



Partner of



Equipped to Excel



ElectroMech FZE is a renowned name in material handling systems worldwide. The company is based in Jebel Ali Free Zone, Dubai, UAE, and provides well-engineered crane solutions to industries and infrastructure projects alike. ElectroMech FZE is managed by a team of experienced professionals in the field and has its dedicated team of engineers and technicians for sales, design, erection & commissioning, maintenance and service. It manufactures crane structures locally in the UAE as well as through its dedicated partners spanning across the Middle East and Africa, ensuring quality and quick deliveries.

To provide our customers with a wider range of products and services, ElectroMech FZE, has partnered with Street Crane Company Limited, UK, for safe area cranes and components.

World-class Manufacturing Facility

One of the largest manufacturing facilities of ElectroMech FZE is in Pune, India, through its group company, ElectroMech, which is involved in the design, manufacture and erection & commissioning of material handling systems with a special emphasis on cranes and hoists since 1979.

This facility is spread over 18 acres of land with more than 20,000 sq.m. of covered manufacturing area. It is one of the largest crane manufacturing facilities in Asia. The plant is equipped with state-of-the-art machinery such as CNC cutting machines and semi-automated girder manufacturing fixtures. More than 600 motivated experts are engaged in the manufacturing of cranes, hoists and similar lifting equipment. The plant has a capacity to manufacture 1500 cranes and related equipment every year.

R&D – The Backbone of Our Advanced Technology Cranes

The team at the helm of ElectroMech consists of qualified technocrats with a collective experience of more than a hundred years in the industry. Our design team comprises of over 50 talented engineers who use advanced design softwares including a few developed in-house. For maintaining the highest product quality, newer concepts of material handling are continuously explored by our R&D team. ElectroMech has always prided itself on being at the forefront in adopting newer technological advances in cranes and is considered a pioneer in various fields by its peers. Constant development is undertaken with the sole intention of maximising the value delivered to the customer in terms of lower costs, higher reliability, higher safety and higher productivity.

A Formidable Presence

As a result of pursuing world-class technology, our equipment can be seen operating flawlessly at diverse locations. ElectroMech supplies equipment across different industry verticals such as automotive, steel, power, heavy engineering, fabrication, general engineering and construction. Presence of ElectroMech is evident in the infrastructure and manufacturing sectors. 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. Variety, versatility, safety, affordability, convenience and peace of mind are the standard features of any ElectroMech equipment. This is attested by the several repeat orders received from all major industrial groups in India, the Middle East and Africa.

Globally Acclaimed Quality

ElectroMech, which enjoys a significant market share in the segment of industrial cranes and customised material handling solutions, possesses certification from BSI, UK, to latest standards such as,

Quality Management System (QMS) ISO 9001:2015

Environmental Management System (EMS) ISO 14001:2015

Energy Management System ISO 50001:2018

Occupational Health and Safety Management System ISO 45001:2018

ElectroMech also won an Export Excellence Award in the year 2005. The company has been consistently growing year-on-year at a rate higher than the industry average. The span of ElectroMech capabilities has ever been widening. After achieving a position of market leadership in India, ElectroMech has spread its wings and is soaring high in global markets. As a result, a substantial chunk of our revenues comes from exports.



Competence from Street Crane, UK

The association between UK-based crane manufacturer, Street Crane Company Limited and ElectroMech further complements the knowhow and services on offer from both the companies. Since its formation in 1946, business of Street Crane has grown steadily to make it the UK's largest overhead crane manufacturer and its only volume wire rope hoist manufacturer. Throughout its 70 years of designing and building cranes and hoists, Street has built a firm reputation for quality, reliability and up-to-date crane technology. The company aims to provide all its customers with lifting equipment and solutions that surpass all their expectations in terms of technical excellence, safety, performance and reliability.

Research and Development

Constant improvement and product development are the keys to the success of Street as a result of its long term approach to product and system research and development work. The company employs talented and dedicated design teams that have total focus in each specialised aspect of the project improvement.

3D modelling is used comprehensively and full finite element analysis work is completed for all safety critical components to ensure that all Street products are fully compliant with international standards.



Quality Assurance

Street Crane Company Limited is certified with ISO 9001:2015, the latest version of ISO 9001. Not only is it recognised internationally as the world's most widely adopted Quality Management System (QMS) but it is also a powerful business improvement tool. Street has earned a reputation for quality, reliability and advanced technology. All its products are rigorously tested to ensure 100% performance as soon as commissioning is complete. Online access to detailed product end-of-line test reports is available to all clients even before the despatch of the equipment.

Street Hoist Works

State-of-the-art hoist factory of Street is built to allow production of 3200 hoists per year. Its premium product, the ZX Hoist range is developed to meet mainstream lifting needs up to 80t. This product has been specifically developed for global markets and is designed to conform to multiple international standards and be adaptable to demanding end-user requirements.

