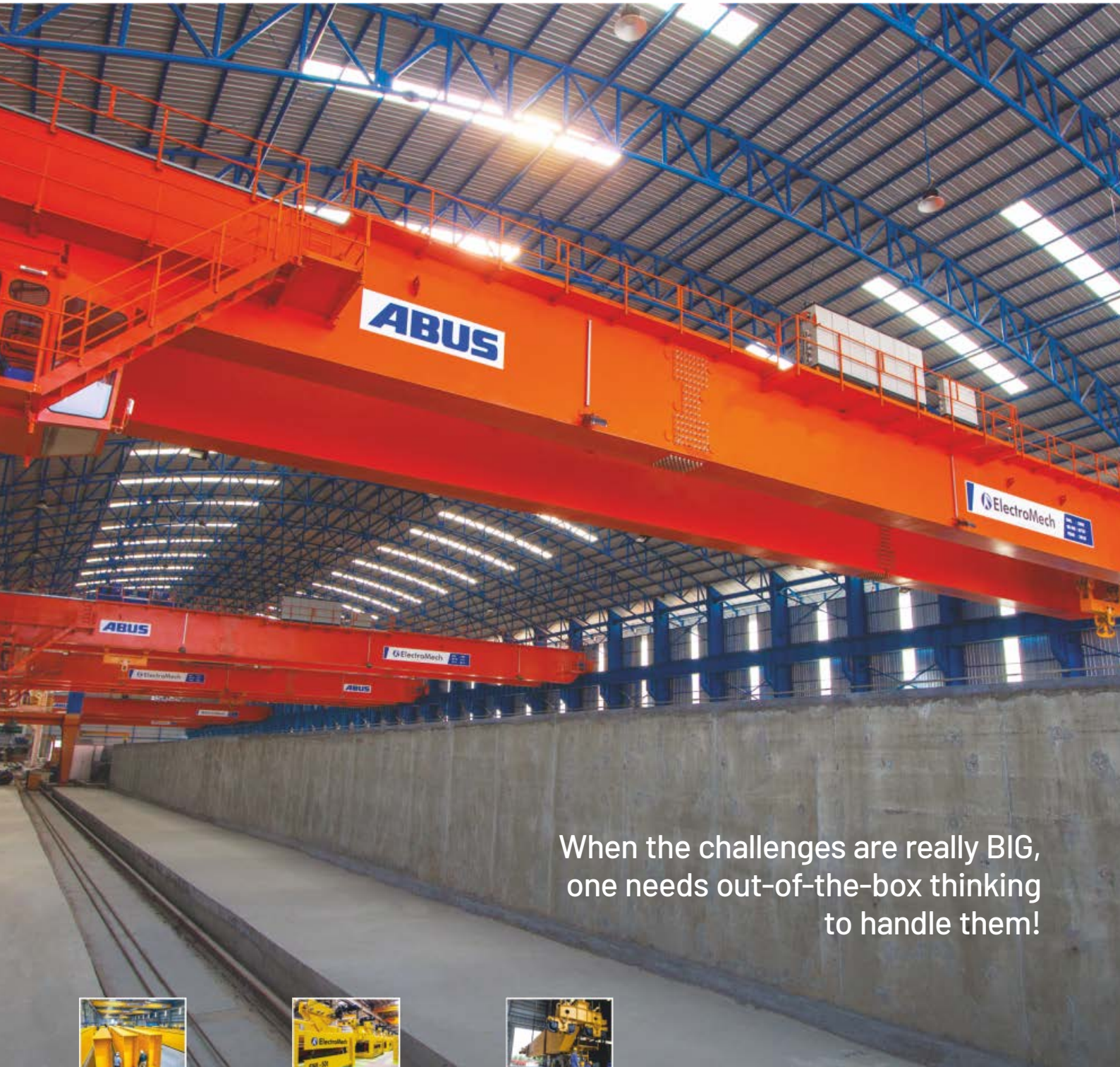




EMPOWER

Lifting & Handling



When the challenges are really BIG,
one needs out-of-the-box thinking
to handle them!



Powering the IMI shipyard,
KSA **06**



Solution for a polypropylene
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Relocating 200t cranes
from Oman to India **18**

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Take My Word!

Dear Reader,

Welcome to yet another issue of our international edition of EMPOWER. Over the past several years, ElectroMech has steadily but surely built up its customer base across the world. Today, our equipment can be found in close to 60 countries across the world. Every passing year, our international equipment base goes on increasing, making us a true multinational crane company.

We recently completed 10 years of our own company in the Middle East – ElectroMech FZE, based out of Dubai, UAE. We also started our own manufacturing facility in Indonesia – PT ElectroMech Manufacturing Industries in Cikarang, near Jakarta. This shows our commitment to our customers and we are now better placed to serve our international clientele with world class products in the shortest possible time.

No wonder, a lot of leading international companies have chosen ElectroMech as their preferred material handling solutions provider. IMI project in the Kingdom of Saudi Arabia is one such example where we will be supplying over 176 cranes for a slew of applications.

We also continue our focus on the African continent with exciting projects we have undertaken across different countries. Our supply of highly customised Ex hoists having SWL of 50t to a world class polypropylene project in Nigeria is something that we are very proud of.

