Well-engineered solutions for the infrastructure sector

ElectroMech

| Solutions | Service | Satisfaction |

WHO WE ARE

Established in 1979, ElectroMech is the largest manufacturer of industrial overhead cranes in India. Having experience of 40 years, our customers advocate ElectroMech as a solutions provider they can count on every single time. Efficient, trusted solutions and commitment have made customers come back to us time and again.

ElectroMech has supplied over 7000 cranes worldwide, from its manufacturing plant based near Pune. This state-of-the-art manufacturing plant is one of the largest EOT crane manufacturing facilities in India, capable of delivering 1500 cranes annually adhering to international standards, HSE and quality assurance practices. The facility is spread over 85,000 sq.m and can manufacture cranes of various types and sizes. An excellent design office with a team of 40+ designers and developers and an equally efficient sales team of 60+ application engineers make ElectroMech the first choice of customers.

Multitude of products and solutions like Overhead Cranes, Gantry Cranes, Stacker Cranes, Workshop Cranes, Explosion Protected Hoists & Cranes, Metal Production Cranes, Coker Cranes, Process Cranes, Forklifts & Lift Trucks, Rollers, Pushers and Push, Pull & Manoeuvre, Aerial Work Platforms (AWP) in partnership with globally renowned manufacturers viz. Abus, Stahl, Taim Weser, J D Neuhaus, Hyster-Yale®, Easy Mover and Sinoboom make ElectroMech a one-stop shop for all your material handling needs.

Unique solutions, optimised design, high manufacturing standards, paramount safety, superlative quality, excellent service and deep client engagement make ElectroMech a reliable partner throughout the project life cycle.

We believe in going the extra mile! We help customers modernise, service and maintain cranes of all makes through our subsidiary, Cranedge. We have a wide-spread network and workforce of 150+ technicians to cater to any service call.

With significant presence in more than 60 countries and subsidiaries in Dubai, Abu Dhabi and Indonesia, ElectroMech is steadily marching towards becoming a global brand of repute.



CRANES & BEYOND



ElectroMech
Solutions | Service | Satisfaction

ABUS crane systems, Germany

STAHL CraneSystems

TAIM WESER

Yale

easy mover

SINOBOOM

J·D·NEUHAUS engineered for extremes

cranedge



80t gantry crane
deployed for construction
of Kochi Metro, India

Wireless
synchronisation
of cranes to lift
precast segments

CRANES & BEYOND



Where there is a
PROBLEM
There is a
SOLUTION™

Material Handling Solutions for

- Bridges
- Roadways
- Metro Rail Projects
- Flyovers & Expressways
- Miscellaneous Handling
- Tunnel Mucking
- Precast Manufacturing

CONTRIBUTION TO INFRASTRUCTURE SECTOR

Infrastructure is a key driver for any economy. In the near future with the onset of growth, Indian infrastructure is witnessing rapid flow of funds and intense focus on initiating projects for development of world-class infrastructure. Longer expressways, metro rails, monorails and upcoming bullet train projects are changing the landscape of urban Indian infrastructure. With 'smart cities' taking shape, there also is a demand for well-knit water and sewerage networks.

ElectroMech has contributed to this sector with:

- Its experience and presence of four decades, making ElectroMech the 'go to' business partner
- Largest crane manufacturing plant in the country having successfully delivered over 7000 industrial cranes in the market
- Advanced technology, efficient, safe and reliable crane solutions have become an integral part of infrastructure projects in the country
- Cranedge, the service arm of ElectroMech, has taken up projects for retrofitting, modernisation and relocation services which significantly help infrastructure companies to reuse assets, thereby reducing overall project costs
- Largest after sales support team of 150+ technicians, giving immense confidence and peace of mind to our customers
- Association with Hyster-Yale® for forklifts and lift trucks for off-road material handling equipment required on the project sites

We are confident that your association with ElectroMech will be the most delightful experience and we look forward to a great business relationship.