Cranes and Hoists for Manufacturing

It is all about 'uptime'. Street's leading hoist technology means that you can operate safely in the knowledge that downtime is minimised, thus increasing productivity. With 10% of its skilled personnel employed in research and development, you will benefit from tremendous reliability in the most demanding environments, resulting in low total cost of ownership for cranes and hoists.

Health and Safety Policy

Street is committed to continuously improving its Health and Safety Culture and treats statutory requirements as the minimum standard. The company strives to maintain the best practices, seeking continual improvement and innovation in all its activities. This is achieved by reviewing Key Performance Indicators, the setting of objectives and targets and the implementation of its Health and Safety Management System certified with OHSAS 18001:2007 Occupational Health and Safety. The health and safety of our employees and everyone affected by our activities is fundamental to the success of our business.



LX Chain Hoists

Up to 5t capacity

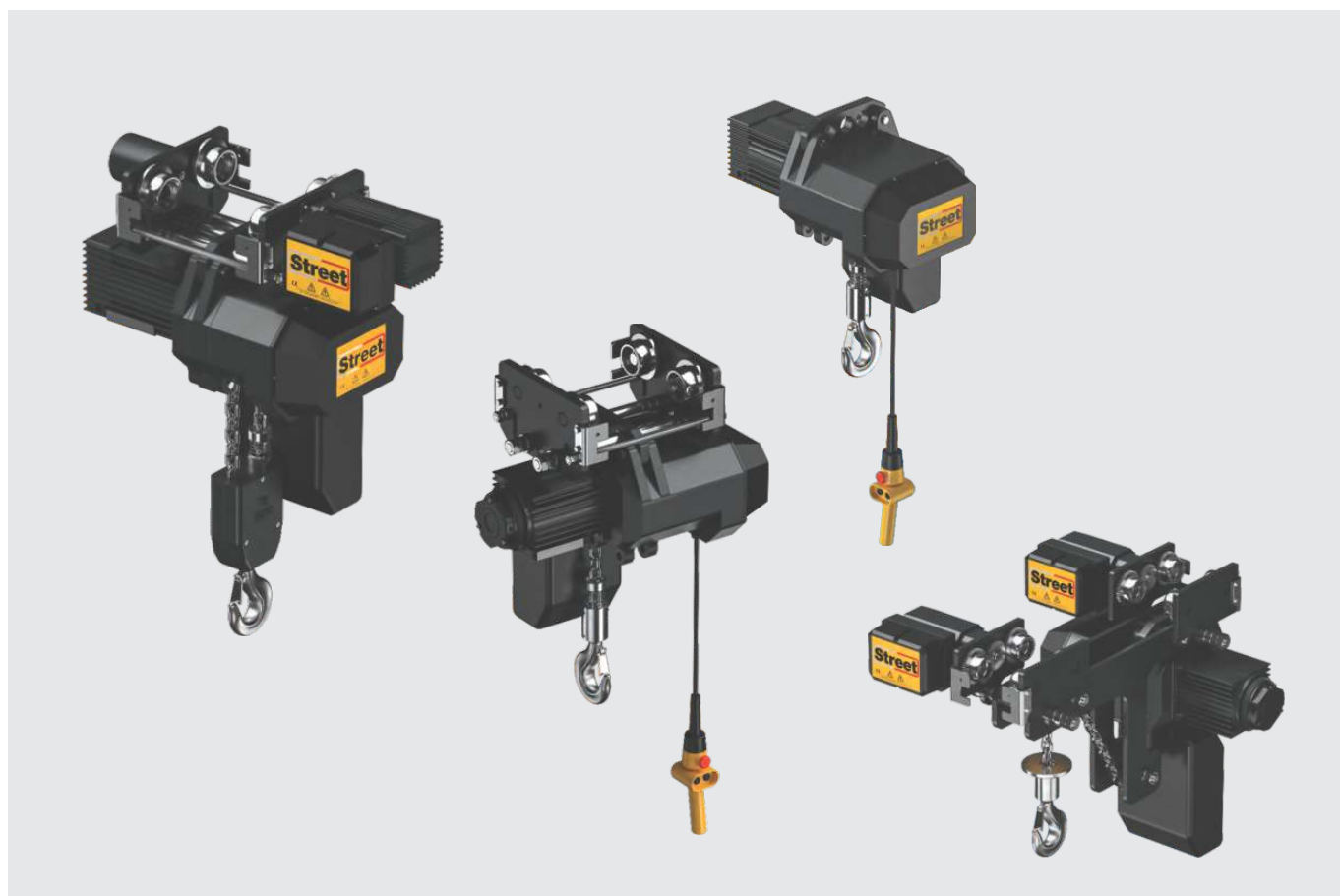
Street LX Electric Chain Hoist is the perfect solution for lifting and transportation of light loads. It provides precision lifting and durability at surprisingly attractive prices. This new generation hoisting technology is based on a highly modular and versatile concept with a large number of hoist and trolley combinations.

