

NEW



**STC** | Steerable  
Transfer  
Car

 **ElectroMech**  
| Solutions | Service | Satisfaction |





**Steerable  
Transfer Car**

**A safe, robust and technologically  
advanced solution for a range of  
material handling requirements**

## **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.

With our experience of over 4 decades in the material handling sector, we have now introduced an innovative solution for handling heavy materials – the new Steerable Transfer Car designed to suit indoor and outdoor applications in a variety of sectors.

**Legacy of over 4 decades**

**Area of 140,000sq.m**

**1000+ employees globally**

**Over 15,000 solutions globally**

**Major share of orders  
from existing customers**





## Gradeability

Capable of operating on floor with gradient up to 5%

## Versatility

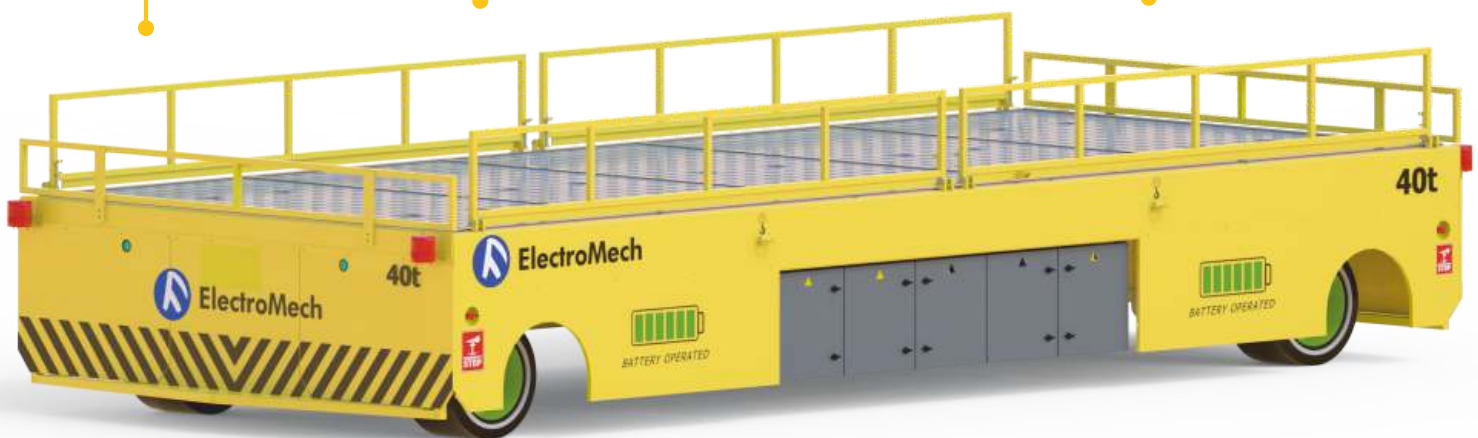
Capable of operating on concrete and asphalt surfaces

## High safety

Incorporated with safety devices and sensors for safe operation

## Reliability

Proven technology equipment from ElectroMech with assured service support



## Zero carbon emission

Battery operated and no diesel fumes. Noiseless operation.

## Manoeuvrability

Can easily negotiate turns

## Electrically driven

No hydraulics or oil spillage, precise control due to electrical controls

## Robust structure

Designed for operating heavy loads safely

## Steerable Transfer Car (STC)

- Steerable Transfer Car (STC) is a safe, robust and technologically advanced solution for a wide range of material handling applications in industries
- Heavy-duty, self-driven, steerable transfer cars are available in a wide range of capacities and dimensions to meet the customers' challenging requirements
- STCs are equipped with rubber tyres that allow great manoeuvrability across large yards, workshops or factories

## Steerable Transfer Car (STC) Features



**Charging Plug**  
Easily accessible battery charging point



**Battery Status Display**  
Easy monitoring of the status of the battery



**Camera with Display (Optional)**  
Operator benefits due to improved visibility of the surroundings



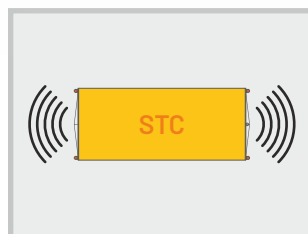
**Operator's Cabin (Optional)**  
Useful for outdoor operations and areas requiring long travelling distance



