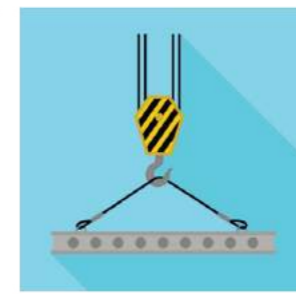
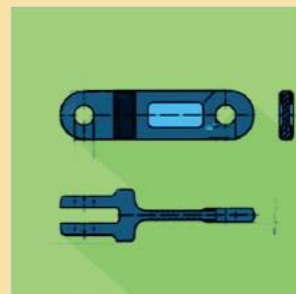
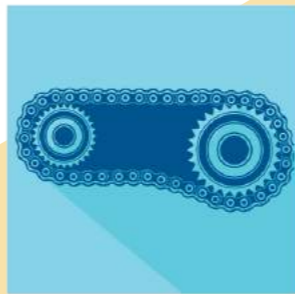
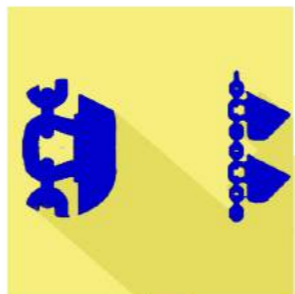


**LIFTING &
RIGGING**



MHE

**MECHANICAL
TRANSMISSION**



AUTOMATION

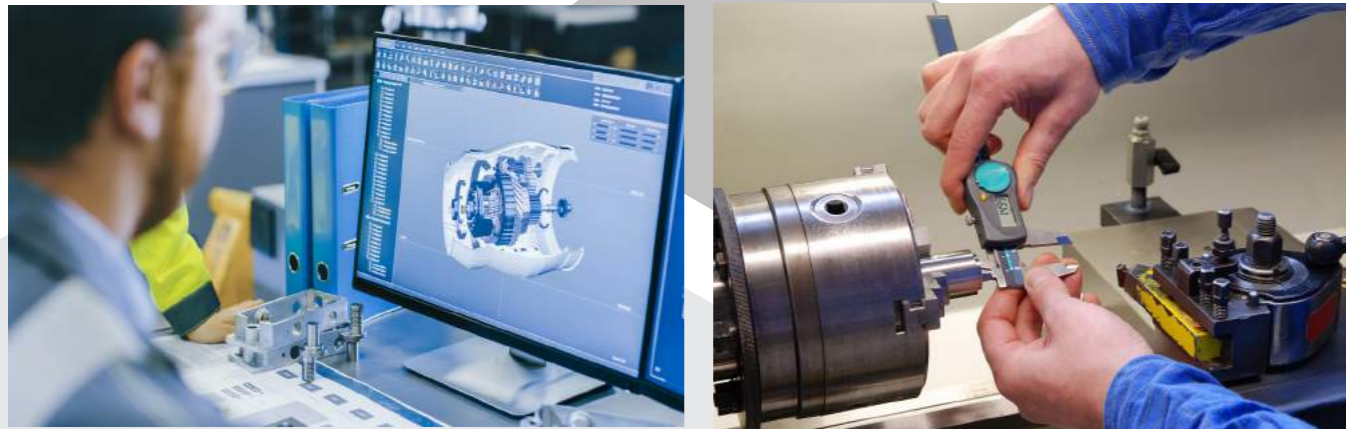
CONTACT US



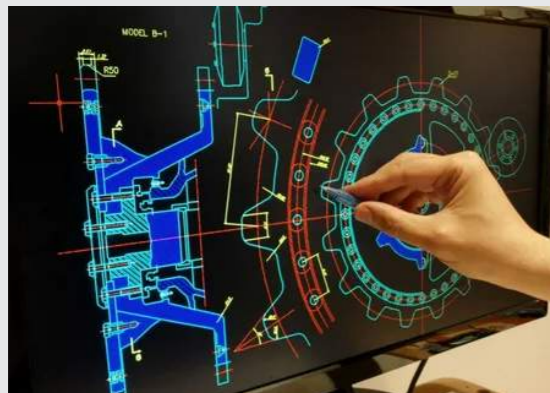
**DESIGN
ENGINEERING
MANUFACTURER**

COMPANY PROFILE

M/s. Drives and Drives was established in the year 1980 by late Shri H.K. Shenoy with a vision to be a solution provider in mechanical power transmission products. Subsequently his son Shri. D.K. Shenoy continued the good work from 1987 and expanded the portfolio of Mechanical power transmission products with new range of products in lifting and material handling segments.



The Company has its Administrative Office in Mulund, Mumbai and works at Kalher village Bhiwandi, there the works has both in house machine shop and fabrication facilities. The company has qualified engineers in the design and manufacturing team and latest 3D full simulation software like Solidworks and Solid Edge.



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VISION & MOTTO

VISION



Our Vision is to be a leading player in Designing engineering and manufacturing of Lifting, Material Handling Equipments, Mechanical power transmission and related automated products with continous technological improvements.

MOTTO



SOLUTIONS TO DELIGHT OUR CUSTOMERS

OUR PRODUCTS



LIFTING RANGE

1. Lifting Beams and Spreader Beam
2. C Hook/Coil Lifter
3. Automatic Coil Grab
4. Vertical Coil Grab
5. Billet Lifting Tong
6. Drosser (Slag Remover)
7. Custom Lift Products
8. Container Lifter Manual and Automatic
9. Cartec Italian range of Lifting products.



MHE RANGE

1. Goods Lift
2. Scissor Lift
3. Dock Leveller
4. Man Lift
5. Vaccum Lifter
6. Drum Lifter and Tilter
7. Electric Stacker
8. Hand Pallet Truck
9. Other custom MHE products



MECHANICAL POWER TRANSMISSION RANGE

1. DIAMOND brand Industrial Roller Chain
2. CUSTOM made special Sprockets
3. GEARS
4. Conveyor Chains and Sprockets
5. Drag Conveyor Chains
6. Bucket Elevator Chains
7. Shafts
8. Custom Machined components (heat treated and ground)



AUTOMATION PRODUCT RANGE

1. Agv
2. Radioshuttle
3. Transfer Trolley

LIFTING EQUIPMENTS

Lifting equipment refers to any type of extensions for the cranes that is used to lift or move heavy objects or materials. These can include C Hook, Container Spreader, Lifting Beams, Spreader Beams, and other specialized equipment designed for lifting and moving heavy loads. Lifting equipment can be operated manually, electrically, or hydraulically, and can be designed for use in a wide range of industries and applications. These types of equipment are essential for many industries, including construction, manufacturing, mining, and logistics, as they help to improve productivity, safety, and efficiency by enabling the lifting and movement of heavy objects that would be impossible to move manually.



EXPERTISE

- STANDARD PRODUCTS
- CUSTOM EQUIPMENTS
- AUTOMATION

LIFTING PRODUCTS

1. C-HOOK COIL LIFTER

These are traditional coil lifters, C-type with counter weight balance available up to 50 TONS SWL/WLL with design safety factor of 2:1 or 3:1 depending on intensity of usage at the steel mill. They can be designed for coils up to 2000 mm width. Special anti-scratch guards can be provided to handle items like stainless steel, aluminum, and other non-ferrous materials. Bushes made of special material are provided to provide frictionless bearing motion of the lifting pin.

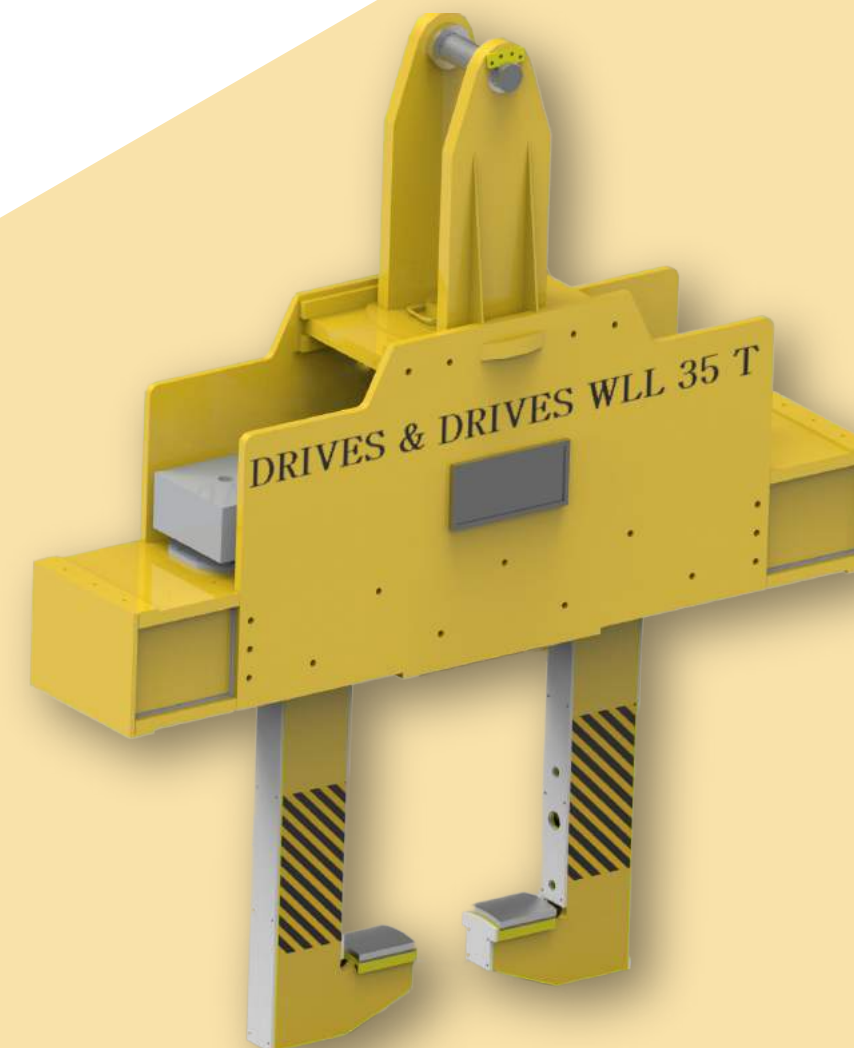


2. AUTOMATIC COIL GRAB

The Automatic Horizontal Coil Tong is designed to lift coils in a horizontal position. The tongs are robustly engineered for heavy duty application to meet the severe demands of steel- and aluminium rolling mills. The crane operator controls the entire lifting process from the crane cabin, by placing the tong above the center of the coil.