The LX range is available in capacities from 125kg up to 5t in single and dual speed options and is available in standard headroom construction or low headroom with chain diverter. LX Chain Hoists are designed for applications with eye suspension or powered, push, or hand-gearled trolleys. All capacities are available at M5 (FEM 2m) with a wide variety of hoist speeds.

Technical features

- Powerful 3 phase motor with Class 'F' insulation
- IP 54 or IP 55 protection and improved ventilation
- Single or dual speed
- 50 or 60Hz solutions with supply voltage options
- Heavy-duty, long-life hoist disc brake
- High-performance, low-noise CNC machined hoist gearbox
- Hardened and heat-treated gears
- Operates efficiently from -20 to +50°C
- Protection against overloading, excessive hoisting and lowering
- Durable chain, drive sprocket and guide
- DIN standard hook with spring-loaded safety catch as standard

Inbuilt power and durability



ZX Wire Rope Hoists

Up to 80t capacity

The new ZX Hoist sets the benchmark in the crane industry. It provides a series of unique benefits for the user. ZX epitomises intelligent design for easy load handling, impressive performance and exceptional safety levels.

The original ZX Hoist has been the company's best-selling product with an unparalleled record for reliability and endurance in a vast range of applications and environments worldwide. While developing the next generation, the best aspects such as the highly successful parallel configuration of the motor and drum have been retained. Apart from this, every other function of the hoist was reviewed and a whole series of innovations were applied to provide new levels of user-friendliness and performance. Every component is optimised using the latest finite element design techniques and a passionate commitment to performance details.

The result is an easy-to-operate, high-endurance hoist incorporating state-of-the-art technology. This is a hoist designed to fulfil customer expectations and improve productivity. It represents unbeatable value for money and is a great investment. The new ZX Hoist offers efficient lifting capacities up to 80t and duty classifications up to ISO M7/CMAA Class F. It is available in different configurations such as,

- Monorail hoists – Low headroom, capacities up to 15t
- Monorail hoists – Twin trolley design for capacities up to 20t and above
- Single rope hoists – Capacities up to 32t
- Twin rope hoists – Capacities up to 80t
- Custom gauge and low headroom trolley solutions

The next generation and truly different



ZX Wire Rope Hoists

Up to 80t capacity

Technical features

- **Extra hoist brake safety** – The ZX Hoist firmly holds the load even in case of motor failure because the brake is mounted on the hoist gearbox. It has a further benefit of lower motor operating temperature.
- **No external hoist gears** – Fully hardened and ground hoist gears are submerged in an oil bath inside a hoist gearbox. This assures extra reliability and low lifetime cost by eliminating open gears in the hoist transmission.
- **Hand brake release** – Provides the ability to lower a load without power to the brake.
- **Solution to prevent 'slack rope' failures** – A unique double band rope guide in which a rotating inner band clamps the rope to the drum, prevents it from pulling through and eliminates failure due to slack rope.
- **Unique fail-safe hoist drum** – All ZX6 and ZX8 hoists have a continuous shaft through the hoist drum, plus specially designed drum retention flanges. These arrangements ensure that should the drum fail, the rope will be retained by the shaft and conversely, should the shaft fail, the retention flanges will retain the drum and the shaft.
- **Hoist gear inspection facility** – The ZX Hoist has a traditional gearbox lid, which allows a service technician to view all the hoist gears in minutes.
- **Additional protection against overloading** – The ZX Hoist has a unique torque arm capacity restrictor between the gearbox and the hoist frame, which senses the total load transmitted by the hoist mechanism and not just the load on the ropes. The device not only protects against an operator accidentally attempting a load greater than capacity but also protects against an overload caused by impedance of hoist rotation. It does not rely on measuring the motor current, which can vary due to other factors.
- **Unique electrical specification and protection** – Certification to CE or to both CSA and UL standards. Every hoist is equipped with an 'hours in service meter'.
- **Variable speed drive** – Variable Frequency Drive (VFD) is standard on the trolley programmed for the ramp and hold with two position controllers. The VFD allows the operator to start in micro-speed and ramp up towards full speed, with the ability to hold any speed in between. Alternatively, the standard controls can simply be programmed for two pre-set speeds.
- **Heavy duty external hoist motor** – The hoist motor is mounted externally for optimum cooling and maximum accessibility. Class 'F' insulation and IP55 (NEMA 3R) protection are standard.



Optional features

- Closed loop Variable Speed Drive (VFD) on hoisting and lowering
- Electrical braking when slowing from fast to slow speed
- **Micro-speeds** - Possible to programme extremely slow micro-speeds for hoisting and lowering, which enhances safety
- Ramp and hold or pre-set speeds hoist and trolley. Multiple speed options are also available.
- **No load express lift** - Increases productivity
- **Load Dependent Speed (LDS)** - Provides optimum efficiency/minimum cycle time with automatic and incremental increase in hoisting and lowering speeds depending on load.
- **Anti-sway control** - This software operates in conjunction with VFD controls to eliminate load swing caused by the travelling movements in one or both axes. Anti-sway provides the operator with greater control over the crane/hoist allowing precise load handling and positioning. Speeds can be safely increased allowing faster cycle times and increased efficiency by as much as 50%. As well as reducing operator fatigue and improving safety, this feature can also extend the life of the crane/hoist as the electrical and mechanical components within the structures are subject to less stress.



