

Solutions for
every handling challenge



ElectroMech

| Solutions | Service | Satisfaction |

Equipped to Excel

ElectroMech is the largest manufacturer of industrial cranes and related material handling equipment in India. We are recognised for unique solutions for the most challenging material handling requirements across a wide spectrum of industries. We are highly relied upon for our design capability, high manufacturing standards and service excellence. Since inception in 1979, ElectroMech has commissioned over 8000 cranes in more than 60 countries across the world, with an unmatched track record of repeat orders.





Solutions for every handling challenge

Overhead Cranes

- Jib Cranes
- Light Weight Cranes (HB-System)
- Wall Travelling Cranes
- Underslung Overhead Cranes
- Single Girder Overhead Cranes
- Double Girder Overhead Cranes
- Gantry/Goliath Cranes

Hoists

- Electric Chain Hoists
- Electric Wire Rope Hoists

Customised Solutions

- Shaft/Tunnel Mucking Systems
- Process Cranes
- Cranes for Nuclear Power Industry
- Stacker Cranes

Rubber Tyred Gantry Cranes

Cranes & Beyond

J.D. Neuhaus

- Pneumatic & Hydraulic Hoists and Cranes

Easy Mover

- Rollers
- Pushers
- Push-Pull & Manoeuvre

Hyster-Yale®

- Pallet Trucks
- Electric Stackers
- Reach Trucks
- Order Pickers
- Very Narrow Aisle Trucks
- Forklifts
- Tow Trucks



Equipped to Excel





Harnessing technology to ensure higher reliability

It is our endeavour to maximise value to our customers in terms of cost of ownership, high reliability, high safety and ultimately higher productivity. ElectroMech is proud to be at the forefront of technology with an evolving product range that provides our customers with the best possible solutions; be it advanced safety features or fully customised equipment.

Further to ensure that we meet the challenges of various industries, we have collaborated with several global leaders. Since 2005 we have an exclusive tie-up for India with **Abus Crane Systems, Germany**, offering overhead travelling cranes up to 125t, right down to compact chain hoists to lift 80kg, and a wide range of crane accessories and components.

We also have tied-up with **J.D. Neuhaus, Germany**, a world leader in Pneumatic and Hydraulic hoists. Through this tie-up we offer safe lifting solutions in India for use in general industries as well as in hazardous, explosion-prone areas.

ElectroMech has an agreement with **Hyster-Yale®, United States**, for sales and service of the Yale® brand of forklifts and lift trucks in India.

In association with **Easy Mover Rejmyre Maskin AB, Sweden** we offer the Easy Mover range of rollers, pushers and push-pull manoeuvre. Easy Mover is a simple machine ideal for moving heavy loads up to 100t single-handedly.

Far-reaching solutions

As a result of our pursuance of world-class technology, our equipment can be seen operating flawlessly at diverse locations. ElectroMech supplies a variety of cranes and hoists in capacities ranging from 80kg to more than 300t across different industry verticals such as automobile, steel, power, shipbuilding, heavy engineering, and manufacturing.

Our presence is evident in the infrastructure segment. We are proud that a lot of major infrastructure projects like roads, bridges, dams and power plants have been made operational by using equipment supplied by ElectroMech.

Versatility, safety, convenience and peace of mind are the standard features of every ElectroMech equipment. This is attested by several repeat orders received from major industrial groups in India, the Middle East, South East Asia and Africa.

Equipped to Excel

The infrastructure

ElectroMech's headquarters and main manufacturing plant is in Pirangut, near Pune, India. Spread over 95,000sq.m, with a covered area of 20,000sq.m, this factory is one of the single largest dedicated overhead crane manufacturing facilities in Asia.

Our manufacturing techniques are industry leading, from CNC plasma cutting machines for the crane girders to shot blasting and a dedicated paint booth for finished crane components. Our quality management systems have been certified by Bureau Veritas for the latest ISO 9001:2015 requirements.

Benchmark services

Our partnership with customers does not end with the commissioning and installation of equipment, but goes on to helping them with on-going care, repairs and modernisation of their hoisting solutions (irrespective of manufacturer). These services are offered through our subsidiary company - Cranedge, in the most cost effective manner. Cranedge is India's largest industrial crane services organisation with network spread across the country.

