NEW tyton™

eRTG - A safe, flexible and advanced technology solution for handling long and heavy objects



Proudly Built In India
By Team ElectroMech

Patented Control Technology

ElectroMech
Solutions | Service | Satisfaction

tyton™
eRTG

A safe, flexible and
advanced technology solution for
handling long and heavy objects

About ElectroMech Group

ElectroMech is a USD 100 million, multinational group in Material Handling with its global headquarters in Pune and having a presence in 60 countries. We have manufacturing plants in the UAE, Indonesia and Saudi Arabia with the Global Design & Development Centre and Asia's largest overhead crane manufacturing facility in Pune, India.

We are an innovation-led, customer-centric, technology-driven, fast-progressing global group, which offers advanced Material Handling Solutions to a wide spectrum of industries for the most challenging applications.

We are serving clients from various sectors such as automotive, railways, shipbuilding, aerospace, energy, metal, nuclear, defence, heavy engineering, process plants, construction, infrastructure, warehousing and logistics.

Over the years, we have earned the trust of our customers as a reliable partner for providing solutions to their material handling challenges through our vast range of cranes. This has led us to add a new dimension to our range and we are proud to introduce 'tyton™', an Electric Rubber Tyred Gantry (RTG) Crane for the global market.

Legacy of over 4 decades

Area of 140,000sq.m

1000+ employees globally

300+ service experts

Over 15,000 solutions globally

Major share of orders from existing customers



Electrically driven
No hydraulics involved

Balanced load distribution
Load balanced in the centre

Flexibility
Can be operated on uneven surfaces

Turns effortlessly
Can easily negotiate turns

High safety
Safe handling of long, heavy and odd-shaped objects

Low cost of ownership
Low maintenance, high uptime, high productivity and low expenses on developing infrastructure

Reliability
High-quality equipment powered using proven technology and backed by assured service support

Versatility
Capability of working on various surfaces

Portability
Can be easily disassembled and transported

Robust structure
Designed for dynamic loads

Gradeability
Up to 5%



About tyton™

tyton™ is an electrically driven Rubber Tyred Gantry Crane. The Rubber Tyred Gantry Crane, popularly known as RTG the world over, is a tyre-mounted gantry crane that can be moved anywhere easily across large outdoor yards or factories.

Being tyre-mounted, it does not require permanently fixed rails, which means extreme flexibility in movement across the shop or yard area.

This revolutionary equipment has been completely designed, developed and manufactured in-house by ElectroMech.