VX Wire Rope Hoists

Up to 250t capacity

The smart criterion for choosing high-endurance hoists in intensive process applications is the lifetime cost of ownership. With VX technology, we provide application specific solutions, engineered to last longer and cost less, due to reduced downtime and maintenance. Not only are less service and maintenance required but it is also easier and quicker to perform by virtue of our open plan construction and scrupulous attention to design details. We have several decades of experience designing and manufacturing hoists for the extreme applications. The VX Hoist is a product of that pedigree and it epitomises the special performance levels to the customers who have the most exacting requirements. The VX Hoist is a modular concept, which uses pre-engineered components in both, standard and customised

formats to provide high performance and high reliability for a wide range of demanding applications. VX Hoist provides the solution to applications where one or more of the following are required:

- Capacities up to 250t
- Duty classifications up to ISO M8/CMAA CLASS F
- Super-fast hoisting speeds
- Super-high lifts
- Increased factors of safety
- Arduous environments
- Additional safety and operating equipment
- Special hoist format/construction

*Where the latest innovation meets
traditional heavy-duty engineering*



Features & Benefits

- **Capacities and duty classifications** – The modular concept of the VX Hoist enables us to provide standard solutions from pre-engineered components for an extremely wide range of capacity and duty combinations that fully meet the requirements of international standards including ISO, EN, BS, FEM, HMI, UL and CSA.
- **True vertical lift (zero hook drift)** – The VX Hoist drum is double scrolled (left and right) to provide a zero hook drift throughout the hook stroke for more accurate load positioning. This arrangement also ensures equal distribution of the load on the crane bridge or supporting structure.
- **Braked hoist gearbox** – This important feature provides significantly enhanced safety, reliability and maintainability. The hoist brake holds the load even if the hoist motor is removed or if the hoist motor coupling, motor connection or motor shaft were to fail.
- **Extended hoist drum and rope life** – The pulley/drum ratio and hoist rope diameter are designed to increase the life cycle of these components in accordance with the hoist classification. Double scrolling provides balanced rope reeving, which extends rope and drum life and also enhances safety.
- **Hand brake release facility** – This basic feature, which is not standard on most competitor hoists, can be invaluable in the event of a breakdown or power cut.
- **High-performance hoist motors** – VX Motors are Class F or H and perfectly suit the application requirement, so they are typically rated at 60% ED with overheating protection and IP55 enclosures.
- **Heavy-duty hoist gearbox** – All gears are hardened and ground, fully enclosed and submerged in an oil bath. The gearbox has a gear inspection cover and a motor coupling inspection facility.
- **Electrical braking** – Electrical braking of the hoist motor is standard with VX, which significantly reduces wear on the mechanical hoist brake linings. Offers programmable speed possibilities.
- **Safe load cut-off device** – A capacity restrictor prevents the operator from inadvertently overloading the hoist.
- **Closed-loop Variable Speed Drive (VFD) on hoisting and lowering** – Speeds are varied by means of a frequency inverter in 'closed-loop' with a motor encoder, which provides a high safety level through continuous speed monitoring. As a standard, this system provides the facility of programme hoisting and lowering speeds as well as acceleration and deceleration to suit the application. Gentle acceleration reduces the loading of mechanisms and improves productivity, hoist life and safety.
- **Micro-speeds** – With closed loop monitoring, it is possible to programme extremely slow micro-speeds for hoisting and lowering, which enhance safety when positioning fragile or potentially hazardous loads.
- **Ramp and hold or pre-set speeds hoist and trolley** – The standard control setting is 'ramp and hold' for infinitely variable speeds on both hoist and trolley. Two position controls allow the operator to start in micro-speed and ramp up towards full speed with the ability to hold any speed in between. Alternatively, the standard controls can simply be set for two pre-set speeds. Multiple speed options are also available.
- **No load express lift** – This option provides an economical way to increase productivity by significantly increasing hoisting and lowering speeds when there is no load on the hook.
- **Load Dependent Speed (LDS)** – LDS provides optimum efficiency/minimum cycle time with automatic and incremental increase in hoisting and lowering speeds for medium, small and zero loads. Heavy loads must be handled at slower speeds to maintain safety.
- **Dual wound hoist motor possibility** – VX Hoists are available with dual wound hoist motors below 30kW, which provides an economical two-speed solution.

Precisely customised to your application

Some hoisting applications in process industries or where potentially hazardous or complex loads are being handled necessitate genuinely bespoke solutions. Special processes often require the integration of additional equipment or features. Some examples of loads classified as hazardous

include liquid metal and many of the lifts required in nuclear facilities. To meet these and other exacting requirements, VX Hoists can be engineered with a wide range of optional safety devices and special performance features.