By raising the coil, the gripping arms close automatically. The electrical circuit to the control box is carried out by plug-in connection. This enables quick removal of the tong from the crane. The suspension assembly is designed to accommodate any size/type of crane hooks.

The standard suspension is fixed by a pull pin. Customized suspensions can be designed as per customer requirement.



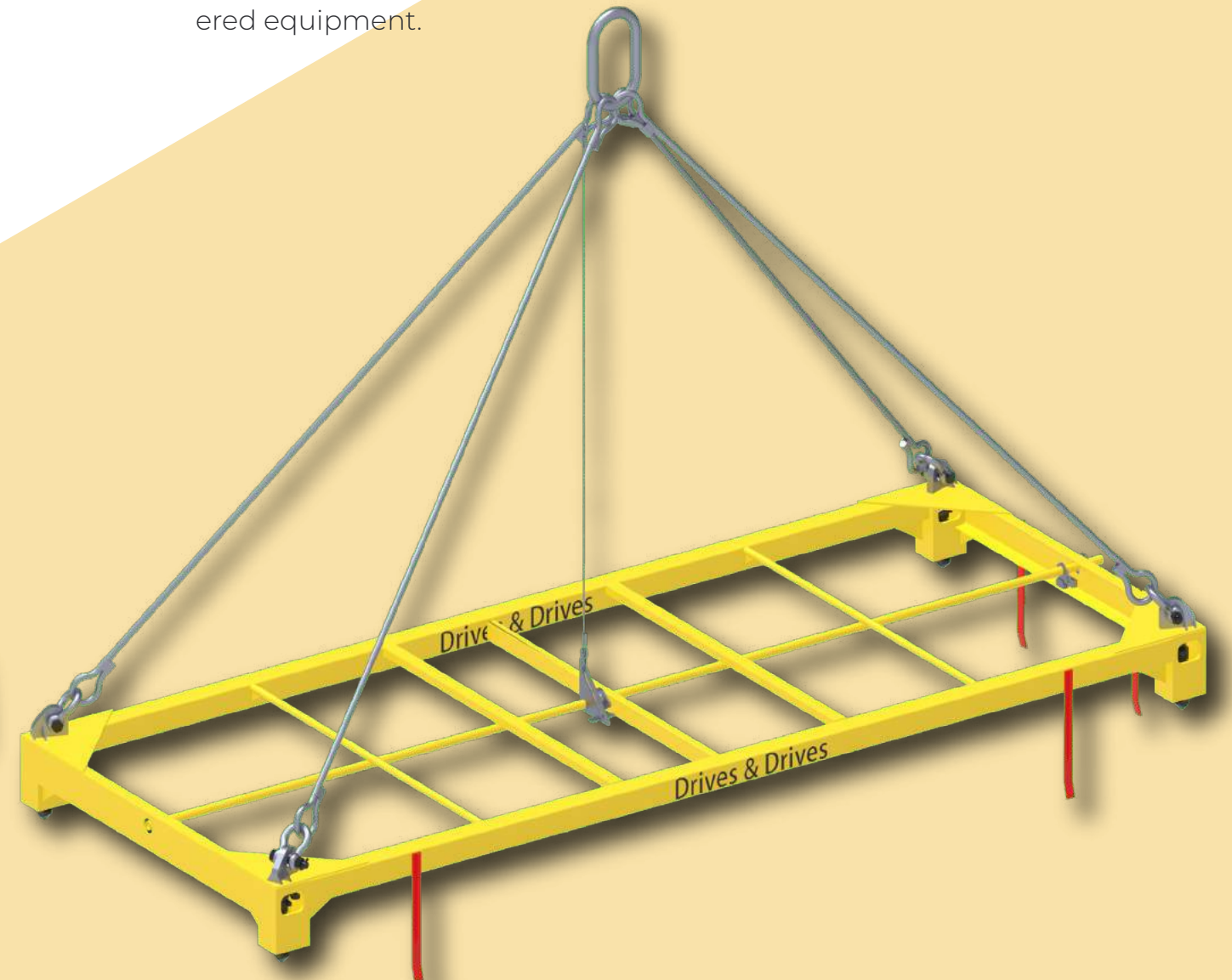
3. VERTICAL COIL GRAB

A vertical coil grab is a material handling device used to lift and transport coils of metal or other materials in a vertical orientation. It consists of two arms that can be hydraulically or mechanically operated to grip the outer diameter of the coil, and a hoist or crane to lift and move the coil to its desired location. Vertical coil grabs are commonly used in industries such as steel production, metalworking, and manufacturing to move and stack coils of sheet metal, wire, etc. They are built to be strong and durable, with the ability to handle heavy loads safely and efficiently. The design of a vertical coil grab can vary depending on the size and shape of the coils being handled, with some grabs being adjustable to accommodate different sizes of coils.



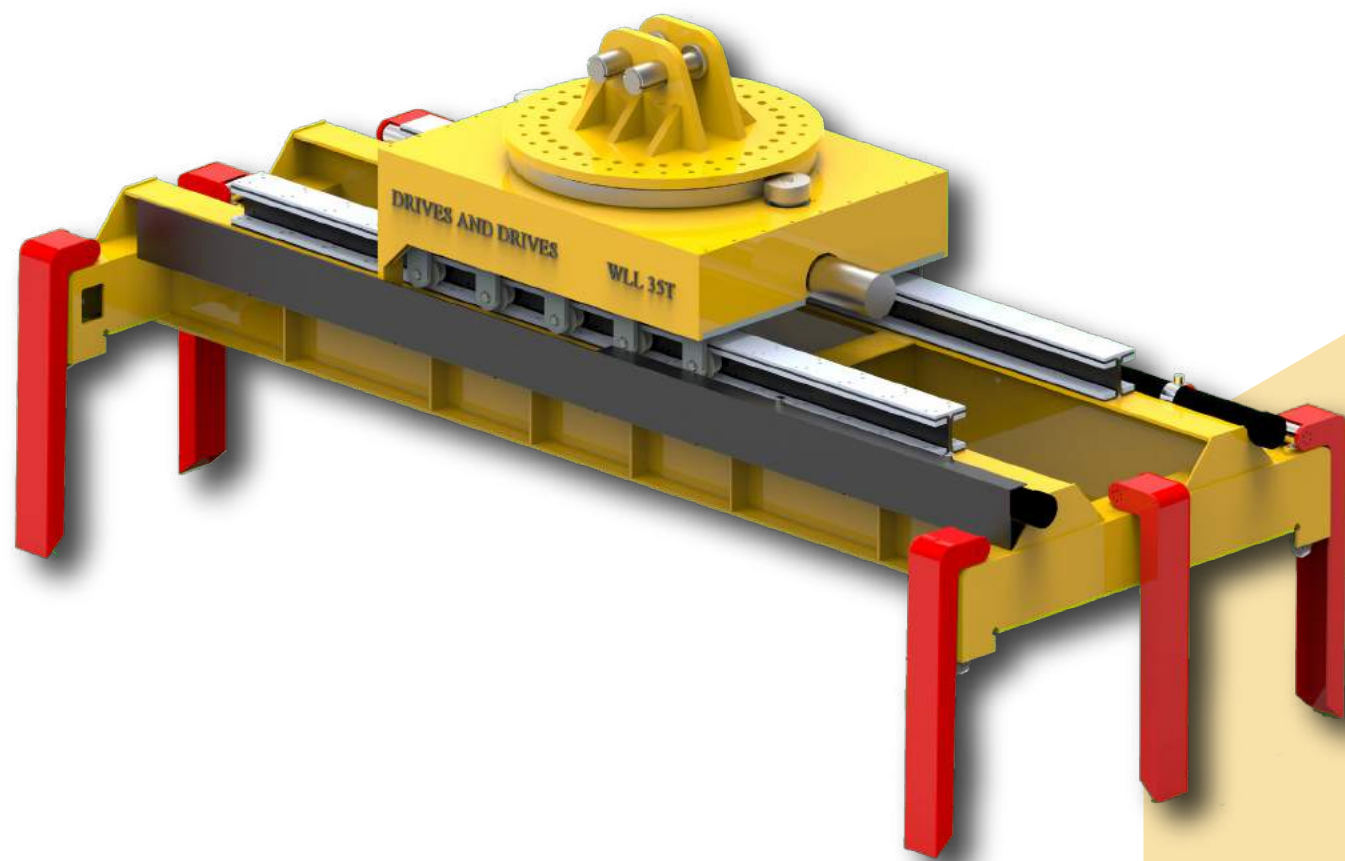
4. MANUAL CONTAINER LIFTER

A manual container lifter is a material handling device that is used to lift and transport shipping containers. It typically consists of a frame with wheels, a lifting mechanism, and a set of forks or clamps that can be attached to a container. The lifting mechanism can be operated manually, using a hydraulic pump or lever, to raise and lower the container. Manual container lifters are commonly used in industries such as logistics, warehousing, and transportation, where containers need to be loaded and unloaded from trucks, trains, or ships. They are designed to be portable and easy to maneuver, and can handle containers of varying sizes and weights. Manual container lifters are a cost-effective alternative to powered lifting equipment, such as forklifts or cranes, for small or medium-sized operations that require occasional container handling. However, they require more physical effort to operate and have a lower weight capacity compared to powered equipment.



