

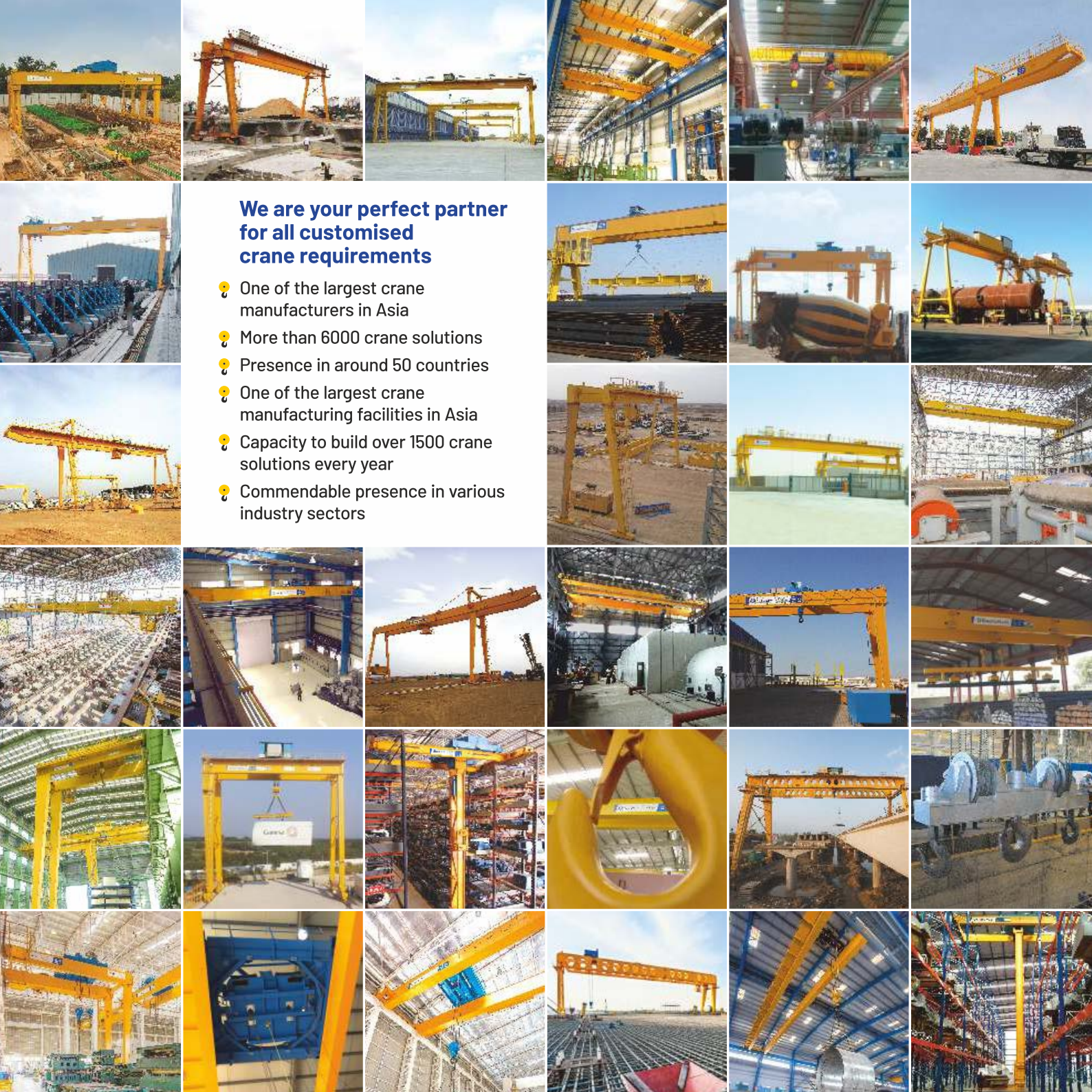
Where there is a
PROBLEM

There is a
SOLUTION™



ElectroMech

| Solutions | Service | Satisfaction |



We are your perfect partner for all customised crane requirements

- One of the largest crane manufacturers in Asia
- More than 6000 crane solutions
- Presence in around 50 countries
- One of the largest crane manufacturing facilities in Asia
- Capacity to build over 1500 crane solutions every year
- Commendable presence in various industry sectors



Where there is a
P?BLEM
There is a
SOL?TION™





Dear Readers,

Our progress in the last 35 years attributes to a significant fact that customers have always trusted our commitment and provided opportunities to explore new solutions.

When a new project poses material handling challenges, our customers involve us at the project planning stage itself. We respond to such challenges with exemplary solutions, creating new landmarks every time.

All such challenges, routinely faced by us, are enhancing our solutions capability and are making us more competent every day. These innovative solutions help our customers to manage their business operations most efficiently and provide them an edge over competition.

While casting a global footprint and marching towards leadership in crane solutions, we have earned the trust of 6000 happy customers, developed a team of more than 500 crane specialists and set benchmarks in the industrial overhead crane industry. We would be glad to partner with you for developing unique crane solutions for every challenging project.

Tushar Mehendale
Managing Director



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SOLUTIONS ENGINEERING CAPABILITY

Unique thinking, ingenious approach and precise engineering result in outstanding customised crane solutions.

ElectroMech is proud to be at the forefront of adopting newest technologies for our range of crane solutions while evolving continuously to provide optimal solutions for our customers; be it in advanced safety features or customised solutions. It is our endeavour to maximize value in terms of cost of ownership, reliability, safety and increased productivity.

As a result of our pursuance of world-class technology, our equipment can be seen operating flawlessly at diverse locations. ElectroMech solutions are prominently present across different industry verticals like automotive, steel, power, shipbuilding, oil & gas, heavy engineering and manufacturing. We are also an integral part of infra-structure projects like roads, bridges, metro rails, dams and power projects which are operating using our customised crane solutions. Versatility, safety, user-friendliness and peace of mind are the standard features of every ElectroMech solution - a fact attested by repeat orders from various industrial groups across the globe.