60t crane deployed for construction of Signature Bridge, Delhi



Material handling solutions for

BRIDGES & ROADWAYS

Bridges are the connection blocks for a developing country like India. For bridge construction projects, use of precast segments is widely considered.

Controlled pour conditions, strict quality measures and factory strength testing ensure the precast concrete strength and durability. ElectroMech possesses proven expertise to make this complex process with numerous inputs and flows simpler.

We have been chosen by leading EPC companies working on such ambitious projects to provide them with optimal and safe material handling solutions. Particularly, our gantry cranes are useful for handling precast segments, concrete moulds, reinforcement bars and other related raw material and finished goods at the construction site.

ElectroMech has supplied cranes for the casting yards across multiple projects in India as well as special cranes on the 'launching girders' which transpose from one end to the other end of the river banks. To name a few, Loknayak Ganga Path Bridge (Bihar), Yamuna Signature Bridge (Delhi), Mandovi Cable Stayed Bridge (Goa) and Zuari Cable Stayed Bridge (Goa) are among many such prestigious projects.

Typical Applications

- Heavy duty gantry cranes for handling precast segments
- Special gantry cranes on launching girders with inbuilt flexibility to move on curved tracked bridges
- Gantry / EOT cranes for handling concrete / steel moulds and reinforcement

CRANES & BEYOND

150t crane deployed for construction of
Mandovi Cable-stayed Bridge, Goa



120t crane
lifting precast
segment

ElectroMech
| Solutions | Service | Satisfaction |



80t gantry crane
deployed for construction
of Kochi Metro, India



75t crane deployed for
construction of Pune Metro, India



100t crane deployed
at precast yard

CRANES & BEYOND

Material handling solutions for

METRO PROJECTS

ElectroMech crane solutions have been an ideal choice for metro rail projects for handling precast segments during construction of elevated metros as well as in precast yards. Our mucking solutions have been deployed for underground metro stations and tunnelling operations for handling TBMs and tunnel lines.

ElectroMech solutions have been working 24x7 at several metro rail projects in India and abroad, ensuring extreme flexibility, safety and reliability.

ElectroMech specialises in solutions that are compact and flexible. Our design features allow reconfiguration of cranes for different spans and heights of lift allowing them to be reutilised at different project sites. This approach helps construction companies to maximise asset utilisation and streamline project costs. ElectroMech cranes have contributed to metro projects in major cities of India and the world, e.g. Bangalore, Chennai, Delhi, Kochi, Mumbai, Pune, Doha, Dubai, Riyadh, etc.

Typical Applications

- Single / tandem lifting through gantry cranes for casting yards (U-Girders / I -Girders / Segments)
- Handling heavy bundles of rebars and miscellaneous equipment
- Special cranes with overhang crane girders for ease of material movement
- Lowering and lifting of TBM components for underground metro tunnels
- Lowering tunnel lining segments for underground metro tunnels



50t crane deployed for
construction of Dubai Metro

ElectroMech
| Solutions | Service | Satisfaction |

Material handling solutions for

FLYOVERS & EXPRESSWAYS

Today, sustainable urban infrastructure is gaining utmost priority for the development of smart city programmes. Construction of long stretches of new expressways and city flyovers consists of elevated bypasses and viaducts. Flyover construction projects carried out in densely populated cities are often posed with the challenge of space constraint. This demands a material handling solution which can operate in narrow spaces, efficiently handling bulky loads. ElectroMech gantry and semi-gantry crane solutions with high load capacity are an ideal choice.

ElectroMech has supplied crane solutions to many iconic projects for handling precast segments in the casting yards. Bengaluru airport elevated flyover, Mankhurd – Ghatkopar flyover, Empire Estate flyover - Pune, Barapullah flyover - Delhi, Mumbai Trans Harbour Link are just a few of them. These rugged solutions are capable of operating round the clock with high efficiency. They have been deployed on several challenging flyover construction projects in India and abroad.