Please do read about all of this and more in this latest issue and don't forget to get in touch if you have a material handling problem that needs to be solved.

Happy Reading,

Yours truly,

Tushar Mehendale
Managing Director

*Celebrating happiness
with the customers*



Over the years, ElectroMech FZE has now become the headquarters of ElectroMech's international business that caters to customers across 60 countries.



ElectroMech FZE completes 10 years

Rises to be among the **Top 3** crane companies in the UAE

Year 2019 marked the 10th anniversary of ElectroMech FZE. It has been a glorious, decade-long journey serving global markets through our subsidiary company, ElectroMech FZE, headquartered in Dubai.

ElectroMech has a strong presence in the Middle East since early 2000 with the first installation at InterGulf Ltd. With our ever growing number of crane installations across the region, we have a permanently stationed team in Dubai since the year 2002. As the number of installations kept growing, our support team also strengthened.

By 2008, the number of our installations in the Middle East reached a significant level and we expanded our operations to Africa. It was the right time for us to establish a permanent base in the region, which led to the formation of ElectroMech FZE in 2009.

This was also the period when the world had just gone through a serious financial crisis. In those adverse times, we were amongst the very few companies that were growing. This was possible due to our inherent strengths such as high quality products, customised solutions, efficient service support and customer focus. Companies across the MENA region saw a greater value in ElectroMech's solutions approach as compared to our other competitors. This translated into us receiving a welcome response from a diverse set of industry verticals.

With persistent efforts, today we are amongst the 'Top 3' crane companies in the UAE with an impressive list of over 500 customers from oil & gas, infrastructure and manufacturing sectors. Over the years, ElectroMech FZE has now become the headquarters of ElectroMech's international business that caters to customers across 60 countries.

Our team members are permanently stationed in various cities in the MENA region and are committed to provide prompt services to our customers. They have made these cities their second home and mingled with the local people and culture. This gives us an edge over our competitors when it comes to understanding the local environment, work culture and the "lay of the land". As a result, we are better poised to respond to our customers' requirements faster in order to ensure time-bound completion.

Day by day, our installations in the region are growing. Companies are approaching us with more challenging requirements and are relying on us for innovative solutions engineered around advanced technology. Our sincere approach coupled with the unstinting faith that customers have in us, we are confident of retaining our crown as one of the region's most preferred crane company.





Once completed, International Maritime Industries (IMI), Saudi Arabia, would be the the region's largest maritime facility.

Material handling in the new shipyard will be powered by 176 ElectroMech cranes

Cranes supplied by ElectroMech will be operational in three zones of the new shipyard. A total of 176 overhead cranes will be supplied, consisting of 5 numbers of 150t SWL with span of 53.5m and 8 numbers of 20t SWL with span of 45m and height of lift of 20m.

International Maritime Industries (IMI) is an anchor project of the King Salman International Maritime Industries Complex, Saudi Arabia. After completion, it will be the largest maritime facility in the region and globally unique in terms of its product mix across multiple market segments. IMI is a joint venture between the National Shipping Company of Saudi Arabia, Maritime Offshore Ltd. (a Lamprell subsidiary), Saudi Aramco, and Hyundai Heavy Industries. It is one of the flagship

projects under the 'Saudi Vision 2030' and will prove to be a catalyst for employment and economic growth in the region.

Located at Ras Al-Khair on the east coast of the Kingdom of Saudi Arabia, the facility will be about 4.96 sq.km. (1,230 acres) in area, with several dry docks and at least 15 separate piers. It will have four major areas of operation—Shipbuilding, Ship Repair, Oil Rig Construction, and Oil Rig Support.



All ElectroMech cranes are designed and built to function in extreme operating conditions -

- Ambient operating temperatures ranging between 0° to +50°C
- Relative humidity (RH) of up to 90%
- Operating wind speeds of up to 72km/hr

IMI was looking for the best cranes

Top notch equipment and machinery are being procured for the advanced facilities that are being developed to make the IMI Complex a world-class shipyard. While deciding on the solution provider for overhead cranes, a global tendering process was followed and the three best companies were shortlisted after a thorough technical evaluation.

In the final round, ElectroMech was selected as a partner for providing all the overhead crane solutions required in the different zones and workshops of the shipyard. The selection criteria employed by the international project experts were -

- Technical competence to recommend and engineer appropriate types and configurations of cranes for each application
- Manufacturing capacity to execute such a large order

- Crane erection and commissioning expertise to ensure safe installation and strict adherence to international safety standards
- Dedicated, 24x7 service support through a local team once the facility becomes operational
- Previous experience of working with shipyards and fulfilling large orders
- Long-term experience of serving customers in the MENA region
- Established infrastructure in the Middle East region

ElectroMech was amongst the very few companies that could meet all the requirements of IMI and turned out to be the best on every single criterion in the final round.



Cranes under manufacturing at our factory in India

Cranes designed to perform even in extreme conditions

ElectroMech cranes will be operational in three zones of the new shipyard - Zone A (to provide MRO of commercial vessels, OSVs and rigs), Zone C (the largest zone, to carry out new build activities for commercial vessels), Zone D (to offer new build for Offshore Jack-up Rigs, Lift Boats/ Barges).