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Customised crane solutions for

AUTOMOTIVE SECTOR

Optimal solutions for plant integration ensuring higher productivity and safety.

For the automotive industry, ElectroMech has multi-tier-multi-crane solutions that ensure crane availability at every desired location within the plant. We can practically integrate material handling across operations in the automotive plants.

The precision and ability of ElectroMech cranes to position heavy dies and moulds onto presses have been appreciated by this sector. Our solutions are an integral part of several press shops, moulding shops and tool rooms. Advanced features like anti-sway devices and load limiters assure of a high level of safety.

ElectroMech crane solutions are preferred by global automotive giants for their reliability and safety.





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Featured here

1. Double girder crane in a press shop
2. Customised transfer trolley for heavy die handling
3. Double girder crane used for die-tilting application
4. Double girder cranes in multi-tier arrangement





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Customised crane solutions for

BRIDGES & METRO RAILS

Ideal solutions that fit perfectly even in congested sites, displaying greater flexibility and adaptability.

ElectroMech crane solutions have been developed with over three decades of experience of providing perfect answers to challenging requirements in bridge construction and metro rail elevations. We ensure extreme flexibility, safety and reliability while executing such projects.

ElectroMech specialises in solutions that are compact and flexible. By incorporating features that allow reconfiguration of cranes for different spans and heights of lift, these cranes can be re-utilised at different project sites. This approach allows construction companies to maximize asset utilisation and streamline project costs.





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1. 150t gantry crane for launching girder
2. Gantry crane working on a bridge project in high wind area
- 3, 4. Gantry cranes used in casting yard of a metro rail project





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Customised crane solutions for

ELECTRICAL INDUSTRY

Perfect solutions for jerk-free handling and precision positioning of heavy loads.

ElectroMech offers solutions for all material handling requirements for plants involved in manufacturing transformers, switchgears, turbines, generators, electrical motors and control panels for the electrical industry.

Our double girder crane solutions are capable of lifting heavy loads and offer large height of lift, precision positioning and jerk-free movement which is most essential while handling oil-filled transformers, high precision turbines and electrical motors.

Our solutions can practically integrate the entire handling operations in any plant right from the raw material unloading to the despatch bay and allow greater flexibility in operations where handling requirements change as per production needs. Several advanced features like anti-sway device, inverter control, built-in air-conditioned operator cabins are preferred in typical electrical industry manufacturing environment.





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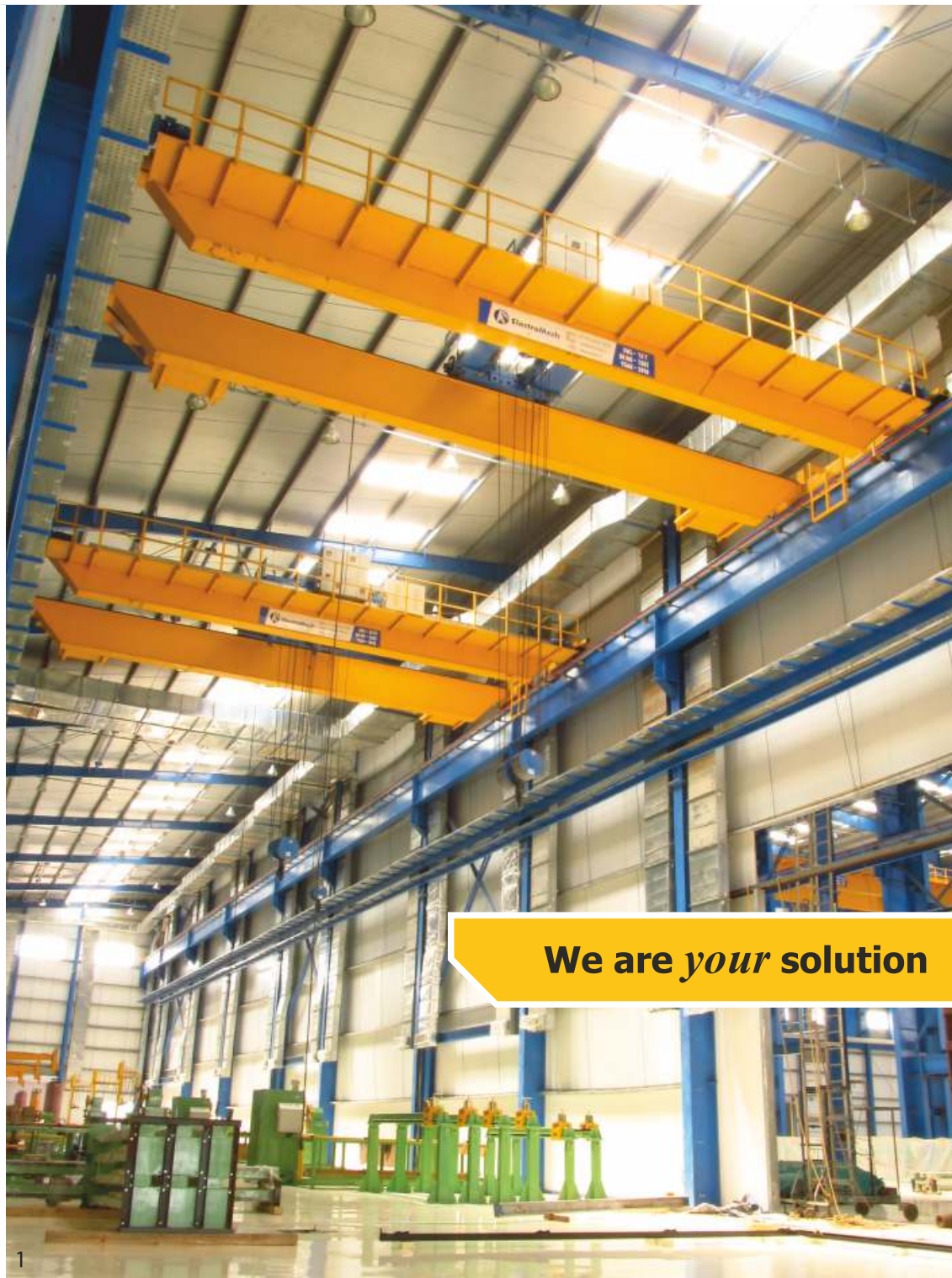
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Featured here