Beyond cranes - Sustainability

ElectroMech meticulously ensures that our manufacturing processes are in harmony with the surrounding ecosystem. This includes initiatives such as -

- Using energy-efficient machines, processes and devices
- Near-zero effluent discharge through STP
- Hazardous waste separation and proper disposal
- Rooftop Solar of 530kWp reducing grid dependency
- Using skylight roof-sheets and LED lights
- Nurturing over 1200+ trees in the company premises
- Rain water harvesting increasing ground water reserve
- In-house organic farming

Through our solutions for renewable wind energy and waste-to-energy sectors, we are also indirectly contributing to reduce carbon footprint.

Design Centre



Mfg. & Assembly



Loading & Despatch





ElectroMech

| Solutions | Service | Satisfaction |

Kitting & Stores



CNC Plasma Cutting



Internal Inspection



Shot Blasting



Painting



Erection & Commissioning



Aftersales Services



Hoists

ElectroMech supplies standalone Electric Chain Hoists and Electric Wire Rope Hoists for various handling requirements across industries. With a reputation for quality, reliability and affordability, ElectroMech hoists feature advanced engineering concepts with special emphasis on safety and versatility. This proven range encompasses several standard models of Abus hoists with options of load capacity, lift, hooking arrangements and headroom requirements.

Electric Chain Hoists

The new generation of Abus compact chain hoists feature a fresh new design and convincing technical solutions. The 3 phase, 400 volt hoists are available in four different sizes to reliably handle loads from 80kg to 4t. The motor and the gear units are of modular design, allowing to produce a wide variety of versions for lifting speeds up to 20m/min. and FEM groups up to 4m.



Electric Wire Rope Hoists

Abus Wire Rope Hoists are compact with low headroom dimensions and incorporate latest technical innovations. These hoists are produced using the most advanced technology available and continue to bear witness to the reliability, safety and durability year after year, from motor to rope, gearbox, brake and electronic systems. These units cover an extremely wide SWL range from 1000kg to 125t in both Monorail and Double Girder configuration.



Jib Cranes

Jib cranes can effortlessly assist and multiply human efforts, handling loads precisely up to 6300kg.

Jib Cranes are useful especially for loading or unloading of workpieces on machine tools. These are also useful for loading or unloading of trucks. They can become an inseparable part of a standalone workstation.

Column mounted Jib Cranes are necessary when no appropriate support is available near a workstation. Wall mounted Jib Cranes are ideal solutions for workstations located near walls or vertical structures. ElectroMech designs and manufactures such Jib Cranes to suit specific customer requirements.



Light Weight Cranes (HB-Systems)

HB-System is one of the most successful developments in lifting and material handling technology, combining the effectiveness of a stationary hoist with the mobility of an overhead crane, efficiently and cost-effectively.

HB-System is an outcome of our experience of several decades with hoists and overhead cranes, high-quality production facilities and determination to develop systems enabling industries to make their workplaces more and more productive and user-friendly.

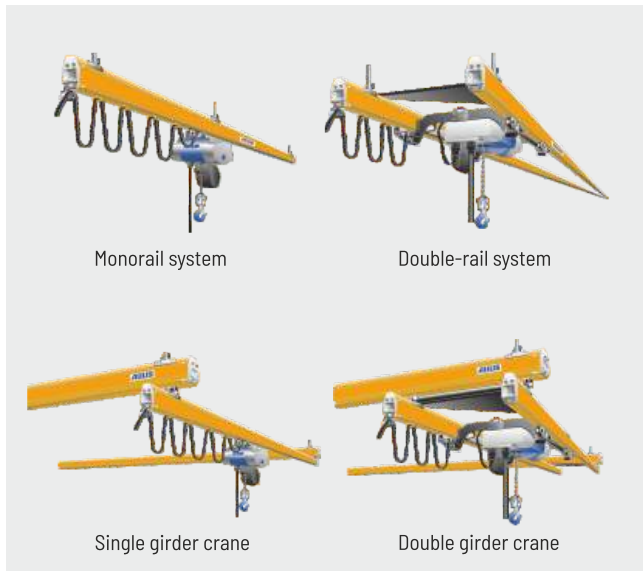
HB-System offers several useful features at a very low cost. It is indispensable to enhance work efficiency at workplaces like warehouses, workshops, assembly lines, tool rooms or factories. Today's HB-System is a great combination of advanced technology, economy, flexibility, quality and ergonomics which make it a favourite choice of several industries.