ElectroMech will be installing a mix of cranes, which includes Jib Cranes (69 nos.), Double Girder EOT Cranes with Single Trolley (68 nos.), Double Girder EOT Cranes with Double Trolley (25 nos.), Double Girder Gantry Cranes (8 nos.) and Double Girder Semi-gantry Cranes (6 nos.).

These state-of-the-art cranes are being manufactured in our factories across the world.

All ElectroMech cranes are designed and built to function in extreme operating conditions. Out of the total 176 cranes, 5 nos. of Double Girder EOT cranes will be of 150t capacity with a span as large as 53.5m, and 8 nos. of Double Girder Gantry cranes will be of 20t capacity with 45m span and 20m height of lift. For engineering of such heavy cranes, quite a few extraordinary structural considerations are essential. Only a company that possesses vast experience in the field can

ensure safe design and reliable working of such cranes. For all the outdoor duty cranes, electricals with IP 66 class protection have been used to ensure protection against dust and jets of water.

The project is being executed in phases and cranes from Phase-1 have already been despatched to the project site. All the cranes will be made operational by the end of 2022 as per schedule and once complete, this will prove to be one of the marquee projects of ElectroMech. ■



PT. ElectroMech Manufacturing Industries,
Indonesia commences operation

Establishing a firm base in South East Asia

In recent years, South East Asia (SEA) was always in our focus. After consolidating our position in the MENA region, this was the obvious step for a company that aspires to become a globally preferred brand.

Our first major breakthrough in SEA came in 2018 with a sizeable order from PT Waskita Karya (Persero) Tbk, a leading Indonesian construction company. The sizable order consisted of several advanced technology cranes for their precast manufacturing plant. The project was commissioned in 2019 and the performance of our cranes is exceeding customer expectations.

ElectroMech, in association with Abus, intend to bridge the technology and services gaps in the market by offering crane solutions incorporating advanced

technology complemented by a trained team of service engineers across the region. ElectroMech has already set up a manufacturing plant at Cikarang, near Jakarta in Indonesia. Our factory is spread over 5000 sq. m. and houses the latest equipment and machinery.

We also have our sales offices in Jakarta & Pekanbaru from where our Sales and Services teams support our customers across the region. Our factory and office are both operational since the past two years and have provided employment opportunities to over several qualified, young Indonesians possessing experience in the material handling sector.

We welcome your visit to our factory to witness our state-of-the-art manufacturing facilities. ■

ElectroMech, in association with Abus, intend to bridge the technology and services gaps in the market by offering crane solutions incorporating advanced technology complemented by a trained team of service engineers across the region.



PT Waskita Beton Precast Tbk, Indonesia

Integrated handling solution for a precast manufacturing plant

About PT Waskita and their requirement challenges

PT Waskita Beton Precast Tbk (WSBP) was formally established as a subsidiary of PT Waskita Karya (Persero) in the year 2014. WSBP is the largest producer of precast and ready-mix concrete products in Indonesia. The company has successfully executed various projects such as toll roads, highways, bridges, skyscrapers and river revitalisation.

In the year 2018, WSBP was in the process of developing a new bay in their existing plant near Cilegon in Indonesia.

The new expansion is specifically designed to manufacture spun piles used for foundation work across the region.

The plant required several cranes for handling raw materials, heavy moulds and finished products through various stages of manufacturing. A few cranes were also

required at the storage yard for stacking and loading of the spun piles onto trucks / trailers. Additionally, a crane with a suitable attachment for handling sand and gravel was required at the concrete mixing plant.

Considering the critical nature of precast segments and their sizes and weights, the WSBP plant is designed to ensure high levels of safety. In view of this, WSBP insisted upon certain special features for the new cranes. They were looking for a competent solution provider who could provide advanced technology crane solutions and who possessed relevant experience in manufacturing such cranes. Productivity and safe operation of the cranes were at the top of the agenda of WSBP.

Contd. >



The new expansion is specifically designed to manufacture spun piles used for foundation work across the region. Productivity and safe operation of the cranes were at the top of the agenda.





Integrated handling solution for a precast manufacturing plant

When the challenges are really BIG, one needs out-of-the-box thinking to handle them!

After a thorough evaluation of the entire manufacturing process and storage yard at the new precast plant, we recommended using 13 cranes. Integration of the entire handling in the precast shop and outdoor yard was possible only by using a combination of different types of cranes. Out of the total 13 cranes, we proposed using 9 nos. of double girder EOT cranes for manufacturing bays, 2 nos. of double girder gantry cranes for the storage yard and 2 nos. of gantry cranes with grabbing bucket for the concrete batching plant area.



Integration of the entire handling is achieved using 13 numbers of different types of cranes. Features include anti-sway, crane synchronisation, motion sensors, anti-collision systems, wireless cameras and air-conditioned operator cabins.