Typical Applications

- Gantry cranes for multi-level stacking of precast segments to enhance space utilisation
- Crane solutions for handling of pier caps / acropodes / heavy steel beams and fabricated structures



Crane lifting precast segments at a casting yard in India

CRANES & BEYOND

150t crane lifting precast segments at Mankhurd flyover site, India

150t crane lifting precast segments at a flyover site in Mumbai, India

ElectroMech

| Solutions | Service | Satisfaction |

Several gantry cranes
deployed for precast manufacturing
in Saudi Arabia

Multiple cranes operating at a large precast yard
of a leading construction company in Indonesia

CRANES & BEYOND

Material handling solutions for

PRECAST MANUFACTURING

Today's construction business in India is witnessing a paradigm shift on the technological front. Modern day homes and flats are built from 'single cast concrete construction' methods. All the rooms, walls, slabs, beams and footings of the high-rise buildings are precast from standardised moulds with advanced technologies, thereby reducing the total time of construction.

Leveraging the vast experience in dealing with precast manufacturers, ElectroMech has developed and delivered competent and customised solutions for the precast industry in the shortest possible timeline.

ElectroMech EOT & Gantry cranes are used in precast manufacturing yards and plants which include handling of steel bars, moulds and final precast sections and for loading of finished precast products onto the transport vehicles. ElectroMech solutions can also be designed with girder overhang on either side of the span and with multiple hoists on the same crane to increase usability while reducing the capital expenditure.



30t gantry crane deployed for precast manufacturing in Dubai

Typical Applications

- Customised gantry cranes handling precast rooms and slabs / walls
- EOT / gantry cranes for handling precast moulds
- Handling reinforcements / rebars in precast plant





Several gantry cranes deployed for precast manufacturing yard at Chennai Metro, India

100t crane deployed for tunnel mucking and handling of TBM assembly for one of the deepest raw drinking water tunnels in Asia

100t crane deployed at pump house for handling pumps and motors



15t crane deployed at hydropower project in Bhutan



CRANES & BEYOND

Material handling solutions for

TUNNELING & IRRIGATION SECTOR

Infrastructure projects such as underground metros, hydro-electric power plants, underground water tunnels, sewerage tunnel projects require initial vertical shafts and then subsequent horizontal tunnels to be built. ElectroMech Tunnel Mucking Systems are an innovative solution for these operations with precision, high speed and assured enhanced safety.

During the tunnelling operations, muck needs to be removed out of the vertical shafts speedily for which ElectroMech tunnel mucking systems with grab buckets prove to be an ideal solution. These solutions provide depths / lifts in excess of 300m and high speeds of operation as per application requirements.

ElectroMech mucking systems have been deployed at many projects across the country viz. Middle Vaitarana pipeline project, Kaleshwaram water lift and irrigation project, various surge shaft and pressure shafts for hydroelectric projects within and outside India.

These heavy duty, rugged cranes give superior performance at the most challenging sites and extreme environmental conditions.

Typical Applications

- Mucking systems for surge and pressure shafts at hydroelectric projects
- Mucking systems for shafts and tunnels for underground water tunnels
- Cranes used for TBM lowering and assembly
- Mucking system for excavating underground caverns



120t crane deployed for lowering TBM components

ElectroMech
| Solutions | Service | Satisfaction |



Material handling solutions for

MISCELLANEOUS HANDLING

ElectroMech, in association with Hyster-Yale®, offers a range of lift trucks specially developed to meet various construction industry application requirements.

Valuable loads such as precast concrete, cement pipes, bricks, concrete blocks, steel pipes, wall sections and other fragile building materials need to be handled with minimal risk of damage. Yale® trucks are flexible and can be equipped with a wide range of attachments to handle various construction materials. The range of attachment includes:

- Clamps providing 180° rotation for easy handling of circular pipes with large diameter
- Multi-pallet handlers to carry more items and increase handling efficiency
- Push-pulls for carrying bulky and heavy loads
- Various types of forks to suit a variety of items
- Lift tables and other specialised attachments

These lifting attachments are designed to ensure safe handling and increase productivity at a construction site.

Single or double hydraulic clamps on Yale® lift trucks enable efficient handling of bricks and blocks in smooth operations that allow productivity optimisation while saving time and money.

