

# BT levio

1.3 – 3.0 tons  
Electric Powered Pallet Trucks





W-series



W-series  
1300 kg



W-series  
1400 kg–2500 kg



P-series  
2000 kg–2400 kg



S-series  
2000 kg



R-series  
2000 kg–3000 kg

# BT Levio – the *complete* range of powered pallet trucks

Fast and powerful, but safe and easy-to-use, BT Levio powered pallet trucks cater for all your horizontal pallet transport needs. Compact and lightweight units, walk-with and ride-on trucks, all with the optimum drive system and design strength to ensure trouble-free operation. All standard models are also designed to work effectively within chilled operations.

**W-series** models are pedestrian trucks with load capacities from 1300 up to 2500 kilograms. The smallest model – the LWE130 – is ideal for carrying on-board a vehicle as an alternative to a hand pallet truck, whilst the largest – the LWE250 – makes safe handling of the heaviest palletised loads easy. The BT Levio W-series models are built for durability, and are simple to use, with safety as a key factor.

For more intensive applications, BT Levio **P-series** models come equipped with a flip-down operator platform, making them suitable for longer-distances and more demanding operations.

For the most intensive applications the BT Levio **S-series** stand-in and **R-series** seated cab models deliver maximum productivity while maintaining the highest safety standards.

By offering a complete range of powered pallet trucks, BT enables you to select the optimum machines to help drive down costs in your operations.



## BT Levio W-series 1300 kg load capacity

**BT Levio's W-series starts with the LWE130 – a compact truck that provides safe, easy horizontal pallet movement in low-intensity applications. Whether transporting goods in an office, retail store, print shop or similar operation, the BT Levio LWE130's low 250 kg weight, compact size and 1300 kg load capacity make it ideally suited for a wide range of uses.**

The easy-to-use controls, ergonomic steering and maintenance-free batteries with built-in charger are designed for operators with all levels of experience. Optional in-vehicle charging also makes this electric pallet truck perfect for use on lorries.

### **BT Castorlink**

The LWE130 features the unique **BT Castorlink** system for optimum stability. The castor wheels rotate within the truck's body profile, providing added safety for the driver and load.



*The emergency stop button and the lead for the built-in charger are easily accessible to the operator*



*The LWE130 has a five-point chassis for optimum stability and control, with castors that rotate within the profile of the truck*



# BT Levio W-series 1400 kg–2500 kg load capacity

## *simplicity leads to productivity*

Powered pallet trucks are versatile machines put to a wide range of uses: vehicle loading and unloading, order picking and general pallet transport. They are relied on, not just in warehouses, but also in retail premises where safety and manoeuvrability are particularly important. The BT Levio W-series is designed to let its operator get on with the job – simply and safely.

### Compact and manoeuvrable

The first thing you will notice about the BT Levio W-series is how compact it is. Its short body length means it needs less space in which to turn, so you'll spend less time manoeuvring.

### Smooth and easy, but powerful

BT Levio W-series incorporates the BT Powerdrive system, ensuring smooth, progressive control at all times. The handle is easy and comfortable to use, with fingertip lift and lower buttons, and simple forward/reverse control.

### Exceptional visibility

These trucks are designed to ensure that the operator always has

a clear view of the fork tips or the load, allowing accurate and fast placement. We call it 'total view'.

### Features for the real world

All W-series models come with useful storage compartments and an optional 'E-bar' allows mounting of a writing table and shrinkwrap holder, as well as powered ancillary equipment such as PCs, radio-data terminals and barcode scanners.

The 2000 kg model (LWE200) can be specified with flip-down operator platform for applications demanding longer travel distances.



Fork tips are clearly visible from the operating position for added safety and ease of use



The control arm incorporates BT Powerdrive technology and offers easy, intuitive operation

# BT Levio W-series 1400 kg–2500 kg load capacity

## *safety & durability*

**A truck that's easy to use is much less likely to be involved in accidents. The safety of BT Levio W-series is also enhanced by a host of design features to protect the operator and other workers.**

### **Keep your distance**

Designed specifically for pedestrian trucks, the W-series' ergonomic control arm is the optimum length, providing easy control and excellent fork-tip visibility, while keeping the operator a safe distance from the truck.