1. Double girder cranes in heavy transformer manufacturing plant
2. Specially designed hook block to lift 300t oil-filled transformers
- 3, 4. Double girder cranes in transformer coil plant



2



1

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Customised crane solutions for

HEAVY ENGINEERING INDUSTRY

Innovative solutions for reducing costs of new factories while integrating outdoor and indoor material handling.

Manufacturing complex precision systems of unusual sizes like large boilers, turbines and propellers requires handling heavy loads with safety and precision.

In case of an existing factory, if the load-bearing capacity of the shed doesn't allow safe working load enhancement of the existing crane, ElectroMech can offer customised gantry crane solutions with extra safety features, ease of control and compact design. This allows availability of maximum shop-floor area for the manufacturing activity.

In case of a new factory, involving ElectroMech right from the project planning stage can help you optimise structure costs and ensure higher space utilisation. For manufacturing in an open yard features like track switch junction for perpendicular crane paths, adjustable span and height of lift, shrouded bus bars for power supply can provide greater flexibility in dynamic manufacturing scenario.





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1. 150t indoor gantry crane installed in existing factory
2. Low headroom heavy duty cranes in multi-tier arrangement in a boiler facility
3. Gantry cranes in a heavy fabrication yard



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Customised crane solutions for

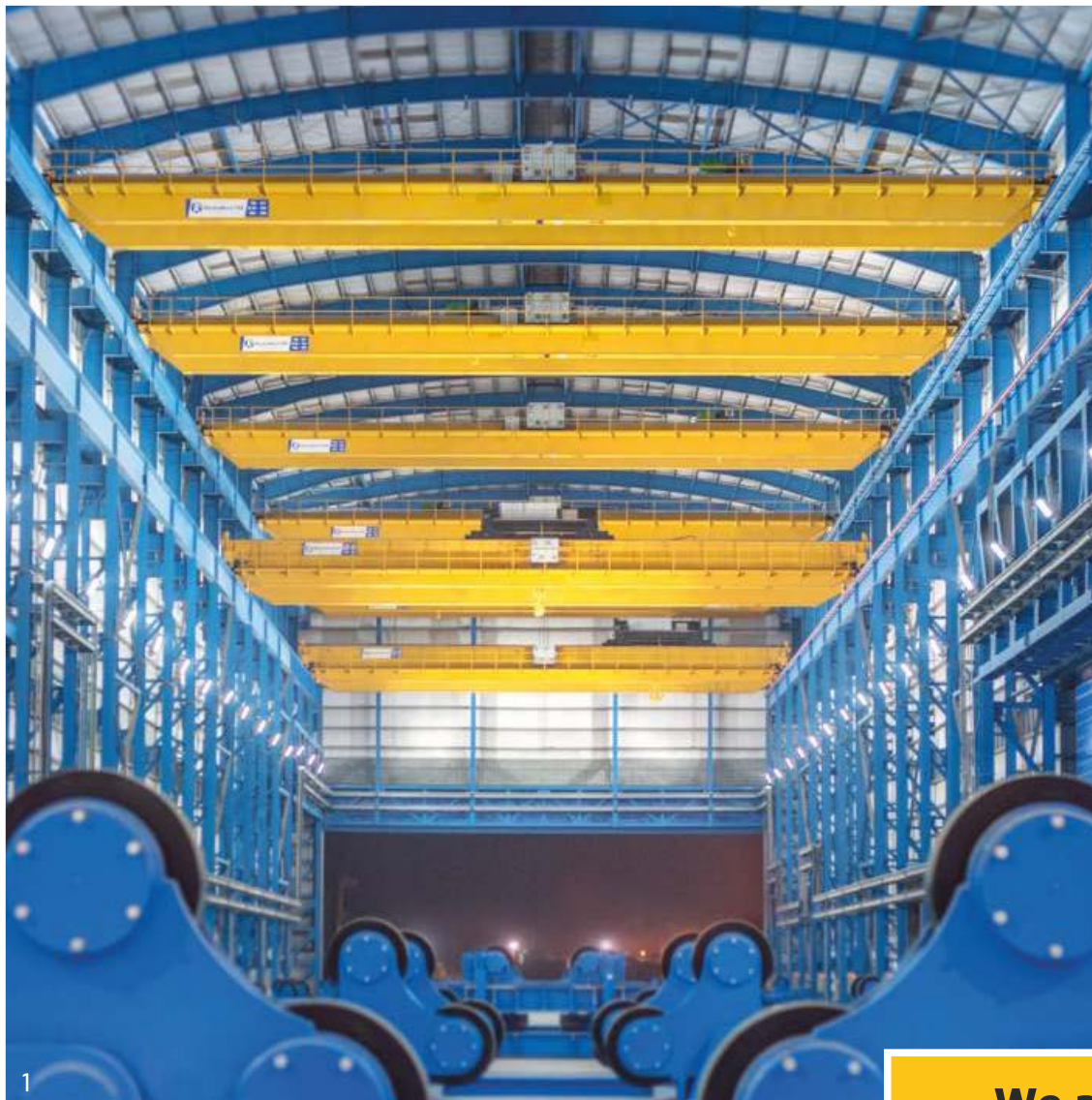
MANUFACTURING INDUSTRY

Engineered solutions for optimising plant structure to reduce project cost.