Cranes with unique features

All the cranes incorporate special features:

- Advanced technology Abus hoists, renowned for high reliability and minimum maintenance requirements
- Anti-sway arrangement to avoid load swinging
- Motion sensors to avoid possible collisions of the cranes with each other
- Long Travel speed of 80m/min instead of the usual 40m/min to reduce cycle time and increase productivity
- Joystick control system for ease of operation
- AC operator cabin with ergonomically designed armchair
- Crane operator cabins fitted with CCTV cameras which are monitored from a centralised control room



Synchronised cranes for tandem working

To ensure safe, tilt-free handling of long and heavy precast segments, a few cranes are synchronised for tandem operation.

- In the production bay, two or more cranes are required to simultaneously lift larger precast segments. Considering this, 4 double girder EOT cranes of 100t capacity installed in the production bay are designed to operate in tandem. This is achieved by synchronising all 8 hoist motors of each crane (4 wire rope drums with 2 motors on each drum).
- Gantry cranes in the storage and despatch yard, which are of 50t capacity, are also designed for tandem hoisting operation by synchronising all 4 hoisting motors.
- Synchronisation also ensures that the cranes travel in unison in one direction and without any time lapse.

In addition to synchronisation, the operator cabins are designed to get a complete view of the segment being handled.



Waskita decided to partner with ElectroMech thanks to our technologically advanced crane solutions and an assurance of excellent post-sales service through our local team.

Right solution results in several benefits

The solution from ElectroMech has helped WSBP in precisely meeting their goals.


- Synchronised cranes ensure safe handling and prevents product damage
- Increased productivity through compressed cycle times
- Grab bucket attachment saves significant time in pouring sand / gravel into the concrete mixer
- Reliable crane technology requires minimal maintenance
- Time-bound project completion achieved without disturbing other operations in the existing plant

WSBP factories across Indonesia are already using several cranes of different makes. In spite of having a previous experience with other makes, WSBP decided to partner with ElectroMech thanks to our technologically advanced crane solutions and an assurance of excellent post-sales service through our local team. This is the first project amongst what will be many, of such a magnitude executed by ElectroMech in Indonesia, and we sincerely thank the WSBP team for reposing their trust in us. ■



Dangote Group, Nigeria

Customised solutions for a polypropylene plant to ensure safe handling of agitator during maintenance

The “Hoist Train” solution provided to Dangote is completely customised and comprises of explosion-protected  hoists working in tandem through complete synchronisation.

Dangote Group, headquartered in Lagos, is one of Nigeria’s most diversified business conglomerates. They have a reputation for adhering to excellent business practices and maintaining the highest product quality. In 2013, the Dangote Group made large investments in setting up a petroleum refinery and polypropylene plant in Nigeria. The vision was to set up an Integrated Petroleum Complex in the Lekki Free Trade Zone in Lagos. The refinery is spread across 6500 acres of land and produces up to 650,000 barrels of oil per day and 830,000 TPA of polypropylene.

Project requirement and handling challenges

For its polypropylene plant, Dangote required a suitable system for handling agitators during regular maintenance. The Agitator Reactor is one of the most crucial parts in a polypropylene processing plant and demands extremely careful handling. The job necessitates the use of customised material handling equipment with some extraordinary features. Obviously, all the equipment has to be necessarily explosion-protected considering the hazardous environment.

A typical agitator weighs around 35t. However, in the event of a wrong operation of the plant leading to subsequent fouling, the maximum polymer build-up in the agitator is estimated to be about 55t. This results in a total maximum weight of around 90t.

Dangote issued a global tender for ten numbers of 50t monorail hoists to be used in pairs, for insertion and extraction of the agitator from its reactor. Additionally, two 20t winches were also required to gradually pull and hold the agitator in a crucial position while removing it from the reactor.

Environmental challenges

- Area Classification : Hazardous
- Zone : II/B
- Temperature Class : T4

Solution from ElectroMech

On account of ElectroMech's vast experience in catering to the diverse and unique requirements of the oil & gas sector, the customer was confident placing order on ElectroMech. The "Hoist Train" solution provided to Dangote is completely customised and comprises of explosion-protected hoists working in tandem through complete synchronisation.

There are three different types of agitator reactors that are to be handled during maintenance activities. The combination of 50t + 50t hoists has been designed to allow handling loads of up to 90t, which may occur in extreme conditions after maximum polymer build-up in the agitator.

For handling the main reactor, (please refer diagram), four electrical hoists are mounted above the reactor axis. These hoists, working in tandem, are used to remove the agitator from the assembly and lay it down on the grade / truck.