### **Adaptable performance**

The acceleration, top speed and braking characteristics can be programmed to suit individual operators, or to suit the demands of the application. PIN-code start-up means that the truck knows who is operating it and it will assume the appropriate pre-programmed settings. The W-series has a 'turtle' button for temporary speed reduction, and the 'Click-2-Creep' function, which allows the truck to be manoeuvred with the handle upright – ideal in confined spaces.

### **Protection for the operator**

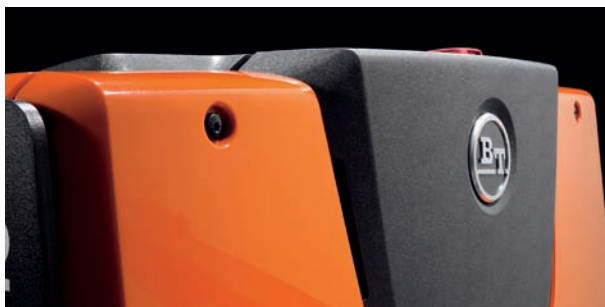
BT Levio W-series features two emergency controls: a cut-off button and a 'belly' button. The cut-off button immediately

disconnects the drive power (but leaves the display running so error codes can be read) and applies the brake. The belly button is on the handle tip. It reverses the direction of travel to prevent an operator being trapped by the truck.

The W-series' chassis skirt is just 35 mm from the ground and rounds away from the operator's feet, providing the perfect balance of foot protection without compromising the truck's manoeuvrability on ramps and other slopes.

### **Designed to simply keep going**

In line with this philosophy, the W-series' AC drive motors have fewer wearing parts than DC equivalents and many of the truck's bushings are made of a Teflon-coated composite material that improves their working life and eliminates the need for greasing. Sealed connectors, non-contact switches, leak-free hydraulic connectors and CAN-Bus wiring all add up to maximum reliability. BT Levio W-series is designed to be serviced only once a year in typical single-shift operations.



*The hood is secured by two bolts for fast access*



*The fixed motor has no moving cables*



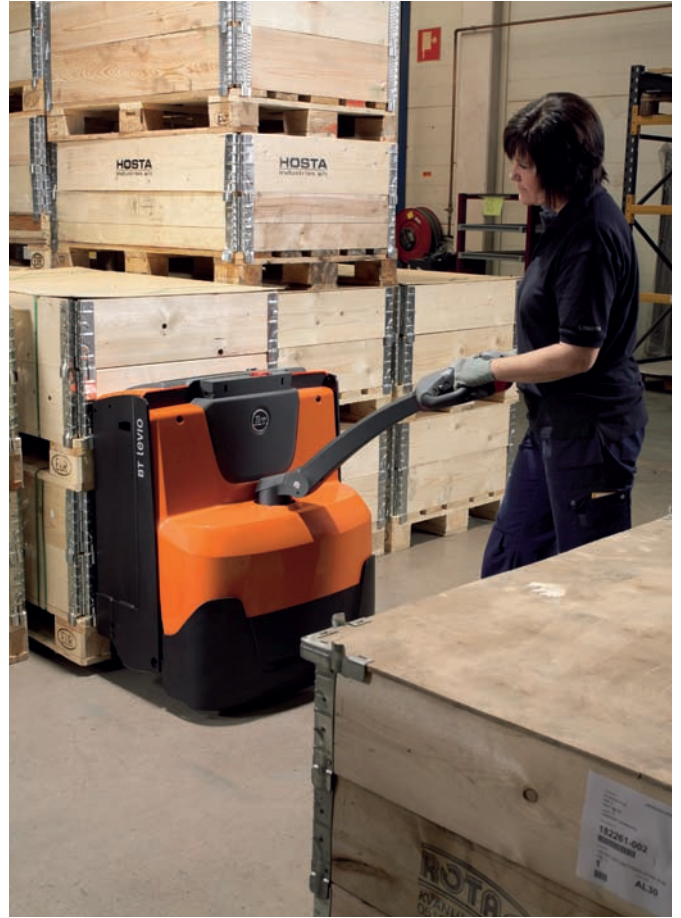
*BT Levio W-series' rounded profile helps it get round the tightest corners*