Engaging ElectroMech during planning and design stages of a new manufacturing plant has benefitted our customers across the globe. When ElectroMech solutions experts carry a detailed study and analysis of material handling needs in a proposed plant, it can reduce the overall project costs considerably.

Our technical experts can help you optimise your requirements, avoid over-engineered structural work and save significant costs. Simple solutions, like selecting cranes that need minimum headroom, reduce the overall factory height. Cranes requiring small end clearances and lower approaches ensure higher floor space utilisation. By understanding the exact end use, our solutions experts can recommend the correct duty classifications and operating speeds, thus optimising the overall power consumption of the crane.





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Featured here

1. Multiple double girder cranes ensuring higher crane availability
2. Single girder crane for general purpose handling
3. Double girder crane being used for handling long poles
4. Double girder crane used in a manufacturing plant
5. Gantry cranes with intersecting paths



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Customised crane solutions for

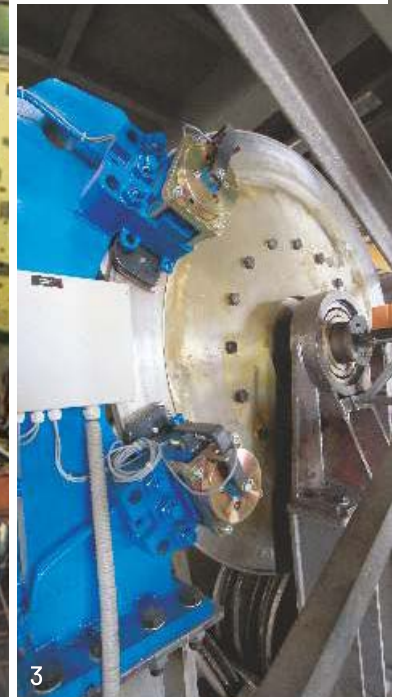
NUCLEAR POWER PLANTS

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

The radioactive environment in nuclear plants and the hazardous nature of materials being handled require 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 and are rigorously tested in our factory before despatch and installation.





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1. 60t SFP crane installed at 700MWe nuclear power plant
2. Winding wire rope on the rope drum
3. Specially designed calliper brake
4. Lower block of SFP crane with triple hook arrangement
5. Crane undergoing full load testing at ElectroMech facility




Customised crane solutions for

OIL & GAS SECTOR

Exceptional solutions for highest safety.

In the Oil & Gas industry, occurrence of explosive atmosphere mandates reliability and safety. The industry demands material handling systems that are not only well engineered to prevent sparking but can withstand extreme temperatures, pressure and corrosion over a long period of time. As the cranes need to operate in a highly inflammable environment such as in petroleum plants, offshore oil rigs, refineries, paint factories, chemical plants and explosives factories, the primary requirement is their ability to operate safely without being a source for any hazard. This demands use of specialised technology and specialised materials with high levels of protection for electrical equipment.

ElectroMech, in partnership with STAHL CraneSystems, can offer its expert solutions for such applications through a range of Explosion-protected  hoists and cranes which are capable of operating in the desired Zones (Zone 1, Zone 2, Zone 22), gas groups (II, IIA, IIB, IIC) and Temperatures (T1, T2, T3, T4). These solutions are developed using various models of hoists and crabs to build variety of cranes such as industrial overhead cranes, gantry cranes and jib cranes based on the operational requirement.





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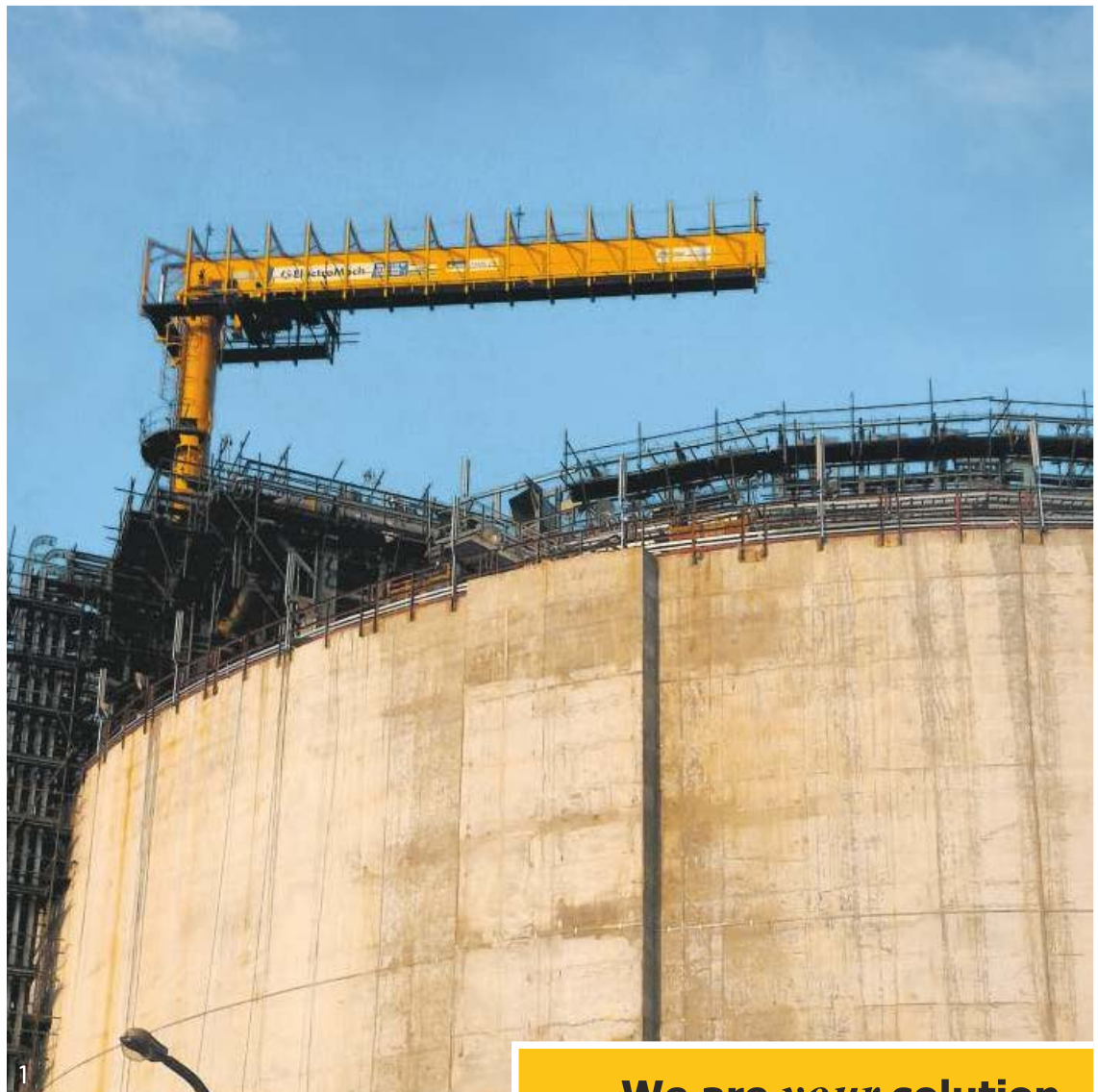
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