Anti-Swivel Device

Lift long loads safely & easily



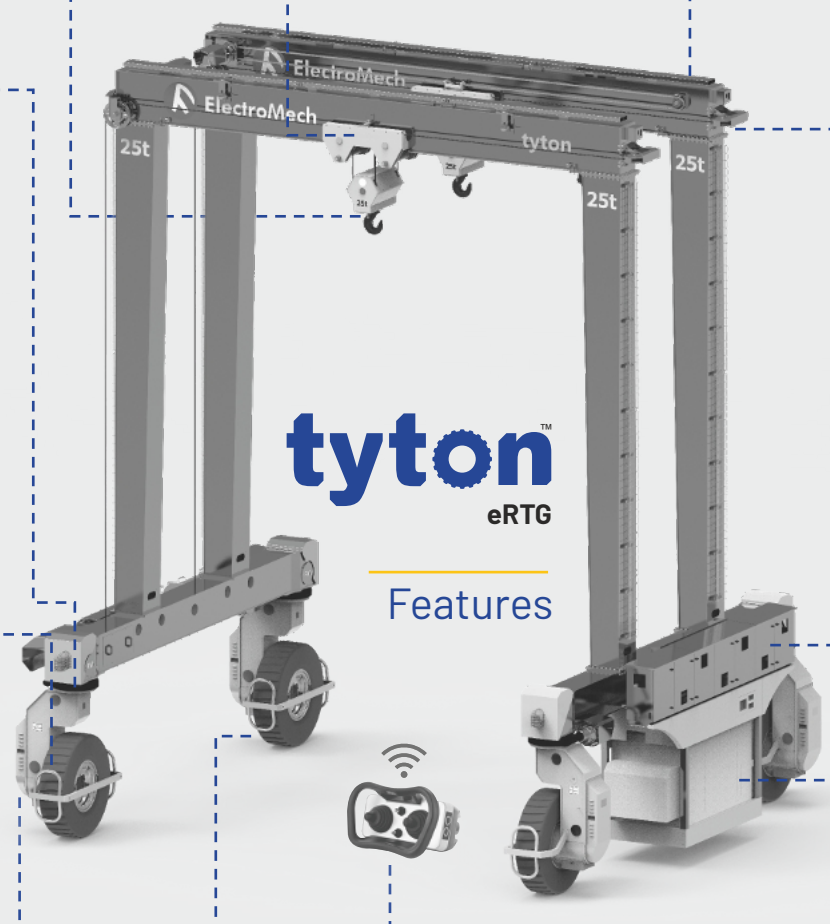
Trolley & Hook Block

Sturdy design with anti-derailment guard with added safety



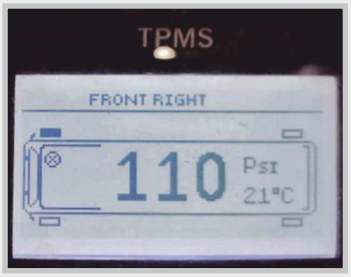
Ease of Access

Major components can be accessed easily for maintenance



tyton™ eRTG

Features



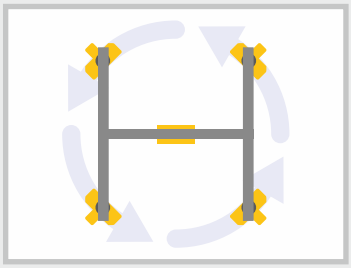
TPMS

Tyre Pressure Monitoring System ensures that tyres are correctly inflated for safe operation



Jacking Provision

For easy replacement and fixing of tyres within a short time



Steering of Tyres

Flexibility to move in various directions



Remote-controlled

All operations are controlled via radio remote device for operators' safety and load visibility



Structural Flexibility

Makes it possible to travel over uneven surfaces with gradient up to 5%



Travel Off-Road

Travels over asphalt, concrete or dry compacted soil - effortlessly



Touchscreen HMI Display

Monitor crane status and operating conditions - seamlessly



Self Propelling

Diesel Generator or Battery Pack on crane as power source (No separate power supply required)

Control Panel

All motions controlled through Variable Frequency Drive (VFD) & PLC

ElectroMech
Solutions | Service | Satisfaction

Patented Control Technology

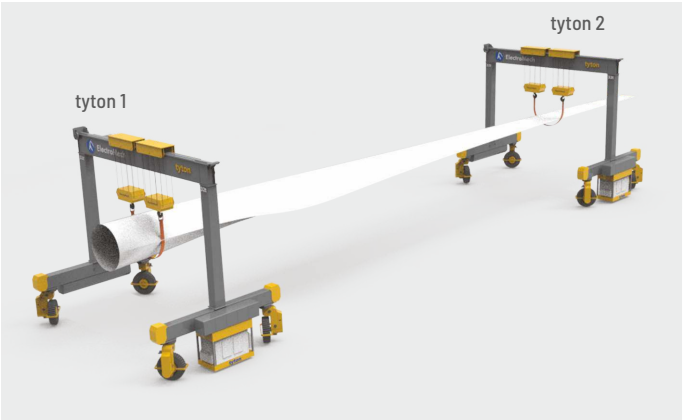
Working of tyton™ and its constructional features

tyton™ is an innovative material handling solution making lifting and handling operations safe and easy across a range of industries.

- Self-propelled equipment driven by electric motors with VFD controllers ensures optimised power consumption.
- **Powered by EM Steersense –** Electrically driven, electronically controlled and synchronous steering.
- Designed to operate on gradients and various other surfaces adds the all-important feature of flexibility required in material handling equipment.
- The rigid structure is designed to take dynamic loads, making it sturdier and safer.
- Components can be easily accessed for routine maintenance.
- Can be easily assembled and disassembled for quick relocation.

tyton™ is an innovative solution to move loads easily in all directions and on various surfaces. These features make it the perfect choice for industrial, infrastructure, wind energy and other sectors to competently address various load-handling challenges.