Double or multiple fork attachments are also popular solutions for handling palletised construction material, which ensure fast and high productivity operations.

Yale® lift trucks are designed to ensure optimum awareness about surroundings for operators and workers alike. They also incorporate features to overcome the commonly prevailing dust problems on construction sites.

Yale® offers the right truck for the right job, which increases uptime and optimises productivity, while handling loads with the utmost care and minimum risk of damage.

Typical Applications

- Handling concrete precast using special attachments
- Handling of large and bulky pipes
- Handling of bricks, blocks and other fragile building materials

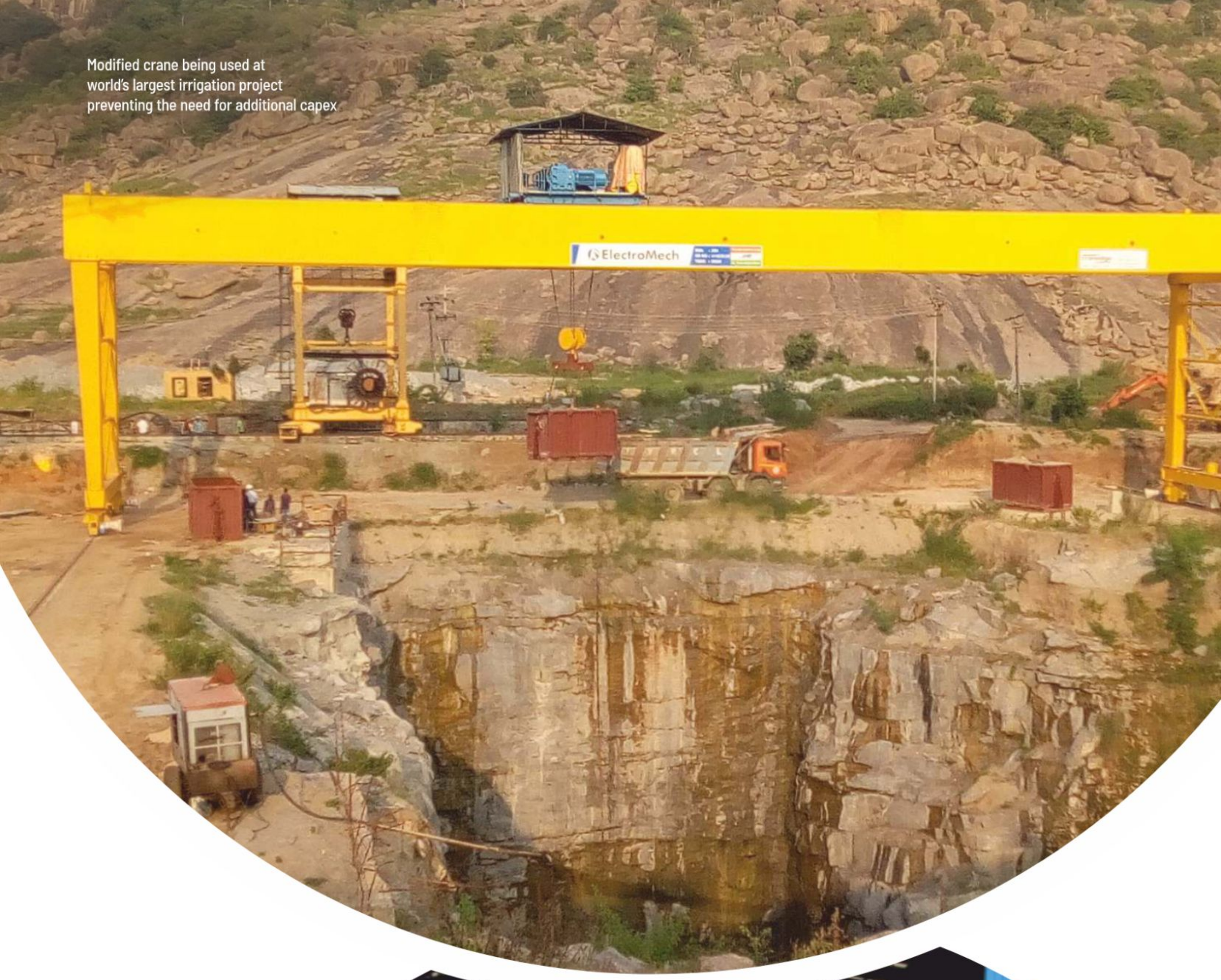
CRANES & BEYOND

Robust and ergonomically designed
high capacity forklifts for infrastructure sector