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1. Custom built jib crane on Ethylene Cryogenic Tank
2. 90t , Zone 2 crane, installed at a Refinery Off Gas Cracker plant
3. Hoisting Motor for  nA, Zone 2, on a 10t crane
4. 80t bronze coated hook for , Zone 2 cranes, supplied for a Paraxylene plant
5. 50t , Zone 2 cranes, supplied to a Low Density Polyethylene plant



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Customised crane solutions for

PRECAST MANUFACTURING

Ideal solutions to enhance productivity, ensure safety and withstand extreme weather.

By leveraging our rich experience in dealing with precast manufacturers across the globe, ElectroMech has developed and delivered competent and customised solutions for the precast industry in the shortest possible time.

ElectroMech can integrate solutions for precast yards including handling steel bars, moulds and precast sections during manufacturing, and for loading precast segments onto trucks. Our solutions are built for continuous performance and to withstand harsh environments like heavy winds, rain and snow. Our cranes can also be powered using generators mounted alongside to eliminate reeling cables and for increased ease of use, increased safety and to provide extreme operational flexibility.

These crane solutions can also be designed with additional overhang on either side and with multiple hoists to increase usability of the crane while reducing investments in separate cranes.





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Featured here

1. Gantry crane of 40m span with overhang (20m and 5m) on each side at a casting yard
- 2, 3, 4. Customised gantry cranes handling precast slabs
5. Multiple heavy duty gantry cranes in precast yard



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Customised crane solutions for

SHIPBUILDING YARDS

Apt solutions for precision handling of large and heavy components.

A typical shipyard needs highly reliable cranes capable of handling large and heavy loads in a safe manner. Efficiency and ease of use of cranes go a long way in ensuring shipyard productivity.

ElectroMech has developed customised crane solutions for several leading shipyards. Our cranes find use in block building plants, on panel lines, in steel cutting shops, in stockyards, in assembly areas as well as on dry docks. Our high speed, high lift cranes are extremely useful for safe handling and precise positioning of parts in the assembly bays of large ships. Special rotating mechanism (rotating crab) with a unique hooking ensures handling and rotating of large and heavy steel plates with complete safety. Even handling of objects of extraordinary sizes is made possible using two or more cranes operating in tandem.





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Featured here

1. Heavy duty, high lift, high speed cranes used in an assembly bay of a large shipyard
2. Semi-gantry cranes to handle sub-assemblies used for building submarines
3. Unique rotating mechanism mounted on double girder crane in the plate cutting facility of a shipyard





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Customised crane solutions for

STEEL SECTOR

Trusted solutions that provide safe, durable and reliable performance.

High ambient temperatures, oversized and heavy loads, recurrent operations, precision requirements and safety are of utmost concern while designing material handling solutions for the steel sector. ElectroMech is well known in the steel sector for its innovative solutions which reduce execution time, save on project cost and enhance work efficiency.

Some examples of our inventive solutions include a large rotating mechanism mounted on a double girder crane to safely handle and rotate large and heavy plates up to 270° with higher precision and speed. Two winches on one double girder crane which work in tandem, can easily lift larger plates and allow higher utilisation of the shop-floor.