*The Click-2-Creep function allows the truck to be manoeuvred with the handle upright*



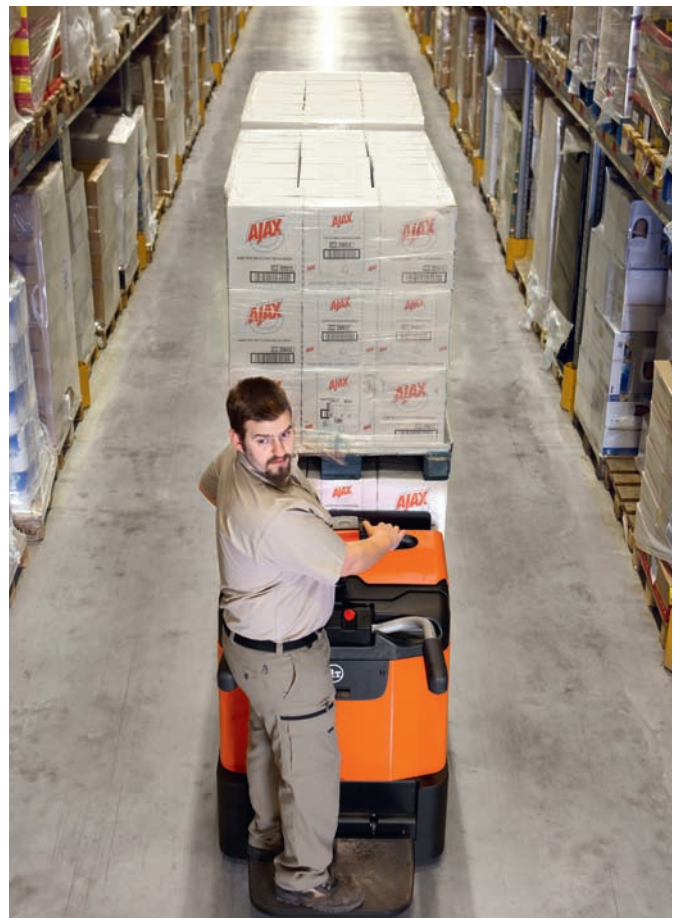
W-series, 1300 kg



W-series, 1800 kg



P-series, 2000 kg



P-series, 2400 kg



# BT Levio P-series 2000 kg–2400 kg load capacity

## *performance as standard*

**The concept of a flip-down driver platform was a BT innovation that has been recognised throughout industry as vital within intensive horizontal transportation systems. Today the BT Levio P-series continues to set the standard, delivering the highest levels of productivity, due to performance combined with manoeuvrability – therefore driving down costs.**

BT Powerdrive, which is built into BT Levio P-series trucks from the ground up, benefits productivity in two ways. Firstly, its essential simplicity means truck availability is maximised. Secondly, the trucks are easy to operate safely and smoothly.

### **High performance – small size**

The 2-ton capacity LPE200 has a maximum speed of 8.5 km/h with the optional folding sideguards, or 6 km/h without. The 2.4 ton LPE240 can travel at 12 km/h. Performance parameters are fully programmable to suit each operator and application.

### **Smooth and easy, but powerful**

Simple CAN-bus wiring connects a central processor, which monitors and controls all performance aspects of the truck, to a powerful and efficient motor.

Smooth, powerful performance is assured in all operating conditions, due to the combination of the motor and the switchless control system. Acceleration and maximum travel speed is virtually unaffected by load weight. Low energy consumption and regenerative braking mean that BT Levio can achieve more work cycles per battery charge than conventional powered pallet trucks.