Modified crane being used at
world's largest irrigation project
preventing the need for additional capex





Team of 150+ service technicians
ensures speedy response

CRANES & BEYOND



Experience competence

UPKEEP, UPGRADE & UPRAISE

ElectroMech is known for providing efficient service support for its cranes anywhere in the world through its subsidiary company, Cranedge. Generally, new cranes are used on a project till its completion and subsequently become a dead asset. Using the same available cranes on another project may not be feasible for several technical reasons. Many a time specifications of the cranes required on a new project are different. Also, relocation demands proper support for erection and commissioning.

Cranedge offers expert services for modification, modernisation and relocation of existing cranes. This not only saves substantial costs but also considerable time for procuring new equipment. Cranedge also extends its service support throughout the project cycle, irrespective of the crane make.

Efficient reuse of assets through crane modification, modernisation and relocation has been demonstrated successfully by Cranedge at different projects and manufacturing plants. This includes Kochi Metro Project, Koyna Dam Project, Kaleshwaram Lift Irrigation Project, Bharati Shipyard, Pipavav Shipyard, GE Stamp Factory, HCC, Weir Engineering, etc.

Cranedge has an extensive network of 150+ service technicians across India. In addition, it also serves customers from offices in UAE, Kingdom of Saudi Arabia, Indonesia and parts of Africa.

Services partner

cranedge

Service Offerings

- Modernisation & Retrofitting
- Crane Modification & Relocation
- Annual Maintenance Contracts
- Spares Management & Inventory
- Overhauling & Servicing
- Crane Operators Training & Crane Safety Certifications