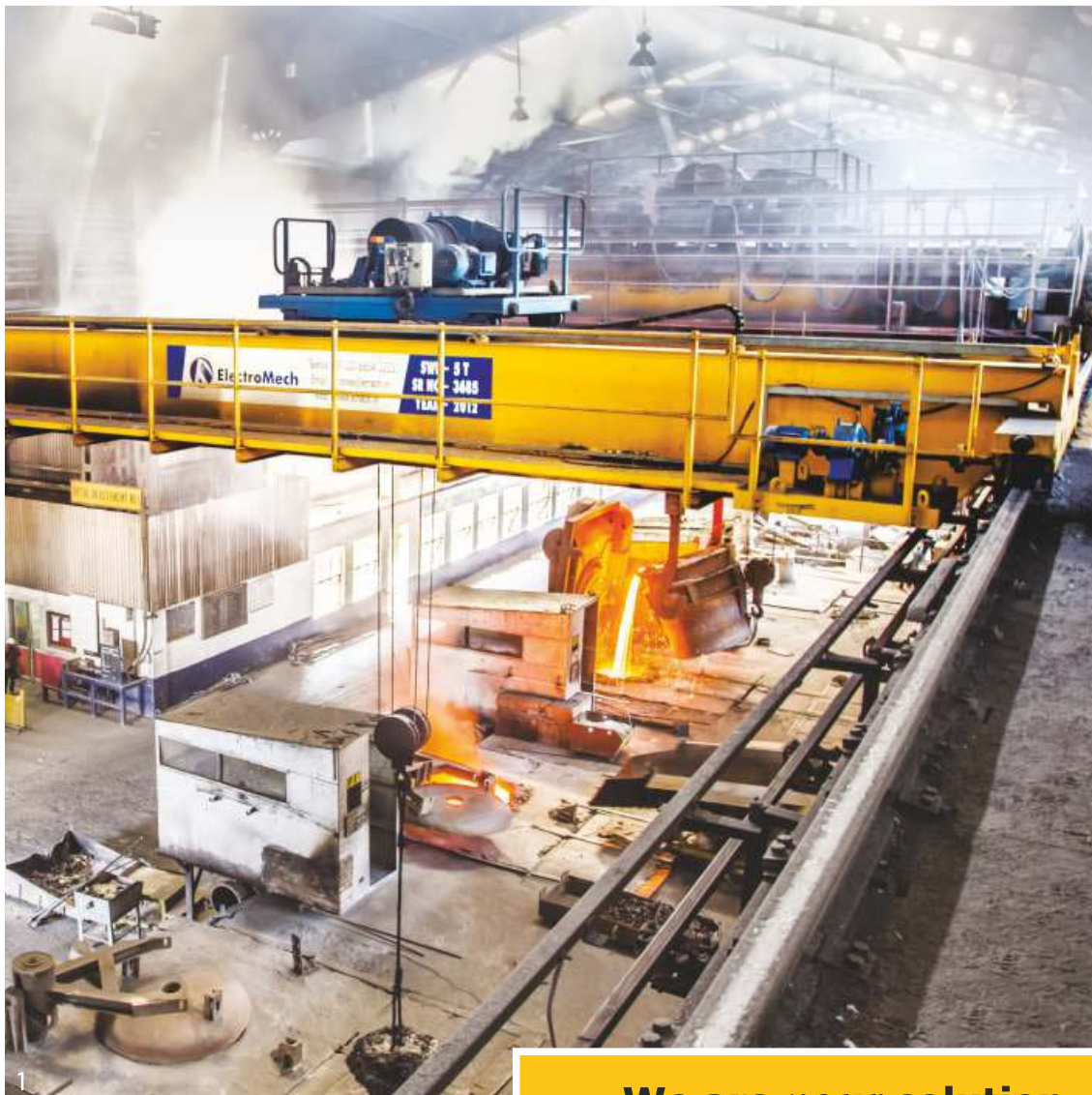
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We are *your* solution

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1. Ladle handling crane
- 2,3. Double girder cranes for handling rebar using magnetic lifting beam
4. Double girder crane with specially designed rotating crab for handling rebar mill products
5. Gantry crane used in outdoor steel stockyard



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Customised crane solutions for

TUNNEL/SHAFT MUCKING

Innovative solutions for high speed, high lift applications.

Infrastructure projects like hydroelectric power plants, underground drinking water, sewage projects require initial vertical shafts and then subsequent horizontal tunnels. During such operations, muck needs to be removed speedily and for tunneling operations, movement of material and people through shafts is needed on a daily basis.

ElectroMech tunnel/shaft mucking systems efficiently carry out these operations. These solutions provide heights of lift in excess of 300m and high speeds of operation. These are heavy duty, rugged cranes capable of performing in most challenging site conditions and extreme environmental conditions. For easy, quick and precise assembly of Tunnel Boring Machines (TBM), ElectroMech has also developed specialised solutions built around triple girder cranes using multiple hoists.





We are *your* solution

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1. Triple girder crane inside tunnel for TBM assembly
2. Mucking system for surge shaft of a hydroelectric power project
3. Large and heavy TBM parts being lowered through a 100m deep shaft
4. Mucking system for excavating underground LPG cavern
5. Crane used for TBM assembly in a water supply project





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Customised crane solutions for

RENEWABLE ENERGY

Reliable solutions for precision positioning and safe handling of large, heavy parts.

Industrial overhead cranes play a crucial role in the windmill manufacturing process. From handling and storage of components like generators and gearboxes to sub-assemblies such as nacelles, blades and towers, our cranes offer complete solutions to the wind energy sector.

ElectroMech has developed unique solutions for handling sub-assemblies of the windmill such as blades and towers (concrete and steel), where two or more synchronised cranes operate in tandem, allowing uniform distribution of load among multiple cranes ensuring safe and precision handling.

ElectroMech solutions for windmill plants include various types of overhead and gantry cranes ranging from 5t to 150t. Our unique offering such as 360° rotating hook for ease of loading the nacelle onto the trailer has been widely accepted and appreciated by the industry.

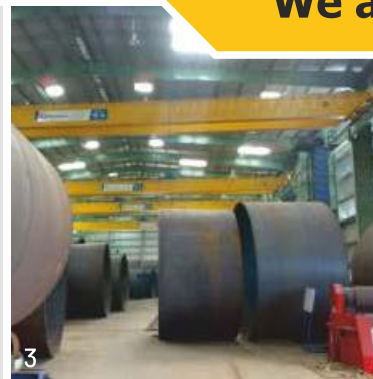




We are *your* solution

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1. 150t gantry crane with 360° rotating motorised hook for handling nacelles
2. Gantry cranes working in tandem to handle windmill towers
3. Heavy duty double girder cranes in a tower manufacturing plant





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Customised crane solutions for

WAREHOUSING

Advanced solutions that ensure high storage density, faster storage, precise retrieval and safety.