HB-Systems are readily available and can be quickly installed by suspending to almost any type of roofing/support structure.

HB-System offers tailor-made modular solutions. The components of the system are both modular and cost-effective and can be combined to build just the system which the application demands. All HB-Systems feature an extremely low-build design, ensuring that maximum hook height can be reached in the available space. Options of three types of profiles cover a load capacity range up to 2000kg. All electrical connections are made using an easy plug-in connector system. The system can be adapted and individually fitted to almost any type of roof structure from wood to steel.

HB-System is available in different versions such as Monorail, Double rail, Single Girder and Double Girder type to suit a variety of handling requirements. Even a combination of two or more types can integrate a particular work area and simplify handling.





Wall Travelling Cranes

The Abus Single Girder Wall Travelling Crane is designed to operate on a lower level beneath a large travelling crane system. These cranes provide additional handling possibilities and ensure smooth and trouble-free material handling between different working areas.

A wall travelling crane installed at right angles across the hall can serve several workstations. Abus Single Girder Wall Travelling Cranes are available for a maximum load capacity up to 5000kg and for a maximum outreach of 10m depending upon the load capacity.





Underslung Overhead Cranes

ElectroMech manufactures Single Girder as well as Double Girder Cranes in the Underslung version as well. Such cranes find applications where the headrooms available are limited or the process requirements cannot allow any other means of supporting the crane other than from the roof.

Majority of the Underslung Overhead Cranes are in the capacity range from 250kg to 10t. However, higher capacity Underslung Cranes can also be manufactured as per the client requirements.

Hoisting is done using the standard Abus Electric Chain Hoist /Wire Rope Hoist.

Precise control of the up/down motion and/or travel motion can be achieved by fitting Variable Frequency Drives in the panels (optional).

Control can be either through a Pendant Push Button station or a Radio Remote Control(optional).



Single Girder Overhead Cranes



ElectroMech manufactures Single Girder Overhead Cranes in SWLs ranging from 250kg to 20t in different configurations.

- Beam/Box type main girders (dependent on spans)
- These cranes can be offered either with an Electrically Operated Trolley (EOT) or a Hand Operated Trolley (HOT) depending on the client requirement.

A standard range of Abus Electric Wire Rope Hoists is used on these cranes. Alternatively, we can also supply these cranes with Abus Electric Chain Hoists.





Precise control of the up/down motion and/or travel motion can be achieved by fitting Variable Frequency Drives in the panels (optional).

Control can be either through a Pendant Push Button station or a Radio Remote Control (optional).

Additionally, we can also supply Single Girder Cranes in a 'torsion box' type arrangement, featuring a cantilever-mounted Abus hoist.



Double Girder Overhead Cranes



ElectroMech manufactures Double Girder Overhead Cranes in SWLs ranging from 1000kg to more than 300t.

These cranes can incorporate either standard Abus crabs (upto a SWL of 125t) or fully customised open winch type crabs.

ElectroMech can supply fully customised Double Girder Cranes as per customer requirements for different duty cycles and for diverse range of applications.

Double Girder Cranes can be provided for very large range of spans, large range of heights of lift as well as a large range of speeds.

Double Girder Cranes can have only a main hoist or a combination of a main hoist as well as auxiliary hoists (useful especially for load tilting).





Double Girder Cranes can also be provided with multiple hoisting trolleys running on the same bridge.

Precise control of the up/down motion and/or travel motion can be achieved by fitting Variable Frequency Drives in the panels (optional).

Control can be either through a Pendant Push Button station or a Radio Remote Control (optional) or through a Control Cabin (optional).

We can also offer Double Girder Overhead Cranes for the steel industry which are capable of withstanding extreme requirements of operating speeds and operating conditions.



Gantry / Goliath Cranes

Gantry/Goliath Cranes are versatile cranes and are used mainly for activities in steel stock yards, precast segment yards and other outdoor applications. These are self-propelled cranes running on rails installed at the ground level and do not require any supporting structures.