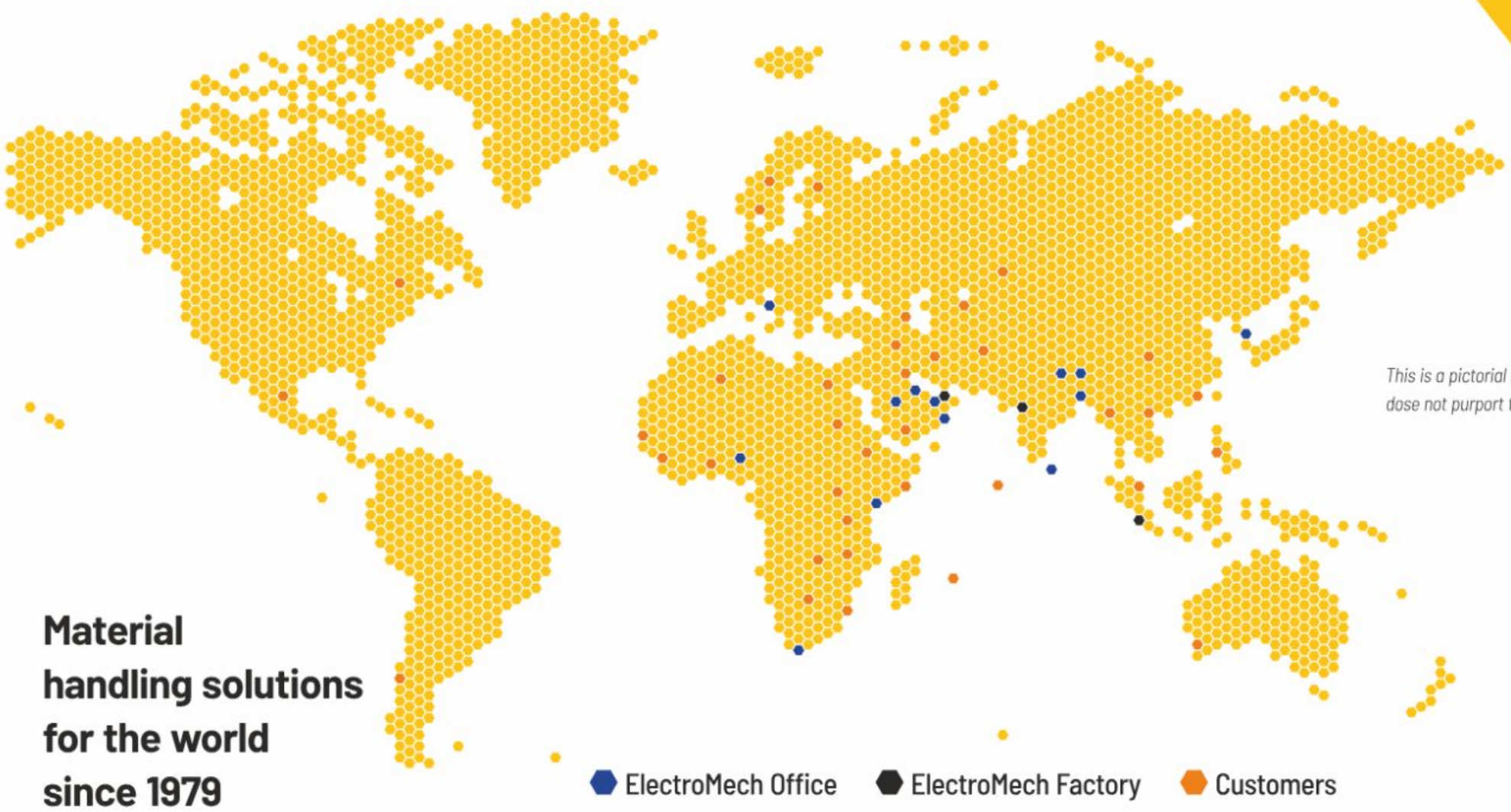
ElectroMech
| Solutions | Service | Satisfaction |



Material Handling Solutions for

- Automotive
- Aerospace
- Bridges
- Cable Manufacturing
- Cement
- Chemicals
- Cold Storage & Perishables
- Construction
- Construction Equipment
- Container Yards
- Defence
- Electrical
- EPC Contractors
- FMCG
- Food & Beverages
- Galvanising
- General Engineering
- Glass Manufacturing
- Heavy Engineering
- Highways
- Hydro Power
- Infrastructure
- Logistics & Supply Chain Management
- Manufacturing
- Medical Equipment
- Metro Rails
- Mining & Metal Processing
- Nuclear Power
- Oil & Gas
- Paper & Packaging
- Pharmaceuticals
- Plastics
- Ports
- Precast
- Railways
- Shipping
- Steel / Metals
- Thermal Power
- Tyres & Tubes
- Tunnel / Shaft Mucking
- Warehousing
- Waste to Energy
- White Goods
- Wind Power

A WORLD OF SATISFACTION



This is a pictorial representation and dose not purport to be the political map.

Material handling solutions for the world since 1979

ElectroMech Office ElectroMech Factory Customers

ElectroMech
Solutions | Service | Satisfaction

Corporate Office & Plant

ElectroMech Material Handling Systems (India) Pvt. Ltd.

Gat No. 316, At post Kasar Amboli,
Tal. Mulshi, Dist. **Pune** 412 111 **INDIA**

Telefax : +91-20-6654 2222
E-mail : cranes@emech.in

Our presence across the world

Azerbaijan | Bahrain | Bangladesh | Bhutan | India | Indonesia
Italy | Kenya | Nepal | Nigeria | Oman | Qatar
Saudi Arabia | South Korea | Sri Lanka | UAE

www.emech.com

follow us on:

© Copyright 2019 | All names, logos and monograms used in this brochure are registered trademarks of respective companies. Technical changes reserved

Infra - 04 / 1119 / U-500 / KaleidoscopeB2B.com