ElectroMech has leveraged its competence for providing efficient storage and retrieval solutions. ElectroMech stacker cranes are considered to be one of the most cost-efficient and simplest systems available for warehousing which save on valuable floor space and are electrically operated. This avoids air pollution caused by hazardous diesel fumes and reduces noise pollution. There is no restriction on the height of shelving, no deration in lifting capacity at higher operating heights and no danger of tipping over.

The system is suspended from the top of storage racks and hence is well supported. It requires narrow aisles which saves valuable floor space. The use of complete available height in the warehouse enhances storage density and adds to floor space savings. ElectroMech stacker crane solutions are ideal for warehouses and manufacturing stores.





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1. Easy placement and removal of pallets using our customised stacker crane
2. Special design to handle bulky load
3. Stacker crane in engineering components warehouse

Experience competence in industrial overhead crane

WORLD-CLASS SERVICES

Ensure high crane uptime, increased productivity and greater profitability.

ElectroMech is renowned for most efficient industrial crane services for all makes of industrial overhead cranes. These services are offered under the aegis of Cranedge, which has become a benchmark in crane servicing across the world. Cranedge services from ElectroMech focus on preventive maintenance to ensure greater workplace safety and to avert production losses due to sudden crane failure. With this approach, ElectroMech is successful in ensuring nearly zero downtime of its cranes. Besides our existing customers, our services can be availed by customers using cranes of other makes as well. Our expertise, efficient service and ability to deliver required spares in the shortest possible time have earned us the loyalty of our customers.

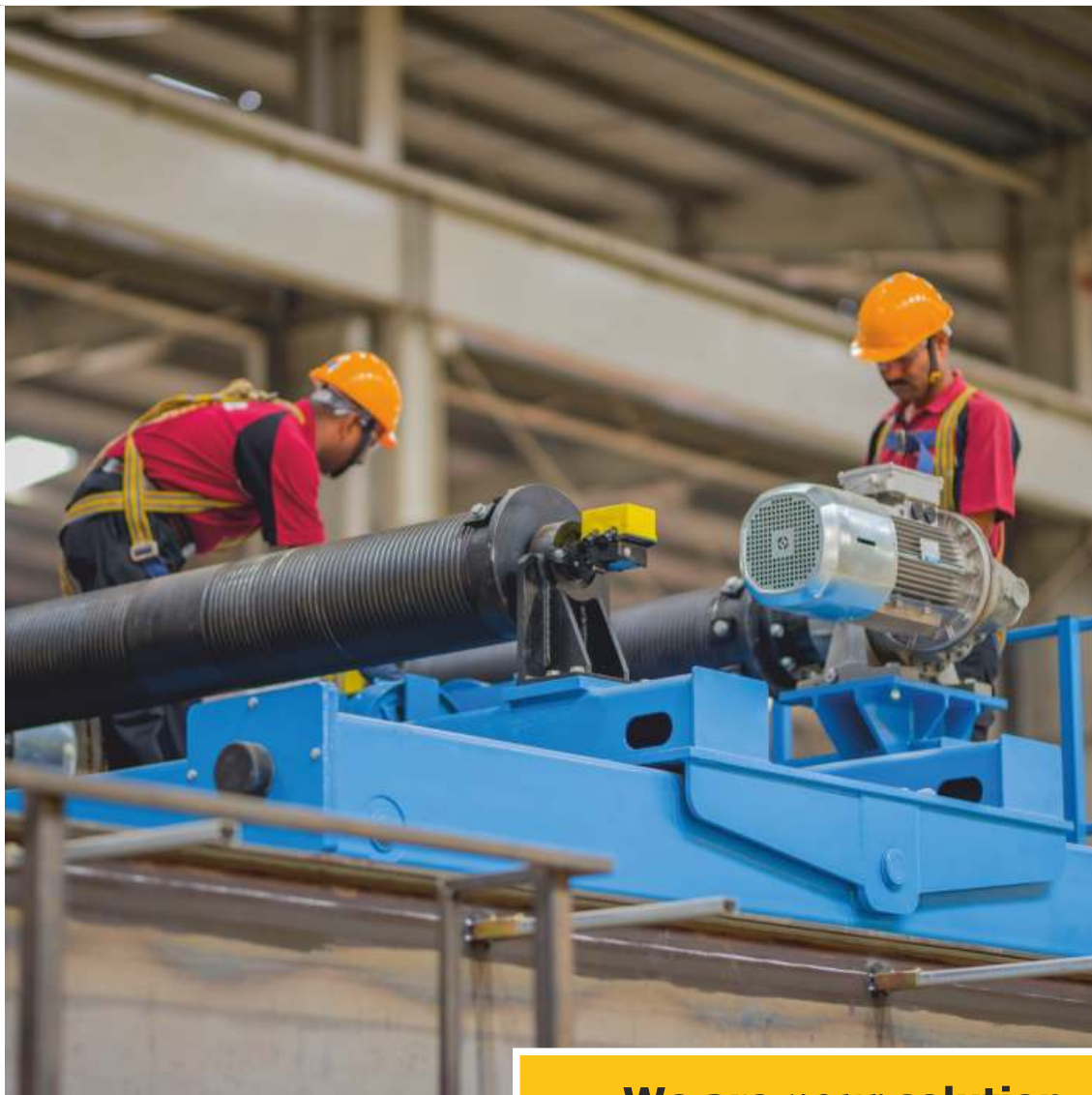
Our service offerings include repair, maintenance, refurbishing, capacity enhancement, modification, relocation and certification. Several standard packages for Annual Maintenance Contracts are offered, which can also be customised to suit your specific requirements. Cranedge services cover almost all types of overhead cranes used in the safe zones as well as hazardous area (oil & gas, chemicals, etc.). Availing our services means ensuring complete peace of mind while keeping your production unaffected due to non-availability of cranes at critical times. Moreover, the most important aspect assured by these services is SAFETY. We are sure that you will be delighted to know about and avail our various service offerings to make you worry-free in the future even if you are not an ElectroMech customer.