### **Adapted grip**

Another concept invented by BT – the P-series' Powertrak chassis – automatically adjusts the drive wheel pressure to suit the load, thereby increasing traction and virtually eliminating wheelspin.



*BT Levio P-series models' flip-down platforms aid productivity in long distance applications without compromising manoeuvrability*



*All models are available with the E-bar mounting rail for ancillary equipment such as writing tables and shrinkwrap holders. It can also incorporate a power supply for items such as PCs, radio-data terminals and barcode scanners.*



# BT Levio P-series 2000 kg–2400 kg load capacity

## *a safe choice over the long term*

**BT Levio P-series' ease-of-use is a great benefit to overall safety but the trucks also come with a range of specific safety features to ensure that operator, load and site remain safe.**

### **A choice of guards & platforms**

The LPE200 and LPE240 models are fitted with folding sideguards but are also available with full fixed sideguards. Alternatively they can be specified with a rear backrest. The folding sideguards on both models (optional on the LPE200) offer protection to the operator without compromising the advantages of the flip-down platform to manoeuvrability, meaning that the operator can dismount and control the truck as a pedestrian in the tightest corners.

Other types of available platforms are for example 'flip-down' design if the truck is mostly pedestrian-operated, 'stay-down' platform suited for ride-on operations and a steel mesh platform is available for safe non-slip operation in coldstores.

### **Always in control**

The ergonomic handle provides an intuitive interface between operator and machine. Designed to be equally accessible to the right and left hand, its butterfly controls provide forward/rearward acceleration. Other essentials such as lift/lower, and horn are all within fingertip reach.

The handle also allows access to the trucks' on-board fault diagnosis and logging system, via its digital display.

### **Adaptable performance**

Truck performance is fully programmable to suit the application, with easy access to various parameters via the digital display

and controls on the handle. Maximum speed (with and without sideguards), acceleration rate, and automatic speed reduction facility can be set to suit the conditions of each application or operator's skill level.

BT's unique Click-2-Creep option allows the operator to reduce the truck's speed for careful fine positioning. Creep speed is activated by simply clicking the speed control switch twice.

### **Access control**

BT Powerdrive offers access control by PIN-code as standard or, as an option, "Smart access", where the driver uses a personal electronic key or card to access the truck. For both systems driver profiles can be stored for automatic activation upon log-in.

### **Protection for the operator**

A large emergency button is located at the tip of the handle. This ensures that the truck's direction will be reversed immediately if the handle encounters an obstacle, preventing the truck from crushing the operator.

To further ensure operator safety, all models feature skirting that offers full protection to the feet.

### **High-quality construction**

All BT Levio trucks are built with the highest quality components. For example, all bushings on the LPE240 are constructed from bronze, with lubrication points, for a long and reliable life.



*The P-series' low skirt protects the operator's feet without impeding access to ramps and gradients*



*The LPE200 uses stainless steel for long-lasting performance in corrosive environments*

# BT Levio S-series 2000 kg load capacity *with ‘stand-in’ cab design*

**For more intensive applications BT Levio S-series LSE200 offers the highest levels of comfort and safety thanks to its ‘stand-in’ design, which offers full protection for the operator.**

The truck retains compact dimensions and thereby excellent manoeuvrability. It is ideal for loading/unloading applications and those demanding long travel distances, such as cross-docking. Its load capacity is 2000 kg.

### **Narrow chassis**

The width of 770 mm makes it manoeuvrable and suitable for use on-board vehicles and in containers. The driver stands transversely, meaning that driving is comfortable in both fork and cab directions without changing position. As an option, the control console can be ordered to be adjustable into an angle so that the operator can have better view in the driving direction,

favouring applications demanding long travel distances. The backrest is adjustable, to accommodate all sizes of operator.