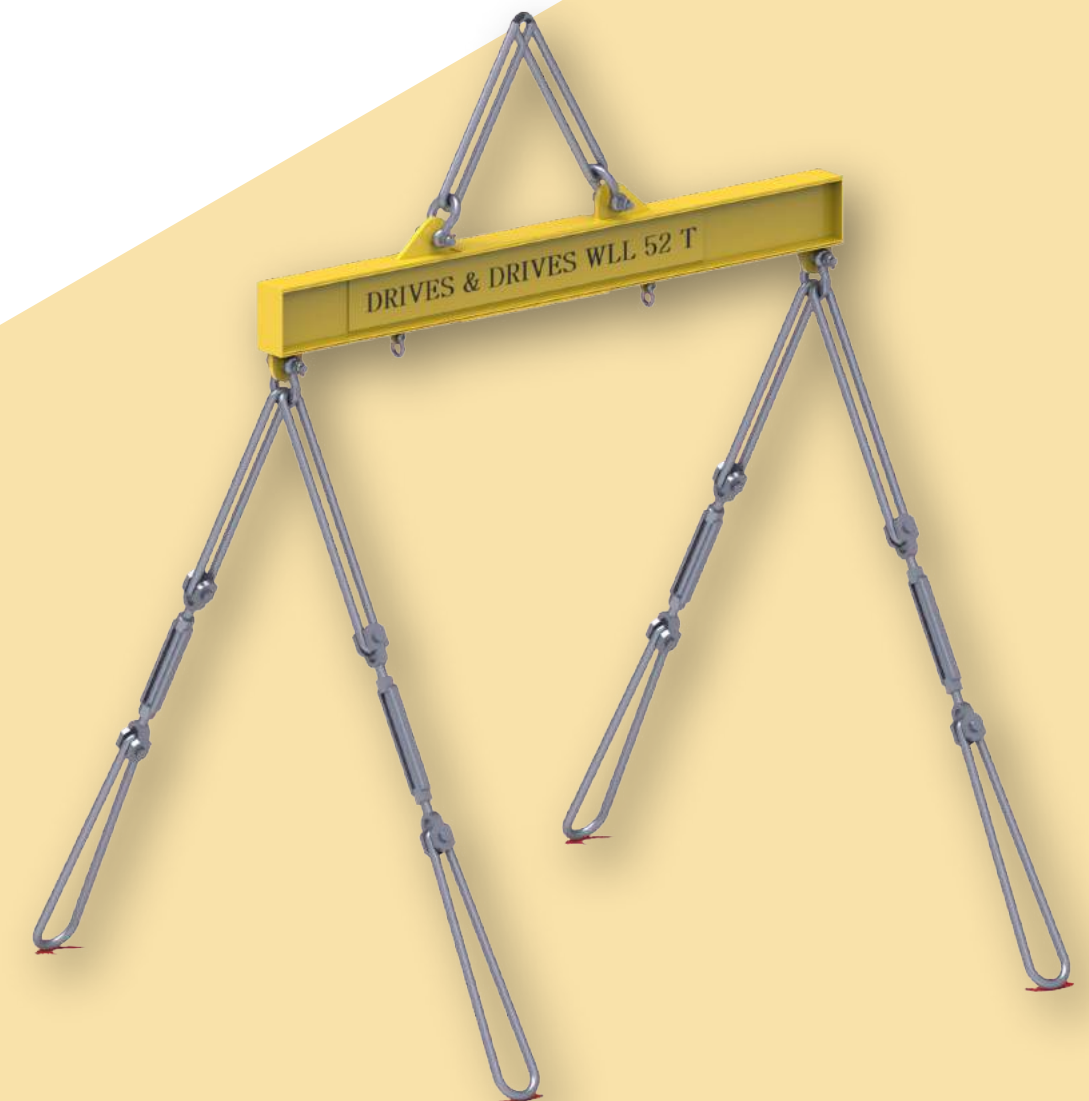
5. AUTOMATIC CONTAINER LIFTER

An automatic container spreader is a device used for handling shipping containers at ports, terminals, and container yards. It is a type of crane extension that is designed to automatically pick up and position containers in order to facilitate their transportation and storage. The automatic container spreader is typically attached to a crane, which lifts the container using the four corners of the container. The device is designed to operate automatically, with sensors and controls that ensure that the container is positioned and secured correctly. The use of an automatic container spreader can help to improve the efficiency and safety of container handling operations, as well as reducing the amount of manual labor required.



6. LIFTING BEAM

Lifting beams are ideal for situations where overhead room is a concern because it connects to the crane or hoist using a bail attachment. Lifting beams also provide multiple lifting points underneath and can be designed with variable or fixed lifting lugs.



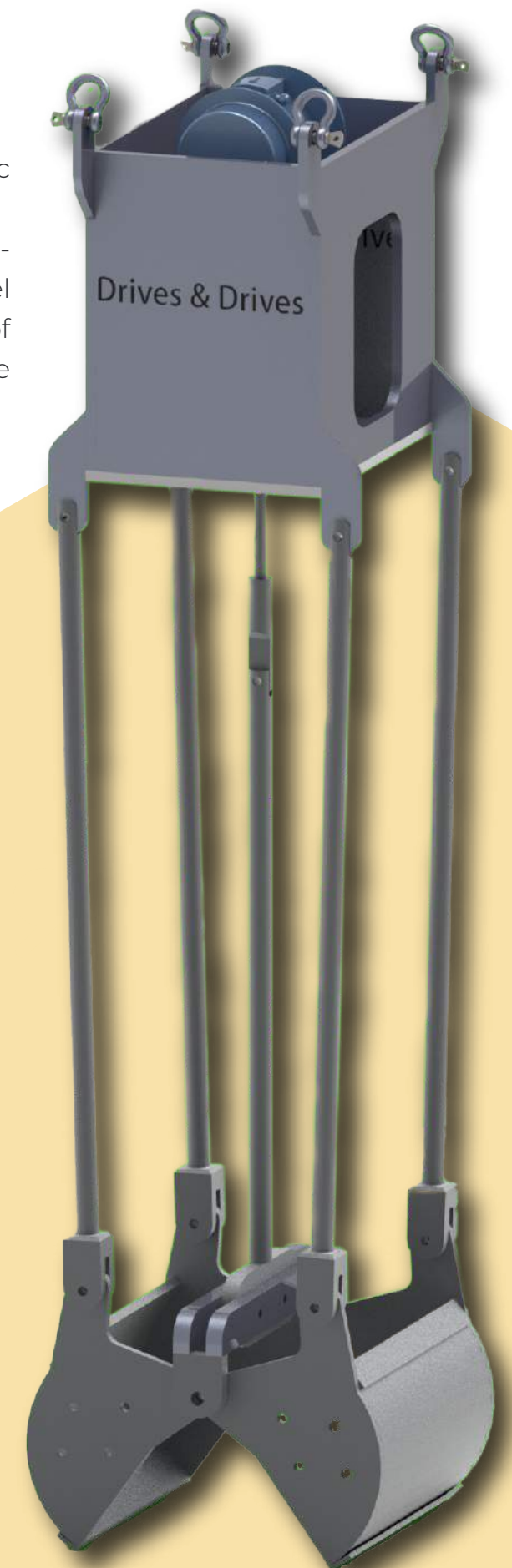
7. SPREADER BEAM

Spreader beams are ideal for lifting very wide or heavy-duty loads. Spreader beams also help to control the load and when rigged properly, can reduce the chances of: Load tipping, sliding, or bending. Crushing or damage to the load because you can control the sling angles.



8. DROSSER

The drosser is used to remove the zinc slag from the galvolum pot. It is manufactured with high temperature resistant stainless steel which can withstand temperature of 650 ° C with vibratory action to remove the slag stuck to the drosser.