These cranes can be supplied in Single Girder or Double Girder options depending on requirements of SWL, speeds, heights of lift and other characteristics.

Hoisting for these cranes is through the Abus standard electric wire rope hoist for a Single Girder configuration. For Double Girder Gantry Cranes, the hoisting can either incorporate standard Abus crabs (up to a SWL of 125t) or fully customised open winch type crabs for higher SWL.

Power supply to these cranes is traditionally provided through a Cable Reeling Drum. These cranes can also be fitted with on-board generators depending on the site conditions.

Precise control of the up/down motion and/or travel motion can be achieved by fitting Variable Frequency Drives in the panels (optional).

Control can be either through a Pendant Push Button station or a Radio Remote Control (optional) or through a Control Cabin (optional).





We also provide different versions of these cranes to suit your requirement. For example -

- In workshops where part utilisation of the shop bay is required, a Semi-Gantry Crane can be provided
- Cranes with overhangs on one/both sides
- An auxiliary hoisting mechanism can also be fitted on the main hoisting trolley
- Multiple hoisting trolleys running on the same bridge



Rubber Tyred Gantry Cranes

After attaining leadership position in the crane segment in India and establishing presence across 60 countries, ElectroMech has introduced RTG - Rubber Tyred Gantry crane. The new RTG is a custom designed solution for your material handling requirements to move load in all the directions. RTG will benefit industries by addressing several material handling challenges, and will provide the much required flexibility, safety and ease of operation.

RTG is designed to operate on gradients and on various types of surfaces. It is self-propelled equipment and driven by electric motors using VFD, has a rigid structure designed to take dynamic forces and can easily be disassembled and transported. These features make it the perfect choice for industrial, infrastructure, wind energy and other sectors to competently address various load handling challenges.





Shaft / Tunnel Mucking Systems

ElectroMech has developed a unique and cost-effective bulk material handling system for extraction and disposal of overburden generated during construction of tunnels. These systems can very efficiently remove overburden generated during construction of deep shafts which access tunnels, as well as the overburden generated during the tunnelling operation itself.

The typical heights of lift for such systems are in the range of 50m to 300m. The typical hoisting speeds are in the range of 10m/min to 30m/min.

Several such systems designed and manufactured by ElectroMech are being used by major construction companies and are operational at various construction sites across the country.



Process Cranes

We are providing unique, customised crane solutions to a range of process industries such as steel, paper, fertiliser, waste-to-energy and others.

For the paper industry, we have solutions for wet end, dry end, slitting lines and the storage area. A number of crane solutions are working in the steel sector for a range of applications such as ladle handling, slab handling, iron ore and scrap handling, coil and sheet handling, rebar handling, pattern/mould handling & tilting, pouring, etc. Our grabbing cranes are being widely used by the fertiliser, chemical and food processing sectors. For the waste-to-energy application, we have developed specialised solutions to handle waste from storage bunker to boiler hopper for charging process.

Our solutions for the process industry are well-known for their reliability, safety and efficient services.





Cranes for Nuclear Power Industry

Accurate solutions for ensuring highest level of safety and optimising space while achieving economy.

The radioactive environment in nuclear plants and the hazardous nature of materials being handled requires solutions that are advanced and specially designed to be extremely safe. ElectroMech has earned experience and expertise in this field through its solutions like **Single Failure Proof (SFP)** cranes. Different variations of this crane are customised to suit requirements at various operational points. For example, in a main reactor building, the SFP crane is installed at the top of the reactor building dome. The SFP crane has redundant systems built into it, so that if one system fails, the backup system ensures that the work cycle is completed. The crane is designed to ensure structural integrity during an earthquake and to allow safe shut down of equipment. These cranes are manufactured using special grades of steel and components of the highest quality. Every crane is rigorously tested in our factory before despatch and installation.