LCS Light Crane Systems

Up to 2t capacity

LCS is an advanced modular monorail and crane building program, which provides flexible ergonomic solutions for workstation lifting and movement. It is powered by the LX Electric Chain Hoist running in structurally optimised light steel profile beam sections. Monorails and single beam cranes are available in capacities up to 1.5t and double beam cranes, up to 2t capacity.

These cost-effective and highly durable workstation cranes are customised for individual application and ideal when handling requirements are localised. LCS cranes may be suspended from the building structure, but in cases where the building will not support additional crane loads, monorail and crane systems can be free-standing.

*Boost productivity with
dedicated workstation cranes and monorails*



LX Single Girder Cranes

Up to 5t capacity

Highly efficient, low-maintenance and versatile technology using the Electric Chain Hoist. LX Single Girder Cranes provide a surprisingly cost-effective and durable solution with maximised utilisation of the production area. Lighter crane weights and wheel loads result in reduced cost of building/supporting structure. All motions of the crane are electrically operated from a mobile push-button pendant or remote radio controller. Hoisting is powered by the LX Electric Chain Hoist, which is designed with compact dimensions to optimise both hook height and side hook approaches.

Where headroom is a problem, an ultra-low headroom model is available.

A very simplified solution



Wall Travelling Jib Cranes

Up to 12.5t capacity

Our Wall Travelling Jib Crane is a unique design concept with a mobile cantilevered jib arm to give hook coverage along the entire length of a production area. The Wall Travelling Jib Crane is designed for operation on a lower level beneath a large travelling crane system. This crane provides additional handling possibilities and ensures smooth and trouble-free material handling between different working areas.

The Wall Travelling Jib Crane is available either with the Street LX Chain Hoist or the ZX Wire Rope Hoist and can be designed for outreach of up to 10m depending upon the load capacity.



An increasingly popular solution

LX Slewing Jib Cranes

Up to 20t capacity

Jib Cranes can effortlessly assist and multiply human efforts handling loads precisely up to 20t. Jib Cranes are useful especially for loading or unloading of work pieces on machine tools and become an inseparable part of a standalone workstation.

Column Mounted Jib Cranes are necessary when no appropriate support is available near a workstation and can slew through 360°. Angle of slew can be limited to smaller angles if required. Wall Mounted Jib Cranes are ideal solutions for workstations located near walls or vertical structures. The hoisting equipment used may be Street LX Chain Hoist or ZX Wire Rope Hoist. Hoist traverse and slew can either be manual or powered with the control pendant suspended from the hoist.



Economical solution for work stations

ZX Single Girder Overhead Cranes

Up to 25t capacity

ZX Single Girder Overhead Cranes truly set the global standard for excellence with an unbeatable combination of safety and operating features. We know our customers seek the best price/performance ratio and we are confident that this technology delivers just that! If you are seeking the highest levels of reliability and performance with significantly lower maintenance costs, ZX technology will deliver.

ZX Single Girder Overhead Cranes are available in a range of SWLs up to 25t and are fitted with the proven ZX Hoist. Their unique design with a braked gearbox provides significantly enhanced safety, reliability and maintainability as compared to braked motor hoists. These cranes are suitable in small buildings where the available headroom is very less. Single Girder Cranes are usually supplied with a control pendant and festoon cable supply along the crane bridge and Radio Remote Control can be supplied as optional.



A simple, economical and versatile solution



ZX Underslung Cranes

Up to 25t capacity

ZX Underslung Cranes are suspension cranes that run on tracks forming part of the roof structure. This design eliminates the need for runway columns hence cranes can be suspended in the centre of large assembly areas without impeding access or work flow on the factory floor. ZX Suspended Crane Systems can be designed to incorporate cantilevers (lateral overhangs), which allow the hoist and load to travel beyond the runway track line.

Street is the world leader in the design and manufacture of multi-span suspension cranes for wide span buildings such as aircraft hangars and aerospace manufacturing facilities. Street's multi-span suspension cranes can provide full hook coverage for overall building spans greater than 100 metres.



