SERVING DIVERSE INDUSTRIES FOR THE TRANSPORTATION SECTORS. ALONGSIDE OUR PREMIUM ELECTRIC CHAIN HOISTS, WE ALSO OFFER MANUAL AND BATTERY HOISTS AS WELL AS HYDRAULIC AND LEVER TOOLS.

TRAIN WHEEL MAINTENANCE



Yale's hydraulic solution, with compact pumps, is ideal for **lifting bogies during train wheel maintenance**. Normally, the bogie is lifted from at least four points. With this solution, it is sufficient to **lift it on one side** (i.e. slightly tilted) because the wheel only has to be rotated once. A PYB cordless battery powered pump together with the YALE YLS-20/45 **low-profile cylinder slightly lifts the train** by a little over 2 mm so that the wheels can be turned and checked for damage.

The mobile solution with the PYB **cordless battery powered pump** can develop an operating pressure of up to 700 bar. Applications include the operation of **small to medium-sized cylinders**, such as the YLS single-acting low-profile cylinder with a lifting capacity of 10 to 100 tonnes and a spring return. Such cylinders are **ideal wherever space is limited**. They are mainly used for lifting, positioning and clamping.



YALE PYB ELECTRIC MOTOR-PUMP

This extremely compact and **lightweight power pack** gives the user the freedom to operate in areas where there is **no power source**, increasing productivity over the conventional hand pump and all at the push of a button. The power pack utilises a **standard HiKOKI LI-ION battery** and charger to **maximize operation**. Ideal for a range of applications using **small to mid size single-acting cylinders**, hydraulic spreaders, lifting wedges nut splitters and much more.

FEATURES & BENEFITS

- Operating pressure max. 700 bar
- One-Hand-Operation, push-button integrated into ergonomic handle
- Two-stage operation with automatic switch-over
- With internal pressure relief valve
- Reservoir made from aluminium, extreme low weight
- Protective cover prevents accidental pump activation
- Rubber tank bladder enables the pump to be used in any position



BATTERYSTAR

1,000 kg load capacity, cordless and weighing only approximately 20 kg. The BatteryStar is our first battery-powered chain hoist that can handle such a high load capacity in such a **compact** and **robust design**. It sets new standards and offers you a unique combination of **power, flexibility and mobility**. This makes the BatteryStar the perfect choice for **increasing productivity** and safety in a wide range of environments.

- No electric power required
- Can be used in versatile positions
- Remote operation



YALEERGO 360[®] UT RATCHET LEVER HOIST

This safety gear is designed to intervene precisely **when the load pressure brake fails**. This means that the YaleERGO 360 UT **guarantees controlled handling** and additional safety even in adverse conditions, especially in applications that are very demanding for a hoist.

- Enables a safe, ergonomic working position
- Patented crank handle enables 360° operation
- Double reduction gearing and quality bearings cut pull force by 30%, easing fatigue



OTHER HYDRAULIC SOLUTIONS

Due to the centre hole design a threaded rod can be placed through the hollow cylinders so that extremely **high pulling forces** can be achieved. Hollow cylinders are used as the **power component** within hydraulic puller sets, for **pre stressing anker bolts**, removing axles, shafts, bushings, extracting tubes, as well as for **heavy-duty pulling applications**.

- Capacity 50,000 – 100,000 kg
- Compact, low-headroom and flexible applications
- Operating pressure max. 700 bar
- Single-acting with spring return

PRECISION CONVEYANCE

DORNER'S PRECISION CONVEYOR SYSTEMS OFFER EFFICIENCY AND ACCURACY FOR ANY MATERIAL HANDLING APPLICATION. FROM INDUSTRIAL PARTS TRANSPORT TO SENSITIVE PRODUCTION LINES, DORNER PROVIDES CUTTING-EDGE SOLUTIONS TO MEET EACH CUSTOMER'S UNIQUE NEEDS. DEDICATED TO HIGH QUALITY, INNOVATIVE DESIGNS, AND COMPREHENSIVE CONVEYOR PLATFORMS, WE DELIVER PRODUCTS THAT ACCOMMODATE VIRTUALLY ANY MATERIAL HANDLING APPLICATION AND PROVIDE EFFICIENT SOLUTIONS FOR A WIDE RANGE OF MANUFACTURING INDUSTRIES.



In order to **optimize the production process**, an individual Dorner conveyor system was developed for a **headlight manufacturer**. The challenge was to find a solution that not only **ensured reliable transportation**, but was also flexible enough to **produce different headlight models on the same line**.