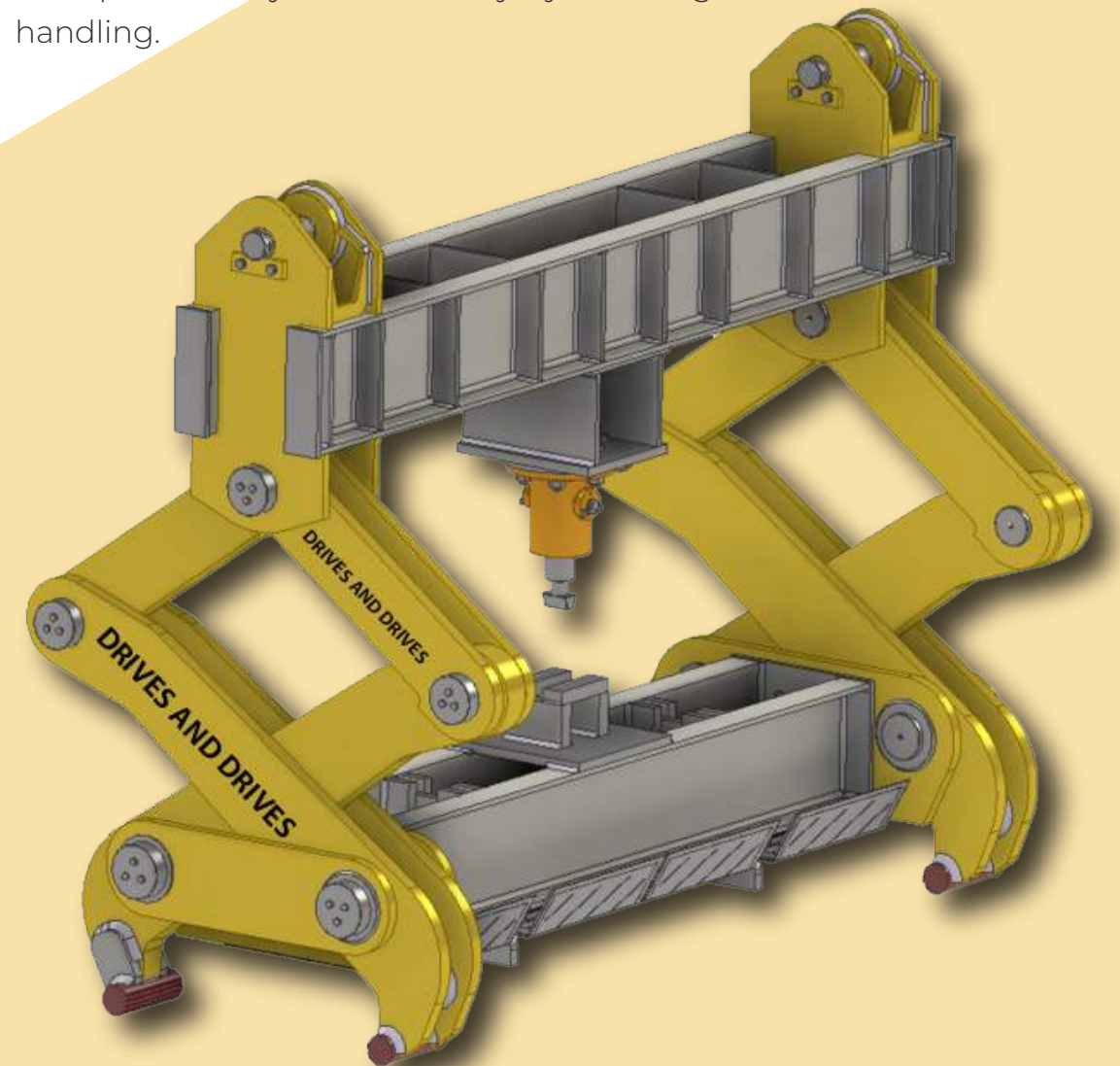
9. LIFTING TONG

Lifting Tongs are specialized lifting tools used for moving material billets in a repetitive production environment. It is mainly used in steel mills, steel forging and steel casting plants, etc. and are capable of handling different steel types at high temperatures.



10. BILLET LIFTING TONG

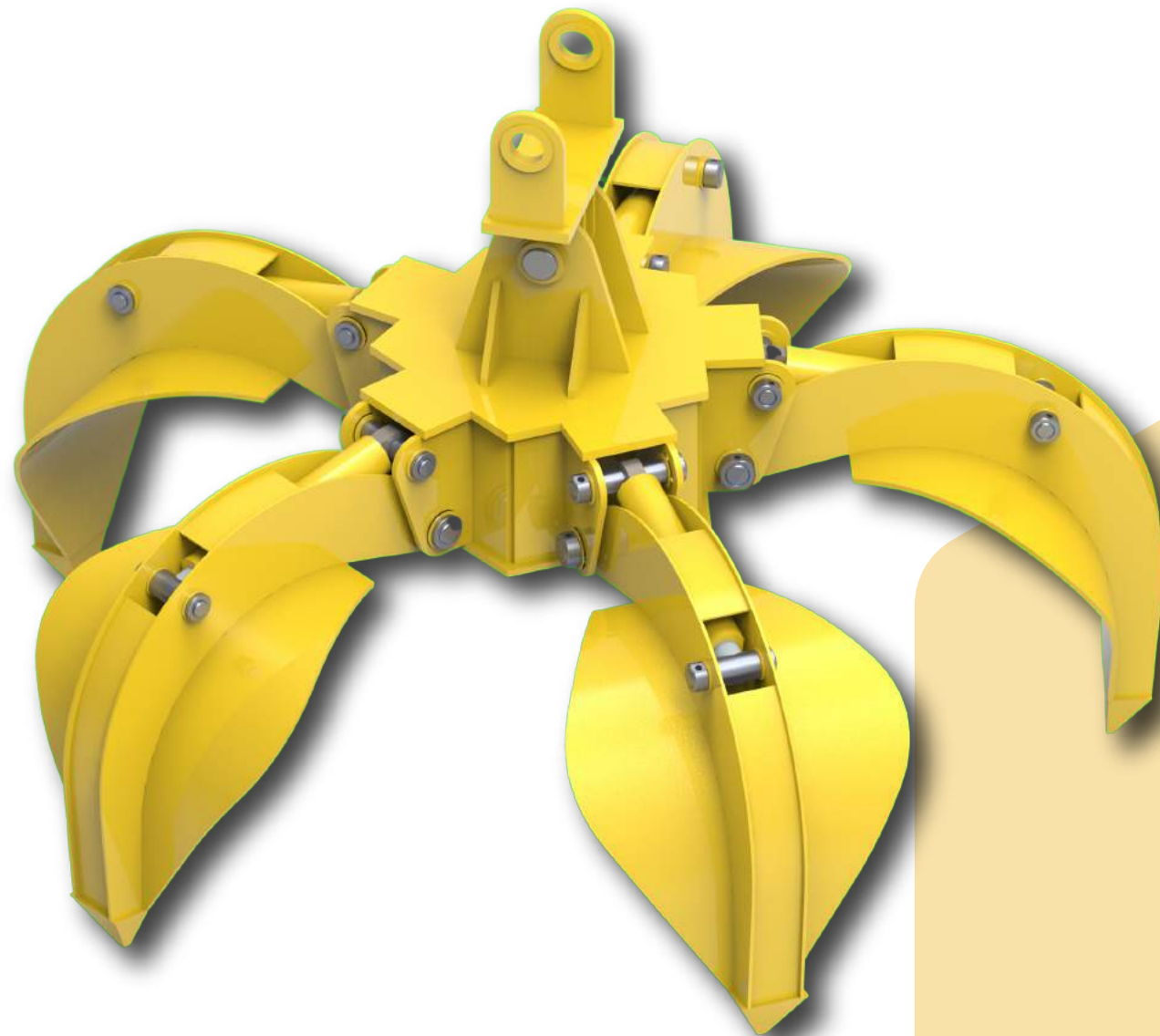
A billet lifting tong is a material handling device that is used to lift and move billets, which are large, solid blocks of raw material in manufacturing processes. Billet lifting tongs consist of two jaws or clamps that are attached to a lifting mechanism, such as a crane or hoist, to grip and lift the billet. The jaws of the tong are designed to securely grip the sides of the billet, and may have serrated edges or teeth to increase grip. Billet lifting tongs can be designed for a range of billet sizes and weights, and may be operated manually or hydraulically. They are commonly used in industries such as steel production, metalworking, and manufacturing to move billets between different processing stages or storage areas, and can help to improve safety and efficiency by reducing the need for manual handling.



11. ORANGE PEEL GRAB HOOK

The orange peel grab hook is typically made of heavy-duty steel and is designed to attach the grab to the lifting equipment, such as a crane or excavator. It features a hook at one end that securely attaches to the grab, and a ring or other attachment point at the other end that connects to the lifting equipment.

The use of an orange peel grab hook with an orange peel grab allows for efficient and safe handling of bulky materials, reducing the need for manual labor and improving productivity on job sites. The design of the hook and grab allows for a secure grip on the material being lifted, minimizing the risk of slippage or spills during transport.



12. LIFTING BELTS

Webbing sling or Lifting belt is a common material handling item used in the industry. Lifting belt is made from polyester or fabric material.



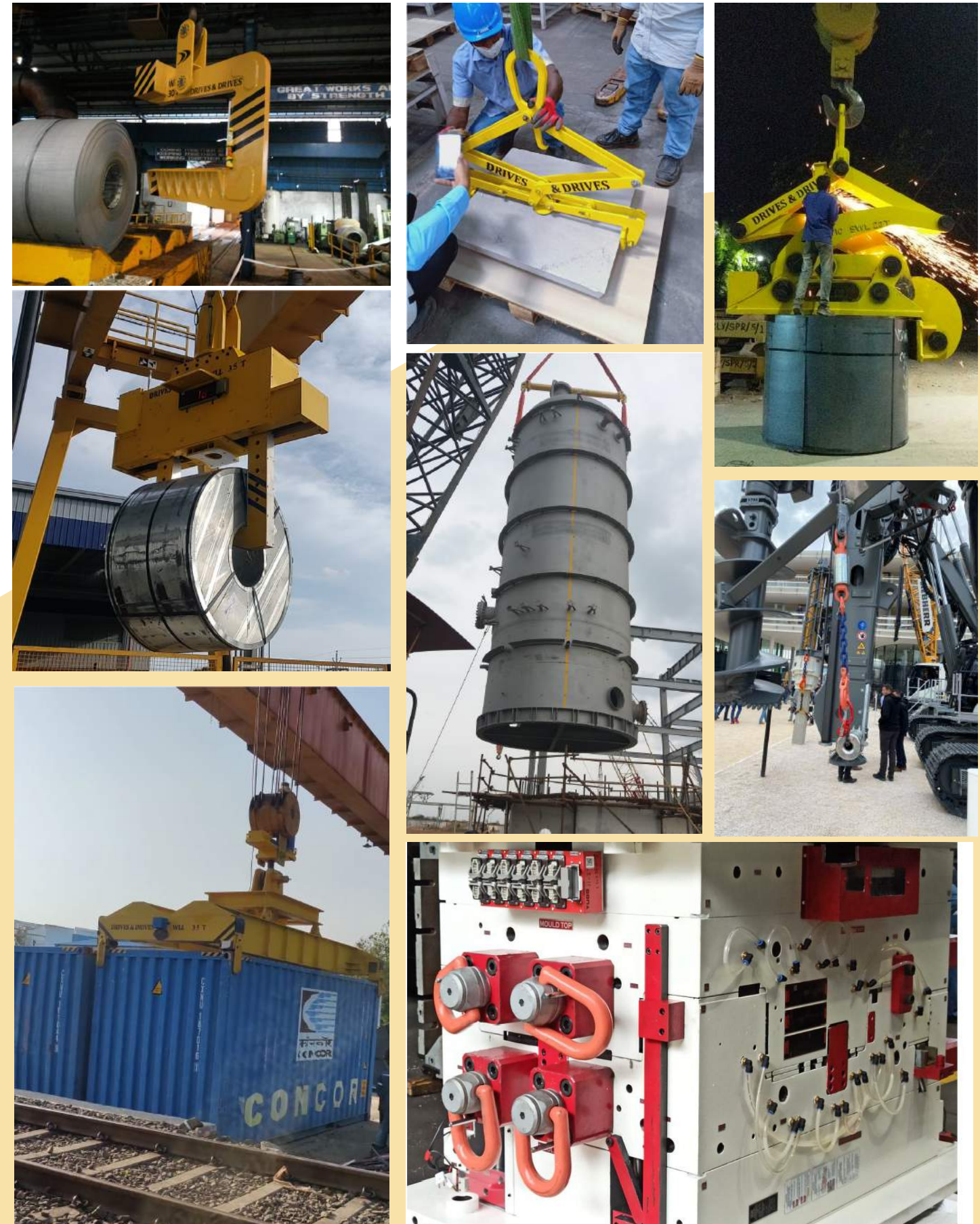
13. LIFTING POINTS

The lifting point is the point at which lifting gear connects with the load it is hoisting.

