

# BROCHURE



Battery Powered - Pedestrian Operated - Move Wheeled Loads



# **Company Profile**

Tractive Power Ltd is an innovative materials handling company that design, manufacture and supply our own range of electrically controlled pedestrian tractive units.

Our electric vehicles are an excellent solution to manual handling and health and safety issues within the workplace. Battery powered and designed to push, pull and

manoeuvre loads of up to 50 tonnes on rails and 12.5 tonnes on castors our electric tugs ensure you have safe and efficient handling for your operators.

Years of experience within the market together with utilising the latest design software and control systems enables us to offer you some of the most advanced, compact tractive units on the market.

All of our Tractive Power range can be operated by a single user in a safe and efficient way eliminating the need for extra manpower. We also offer a range of services that will ensure you get the exact support you need.

Slopes and rough surfaces will increase the amount of force required to push and pull a load

#### In House Design

Tractive Power have their own design facility which gives us full control over the products we supply to you, the customer. Our experience in the mechanical engineering industry means, that not only can we customise our range to suit your requirements but also offer bespoke design and manufacture of one off products specifically made to meet your needs.

#### Free Consultation and Advice

Our staff have a wealth of experience in the pedestrian operated vehicle market, so if you have a load moving application and you're not sure how to address it, then one of our sales engineers will speak to you and discuss your application. Either give Tractive Power a call or request a site visit. We are here to advise and offer a solution.

#### **Operator Training**

Tractive Power also offer their own operator training on delivery, or refresher training during the service life of the product. Whichever you require we will ensure your employees are competent users and supply training certificates for their records.

#### Servicing

Tractive Power offer a range of service options to suit your requirement. We want to ensure you have the after sales support and have the maximum usage from your Tractive Power product once we have delivered. Just enquire for a full list of options.

### Case Study

A company manufacturing prefabricated plant rooms, used a railed lattice system to move the rooms around the manufacturing shop floor. Each plant room could weigh up to 6,000kg which would require 6 employees to move the load. Every time a plant room had to be moved, employees would have to stop the work they were doing to assist. Some employees would complain of bad backs or shoulders due to the physical excursion.

A single Tractive unit was introduced to address the issue. One man could now safely move the load with no physical effort. The company managed to reduce injuries and increase production with the implementation of the Tractive Unit.

### Market Sectors Served

- Aerospace
- Textiles
- Pharmaceutical
- Food industry
- Rail
- Airport
- Supermarket
- Retail
- Automotive
- Engineering manufacturing

## **Applications Moving**

- Railed bogeys
- Kiln karts
- Stillages
- Wheeled trolleys
- Supermarket trolleys
- Airport trolleys
- Roll cages

# Key Benefits

Addresses manual handling and Health and safety issues.

Streamline production and increase productivity.

Battery powered pushers and tugs with no emissions.

Single user operation.

**Pedestrian** operated with no license required as mandatory.

Designed for all working environments indoors and out.

# **TP250 Specification Sheet**





### Wheels and Tyres Drive Wheel: 12 ply industrial rubber pneumatic (Solid Option)

Rear Castor: Polyurethane castor

#### Construction Mild steel, Tractive Power orange / black powder coat

Steep slopes and rough surfaces will increase the amount of force required to push and pull a load.

#### Power

Gearbox	Transaxle 24V
Motor Power	24V 1000W
Controller	24V 200A AC Control

### **Batteries and charging**

Battery Capacity	70A/h
Charger Type	onboard auto voltage detect
Output	10 Amp
Input	100-240V
Recharge time:	8 hrs

# Towing

Towing Capacity	25 tonnes
Max. Weight Transfer	500Kg
Draw Bar Pull	2500N

#### Driving Max. Speed 6Kph Turni

	a
Turning Circle	1.65m
Steering	Manual

# Power Gearbox

Motor Power 24V 1500W Controller

# 24V 300A AC Control

Transaxle 24V

### **Batteries and charging**

140A/h Battery Capacity Charger Type onboard auto voltage detect Output 15 Amp Input 100-240V Recharge time: 8hrs

### Towing

Towing Capacity 50 tonnes Max. Weight 500Kg Transfer Draw Bar Pull 5000N

### Driving

Max. Speed	6Kph
Furning Circle	1.65m
Steering	Manual

Safety Anti trap emergency reverse E-stop battery isolator Electro-magnetic brake - Fail to safe



Safety

Anti trap emergency reverse

Electro-magnetic brake - Fail to safe

E-stop battery isolator

# **TP500 Specification Sheet**







Wheels and Tyres Drive Wheel: 12 ply industrial rubber pneumatic (Solid Option) Rear Castor: Polyurethane castor

Construction Mild steel, Tractive Power orange / black powder coat

The risk of injury also increases over longer distances and when the frequency of pushing and pulling does not provide sufficient rest or

# **Application Gallery**



Moving I-Section Beams on existing bogie - 4,000 Kg











Quick Latch Coupling for 5th wheel hydraulic arm.



SCHMID

# **TBC30 - Tractive Burden Carrier**





#### Wheels and Tyres

Drive Wheel: Vulcalan Castor: Nylon or Polyurethane

#### Construction

Mild steel, Tractive Power orange / black powder coat



Safety

Fail to safe

E-stop, Battery Isolator, Electro-magnetic brake

# Power

Gearbox	1 x Planetary
Motor Power	48V 6000W
Controller	400A AC Control Dual Drive

### **Batteries and charging**

Battery Capacity320A/hCharger TypeFloor MountOutput40AmpInput240VRecharge time:8hrs

### Towing

Towing Capacity	30 tonnes
Max. Weight Transfer	5000Kg
Draw Bar Pull	15000N

## Driving

Max. Speed	6Kph
Turning Circle	7m
Steering	Manual



TP Burden Carrier in action moving 30 tonnes

# **Pedestrian Stackers**

Pedestrian stackers are widely used in many applications today. From a simple small warehouse with infrequent use to highly advanced distribution centres with high duty cycles and 24 hour use. Depending on your application, you will need your stacker to be individually specified for you.

Tractive Power offers a wide range of powered pedestrian stackers, with lifting capacities from 1000kg to 1600kg. With choices of pedestrian or ride on models our stackers also boast lift heights of up to 5.4m.

Options of fork over, straddle stackers or reach stackers are available with numerous options to allow us to tailor our stackers to match your requirement. Reliable, versatile and ergonomically designed, our stackers come with the upmost guality to ensure you get maximum usage with minimum downtime.

> 11% of manual handling accidents investigated by HSE were reported to involve pushing or pulling





Our Tractive units provide the power to move the load but have to be attached by a simple coupling interface to get your product from A to B. Pushing and pulling in a straight line uses a fixed coupling system secured to the front of the Tractive unit. Steering requires our 5th wheel arm arrangement that allows the Tractive unit to steer 90 dearees left or right.

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# **Additional Couplings**

Pivoting 360 degrees on the spot through the differential gearbox means the Tractive Pusher is extremely manoeuvrable, and negotiates the most difficult routes. Tractive Power manufactures a range of standard couplings as shown below. However, if your application requires something more unique, Tractive Power can design a coupling to your specific requirements.

Manual handling around obstacles can create risks by the worker trying to avoid collision. Large amounts of effort are required to start or stop loads moving or even to keep it moving.

## **Distributor Network**

#### **United Kingdom**

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