The company opted for a **modular ERT Pallet System** that could be **easily adapted to different product sizes** while ensuring the **smooth transportation** of sensitive components. The conveyor belts ensure **precise and exact positioning**, which is particularly essential when assembling LEDs and reflectors. The continuous supply of material and the minimization of downtimes have significantly **increased production capacity**.



ERT150 PALLET SYSTEM

Dorner's Pallet System conveyors **simplify product flow** and control with features such as a **unique pin tracking system**, **industry-compatible pallet sizes**, and innovative modules. Our DualMove Pallet System conveyor and our FlexMove Pallet Systems are advanced in **pallet traffic management** and are specifically designed to **increase efficiency**, **reduce downtime** in automation processes, and provide accurate conveying.

FEATURES & BENEFITS

- Accurate positioning and routing
- Ideal for assembly processes or inspection
- Pin tracking system, simple and cost effective method of tracking pallets through turns
- Pallets can be purchased as completed assemblies or as kits



ERT250 PALLET SYSTEM

The ERT250 is a **heavy-duty edge roller conveyor**, offering an accurate, durable option for **heavy or bulky product assembly** applications.

- Loads up to 114 kg (250 lbs)
- Speeds up to 37 mpm (121 fpm)
- Widths from 320 mm to 800 mm
- Non-contact zone control eliminates pallet stops and expensive pneumatic valves
- Sliding rollers with low back pressure can be used over the entire length with conventional pneumatic pallet stops



FLEXMOVE PALLET SYSTEM

This system offers a **flexible chain** with the **ability for multiple curves** on the same line, making it perfect for **product routing and control** throughout the production process.

- Loads up to 9 kg (20 lbs)
- Multiple modules including: merge, divert, pallet stops, and lift & locate
- Space-saving design
- Reduce pinch points with innovative flexible chain belt



DUALMOVE PALLET SYSTEM

Designed to be **efficient and cost effective** while providing **precision and accuracy** throughout the manufacturing, assembly, and inspection processes.

- Loads up to 32kg (70 lbs) per pallet
- Speeds up to 34 mpm (114 fpm)
- Widths from 160 to 800 mm
- Lengths up to 7500 mm (24' 7")
- Traditional timing belt

SMART CONVEYANCE

IN TRANSPORTATION, THE **montrac**[®] SYSTEM'S MODULAR DESIGN UNDERSCORES ITS MAXIMUM RELIABILITY ACROSS THE BOARD. IN THE EVENT OF A SHUTTLE GLITCH, SEAMLESS REPLACEMENT IS POSSIBLE WITHOUT DISRUPTING SYSTEM OPERATIONS. EXPANDING PRODUCTION CAPACITY IS EASILY ACHIEVABLE THROUGH THE INTEGRATION OF SUPPLEMENTARY SHUTTLES. OUTFITTED WITH CUTTING-EDGE EARLY DETECTION SENSOR TECHNOLOGY, **montrac**[®] SHUTTLES ENSURE SEAMLESS WORKPIECE TRANSPORTATION, GUARANTEEING THE SECURE CONVEYANCE AND VIBRATION-FREE HALTING OF DELICATE COMPONENTS.

HEADLIGHT PRODUCTION



In the specific conditions of headlight, **repeatability of automated processes** can add great value for the final product. To achieve maximum productivity, the customer wanted to **eliminate any human contact with the transported parts** as well as manual quality control and a conventional packaging area. In this application for example, a chaotic storage system is used, where the **montrac**[®] Shuttles are **integrated into a system of optical control sensors** in combination with **artificial intelligence**. The Monorail System from montratec was individually layouted in order to be **implemented smoothly** into the existing process. The shuttles transport the headlights and its parts to and from injection molding machines with the automatic painting system. The whole system works around the clock, 24 hours a day, seven days a week.

MONORAIL SYSTEM



The **montrac**[®] modular system encompasses all the components required to construct **customised rail systems**. **montrac**[®] Trac is compatible with the Trac-Set profile system. Components such as **curves, junctions, switches and lifts** are all available to enable **flexible routing**.

- Is made of a anodised, extruded aluminium profile
- A TracCurve enables 90° or 45° changes in direction with connection radii of 220 mm or 520 mm
- Two 90° TracCurves can be used to create a 180° curve



GET TO
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MORE



SHUTTLE SOLUTION

Core components of the montratec® system, montratec® shuttles are **intelligent single or twin-axle** equipped with an **on-board power supply**. Moving **self-centred** on the monorail, the shuttles are equipped with state-of-the-art **sensors** that prevent potential collisions with obstacles or other shuttles.

- Positive influence on ROI
- Ecologically energy-optimized operation
- Energy-efficient direct current via the monorail
- Efficiency-optimized drives at the shuttle
- Low maintenance requirements, minimal wear



TRACSET

Suitable TracSet **base frames** are available for all montratec® components. Similar to the Trac rail system, the base frames are also of **modular design**. Base frames are **individually height-adjustable** to meet customer requirements.