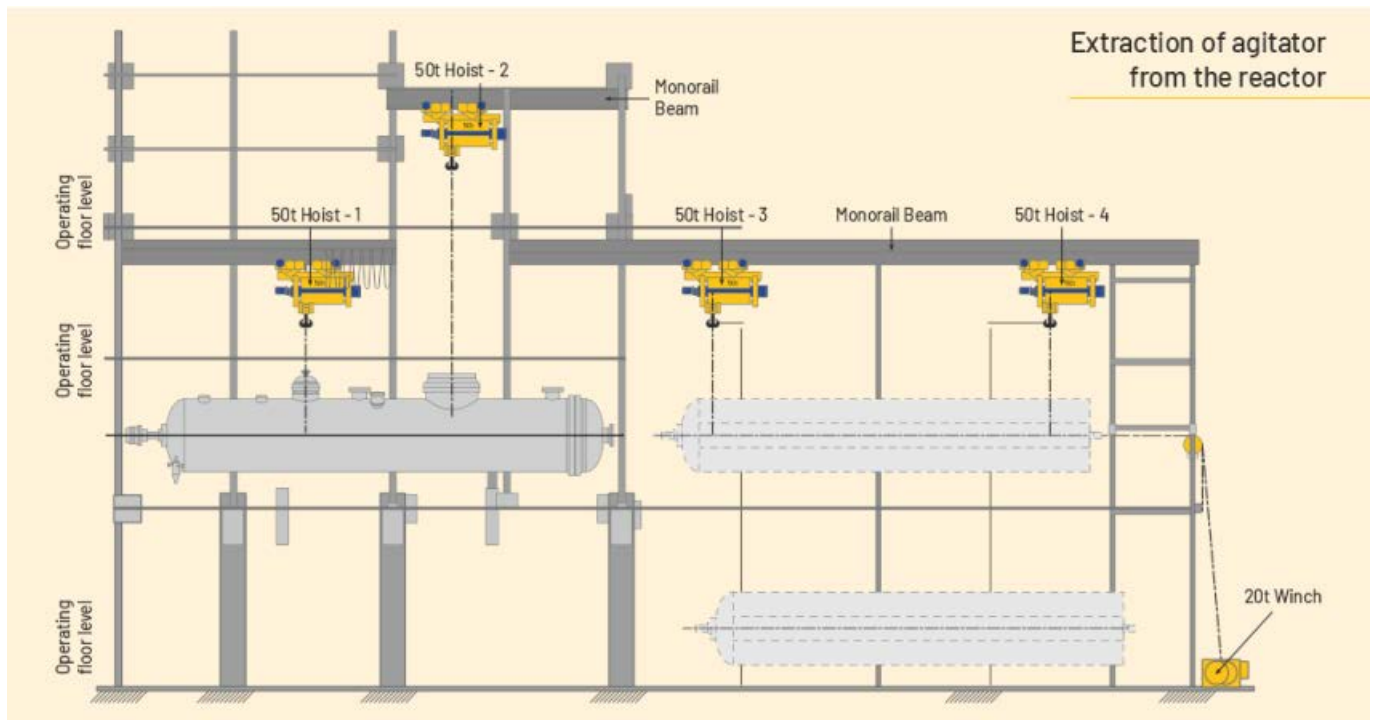
The extraction is carried out in the following steps -

- The monorails that extend over the drop zone have two hoists on a common monorail. Hoist Trains 1 & 2 (formed of 2 hoists of 50t each) lift the agitator and safely place it on a grade.
- Then, with the help of the selector switch on the Radio Remote Control (RRC), Hoist Trains 2 & 3 are activated to lift the agitator from the previous grade and lay it safely on the next grade.


- Finally, Hoist Trains 3 & 4 get activated through RRC and place the agitator on the trailer truck to move it for maintenance.

Additionally, two winches of 20t capacity are also supplied, which have similar safety features and manufacturing standards. They are used to slowly pull and hold the reactor in its place to ensure that the suspended agitator does not generate momentum. The pulling force is required to overcome the initial resistance from the residual powder, which may be present in the reactor.

A similar set-up is used for the other reactor as well. The only difference being, a total of three hoists are used to form a hoist train.



Peculiar features of the solution

The solution is designed around Explosion-protected  components from Stahl CraneSystems, Germany - the world leader in Ex cranes. Stahl is considered to be the gold standard for explosion-protected hoists and cranes.

The entire integration of components with special electricals and PLCs has been designed jointly by the Stahl and ElectroMech teams.

All the hoist trains were assembled, inspected, and fully tested by independent

third party inspectors to validate the concept, design and actual functioning of the tandem operation and synchronisation of the hoists.

The safety features of the system include load limiter devices, ensuring that the system does not overload at any time.

The tandem / synchronous movement is controlled through joystick type RRC. The same control unit is used to control all four hoists in a train. ■

This installation is a further affirmation of our competence in handling critical challenges in the oil & gas sector using explosion-protected  technology.

Coral FLNG, Mozambique

Spreader Beam to facilitate safe installation of gas turbine skid on FLNG rig

Extremely safe, precise and convenient handling assured

The Coral FLNG facility is designed to produce nearly 3.4 MMT/year of LNG and uses aero derivative gas turbines for the power and gas refrigeration process.

This is the first Floating LNG facility built in Africa and had complex requirements involving special Quality Assurance protocols to be followed.

Specialised handling systems are required to facilitate safe, precise and convenient handling

During the construction of the FLNG facility, specialised handling devices are used for Offshore Transportation and Installation (OT&I) of heavy and large-sized machinery. They include several skid mounted systems that are required to be handled in a safe manner. For proper load distribution of such long and heavy items during lifting, usually Spreader Beams are used.



As one of the mandatory requirements of offshore equipment supplies, the Lifting / Spreader Beam had to be designed as per Lloyd's code for Lifting Appliances in a marine environment and tested to 200% proof load of 450t.