Cranes and other lifting devices use slings made of chains or wire rope that are fastened to lifting points. Ensuring that these are securely attached is a critical step in preventing injuries and property damage when using these devices.



LIFTING PHOTO GALLERY



MATERIAL HANDLING EQUIPMENTS

Material Handling Equipment (MHE) refers to the equipment used for lifting and moving materials within a facility or between different locations. MHE can be operated manually or powered by electricity, hydraulics, or other sources of energy both portable and stationery options.

MHE is designed to improve the efficiency of material handling operations by enabling the movement of heavy or bulky materials quickly and safely. They are commonly used in manufacturing, warehousing, logistics, and construction industries. MHE comes in a variety of sizes, capacity and types to accommodate different types of materials and the specific requirements of different applications.



EXPERTISE

- STANDARD PRODUCTS
- CUSTOM EQUIPMENTS
- AUTOMATION

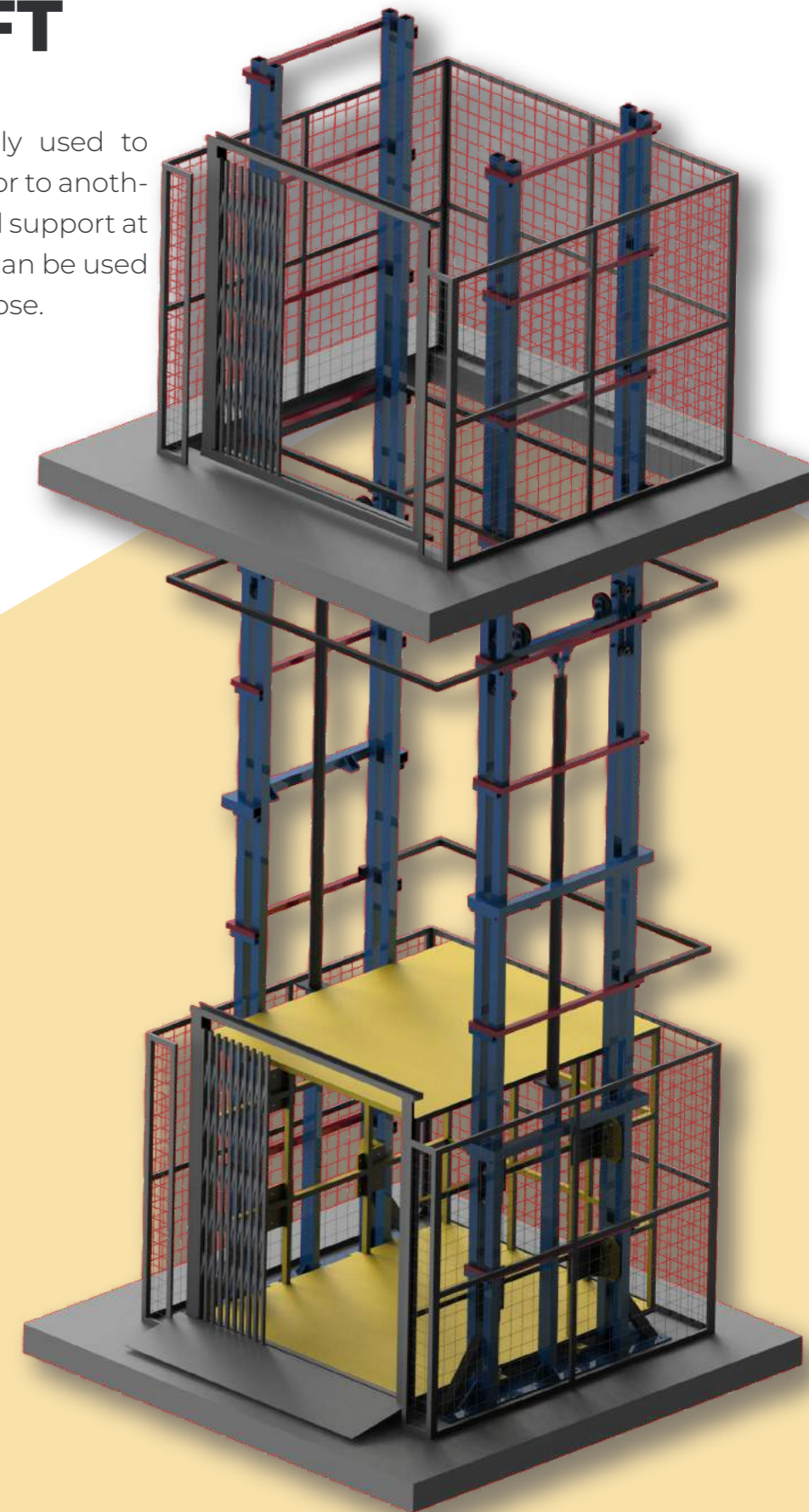
MATERIAL HANDLING EQUIPMENTS

INDUSTRIES

- *Construction*
- *Manufacturing*
- *Warehousing and logistics*
- *Transportation*
- *Oil and Gas*
- *Mininng*
- *and more...*

1. GOODS LIFT

Hydraulic goods lift is widely used to transfer material from one floor to another. It is to be installed with wall support at the one side and rest 3 sides can be used for loading & unloading purpose.



2. DOCK LEVELLER

Hydraulic dock leveller operates through hydraulic energy and is typically activated by a push-button. Equipped with hydraulic cylinders to automatically extend the lip and raise the platform, these levellers are the easiest to handle and most cost effective of all dock levellers. Moreover, these levellers are also popular owing to their strength and ability to withstand extremely heavyweight.



3. EDGE DOCK LEVELLER

Edge of dock levellers are typically placed at the very edge of the dock from or to which the freight is to be unloaded or loaded. These levellers are usually used when there are not many goods to be handled in the warehouse area. Edge of dock levellers may either be operated manually or using hydraulic power.



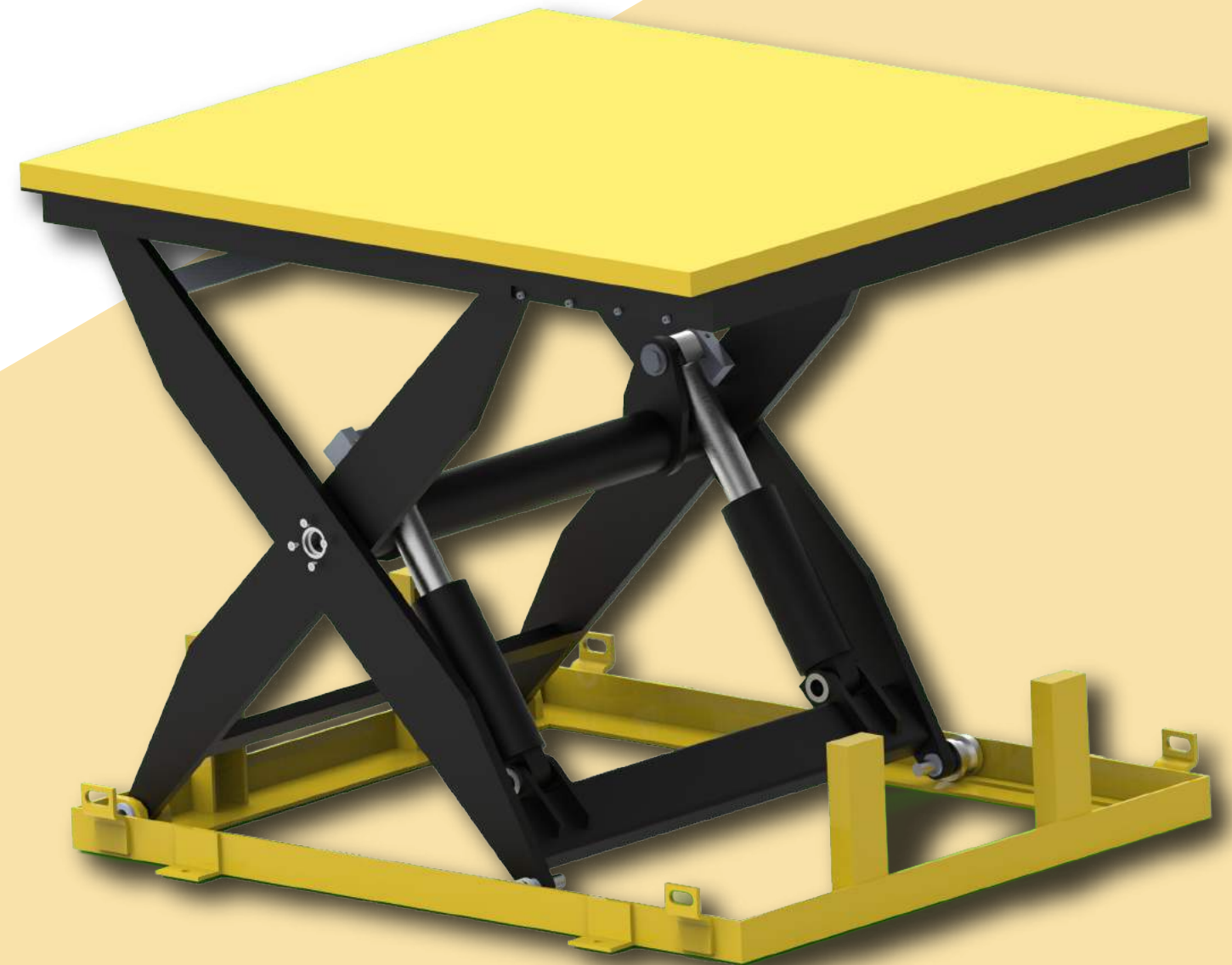
4. MAN LIFT

Man lift is a type of aerial work platform which is ideal for indoor or outdoor construction or maintenance task.