Tandem operational tyton™ cranes



tyton™ in action

Pivoting motion using 2-wheel steering with 20t load



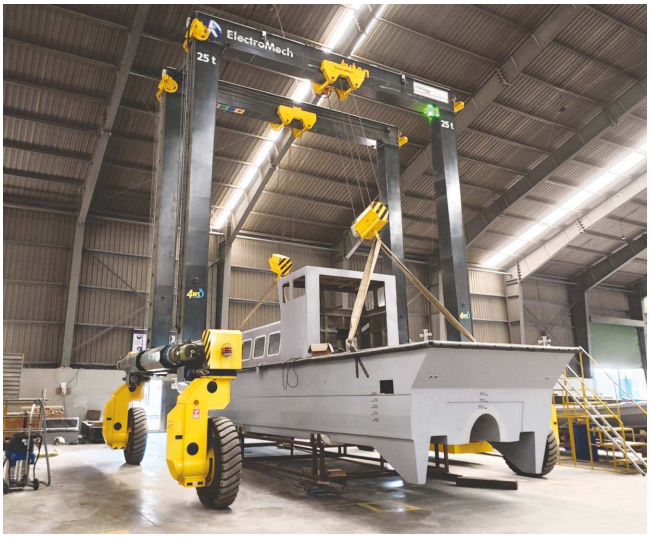
Handling of large transformers in a storage yard



Handling of precast segments at a casting yard



Handling of fiberglass boats



tyton™ eRTG

Patented Control Technology

Steel pipe handling

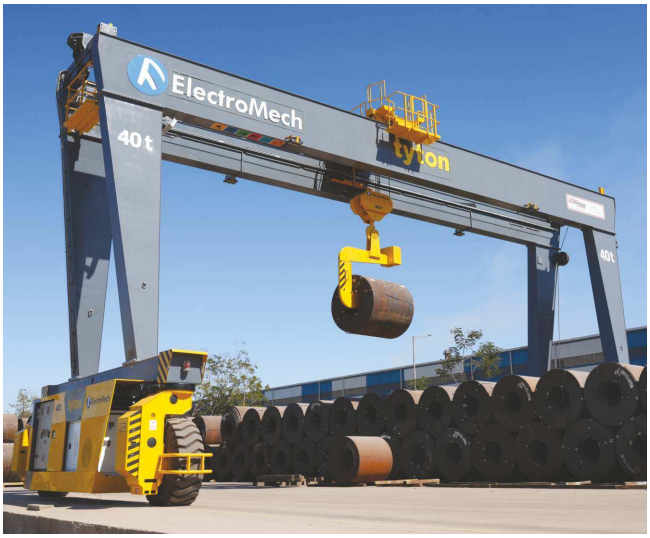


Long fabricated beam handling



A safe, flexible and advanced technology solution for handling long and heavy objects

Steel coil handling



Handling of 20 feet shipping container



Steel plate handling



Valve parts handling (indoor application)



Portability

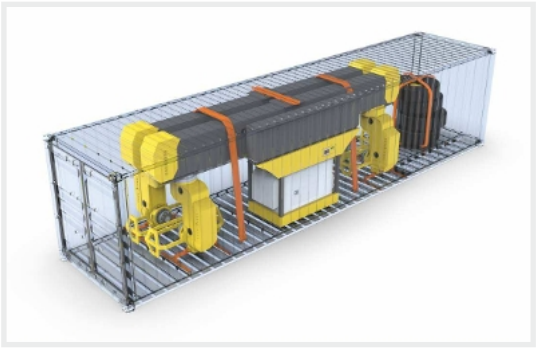
tyton™ can be easily assembled and dis-assembled. It is possible to completely dismantle and load the crane onto a trailer within a short duration for easy relocation. This ensures that your productivity can be maximised across multiple project sites.

tyton™ has been designed with the following considerations to simplify your work processes:

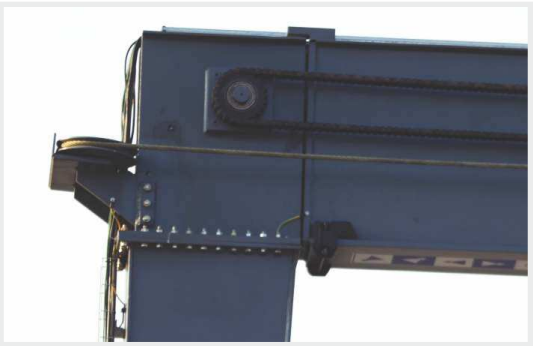
- **Machinery components are located at the ground level for easy maintenance**
- **Plug and play wiring systems to facilitate faster setup**



- **Structural components fit into a standard shipping container**

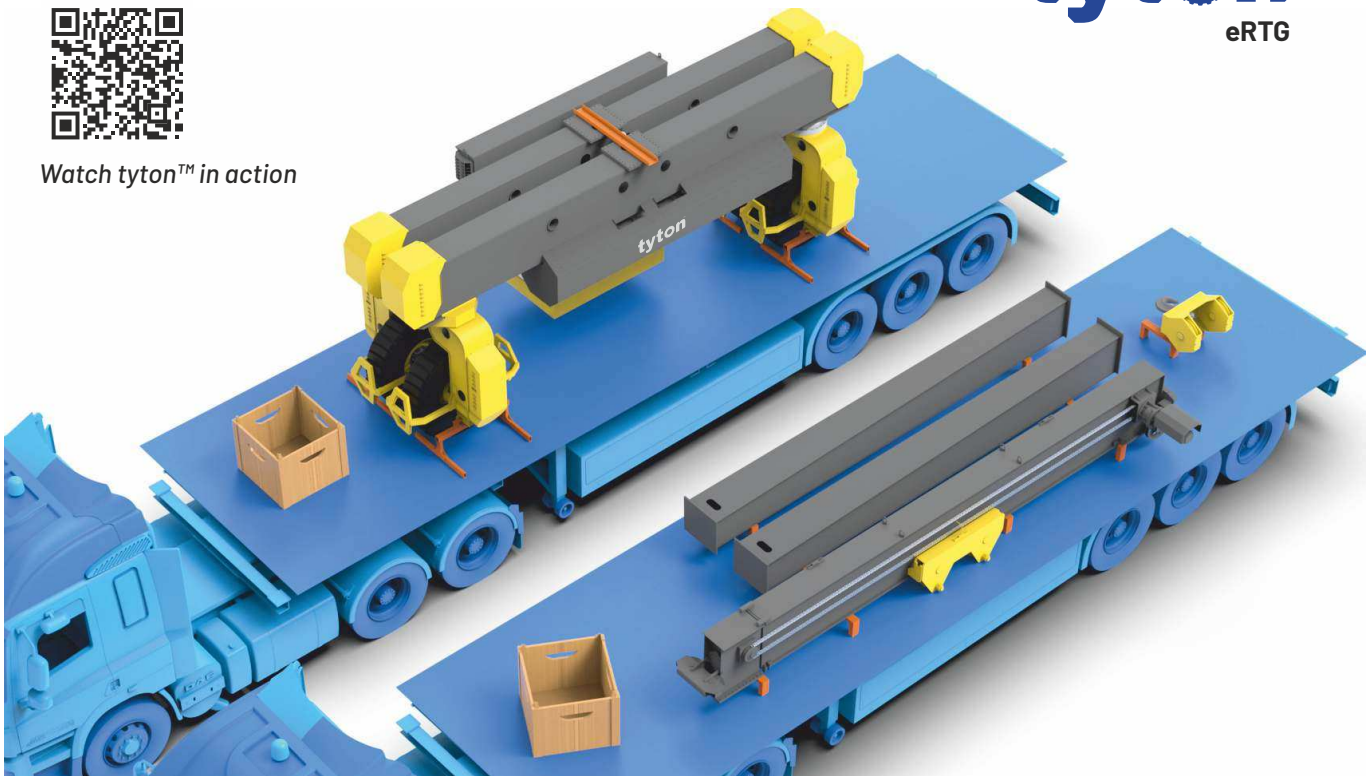


- **Bolted joints to quickly separate structural components**



- **Easy to load crane components onto a standard trailer**

Watch tyton™ in action



Technical overview

SWL (Safe Working Load)		10t	16t	20t	32t	40t	50t	63t	80t	100t	125t	150t	200t
Design Type	Single girder	✓	✓	✓	✓								
	Double girder			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Span		Customizable as per request											
HOL (Height Of Lift)		Customizable as per request											
Power Source	Diesel generator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Battery mounted on crane	●	●	●	●								
Steering	2-Wheel steering	✓	✓	✓	✓	✓	✓	✓	✓				
	4-Wheel steering	●	●	●	●	●	●	●	●	✓	✓	✓	✓
Pneumatic Rubber Tyre		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Speeds	Long Travel	Standard speed of 25m/min to 40m/min (and customized speeds)											
	Cross Travel	Standard speed of 10m/min to 15m/min (and customized speeds)											
	Hoisting	Standard speed of up to 4m/min (and customized speeds)											
Gradeability		Up to 5%											

● Optional equipment

Safety features

- Hoist limit switch (Rotary)
- Cross-travel limit switches
- Trolley position sensor
- Auditory + Visual warning during motion
- Programmed motion safety interlocks
- Anti-derailment guard on CT mechanism
- Load anti-swivel device on hook
- Tyre pressure monitoring system
- Fire extinguisher
- Emergency stop at each corner
- Emergency stop on Radio Remote Control (RRC)
- Anti-drop device against tyre puncture
- Overload protection
- Gradient control
- Gravity limit switch for hoist





Convenience features

- Radio Remote Control for operation
- Modular structure for portability
- EMote for cloud - EMote
  IoT-powered crane monitoring