Advanced engineered solutions



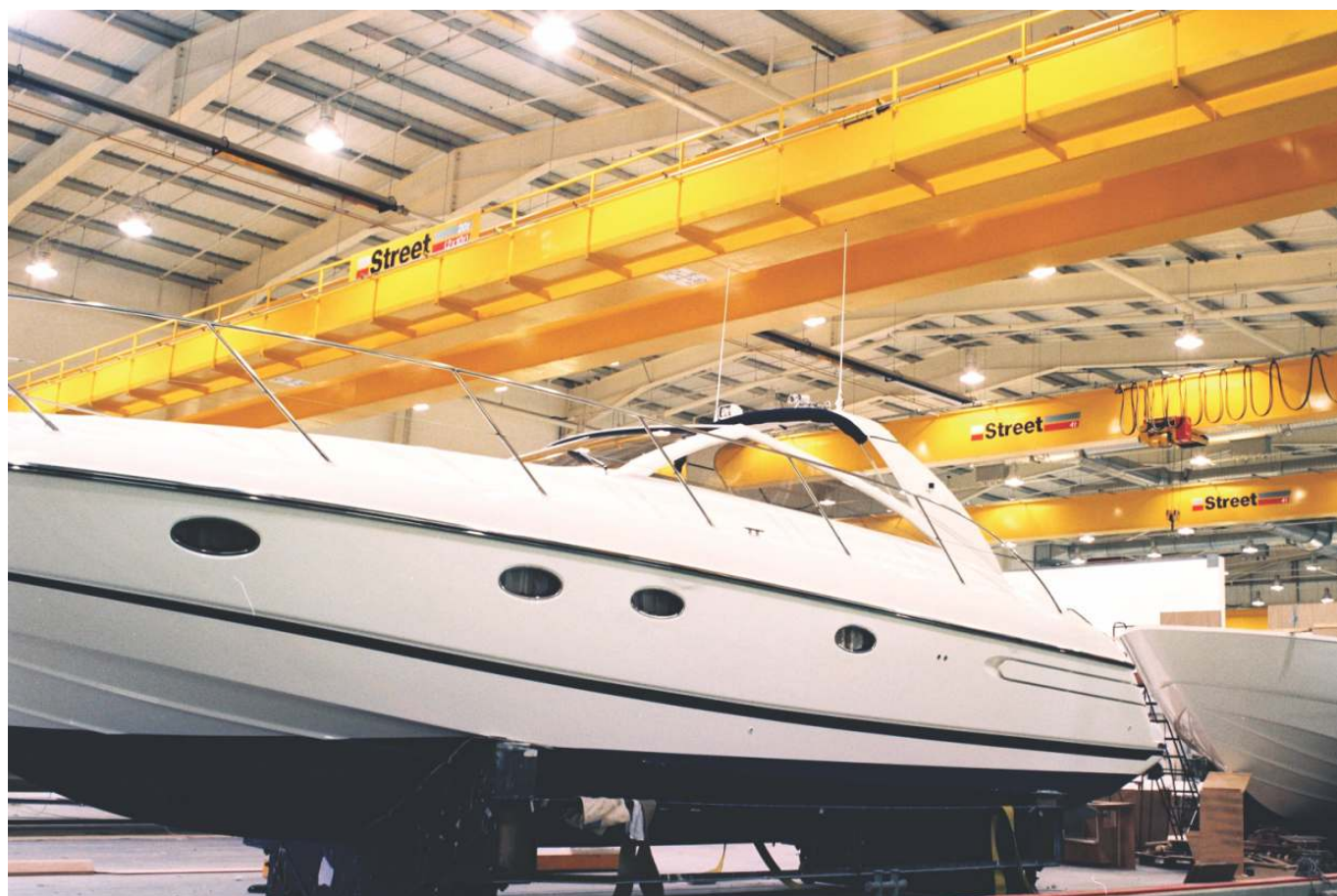
ZX Double Girder Overhead Cranes

Up to 80t capacity

ZX Double Girder Cranes provide tailor-made solutions for the advanced load handling requirements of the modern industry. They use the appropriate model of the ZX Wire Rope Hoist and can offer lifting capacity up to 80t. A range of different girder constructions are available to optimise the available space in new and existing buildings. In most applications, a Double Girder Crane will provide a higher top hook position in a given headroom that can be achieved with a single girder. In extreme cases where there is restricted space above the track, a submerged construction hoist trolley design is available. The double girder design is more versatile and options include walkways, auxiliary hoists and a variety of special speed and control systems.



Exceptionally high performance and reliability



Technical features

In addition to the standard features offered by the ZX Wire Rope Hoist, ZX Double Girder Cranes boast of several other features such as,

Choice of effective control systems on crane travel motions

- Two-speed motor drive with soft starting inertia fly wheels plus auto-timer control through slow to fast, which gives extremely fine control without the use of electronics
- SC Smartdrive sensor-less current vector control system with LED status diagnostics, condition monitoring and removable memory board
- Speeds, acceleration and deceleration are fully programmable

Heavy-duty double band rope guide provides improved reliability

- Inner band holds the rope tight to the drum to prevent rope backup and damage if the operator causes 'slack rope'
- Outer band guides the rope perfectly into the drum scroll

Patented safe load cut-out device prevents overloading

- The device is situated in the hoist gearbox torque arm and therefore measures all the load that the hoist mechanism is transmitting (not just the load in one or two ropes)
- Actuated directly by the load and does not rely on measuring the electrical current

Adjustable DC disc brakes on travel and traverse motions for controlled braking

- Full range torque adjustment allows stopping distances to be adjusted to suit the application