Stacker Cranes

Indigenously designed and manufactured by ElectroMech

- First conceptualised & introduced by ElectroMech in 1993
- Second iteration of the original design with slew bearing for smooth operation
- Combination of an EOT crane and forklift
- Optimises warehouse space by providing a highly effective, quick and safe solution for storing and retrieving material from vertical racking systems
- Allows for narrower aisles as compared to the space required by a forklift to manoeuvre
- Racks provide the support, no additional structure required
- Electrically operated, no diesel fumes or batteries to be recharged
- No danger of tipping over
- Many global references





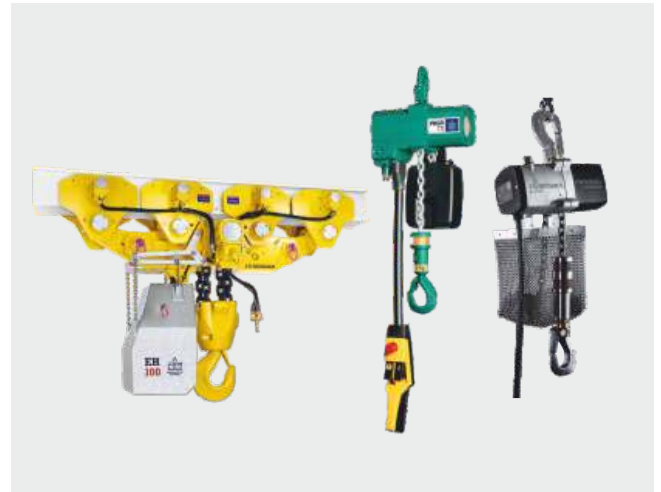
Pneumatic & Hydraulic Hoists and Cranes

ElectroMech brings to you pneumatic and hydraulic hoists in association with J D Neuhaus, Germany which has a track record of innovation of over 270 years.

The light weight, low headroom pneumatic hoists are designed for frequent switching and extended duty cycles. They are also insensitive to dust, humidity and wide range of temperatures. Ease of operation, maintenance friendliness and infrequent lubrication requirements are some of the key benefits which make pneumatic hoists suitable for an array of applications.

Hydraulic hoists provide smooth, jerk-free movement, precise control and are suitable for use in hazardous areas.

Pneumatic and hydraulic hoists are a preferred in a range of industries such as petroleum refineries and off-shore platforms, chemicals, food, shipbuilding, paints, pharmaceuticals, shipbuilding, mining, etc.



*India's first exclusive company for ensuring 24x7 fitness
of industrial overhead cranes and other material handling systems of all makes*

Cranedge service offerings

- Spares Sales
- Repairs, Services and Overhauling
- Annual Maintenance Contracts
- Crane Health Checks
- Modifications and Retrofits
- Relocation of Cranes
- Crane Safety Certification

Cranedge for you

At Cranedge, we pursue the concept of offering 'Service at your doorstep' for reaching 'Zero Downtime' and building 'Lifetime Relationships'.

Cranedge is a dedicated service organisation exclusively for providing post-sales services to overhead crane and other material handling systems users. As a specialist service provider, we are equipped and backed by resources which are essential prerequisites for us to excel in service and ensure a high level of customer satisfaction.



Our experienced and competent team is strategically located across the nation, supported by a strong logistics and inventory management system with quick access to spares of almost all makes of cranes. We have a knowledge bank of all variety of cranes and applications, and a host of products to optimise crane efficiency.

The Cranedge team is well trained on various aspects to ensure a very high up time of your cranes and ensure safe operations. This training includes crane architecture of various brands, systematic methods for quick diagnosis of problems and quicker methods to solve them, domain knowledge, safety procedures to be followed while working in your plant, precautions to ensure safe working of cranes, etc.

Once you engage Cranedge, your material handling systems are in safe hands.

For more details

Visit : www.cranedge.com

E-mail : enquiry@cranedge.com

Call : **Toll-free 1800 209 0010**



A World of Satisfaction

ElectroMech has earned a noteworthy reputation of being a most reliable name in the field of material handling systems through its products and prompt, efficient service. Our customers have been experiencing a world of delight and satisfaction all across the world.

The sturdy ElectroMech cranes are operating year-after-year in extreme climatic conditions, irrespective of whether it is the sweltering heat of the deserts in the Middle East, or the biting chill of the mighty Himalayas.

Our experience with cranes, which ranges right from small workshops to gigantic shipyards, expands our expertise. We are inspired to sharpen it further to help us design advanced cranes for more critical applications.

Our happy customers all over are a source of immense satisfaction for team ElectroMech.



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Manufacturing Facilities & Offices



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