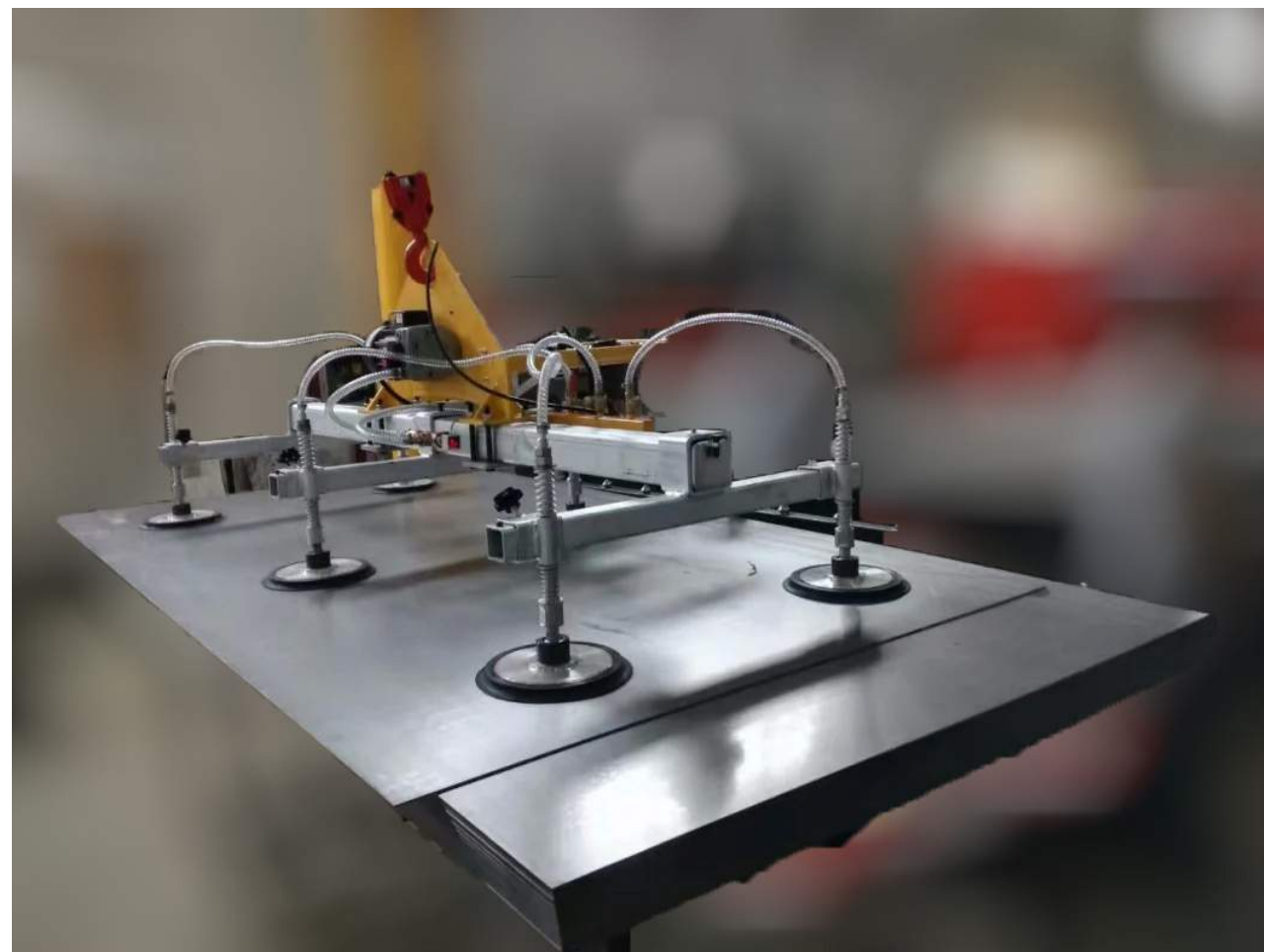
5. SCISSOR LIFT

Scissor Lifts are powered by either an electric motor or compressed air hydraulic scissor lifts can be utilised both inside and outside. Hydraulic liquid is either pushed or drained from cylinder to cylinder allowing the scissor lift to raise or lower as necessary. Hydraulic scissor lifts are recommended for operation in warehouses, on construction sites and infrastructure projects. Scissor Lift is manufactured in two types both portable as well as fixed type. We have manufactured Scissor Lift which can withstand a capacity of upto 2 Ton and can lift upto 12 mtr height.



6. VACCUM LIFTER

No matter if sheet metal, wood or glass -vacuum lifter provides a broad range of varied lifting units, either as traversing units or hose lifters with a pivoting range of up to 180° or units that operate independently of the power supply. A list of our product ranges can be viewed here. Please consult us concerning the development of a special solution if you do not find a standard unit to suit your requirements.



7. SELF LIFTING STACKER

Self-Lift Stacker is an innovation and unique choice for delivery of goods, with one product able to replace your Tail-lift, Hand Pallet Truck, Stacker, Ramp and Swing lift. It is easy and quick to transport, by loading itself into your Van, Pick-up, Lorry, or Trailer (with or without a load on the forks), so that there will be no unloading or reloading problems at your destination, which increases efficiency significantly and makes deliveries easier and faster.



8. TRUCK LOADING CONVEYOR

We manufacture truck loader conveyors for all applications such as boxes, cartons, bags, and other materials in warehouses, bottling factories, distilleries, and other locations where you must handle material quickly and efficiently. This conveyor is primarily used to decrease labour and save time. Easy movability, a slider bed design, and less maintenance are some of the benefits of this conveyor.



9. DRUM LIFTING STACKER

Drum lifter stackers easily help you to load drums or any liquid storage unit efficiently

- Lift, move and pour a heavy drum up to 60" high
- Built-in weighing scales options are available
- Multiple functions of Lifting, tilting, and weighing
- Handle multiple drums of plastic, fiber, steel, lifting up to 1100 Lbs
- Operating: manual lift & tilt/ AC power lift & tilt
- Durable stacker truck frame furnished with solid steel metals

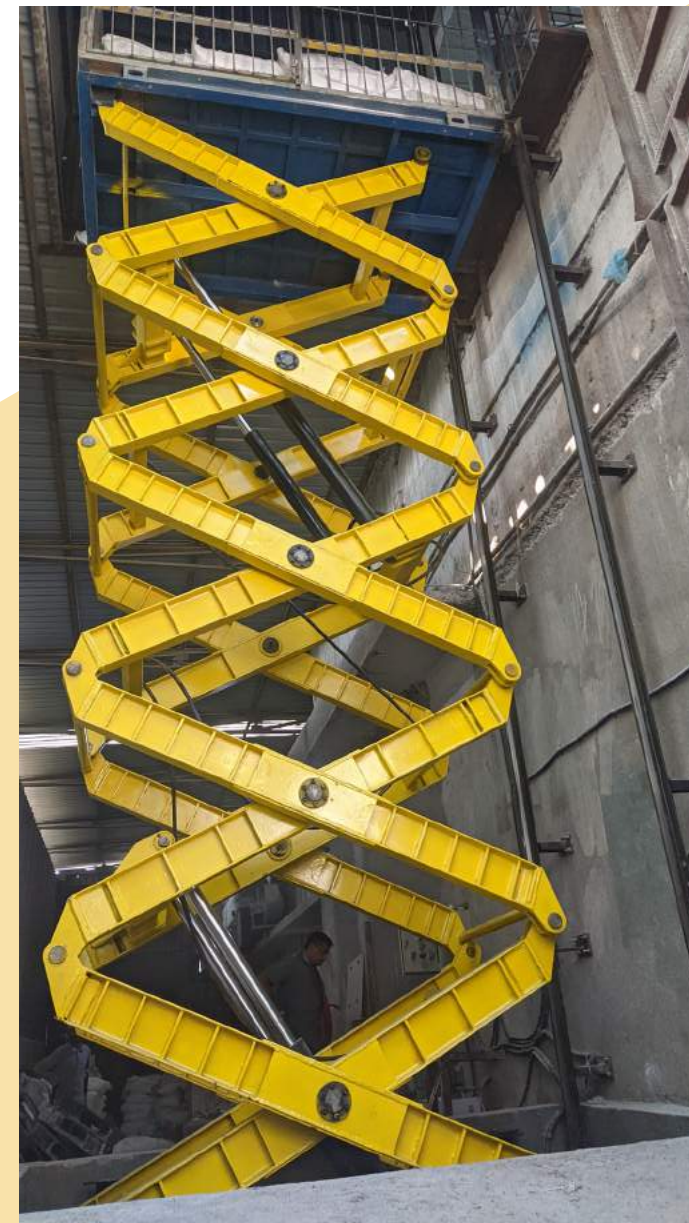


10. HAND PALLET TRUCK

A hand pallet is a manual material handling device that is used to lift and move palletized loads. It consists of a platform with two forks that can be inserted under a pallet, and a hydraulic pump mechanism that raises the forks and the load off the ground. Hand pallets are commonly used in industries such as warehousing, logistics, and retail to move goods within a facility or transport them to a different location. They are designed to be easy to use and maneuver, and can handle loads of varying weights and sizes. Hand pallets are operated by a person who walks behind the device and pushes it to the desired location. They are a cost-effective alternative to powered pallet jacks or forklifts for small or medium-sized operations. However, they have a lower weight capacity and require more physical effort to operate compared to powered equipment.