- Inbuilt jacking provision for tyre removal
- Touchscreen HMI display
- 'Plug and Play' wiring system

Optional features

- Operator's cabin
- Load display
- Camera system
- Underbridge light

EMote:
Smart crane monitoring at your fingertips

- EMote brings smart analytics and remote diagnostics to your tyton™, ensuring greater uptime, safety and efficiency.
- A network of sensors and monitoring devices installed on the crane collects and transmits real-time data, providing instant access to both customers and Cranedge teams through a secure portal.
- With EMote, you can monitor your crane remotely, without being physically present at the site.
- It helps prevent disruptions, extends the life of critical components, enables better workload allocation for improved productivity, and contributes to energy efficiency.
- EMote delivers actionable insights, including adherence to safety norms, component wear data, usage statistics and maintenance alerts—empowering you to make informed decisions and maximise crane performance.



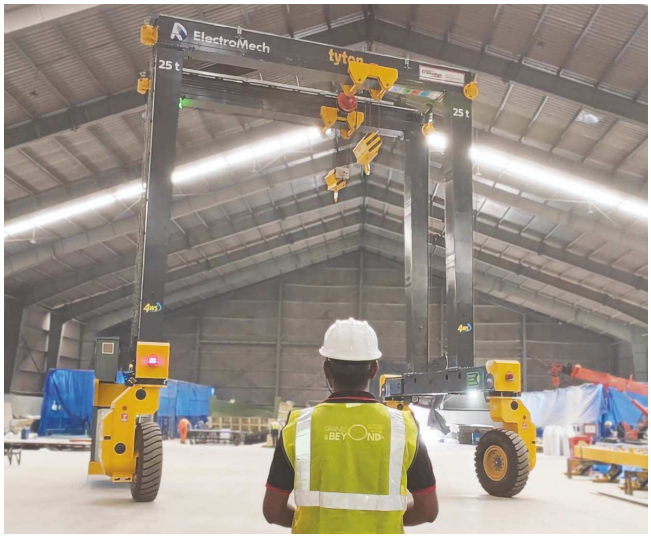
Cranedge: Complete service assurance for tyton™

Each piece of tyton™ equipment is backed by benchmark service support from Cranedge—the exclusive service subsidiary of ElectroMech. With its proactive service approach, Cranedge ensures peak performance of your tyton™ equipment, whether it is operating in harsh outdoor yards, handling complex material movement or working continuously in demanding conditions.

cranedge
upkeep • upgrade • upraise

Cranedge Competence:

- A team of 250+ trained crane specialists, strategically located across India.
- Comprehensive lifecycle support including 24×7 emergency assistance, preventive and predictive maintenance, retrofits, audits, and operator training.
- Proven expertise across multiple crane makes.
- Reliable support backed by the latest technical know-how and modern service infrastructure.
- Ensures peace of mind, sustained operational excellence, and reduced total cost of ownership.