- A universal, modular, height-adjustable system
- Practical clamp connection
- No mechanical processing of the profiles, e.g. drilling
- Robust and versatile profile system can be quickly and easily assembled



TRACCONTROL

System-specific controls ensure optimum functioning and utilisation of the montratec® transport system. Our modular TracControl routing components allow you to precisely control and **seamlessly monitor your system**, regardless of whether the layout is simple or highly complex.

- Optoelectronic communication module for exchanging data to enable interaction between the shuttle, rail system and SPS master control
- TracControl offers numerous montratec® transport system control options

ADDITIONAL EQUIPMENT

TIGRIP® LOAD HANDLING ATTACHMENTS HAVE BEEN A BYWORD FOR RELIABILITY, QUALITY AND SAFETY FOR OVER 35 YEARS. FOR TRANSPORT BY HOIST, WE OFFER THE OPTIMUM LOAD HANDLING ATTACHMENT FOR ALMOST EVERY APPLICATION. CMCO ALSO HAS THE RIGHT SOLUTIONS FOR **MATERIAL HANDLING AND TRANSPORT**. THE COMPREHENSIVE PRODUCT RANGE OFFERS THE RIGHT MODEL FOR A VARIETY OF APPLICATIONS, BE IT FOR **DIFFERENT ROUTE LENGTHS OR DEGREES** OF UTILIZATION, **GRADIENTS AND RAMPS** OR AREAS WITH A CORROSION HAZARD.

BELOW THE HOOK LIFTING DEVICES



Our product portfolio includes **grabs, lifting clamps, tension clamps, transport eyes, C-hooks, spring balancers, lifting magnets, load handling equipment for civil engineering, lifting beams, crane forks and weighing equipment.** We are of course always available for further advice.

- Lifting Clamps and Wire Grips
- Permanent lifting magnets
- Lifting lugs and C-Hooks
- Spring balancers and Spreader Beams

MATERIAL HANDLING & TRANSPORTATION



Our high-quality **stationary scissor lifting tables** give you a **competitive advantage** and **ensure efficient and safe workflows** in your company.

- Electric Pallet Trucks
- Hand Pallet Trucks
- Scissor Elevating Platform
- Electric Pendastrain Stackers

BRAND OVERVIEW

WE ARE PROUD TO PROVIDE **WORLD-LEADING LIFTING AND CONVEYANCE SOLUTIONS**, ENSURING THAT EVERYTHING IS AS SAFE AS POSSIBLE IN CHALLENGING CONDITIONS. WITH THE DIFFERENT SOLUTIONS OF OUR BRANDS, FROM CRANE SYSTEMS TO HYDRAULICS, FROM HOISTS TO WINCHES AND SMART CONVEYANCE, WE PROVIDE COMPREHENSIVE SOLUTIONS **FOR YOUR TOUGHEST CHALLENGES**, MAKING YOUR WORK **SAFE, FAST, AND EFFICIENT**. CONTACT US AND WE FIND YOUR SOLUTION TOGETHER.



When you look for the customized and big things, our hoists, components and crane technology are the optimal solution for your individual challenges.



Provides customizable lifting technology solutions with winches, screw jacks, platforms and much more.



Get to know our battery powered chain hoist, reliable standard chain hoists, winches and hydraulic solutions for a wide range of challenges.



Offers innovative conveyor solutions for specific requirements in the mechanical engineering, packaging and hygiene sectors.



Developed the modular montrac® monorail shuttle system used to network production processes between robots and workstations more flexibly than ever before.

A GLOBAL LEADER IN INTELLIGENT MOTION SOLUTIONS



LIFTING DISTRIBUTION



LIFTING SOLUTIONS



CONVEYANCE SOLUTIONS



LINEAR MOTION SOLUTIONS

CMCO

INTELLIGENT MOTION

Columbus McKinnon

Columbus McKinnon has a history of over 150 years and is a world leader in lifting and intelligent motion control technology. The innovative portfolio of high-quality brands, including Stahl CraneSystems, Magnetek, Pfaff-silberblau, Duff-Norton, Yale, Dorner, CM and montratec addresses the needs of our customers by enhancing safety and promoting growth and efficiency. Experience, expertise and innovation combined with a deep understanding of user needs are the formula for success that has long underpinned our portfolio of hoists, material handling equipment and lifting accessories. Columbus McKinnon is a global organization headquartered in Charlotte, USA (North Carolina). Its global presence includes offices and manufacturing facilities in North America, Latin America, Europe, Africa and Asia.



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