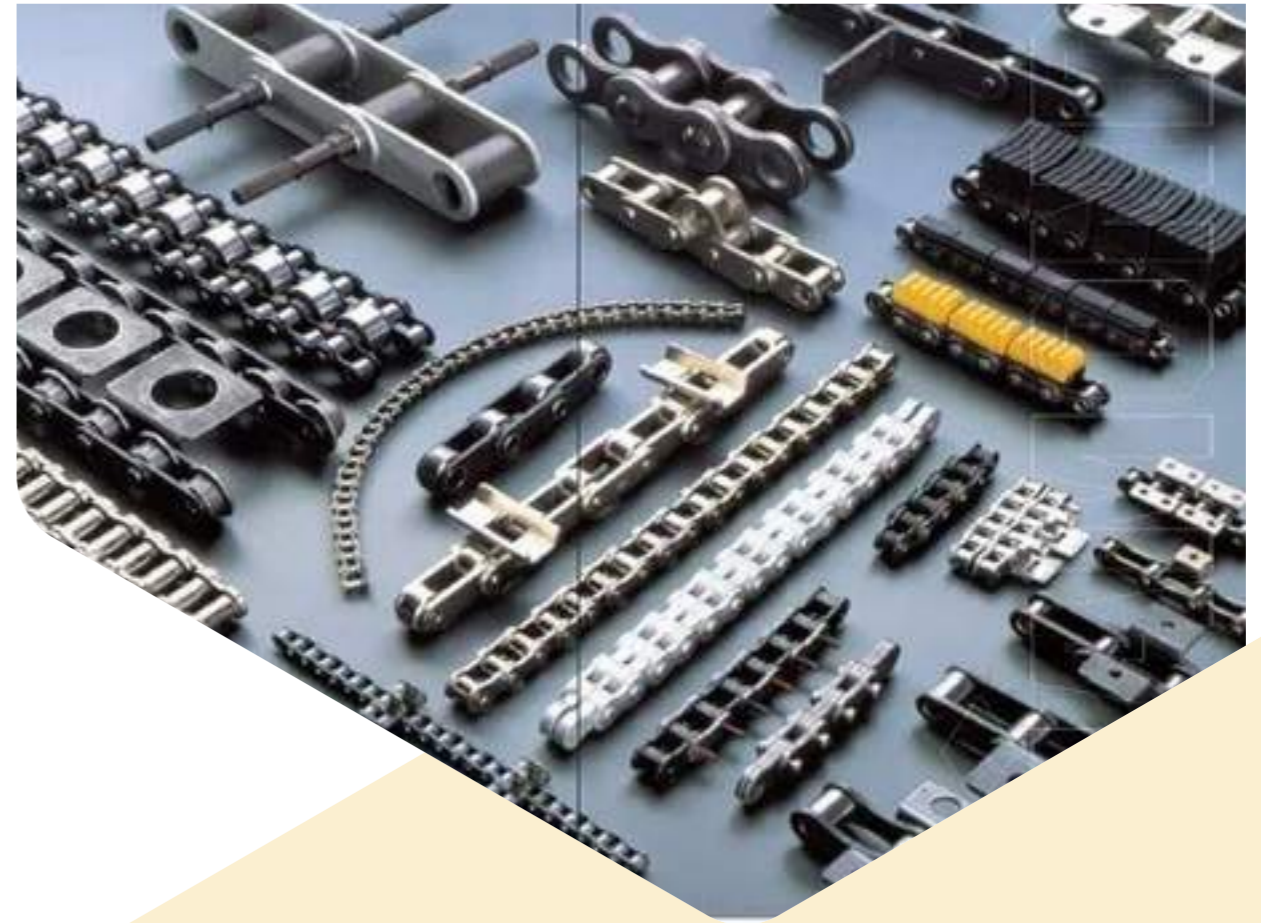
MHE PHOTO GALLERY



TRANSMISSION EQUIPMENTS

Mechanical transmission equipment refers to any type of machinery or equipment that is used to transmit power or motion from one component to another using mechanical means. This can include a variety of devices such as roller chains, sprockets, gears, belts, couplings, shafts, and bearings.

Mechanical transmission equipment is used in a wide range of applications across many industries where drive is required, including automotive, manufacturing, agriculture, and construction. They are essential for converting the power produced by an engine or motor into the movement or rotation of other components, such as wheels, gears, or other machinery.



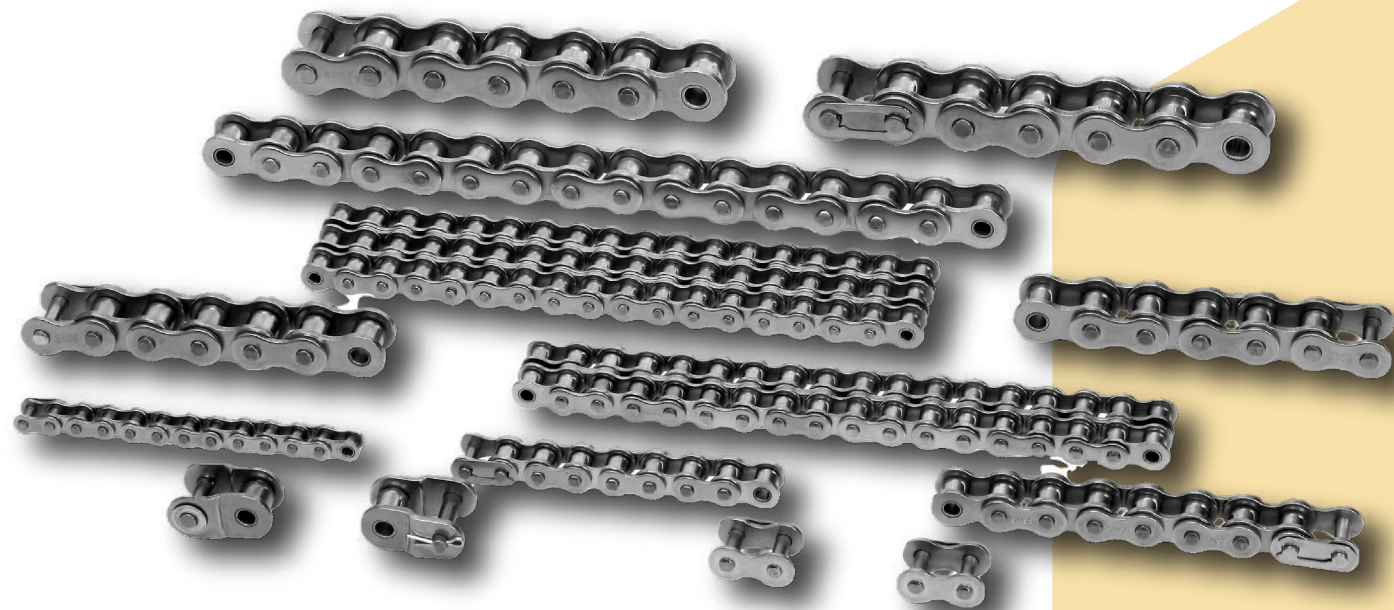
EXPERTISE

- STANDARD PRODUCTS
- CUSTOM EQUIPMENTS
- AUTOMATION

TRANSMISSION PRODUCTS

1. ROLLER CHAINS

Roller chains have the benefit of being a fairly straightforward and simple method of transmission of mechanical energy. Roller chains are constructed like a typical chain link structure; that is, a series of cylindrical rollers connected by links. A rotating sprocket which is connected to the motor moves the chain. The other end of the chain can then be connected to



2. SPROCKETS

A sprocket is referred to as a wheel which is found with teeth, cogs or even sprockets that are found having a mesh with the holes in the links of chain, track or other perforated material. A sprocket is considered to be different from a gear as the sprocket is found to never mesh directly with another sprocket. Sprockets are usually designed in order to be used along with a specific chain. Selecting the right sprocket is responsible for optimizing the sprocket or the chain interaction which ensures the proper performance of the drive and also decreases its maintenance at



3. CONVEYOR CHAINS

Conveyor chain is used for material conveyance under required conditions, in specialty applications, or when material can be allowed to fall through gaps in the conveying surface. Like a transmission chain, a conveyor chain consists of journal bearings that are joined by link plates. These bearings consist of a case-hardened pin and bush to allow a roller to revolve while permitting articulation under high pressure.



4. DRAG CONVEYOR CHAINS

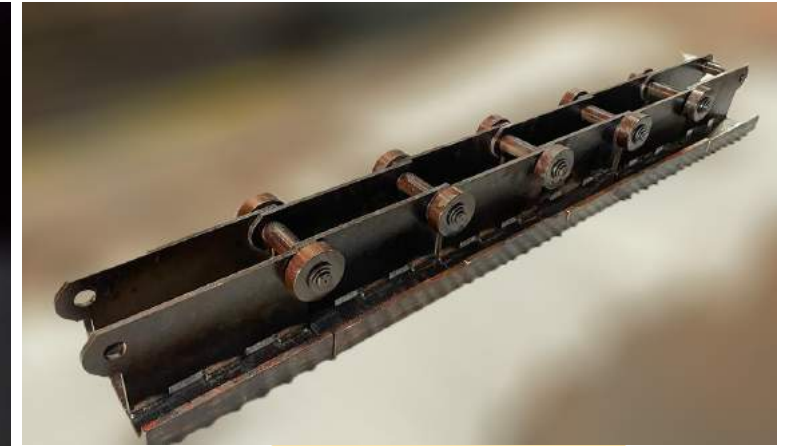
A drag conveyor chain is a type of conveyor chain that is used to move bulk materials horizontally or at an incline. It consists of a series of flights or paddles attached to a chain that runs along a trough or enclosed tube. The flights or paddles scrape along the bottom of the trough, dragging the material along with the chain. Drag conveyor chains are commonly used in industries such as agriculture, mining, and manufacturing to move materials such as grains, minerals, chemicals, and other bulk solids. They are built to be heavy-duty and durable, with the ability to handle abrasive and corrosive materials. Drag conveyor chains can be designed with various types of flights or paddles to suit specific material handling requirements, such as gentle handling or high-capacity conveying.