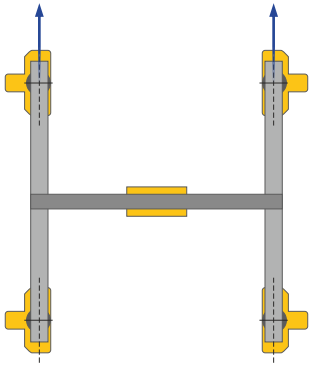


For more details
Visit : **www.cranedge.com**
E-mail : enquiry@cranedge.com
Call : **Toll-free 1800 209 0010**

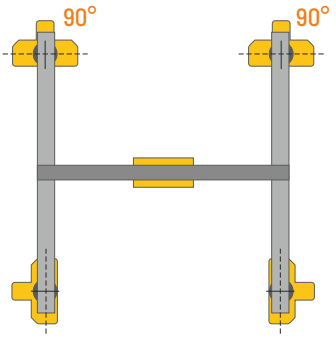
Powered by EM Steersense

Independent, Synchronized, Variable Steering Control

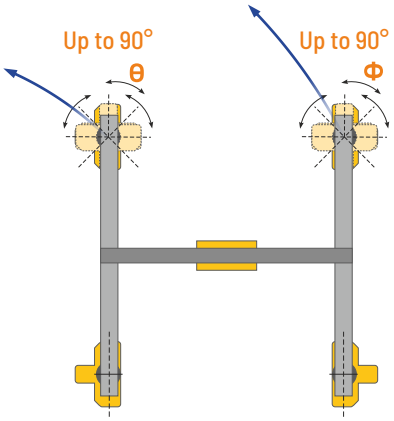
2 - Wheel Steering (2WS)



Straight line movement

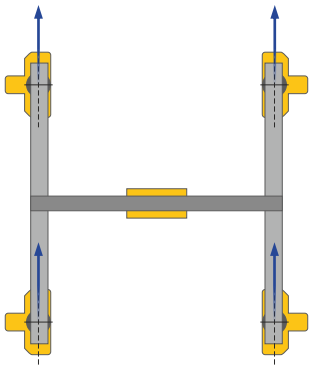


P Parking position

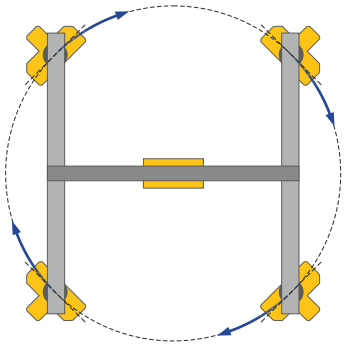


Taking a turn at any variable radius with its Steering Geometry Intelligence

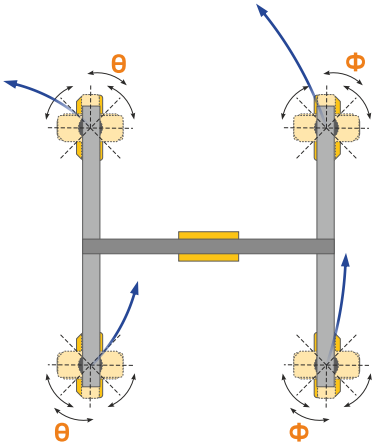
4 - Wheel Steering (4WS)