Lifetime cost of ownership is the intelligent comparison and ZX technology is designed to give reduced service and maintenance costs

- ZX open-plan hoist design reduces the time and costs of maintenance and service tasks because they can be executed without dismantling the hoist
- External hoist brake, motor and gearbox for easy access
- Hoist gear inspection cover and motor coupling inspection facility
- Non-captive proprietary switchgear

Exceptional electrical protection and monitoring

- Overheating protection of the hoist motor, hours in service meter, protection against phase failure and incorrect phase sequencing and under voltage & over current protection



VX Double Girder Cranes

Up to 200t capacity

These are heavy-duty and high-capacity cranes customised to suit individual requirements. VX Double Girder Cranes epitomise the special quality and performance we can offer to those customers who have particularly exacting requirements. The VX Open Winch Hoist at the heart of these cranes is of an exceptionally rugged and robust design. Not all crane manufacturers have the pedigree to produce efficient and reliable solutions for the most performance-orientated applications but ElectroMech and Street have vast experience designing engineered cranes for heavy industry.



When applications get a little more demanding



Operating and safety features

VX Open Winch Hoists are designed for applications over and above the capabilities of standard hoists

- Duty classifications up to M8 (CMAA Class F)
- Capacities up to 200t

VX Open Winch Hoists are more robust and durable than standard hoists

- The simple rugged construction is significantly more tolerant of the type of conditions that prevail in some heavy industrial applications

Zero hook drift for precision lifting

- True vertical lift through the full hook stroke
- Double scrolled hoist drum and a balanced rope reeve eliminate the need for rope guides, which can be troublesome in some heavy industrial environments

Unique hoist design with braked gearbox provides significantly enhanced safety, reliability and maintainability compared to braked motor hoists

- The hoist brake holds the load even if the hoist motor is removed or if the hoist motor coupling, motor connection or motor shaft were to fail
- Lower operating temperature in the hoist motor because heat generated by the hoist brake does not soak into the host motor

For heavy industrial process cranes the intelligent comparison is lifetime cost of ownership and VX design reduces service and maintenance costs

- Open plan hoist design reduces the time it takes to do maintenance and service tasks because they can be executed without dismantling the hoist
- External hoist brake, motor and gearbox for easy access



Portal and Semi-portal Cranes

- Single Girder construction (Up to 25t capacity)
- Double Girder construction (Up to 200t capacity)

This type of crane is sometimes referred to as a **Gantry Crane** or **Goliath Crane** with capacities ranging from 1t through to 200t. Portal cranes are ideal for outdoor applications such as stockyards and precast segment yards where they provide lifting and transportation without the cost of a building structure. They also provide the best solutions for indoors where existing structures are not suitable for the loads imposed by overhead cranes or where additional supporting steelwork would result in the loss of floor area. These cranes can be supplied in Single Girder or Double Girder options depending on the requirements of SWLs, speeds, heights of lift and other characteristics.

The Single Girder Portal Crane can be hoisted through a standard Electric Wire Rope Hoist.

For a Double Girder Portal Crane, the hoisting can either incorporate standard crabs or fully customised Open Winch Type Crabs (up to 200t or more). 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 of 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).

The computer optimised and modular structures have been developed by our talented design team using advanced finite element analysis to ensure stability and efficient strength to weight ratio.

A Goliath range ideal for outdoor applications



We can 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-portal Crane can be provided. This can even be a rail-less system. Special crane wheels with advanced polyurethane tyres run directly on the factory floor and a roller guide system at the high level ensures that the crane runs true.
- 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
- Two or more cranes working in tandem (synchronised motions) for handling long and heavy loads