### **Electronic steering**

The S-series is easy to control – whatever the load – thanks to its ‘spinner wheel’ 180° electronic steering. Braking is electronically controlled and is regenerative. The parking brake is activated automatically when the truck is stationary.

The forks on the LSE200 have bogie wheels and can be elevated to 235 mm. This makes it ideal for handling roll cages and work on gradients and uneven surfaces.



*The LSE200's 180° steering makes it easy to drive*



*All S-series models offer excellent protection for the operator*





# BT Levio R-series 2000 kg–3000 kg load capacity *rider-seated range*

**R-series models are designed for long-distance handling of multiple loads weighing up to 3000 kg at speeds of nearly 20 km/h. Operator's enjoy the highest levels of protection from the seated-cab design.**

## **LRE200**

This BT Levio R-series model, with its load capacity of 2000 kg, offers performance and comfort. The seat and pedals are adjustable, and the electronic steering provides the highest levels of manoeuvrability. Controls and instruments are well laid-out and include a combined battery condition indicator/hour meter. The battery is easily changed in multishift operations via a built-in rollerbed system.

## **LRE300 / LRE300T**

The ultimate powered pallet trucks, the LRE300 and LRE300T are designed for heavy-duty, intense operations, particularly those demanding the longest travel distances. Offering a full 3000 kg capacity, with fork length up to 3590 mm (enough for three roll cages), the trucks can carry multiple loads with ease.

Maximum travel speed for LRE300 is 15.1 km/h without load, allowing fast and efficient transportation. The LRE300T has twin

motors in order to manage a speed of 19.9 km/h without load. The driver sits high in the 'T' model, with an excellent view for maximum safety.

Both models offer ergonomic and comfortable driver environment, with fully adjustable seat, pedals and steering wheel. The door and high profile behind the driver seat offer maximum protection.

## **BT Access Control**

Performance parameters can be programmed and easily selected upon start-up. Access is controlled with PIN codes, restricting operation to only authorised drivers. Electronic regenerative braking is programmable to suit the driver – when accelerator is released, and/or when change of travel direction is applied.



*360° steering ensures maximum manoeuvrability and control with minimal effort*



*The E-bar universal mount for warehouse management devices such as PCs, terminals, bar code readers*



# Toyota Production System

**BT has a long history with export world-wide with close relationship with the market through independent and owned distribution channels. The close geographic link with the customer is a must to be able to respond to their needs. Our BT branded products are manufactured in Mjölby (Sweden) and Bologna (Italy).**

## **Toyota Production System (TPS)**

The Toyota Production System (TPS) empowers team members to optimize quality by constantly improving processes and eliminating unnecessary waste of resources. TPS includes a common set of knowledge, values and procedures, entrusts employees with well-defined responsibilities in each production step, and encourages each staff member to strive for overall improvement. Today, TPS is the acknowledged reference among automotive manufacturers and related industries. Our methods enable businesses to achieve sustained gains in productivity while satisfying customer expectations for quality and reliability.

## **Research & Development**

BT benefits from Toyota's vast experience in the automotive industry, especially in engine development. By taking full advantage of the group's massive R&D facilities and engineering expertise, BT has developed a number of world-class technologies. Intelligent use of electronic and computer controlled devices has also made a significant contribution to creating more ergonomic and user-friendly operator environments, contributing to safety in the workplace.

## **Empowering your business**

Our services and solutions are designed to provide different

levels and types of support in response to individual customer's needs. This approach gives our customers the power to focus on their core business.

## **Our commitment to the environment**

BT believes that getting the job done should never be at the expense of our environment. Our long-term commitment is to develop and deliver environmentally friendly and economically viable materials handling solutions that respect present and future energy needs. BT strives to reduce environmental impact throughout the product life cycle, from design, manufacturing and operation through to recycling at end-of-life. The BT production centres are ISO 14001 certified. A declaration of the emissions and waste during the manufacturing process and typical life cycle is available on request.