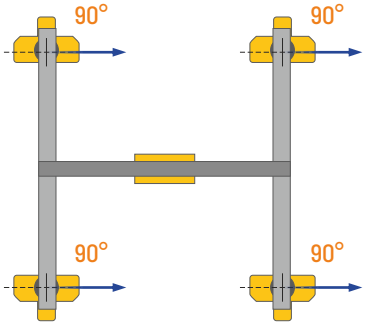
Straight line movement



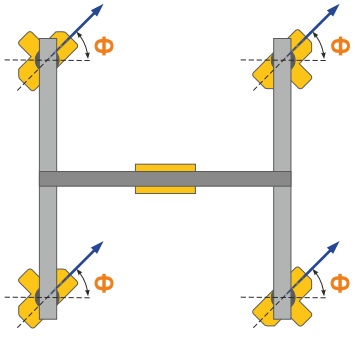
Polar movement (carousel)



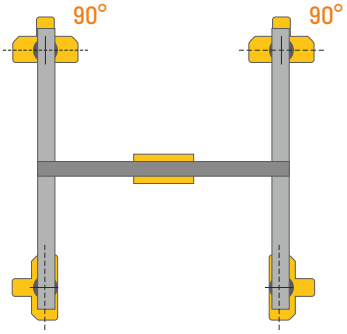
Taking a turn at any variable radius with its Steering Geometry Intelligence



90° movement (perpendicular direction)



Diagonal movement (crab)



P Parking position

Sectors that can benefit by using tyton™

tyton™ is an ideal choice for various infrastructure construction projects where flexibility in material handling is important. It can be used to handle various objects, such as precast segments, pipes, concrete slabs, steel structures, transformers, containers, etc.

Besides construction projects, tyton™ is useful in several other industries. For example, in the wind energy sector, tyton™ is ideal for handling tower sections, wind blades and turbines. In the process equipment manufacturing industry, tyton™ is helpful in transporting equipment to storage yards and further loading it on to the trailers.

It is also useful where the terrain is not suitable to install gantry cranes or where temporary facilities are being used.

Pipe handling



Precast segment



Coil handling



Steel plate handling



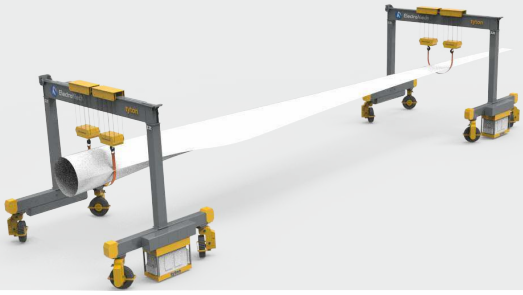
Transformer handling



Windmill tower



Windmill blade



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

Pt. ElectroMech Manufacturing Industries

Jl. Jati Raya Blok J 10 No. 01B,
Newton Techno Park, Desa Serang,
Cikarang Selatan, Kab. Bekasi,
Jawa Barat 17530, **Indonesia**

Tel.: +62 21 899 23111
E-mail: contactus@emech.id

ElectroMech Industry Company

Al Thabat Building, Office # 4,
2nd Floor, King Saud Street,
Shamaliya, P. O. Box 20216,
Al Khobar, Eastern Province,
Kingdom of Saudi Arabia

Tel.: +966- 53 496 6487
E-mail: contactus@emech.sa

Electro Mech Equipment Trading LLC

Shop No. 8, Sector No. 44,
Plot No. 13, Mussafah Industrial
Area, **Abu Dhabi, UAE**

Tel.: +971-2-5588035
Fax: +971-2-5588235
E-mail: contactus@emech.ae

ElectroMech

Solutions | Service | Satisfaction |

ElectroMech Material Handling Systems (India) Pvt. Ltd.

Gat No. 316, At post Kasar Amboli,
Tal. Mulshi, Dist. **Pune** 412 115 **INDIA**

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

Manufacturing Facilities & Offices

India | Indonesia | Saudi Arabia | UAE

Factory : **Pune**
Offices : **Bengaluru | Chennai | Delhi | Kolkata | Mumbai**

www.emech.com

follow us on:

© Copyright 2025 | All names, logos and monograms used in this brochure are registered trademarks of respective companies. Technical changes reserved.

tyton - 7 / 0825 / D / KaleidoscopeB2B.com