**Radio Remote Control**  
All operations are controlled via a radio remote device for better manoeuvrability and the operator's safety



**Front & Rear Safety Guard**  
Structural safety guards at the ends to avoid collision during travel



**Anti-collision Sensor (Optional)**  
Electronic obstruction detection sensor



**Flashing Light with Built-in Hooter**  
Audio-visual alarm while the STC is moving

## Steerable Transfer Car (STC) in action

Precast handling



Long steel pipe bundle handling



Heavy machine parts handling







## Removable Cover

Easy access to battery and motor components during maintenance



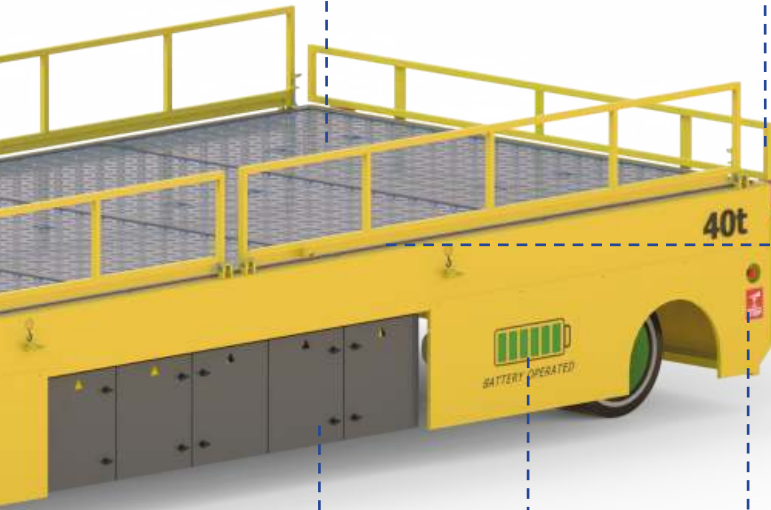
## Side Guards (Optional)

Avoid accidental load slippage



## Hydraulic Lifting Stroke (Optional)

Enables vertical movement to lift and position loads during material transfer



## Jacking Provision

For effortless and quick replacement of tyres



## Electric Control Panel

All the motions are controlled through Variable Frequency Drives (VFD)