Customised Solutions

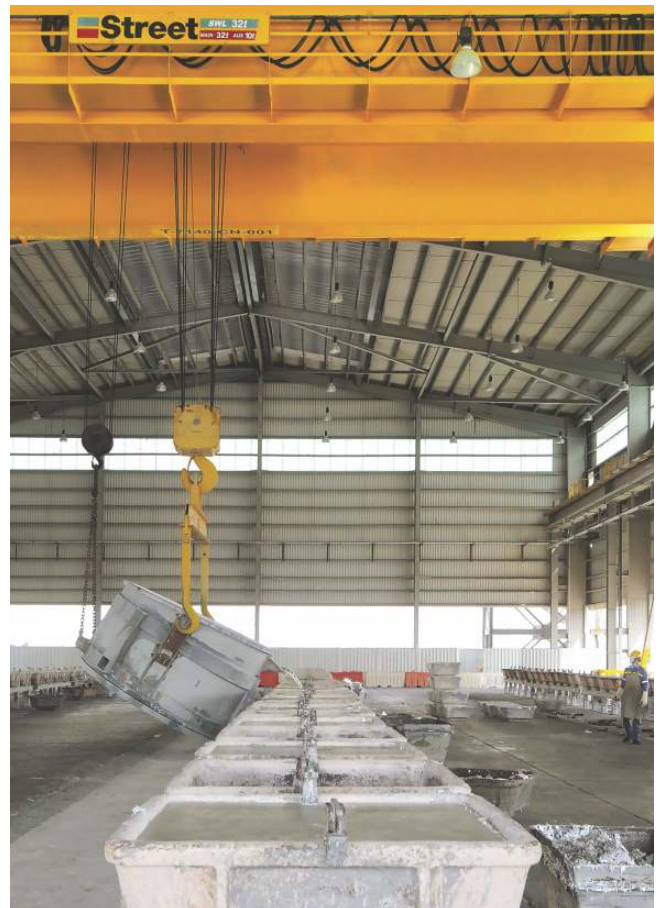


Some mechanical handling problems demand genuinely bespoke solutions. ElectroMech and Street have several decades of experience in designing and engineering cranes and equipment that are truly unique.

We offer solutions designed around our proven crane systems such as double girder cranes, portal cranes and transfer trolley system. The system solutions are developed using these cranes with other flexible options such as auxiliary hoists, dual hoists, multiple cranes on same girders, cranes in multi-tier formation, rotating crab/turntable, special hooking arrangements, sophisticated controls and radio remote control.

Along with overhead cranes, transfer trolleys with remote control provide more flexibility to the overall handling system. Customised system solutions developed jointly by ElectroMech and Street, prove to be versatile, economical and most appropriate for the requirement. Some of the industries with unique requirements include defence, aerospace, nuclear, metals processing and waste-to-energy.

Bespoke solutions for a range of applications



Process industry cranes

We have a track record of providing solutions in special structures, process integration, extreme duty cycles and temperatures, special controls, automation and specially engineered safety equipment and systems. Typical special crane applications include:

- Duty classifications up to M8 (CMAA Class F)
- Automatic cranes
- Multi-span suspended crane systems
- Cranes with rotating hoists
- Process integrated cranes
- Liquid metal cranes
- Grabbing cranes
- Nuclear application cranes



Customised Solutions



Shaft/Tunnel Mucking Systems

We have developed a unique and cost-effective bulk material handling system for the extraction and disposal of overburden generated during the construction of tunnels. These systems can efficiently remove overburden generated during the construction of deep shafts that 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 200m. The hoisting speeds are in the range of 30m/min to 40m/min. Several such systems designed and manufactured by us are being used by major construction companies all over the world. These include projects where tunnelling is involved. For example,

- Rail and road construction
- Underground drinking water schemes
- Underground tunnels for sewerage
- Tunnelling required in hydroelectric projects

Cost-effective solutions for tunnelling operations



Our one such prestigious project is in Abu Dhabi where we have supplied specially designed Tunnel Mucking Systems for the Strategic Tunnel Enhancement Program (STEP) of Abu Dhabi Sewerage Services Company (ADSSC). Our involvement in this project is through an Italian construction and civil engineering giant, Impregilo S.P.A. These systems are developed using our Double Girder Gantry Cranes capable of lifting 30t load up to 90m lift.



Expert Services

Experience competence in industrial overhead crane services

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

cranedge

Services By ElectroMech

**Ensure high crane uptime,
high productivity and higher profitability.**

ElectroMech is well-known for the most efficient services for all makes of Industrial Overhead Cranes. These services, available under the Cranedge brand, have become a benchmark in several parts of the world. Cranedge services focus on preventive maintenance to ensure high level of workplace safety and avoid production losses due to sudden crane failures. With this approach, ElectroMech is successful in ensuring nearly zero downtime of cranes.



Besides the existing customers of ElectroMech, our services are 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 experienced and trained teams are strategically located across the world and are supported by a strong logistics and inventory management system with quick access to spares.

Cranedge services cover almost all types of overhead cranes used in the safe zone as well as hazardous areas (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 Cranedge services is SAFETY.



Global Headquarters

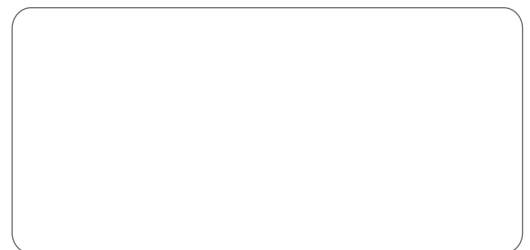
**ElectroMech Material Handling
Systems (India) Pvt. Ltd.**

Gat No. 316, At post Kasar Amboli,
Tal. Mulshi, Dist. Pune 412 111 INDIA
Telefax : +91-20-6654 2222
E-mail : cranes@emech.in

KSA Office

P.O. Box 76303 Postcode 31952
Khobar, Eastern Province,
Saudi Arabia
Tel. : +966-558081221

Channel Partner



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International Business Headquarters

ElectroMech FZE

LOB 19 1002, P. O. Box 263019
Jebel Ali Free Zone,
Dubai, UAE

Tel.: +971-4-8857466
Fax: +971-4-8857655
E-mail: contactus@emech.ae



www.emech.com

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