With its emphasis on eliminating waste, TPS also helps to reduce the environmental impact of our manufacturing activities. CO<sub>2</sub> emissions, water consumption, waste-water generation and landfill quantities have all been reduced, while recycling levels for packaging, water and scrap have been raised. Hazardous substances and air pollutants have also been reduced. Moving towards the creation of a recycling-oriented society, BT seeks to continuously improve the recyclability levels of its products.

# Choose the features that suit your needs

● standard ○ option

	BT Levio LWE130	BT Levio LWE140	BT Levio LWE160	BT Levio LWE180	BT Levio LWE200	BT Levio LWE250	BT Levio LPE200	BT Levio LPE240	BT Levio LSE200	BT Levio LRE200	BT Levio LRE300
<b>Truck features</b>											
Bogie fork wheels	○	○	○	○	○	●	○	●	●	●	●
BT Powerdrive		●	●	●	●	●	●	●			
BT Castorlink	●	●	●	●	●	●					
Climber wheels	●	●	●	○	○		○	○			
Powertrak traction system							●	●			
Spring-loaded drive wheel							●	●			
Twin drive tyres											○
<b>Driving features</b>											
180° steering		●	●	●	●	●		●	●	●	
200° steering	●						●				
360° progressive steering											●
Automatic deceleration		●	●	●	●	●	●	●	●	●	●
Electronic braking system	●	●	●	●	●	●	●	●	●	●	●
Regenerative brakes (motor)		●	●	●	●	●	●	●	●		
Flip-down driver platform					○		●	●			
<b>Controls and instruments</b>											
Click-2-Creep		●	●	●	●	●	○	○			
Drive motor and controller temperature warning		●	●	●	●	●					
Fingertip controls	●	●	●	●	●	●	●	●	●		
Hour meter (working hours) display	○	●	●	●	●	●	●	●	●	●	●
Power/Electronic steering								○	●	●	●
Temporary speed reduction ('turtle' button)		○	○	○	○	○					
Weighing scale		○	○	○	○	○					
<b>Safety features</b>											
Automatic parking brake	●	●	●	●	●	●	●	●	●	●	●
BT Access Control (PIN codes)		●	●	●	●	●	○	○			
Smart Access (electronic cards/fobs)		○	○	○	○	○	○	○			
Clear-view overhead guard										○	
Driver detection system							●	●	●	●	●
Emergency collision button ('Belly' button)	●	●	●	●	●	●	●	●			
Emergency cut-off	●	●	●	●	●	●	●	●	●	●	●
Fixed sideguards							○	○			
Folding sideguards							○	●			
Rear backrest/guard							○	○			
Load support	○	○	○	○	○	○	○	○		○	
Pedals as in a car										●	●
Programmable performance		●	●	●	●	●	●	●			
<b>Operator features</b>											
Adjustable backrest									●		
Adjustable seat and steering wheel										●	●
E-bar (onboard powered ancillary equipment mounting rail)		○	○	○	○	○	○	○		○	○
Shrinkwrap holder			○	○	○	○					
Storage compartments	●	●	●	●	●	●	●	●	●		
Writing table			○	○	○	○	○	○	○	●	●
<b>Maintenance features</b>											
Easy access for maintenance	●	●	●	●	●	●	●	●	●	●	●
Fault diagnosis outlet	●	●	●	●	●	●	●	●			
Fault log		●	●	●	●	●	●	●		●	●
Lubrication points	●						○	●			
<b>Battery management features</b>											
Battery handling facility							○	○		○	
Battery status indicator	○	●	●	●	●	●	●	●	●	●	●
Battery discharge prevention system		●	●	●	●	●	●	●			
Built-in charger	●	○	○	○	○	○	○				
In-vehicle charging	○										
Sideways battery change					○	○	○	○	○	●	●
<b>Special applications</b>											
Coldstore version							○	○		○	
EEx version (ATEX)		○	○	○	○	○	○	○	○	○	○
Corrosive environment version							○				
Reel/drum handling		○	○	○	○	○					



749853-040/1110