

# PALLET TRUCKS

**TCM**  
Trusted Partner

  
**SAFETY**

  
**EFFICIENCY**

  
**COMFORT**



**TCM**  
Always Evolving

# ADVANCED TECHNOLOGY AND ERGONOMICS FOR TODAY'S ENVIRONMENTS

Outstanding power, performance and reliability comes as standard in TCM warehouse trucks. With innovations like the ergonomic tiller head design to the efficiency of the AC motor, you can trust that daily operations will be completed with ease across the shop floor to heavy duty industrial environments. Intelligent modular design means fewer components, maximising uptime and contributes to low lifecycle costs.



## OPERATOR COMFORT IS KEY

Operators represent a large cost in operations. When it comes to the efficiency of the truck we invest in the operator comfort, and therefore improve efficiency.

**20%**  
**TRUCK**

**80%**  
**OPERATOR**



### ERGONOMIC TILLER ARM

- Walk safely behind or beside the truck with full visibility over the fork and load.
- Patented ergonomic tiller arms for effortless control and with robust, weather-proof design.
- All controls are at the operator's fingertips.



### INDIVIDUAL PIN-CODE SETTINGS

- Personalised settings - for swift start up and operator matched skill levels.
- Additional security for fleet - preventing unauthorised use.

### ONBOARD TRUCK MANAGEMENT

- Control panel - for clear battery status, hour meter, date, clock and warning messages.
- Onboard computer - built-in service functions reduce downtime.
- Easy to change performance settings - to match the operator's skill and experience.



PAL

PTF

PTP

LLR

LLS

SHORTER TRAVEL DISTANCE

Choose TCM pallet movers best suited to your applications to optimise operator efficiency and reduce TCO

LONGER TRAVEL DISTANCE



## INDUSTRY LEADING PERFORMANCE & EFFICIENCY

### DESIGN EXCELLENCE – PROTECTING UPTIME

- Modular design built on flexible technical platforms - fewer, more common components are used.
- 95% of all repairs on the first visit - reduced components needed by mobile service engineers.
- 98% uptime protected for operations - reduces life cycle costs.

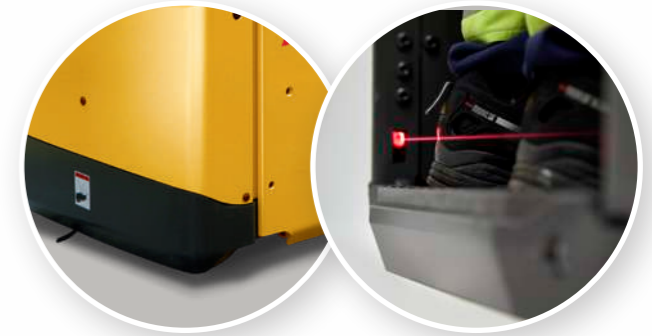
### POWERFUL AC MOTOR

- Energy-efficient AC motor - responsive to the slightest command from the operator.
- Regenerative braking - saves energy and provides good braking capability.
- Total operator control of acceleration and braking, even on slopes.



## SAFETY IS INTEGRAL

Standardising industry leading safety features across our range of trucks has resulted in safer working environments and reduced risks.



### FRICTION FORCE TECHNOLOGY FOR GROUND CONTACT

- Patented linkage design - for all wheel and drive wheel constant ground contact.
- Impressive stability - even on uneven surfaces and ramps.
- Laterally firm and stable - even with a narrow chassis.



LONGER LIFE



HIGHER EFFICIENCY



LONGER RUNTIME



CONSISTENT PERFORMANCE



FASTER CHARGING



NO MAINTENANCE



INBUILT PROTECTION

Lithium-ion batteries can offer real advantages over lead-acid batteries, particularly in high energy, multi-shift, and 24/7 applications. When it comes to Total Cost of Ownership (TCO), TCM can advise you on the most cost-effective energy solution you will need to meet all your operational requirements.

## Pallet Trucks

# PTF, PTP/S & PTP/R: THE NEW STANDARD IN PALLET TRUCKS

The PTF and PTP power pallet truck with foldable or driver protected platform, and load capacity 2.000 kg and 2.500 kg, are designed for highly efficient loading/unloading operation applications, short, medium and long internal transports and order picking.



### PTF

Flexible control - choose platform up and sidebars down for reduced speeds and increased manoeuvrability for pedestrian operation. Platform down, sidebars up for increased speed on longer travel runs.

### EFFICIENCY

- Heavy-duty chassis - manufactured for strength and durability in heavy cross docking operations, and all the benefits of the AC motor.
- Onboard computer - with efficient and clear display of essentials, battery levels and hour meter.