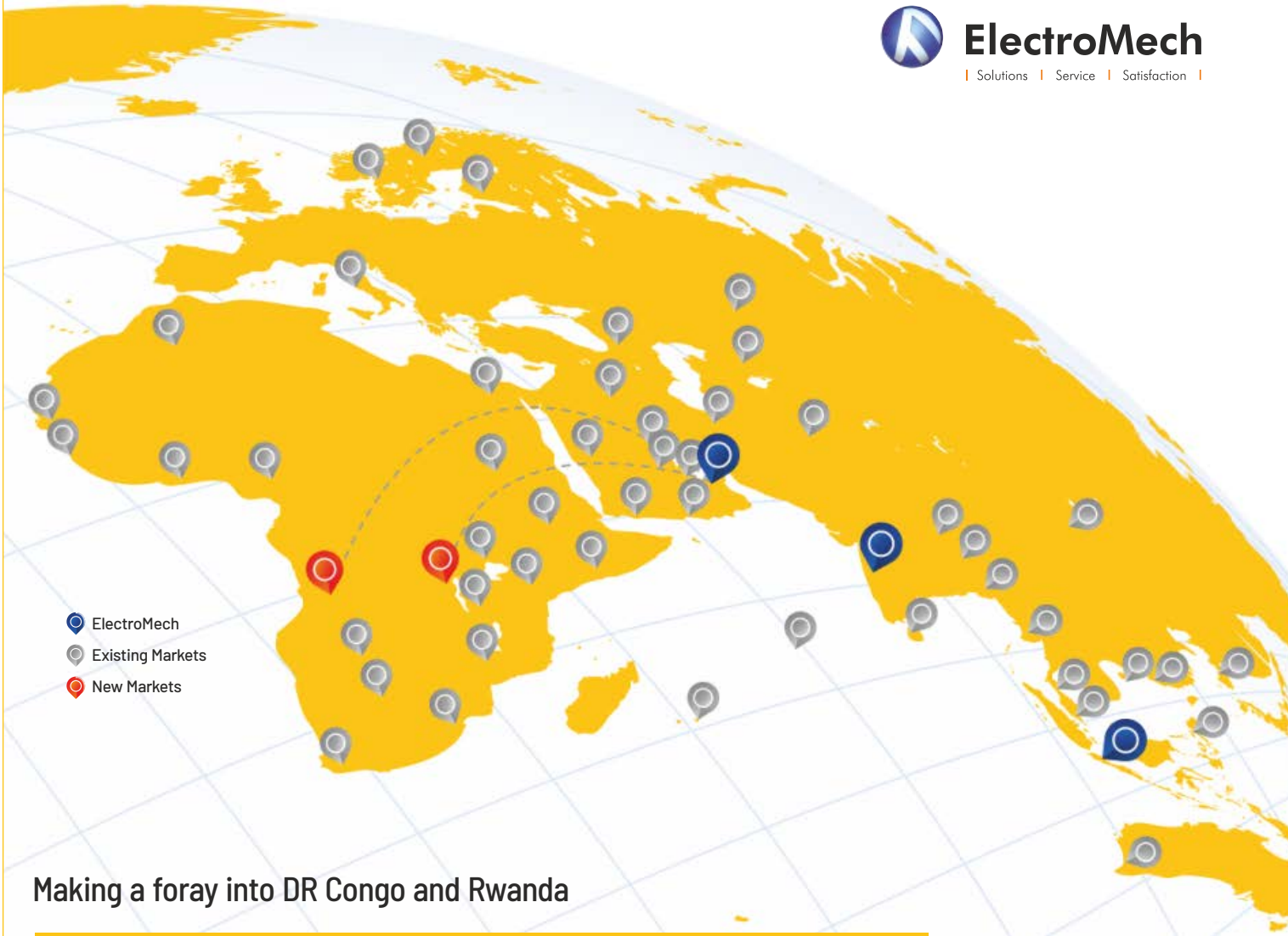
Spreader / Lifting Beam developed to meet the most stringent norms!

Being an expert in the field, the contract to design and manufacture the 225t WLL Spreader Beams was awarded to us by BHGE.

As one of the mandatory requirements of offshore equipment supplies, the Lifting / Spreader beam had to be designed as per Lloyd's code for Lifting Appliances in a marine environment. Thanks to our competence in the field, verification and approval of all calculations, drawings and FEM report by an authorised Lloyd's inspector, were completed at the first go. Manufacturing was undertaken after getting the WPS and Weld Map approved. During the manufacturing, stage inspections were also carried out by the customer as a part of contractual requirement.

A completely manufactured Spreader Beam was then assembled and load tested at 200% load i.e., at 450t in the presence of Lloyd's Authorised Inspector. Subsequently, NDT and painting were carried out. The final inspection involved the review and signing of completion reports of the beam as well as all the bought out items like D shackles, Turnbuckles and Slings. After complete compliance, the Spreader Beam was despatched to the project site.