## Battery Powered

No separate power supply required



## Emergency Switch

Instant halting of the STC in emergency situations

## Container handling



## Steel coil handling

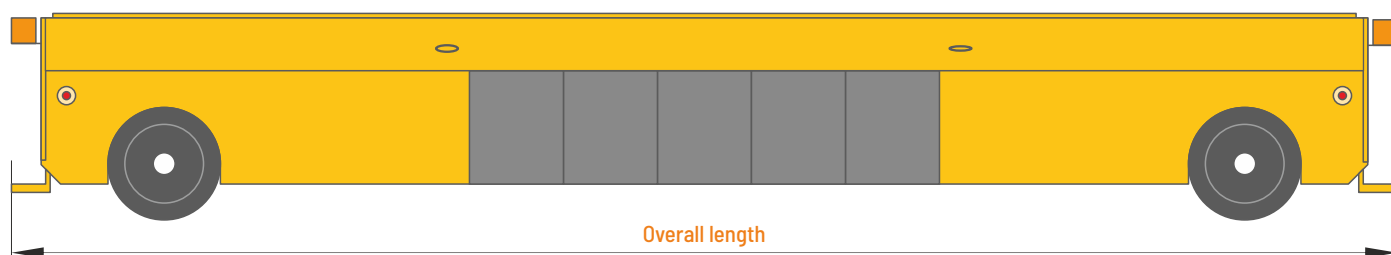


## Heavy fabricated part handling



## Steerable Transfer Car (STC)

### Specifications



### Technical Overview

Capacity (Distributed Load)	10t	20t	25t	30t	40t	50t	63t / 80t / 100t
Width	1.5m – 2.8m (Customizable as per request)						Other parameters on request
Length	2.5m – 5.5m (Customizable as per request)						
Height	800 – 2000mm						
Travel Speed	Up to 25m/min (Higher speed on request)						
Gradeability	Up to 5% (Higher gradient on request)						
Power Source	Battery-operated (Lead acid as standard) Lithium-ion optional						
Steering	2 - Wheel Steering (2WS) / 4 - Wheel Steering (4WS)						
Operation Control	Radio remote control (Push button type)						
Tyre	Solid tyres						
Battery Charging Time	8 – 10 hours (415V AC 50Hz, (3P + N) supply)						
Battery Capacity	Travel up to 5km (On flat surface, 50% with load, 50% without load)						

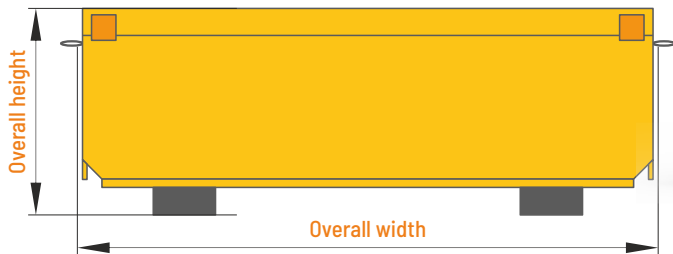
### Safety Features

- Emergency switch on four corners of the Car
- Emergency switch on Remote Control
- Visual alarm/ flashlight when the Car is moving
- Audio alarm/ hooter when the Car is moving
- Structural safety guard at the front and back to avoid objects in the way hitting trolley components
- Possible to operate using direct AC supply in case of emergency for a short duration
- Top surface covered with anti-skid chequered plate

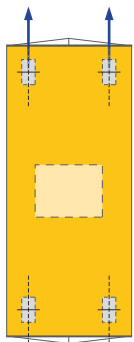
### Optional Features

- Operator's cabin
- Four Wheel Steering (4WS)
- Camera with display
- Anti-collision sensor at the front and back sensing obstruction in the way

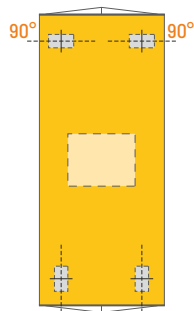
Material handling solution for swiftly carrying large and heavy loads across long distances without lifting.



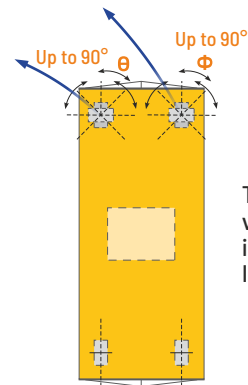
## 2 - Wheel Steering (2WS)



Straight line movement

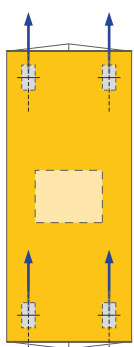


**P**  
Parking position

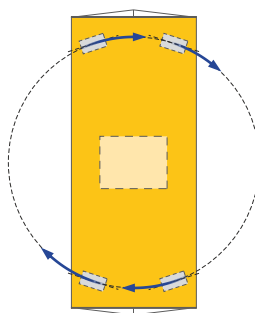


Taking a turn at any variable radius with its Steering Geometry Intelligence

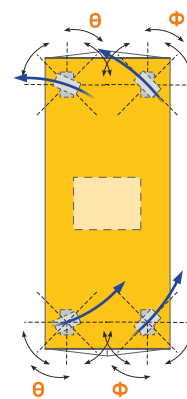
## 4 - Wheel Steering (4WS)



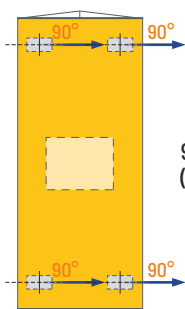
Straight line movement



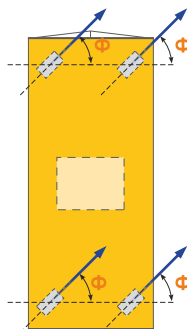
Polar movement (carousel)