Optional multi-functional display offers enhanced information on truck including battery condition, faults and actions, and enables PIN code access to avoid unauthorised truck use.

- Increased ground clearance under the machine house - for negotiating ramps and dock levers.
- Best in class mechanical steering - with low steering forces for ease of use.
- Faster speeds & greater lift heights - 10 km/h and 220 mm from floor to forks with fast lift and lowering for greater productivity.



**Li-ION**

Choice of Li-ion or traditional Lead-acid BS and DIN battery cells.



### COMFORT

- Ergonomically shaped Tiller Head - Patented lift/lower rocker buttons and easy reach controls for comfort and less fatigue, in robust, weather-protected casing.
- Both foldable and fixed platforms have a rubber floor mat and are mechanically damped - for high levels of driver comfort.
- Quick and easily foldable side protection bars - standard for increased drive speed and safety.



### SAFETY

- The patented TDS system constantly provides maximum drive wheel traction regardless of load weight. Rear stability caster wheels are equipped with integrated shock absorption and variable damping that will automatically adjust depending on driving conditions, maximizing truck stability at all times. Optional ASR (active spin reduction) will further enhance drive wheel traction and truck stability in slippery and wet floor conditions.
- Rear entry platform sensor - truck slows if operator feet are not fully onboard for reduced injury risk.



### PTP/S

Faster speeds & longer distances or low level order picking - choose driver protected side entry with low step platform.



### PTP/R

Faster speeds & longer distances - choose driver protected back entry with foot protection.



### OPTIONS INCLUDE:

- Increased 12,5 km/h drive speed, with side bars
- ASR - Active Spin Reduction on drive wheel for increased safety
- Multi-functional display with Pin code access, PRO ECO and EASY driver settings
- Cold store protection
- Battery rollers
- Power steering & pivot steering for effortless control
- Electrically adjusted damping of fixed platform models to suit all operators
- Equipment bar
- Pallet entry and exit sliding bars
- USB power socket
- LED working lights
- Load back rest



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## Pallet Trucks

# PAL - PALLET TRUCK WITH CENTRE TILLER ARM

High-performance, pedestrian low lifter truck equipped with a 5-point chassis for complete stability even at high speed.

Engineered for extreme manoevrability and non-stop performance in the most challenging environments, its robust construction offers durability in all working conditions and is perfectly suited to loading/unloading, internal transport and general warehousing duties.



### SAFETY

- Advanced onboard computer - for fleet optimisation and programming truck performance levels to match each application.
- Low chassis - helps to prevent foot injuries.



### EFFICIENCY

- Compact for complete manoevrability in tight spaces.
- Energy-efficient AC drive motors with high power output provides high speed even with heavy loads for maximum productivity.
- Built-in battery rollers - for a fast, safe changeover, ideal for multi-shift operations. Double pallet configuration for ultimate efficiency.



### COMFORT

- Shock resistant transmission – quiet with minimal maintenance.
- Excellent stability – with linked castor wheels by the central drive wheel, and 2 additional load wheels.



#### OPTIONS INCLUDE:

- Load backrest
- Writing desk
- Equipment bar with RAM holders and 12V power supply
- Climbing wheels for bottom boarded pallets
- Cold store design
- Built-in charger



# LLR/LLS - LOW LIFTER RIDE/SIT ON

Probably the best developed stand-on pallet transporter available, the LLR is engineered for medium to long distance travel and for medium to high intensity work patterns.

Two chassis types, with lift capacity of 2000 kg and battery options from 240 to 750 Ah to suit different operational requirements.



### SAFETY

- Double bogie load wheels on the forks - allow easy pallet entry.
- Energy-efficient AC motor – responsive to the slightest command from the operator.
- Electric power steering - for pinpoint accuracy.



### EFFICIENCY

- Easy maintenance – with quick and simple daily checks.
- Proven parts - rapidly available for fast service with minimum downtime.
- Long forks - from 1000 mm to 2375 mm and widths from 480 mm to 730 mm - to transport two pallet loads at a time maintaining impressive travel speeds.
- Extremely manoevrability - with four-wheel configuration and constant ground contact for maximum stability.