'Right First Time' development of the Lifting / Spreader Beam for this project is a testimony to our design competence and adherence to high standards of manufacturing and testing. ■



Making a foray into DR Congo and Rwanda

Expanding our footprint in Africa

We have been serving African markets since the last 12 years and have a significant presence in countries such as Kenya and Nigeria. Quality solutions from ElectroMech are operational across various industry sectors in Africa such as oil & gas, steel, manufacturing and infrastructure.

The major challenge faced by several crane users across Africa is 'service support'. Be it a pre-sales site visit to recommend the right solution or aftersales support for ensuring high uptime of the cranes, companies suffer a great deal. Support from the original crane manufacturer for crane refurbishment, upgradation or relocation is a distant dream. In fact at few of our customers, our engineers have noticed that the cranes of other makes are under breakdown for months together for want of spares or the visit of a technician of the OEM.

Under such circumstances, crane solutions from ElectroMech are gaining recognition and popularity among leading companies thanks to our advanced technology, competitive pricing and most importantly, aftersales support.

After successful installations in around 20 countries in Africa, we have recently made a foray into DR Congo and Rwanda. Our new customers from these countries have trusted us only after thorough evaluation of our technology and listening to the experiences of our other customers in the region. When everyone vouched for the reliability of our cranes and praised our aftersales support, their trust in us was reinforced.

Our crane solutions are operational at the facilities of the new customers and are helping them to ensure crane availability when it is needed the most. Our sincere thanks to all of them for their valuable orders. ■

Crane solutions from ElectroMech are gaining recognition and popularity among leading companies in Africa thanks to our advanced technology, competitive pricing and most importantly, aftersales support.

L&T Heavy Engineering LLC

Relocating 200t capacity overhead cranes safely



When it comes to safe and time-bound relocation of cranes from anywhere in the world, we are the ideal partner. No matter what the make of your crane is!

L&T Heavy Engineering LLC is a joint venture between the L&T Group and Zubair Corporation. It is operational since 2009 and is located at Sohar, Oman. The factory is equipped to manufacture critical equipment for refineries, petrochemicals, fertilisers and other process industries.

Spread over 300,000 sq.m., the Sohar works is ably supported by an infrastructure that covers 13,200 sq.m. under covered area. The facility is fully equipped with the required machinery including several overhead cranes capable of lifting loads up to 500t.

When an asset like a crane remains unutilised, it makes perfect sense to relocate it where it is required the most.

The Sohar plant of L&T had 2 nos. of 200/50t DG EOT cranes in one of its manufacturing bays. The cranes were rarely used as production requirements had changed over time. L&T wanted to relocate these cranes from the Sohar plant to their Hazira plant in India. The Hazira plant is incidentally one of the largest heavy engineering plants in the world. Relocating the cranes would further boost the handling capacity of the Hazira plant to meet its growing production requirements.

This project was challenging for several reasons -

- The two cranes were extremely heavy, being of old design
- Each crane girder weighs about 25t. These cranes were to be taken down from a height of 25m
- Crane dismantling was to be completed in just 15 days, and that too, without affecting the regular production
- The cranes were to be re-erected and commissioned safely at the Hazira plant

and swiftly from Oman to India



There is no substitute for experience when a challenging situation is to be tackled

Considering the size and weight of each crane, the L&T team was anxious about taking down the cranes safely without halting their regular work in the same plant.

Accustomed to such critical challenges, our team 'thought differently' and suggested an easy way out. The idea of temporarily opening the roof was put forth. This would allow a crawler crane to handle large and heavy parts from outside the factory without actually entering the shop floor. Once the cranes were taken-down, individual components were marked before packing to make the re-erection easier and faster.

With perfect planning, the job was completed as per schedule. L&T undertook the responsibility of shipping the crane to the Hazira plant.

Our team in India re-erected the crane and commissioned it again in just 15 days. With our vast experience in the field, we completed the project well in advance, while adhering to the highest safety standards.



Here's what our customer has to say

"We had an excellent experience of dealing with ElectroMech. The overall project was very well planned and safely carried out. ElectroMech has successfully completed the work in a 24x7 operational plant without affecting our production activities."



Ensuring the highest benefit to our customers is what makes us their #1 choice!

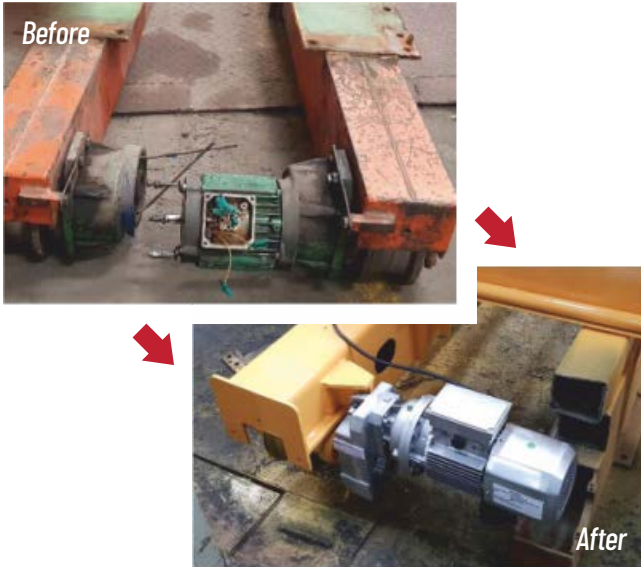
With our expert services, L&T could reuse their idle assets to increase productivity. At the same time, the sizeable investment in procuring new cranes was avoided. Instead, the objective was achieved by investing just a fraction of the cost in relocating the cranes. We managed to strictly adhere to the schedule in spite of a short notice. As a result, huge saving in shipment costs was achieved. The cranes were shipped from Oman with other machinery that was going to Hazira.