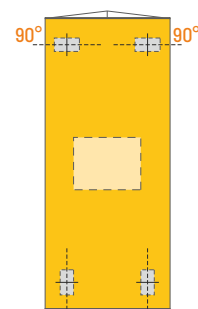
Taking a turn at any variable radius with its Steering Geometry Intelligence



90° movement (1<sup>st</sup> direction)



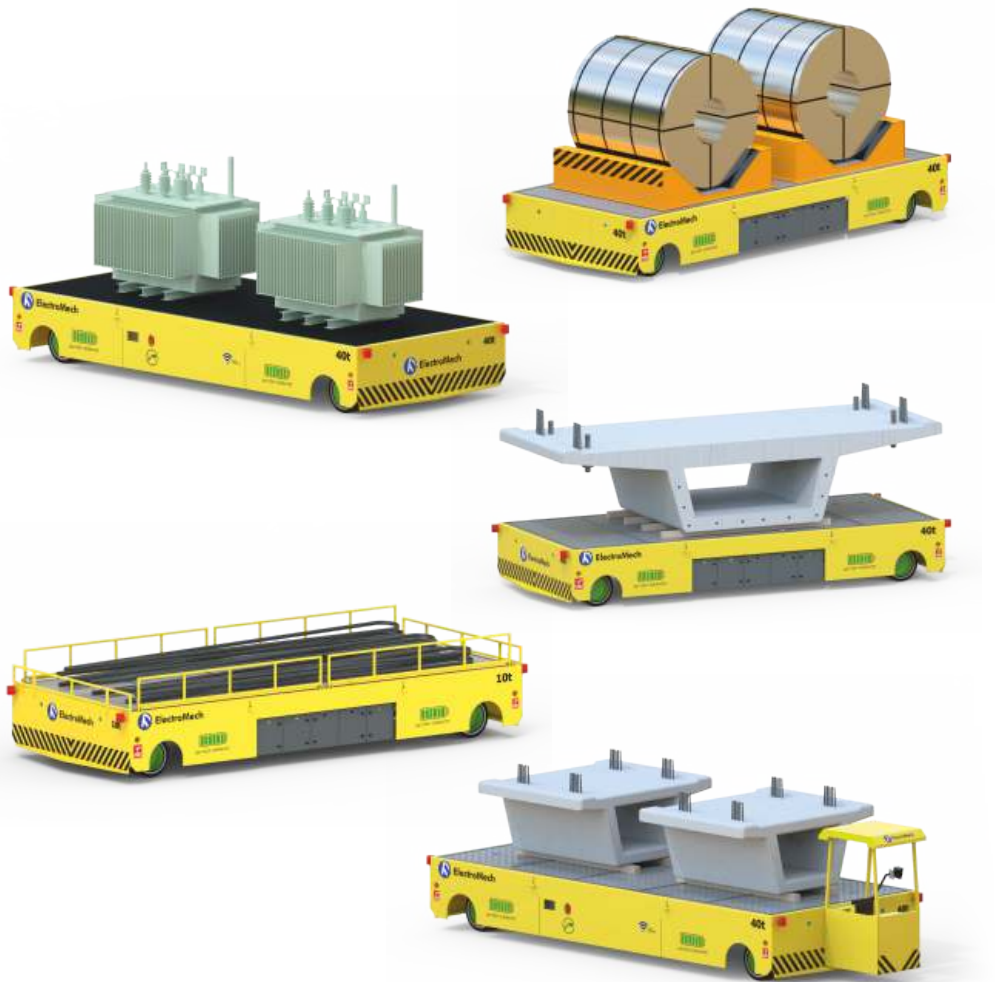
Diagonal movement (crab)



**P**  
Parking position

## Applications

- Heavy fabrication yard
- Steel raw material storage yard
- Precast handling
- Heavy transformer handling
- Forging shop
- Die handling
- Automobile factory



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# ElectroMech

| Solutions | Service | Satisfaction |

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