### COMFORT

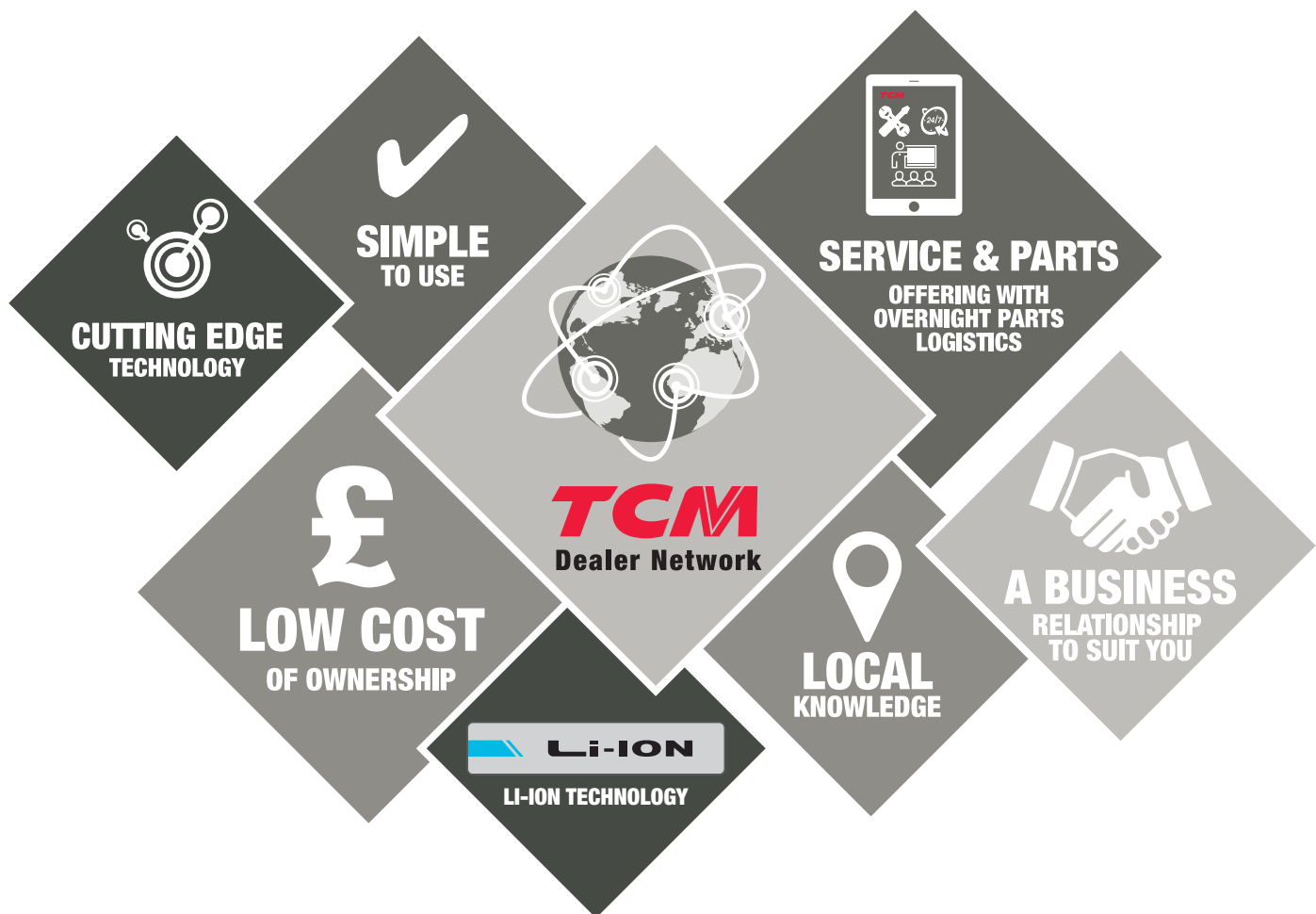
- Side-on seating with adjustable seat and floor height - for a safe, protected working environment with excellent visibility.
- PIN-code access - restricts truck use to authorised personnel.
- Mini steering wheel - for operator comfort.



#### OPTIONS INCLUDE:

- Wheels and tyres for different applications
- Battery changeover trolley
- Overhead guard
- Cold store protection to -35°C
- Writing desk
- Equipment bar





**PALLET TRUCKS**

MODEL	LIFT CAPACITY KG	LOAD CENTRE MM	TRUCK WIDTH MM
PAL 160-F	1600	600	720
PAL 180-F	1800	600	720
PAL 200-F	2000	600	720
PAL 200-E	2000	600	720
PTF 200	2000	600	740
PTF 250	2500	600	740
PTP/R 200	2000	600	740
PTP/R 250	2500	600	740
PTP/S 200	2000	600	740
PTP/S 250	2500	600	740
LLR 200	2000	600	940
LLR 300	3000	600	940
LLS 200	2000	600	1010
LLS 300	3000	600	1010