Thorough knowledge about cranes of several other makes, an experienced team and vast resources make it possible for us to accomplish even the toughest tasks easily. ■



Tononoka Steels Ltd., Kenya

Enhanced safety and performance through complete refurbishment of a 30-year-old crane



Tononoka - A renowned name in the steel sector in Africa

The Tononoka Group of Companies began operations in 1980. The initial growth of their trading business opened up an opportunity for starting steel production. This led to the formation of Tononoka Steels Limited in 1991, with a plant at Embakasi. In the year 2005, Tononoka Rolling Mills Limited was established to convert steel scrap into construction materials. The Group is a major supplier of steel across entire Africa.

Enhanced safety was an important takeaway for Tononoka. The operators are now more confident while using the crane due to the additional safety features.



A three-decade-old ailing crane required a complete and thorough overhaul

Tononoka was using an old crane procured in the 1990s from a local crane manufacturer in South Africa. This 5t DG EOT crane was not only of old design but was also fitted with drive technology, which is now obsolete. Being an overused crane and being ill-maintained due to lack of proper aftersales support, some parts were either missing or not functioning. A thorough audit by our team revealed several problems and we realised that the condition of the crane was really worrisome. It was posing a great danger and required immediate attention to ensure safe working.



Unbelievably powerful performance after refurbishment and fitting new electricals

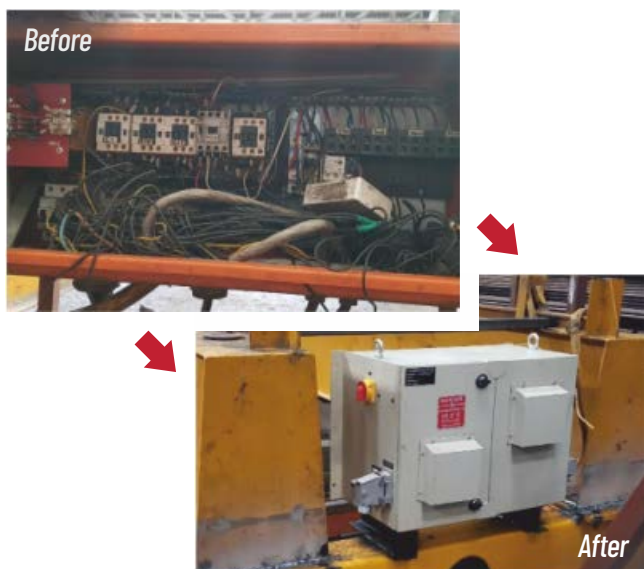
For complete refurbishment and overhauling of the crane, it was dismantled and taken down. As our team had already conducted a thorough audit, all the required spares were procured in advance, which saved significant time. The major areas addressed by us included,

- Fitting limit switches for Long Travel, Cross Travel and Hoisting
- Fitting modern geared brake motors for long travel and cross travel, ensuring smooth and efficient motion as well as doubling the speeds
- Incorporating VFD controllers to ensure soft start-stop operation, jerk-free movement

- Correction in crane span resulting in wear-free and noiseless crane travel
- Complete cleaning and re-painting of the crane

After refurbishment and modernisation, the crane is looking and functioning like a new crane.

With proper planning and coordination with the Tononoka team, the entire work was completed in just 15 days. The customer is extremely happy with the enhanced performance and safety assurance after refurbishment. The most significant benefit for the customer was getting a crane that was as good as new, at a much lesser cost as compared to the investment in a new crane. ■



Benefits

- *Increased workplace safety*
- *Increased productivity and near-zero downtime*
- *Smooth, jerk-free operation of the crane*
- *Reduced noise level while operating the crane*
- *Increased life of an asset with nominal investment*

Webinar on crane maintenance

Imparting knowledge to ensure high crane availability



Electro Mech Equipment Trading LLC, Abu Dhabi, a subsidiary company of ElectroMech, is now a registered supplier under In-Country Value program of Abu Dhabi National Oil Company.

Proper upkeep of cranes is extremely important to avoid sudden breakdowns and production hold-ups. Knowing this, our teams in Dubai and Indonesia had recently organised webinars to share useful tips on effective crane maintenance.

Our experts elaborated upon the various aspects of periodic inspection of critical crane components. The audience was also briefed about correct crane operating practices to improve productivity and ensure safety.

The webinars received an overwhelming response and were attended by key stakeholders from various renowned companies. The participants complimented us for sharing knowledge on vital aspects for ensuring high crane uptime in their plants.

Do get in touch with us to register your interest for upcoming webinars.



If you don't schedule time for maintenance, your equipment will schedule it for you.

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