Industrial Overhead Crane Services

- Annual Maintenance Contracts
- Repairs, renovation, relocation
- One time health check-up



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cranedge

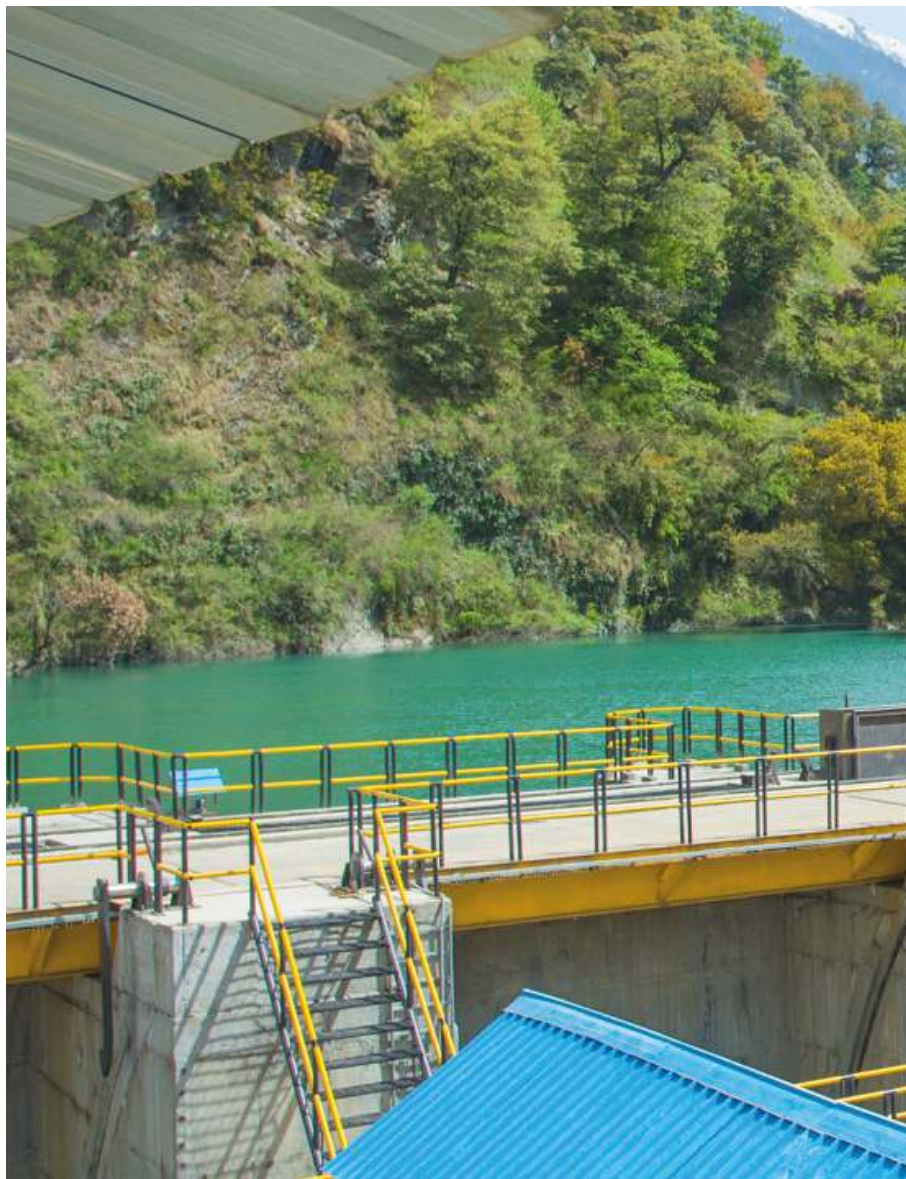
Services By ElectroMech





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Double girder gantry crane for operating sluice gates installed on a dam in the Himalayas



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Customised double girder crane on vehicle assembly line



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Bridge building girder of 60m length.
Four sections of 15m each assembled on site with simple nut and bolt assembly



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Double girder gantry crane with 54.6m span for handling and stacking of 52m long foam blocks



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Double girder gantry crane with special lifting arrangement
installed at the warehouse of a leading TMT bar manufacturer



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150t gantry crane for launching girder



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Complete handling integration at a precast manufacturing plant



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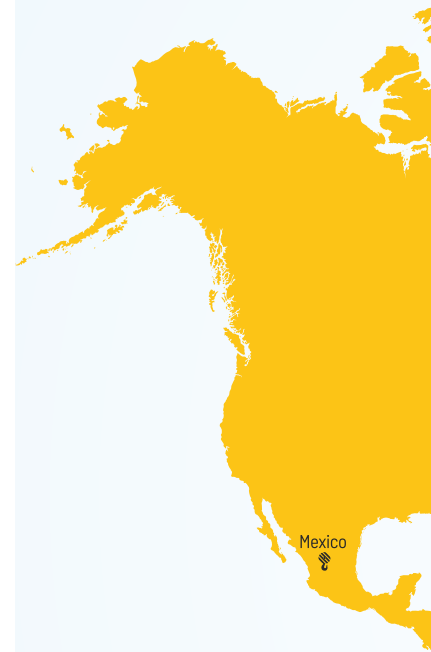
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Customised crane solutions for

GLOBAL REQUIREMENTS

Commendable presence in around 50 countries.

ElectroMech has earned the reputation of being the most reliable partner in the field of material handling systems through its inventive solutions and efficient services. Today, ElectroMech teams operate from various locations across the world. Each regional team comprises of dedicated crane experts from different continents and cultures. Teams in each geographical area are conversant with local languages, culture, environmental and other challenges. This understanding results in the most practical solutions and quick training of local operators. Experience the benefits of partnering with ElectroMech and leveraging its global expertise to your advantage.



Mexico



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