5. BUCKET ELEVATOR CHAINS

A bucket elevator chain is a type of conveyor chain that is used to lift and transport materials vertically, typically in bulk quantities. The chain is designed with buckets attached to it, which scoop up the material at the bottom of the elevator and carry it to the top where it is then discharged. Bucket elevator chains are commonly used in industries such as agriculture, mining, and manufacturing to move materials such as grains, minerals, chemicals, and other bulk solids. These chains are built to be strong and durable, with the ability to withstand heavy loads and high temperatures.

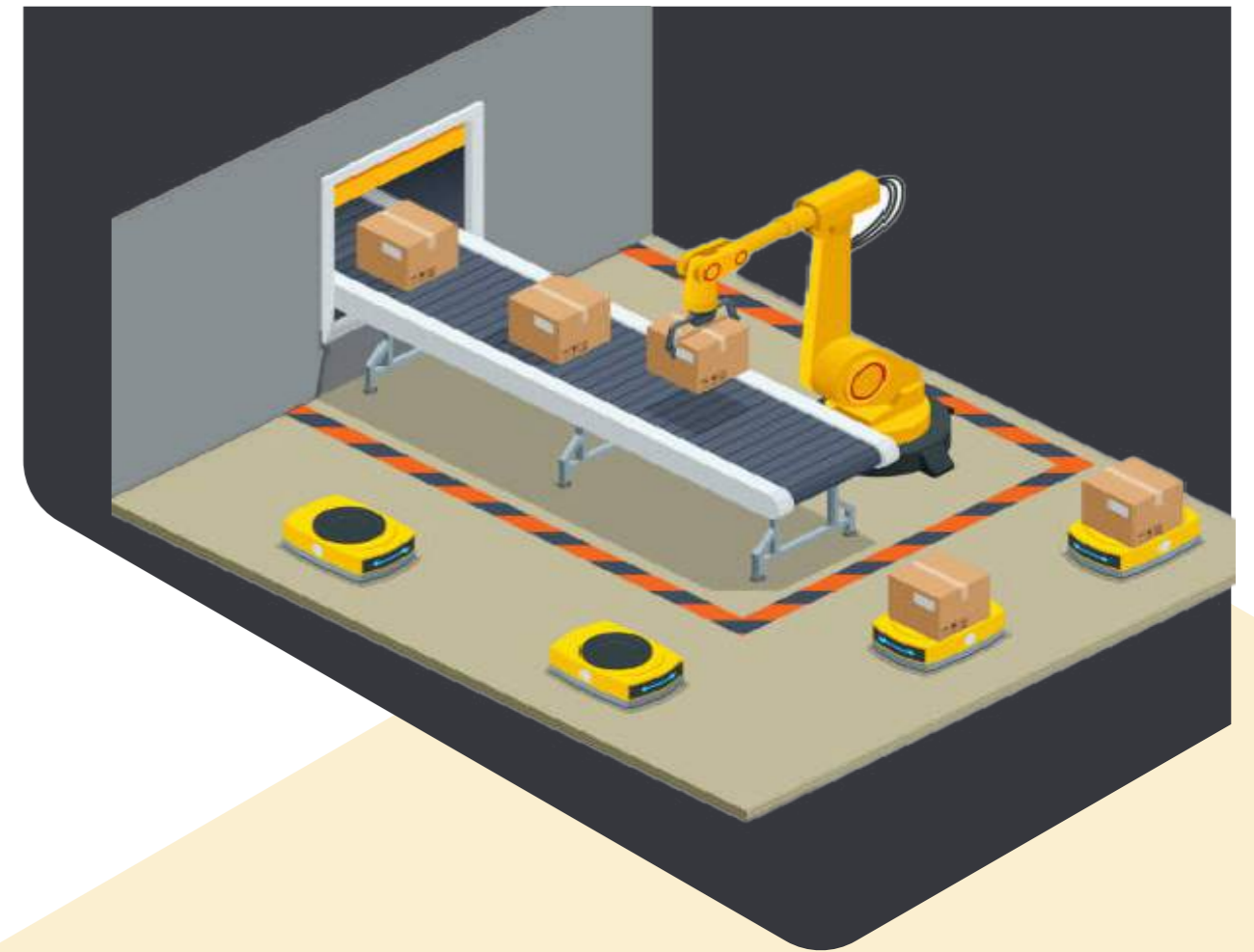
TRANSMISSION PHOTO GALLERY



AUTOMATION EQUIPMENTS

Mechanical automation equipment refers to machinery and equipment that is designed to perform a specific task or series of tasks automatically or with minimal human intervention. This can include a wide range of devices such as robots, automated assembly lines, conveyors, sorting machines, and packaging equipment.

Mechanical automation equipment is used in many industries to improve productivity, efficiency, and safety by automating repetitive or dangerous tasks that would otherwise require human labor. They can also be used to improve the quality and consistency of products and reduce the likelihood of errors or defects.



EXPERTISE

- STANDARD PRODUCTS
- CUSTOM EQUIPMENTS
- AUTOMATION

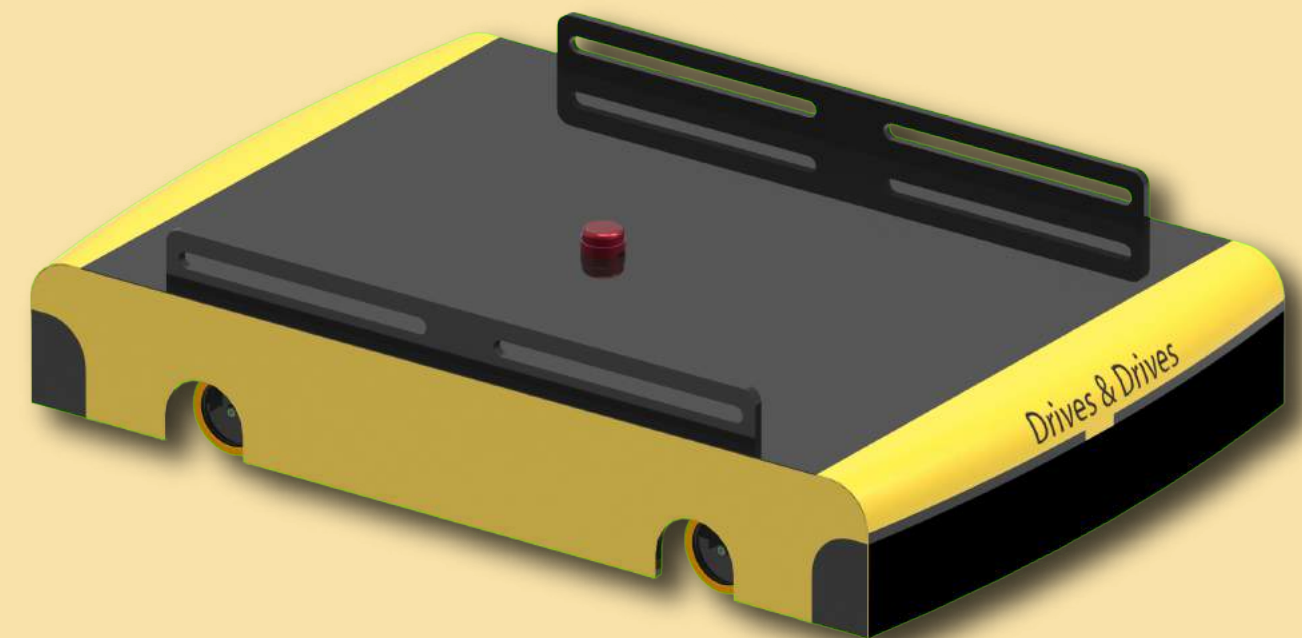
1. TRANSFER TROLLEY

A transfer trolley is a material handling device that is used to move heavy loads horizontally within a facility or between different locations. It typically consists of a platform or cart that is mounted on wheels or casters, and is powered by an electric motor or a manual push/pull mechanism. Transfer trolleys can be designed for a variety of applications, such as moving large machinery, transporting heavy materials, or positioning products in an assembly line. They are commonly used in industries such as manufacturing, warehousing, and logistics. Transfer trolleys can be customized with different types of attachments and features, such as lifting mechanisms, adjustable height platforms, or tilting capabilities, to suit specific material handling needs. They are often used in conjunction with overhead cranes, gantry cranes, or other lifting equipment to move loads between different areas of a facility.



2. AGV

Automated guided vehicles (AGVs) are material handling vehicles that are guided by automated systems to transport materials and products throughout a facility or warehouse. AGVs are equipped with sensors, cameras, and other technologies that allow them to navigate and interact with their environment, such as avoiding obstacles and following designated paths. They are typically used in manufacturing, logistics, and warehousing industries to move materials and products between different locations, such as assembly lines, storage areas, and loading docks. AGVs can be customized to handle a variety of loads, such as pallets, containers, or individual products, and can be programmed to perform specific tasks, such as picking up and delivering materials, or positioning products for assembly. AGVs can operate independently or be integrated with other automation systems, such as robots, conveyors, or warehouse management software, to streamline material handling processes and increase efficiency.



3. RADIOSHUTTLE

Radioshuttle is a semi-automated high-density storage system designed for handling and storing pallets in a warehouse. The system uses a remote-controlled shuttle that moves along rails within the racking structure, picking up and depositing pallets in the designated storage locations. The shuttle is controlled by a wireless remote or a computerized system, and is powered by a rechargeable battery. Radioshuttle is commonly used in industries such as logistics, manufacturing, and distribution, where high-density storage and efficient material handling are critical. The system allows for the storage of large quantities of palletized goods in a relatively small footprint, while reducing the need for forklifts and other material handling equipment. Radioshuttle can also improve inventory accuracy and productivity, as well as enhance safety by minimizing the risk of accidents caused by forklift operations.



AUTOMATION PHOTO GALLERY



OUR VALUED CUSTOMERS



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