

BT levio



product
design
award

2009 ■

1.4 – 2.5 ton
Electric Powered Pallet Trucks



TOYOTA

MATERIAL HANDLING

stronger together



The all-new BT Levio: *simplicity – safety – durability*

BT Levio: the all-new range of pedestrian powered pallet trucks from Toyota Material Handling Europe, designed to directly meet your needs. Five capacity choices from 1.4 to 2.5 tonnes and a range of batteries ensure that there is a BT Levio for every application.

Over 60 years' experience in warehouse trucks has enabled us to develop the perfect truck for walkie applications. BT Levio is an economical and extremely flexible tool for moving loads easily and safely – designed and built to be durable and, therefore, reliable.

The key words with BT Levio are *simplicity, safety* and *durability* – giving your people what they need to get the job done. We call it '**man power**'.

BT Levio – so easy to use

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

Exceptional visibility

BT Levio is designed to ensure that the operator always has a clear view of the fork tips or the load, allowing accurate and fast placement.

Features for the real world

All BT Levio models come with useful storage compartments on top of the truck body. An optional 'E-bar' allows mounting of a writing table and shrinkwrap holder, as well as powered third-party equipment such as PCs, radio-data terminals and barcode scanners.



Fork tips are visible from the operating position



The all-new tiller arm, incorporating BT Powerdrive technology, offers easy, intuitive control

LWE140

Load capacity: 1400 kg
 Machine length: 478 mm
 (excluding forks)
 Machine width: 726 mm
 Battery: 150 Ah
 Fork length: 810 mm –
 1520 mm
 Fork width: 156 mm



LWE160

Load capacity: 1600 kg
 Machine length: 478/535 mm
 (excluding forks)
 Machine width: 726 mm
 Battery: 150 Ah
 225 Ah
 Fork length: 810 mm –
 1520 mm
 Fork width: 156 mm







Designed and built for safety

A truck that's easy to use is much less likely to be involved in accidents. BT Levio's safety 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 BT Levio's ergonomic tiller 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. PIN-code start-up means that the truck knows who is operating it and it will assume the appropriate pre-programmed settings. The BT Levio 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 and busy spaces.

Protection for the operator

BT Levio 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.

BT Levio's 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.



BT Levio's rounded skirt balances safety with manoeuvrability



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

LWE180

| | |
|--------------------------------------|---------------------|
| Load capacity: | 1800 kg |
| Machine length: (excluding forks) | 535/585 mm |
| Machine width: | 726 mm |
| Battery: | 225 Ah 300 Ah |
| Fork length: | 800 mm – 2350 mm |
| Fork width: | 180 mm |



LWE200

| | |
|--------------------------------------|-----------------------|
| Load capacity: | 2000 kg |
| Machine length: (excluding forks) | 535/585 mm |
| Machine width: | 726 mm |
| Battery: | 225 Ah 260*/300 Ah |
| Fork length: | 800 mm – 2350 mm |
| Fork width: | 180 mm |



* With optional sideways battery change

Built-in durability

An easy-to-use truck means less risk of mistakes and less risk of damage or breakdown. Combine this with Toyota's built-in quality and the BT Levio's advanced design and the result is more uptime, which means more work done for less cost.

Designed to simply keep going

The all-new BT Levio has been developed and will be manufactured using the highly regarded Toyota Production System (TPS). To ensure high levels of quality and reliability, TPS applies continuous improvement (*kaizen*) throughout the entire production process, from product development through to production, delivery and after-sales service.

In line with this philosophy, the BT Levio's 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 is designed to be serviced only once a year in typical single-shift operations.

Managing your fleet

Fleet users can readily assess the performance of their BT Levio trucks using Toyota I_Site – an information system from Toyota Material Handling Europe which provides the information that fleet users need to make the right decisions for their business, quickly and safely. Toyota I_Site experts help companies set up customised, easy-to-read reporting that helps businesses realise cost savings and enhance safety, control costs from damages, as well as optimise the use of their fleet.



The hood is secured by two bolts for fast access



The fixed motor has no moving cables

LWE200 with platform

Offering the same specifications as the LWE200, the LWE200 with platform is ideal for applications demanding longer travel distances. The tiller arm is optimised to suit both platform and pedestrian operation.



LWE250

| | |
|--------------------------------------|-----------------------|
| Load capacity: | 2500 kg |
| Machine length: (excluding forks) | 535/585 mm |
| Machine width: | 726 mm |
| Battery: | 225 Ah 260*/300 Ah |
| Fork length: | 800 mm – 2350 mm |
| Fork width: | 180 mm |



* With optional sideways battery change



Our commitment to the environment

Toyota Material Handling Europe (TMHE) believes that getting the job done should never be at the expense of our environment. BT Levio is the latest stage in the pursuit of our long-term commitment to develop and deliver environmentally friendly and economically viable materials handling solutions that respect present and future energy needs.

TMHE strives to reduce environmental impact throughout the product life cycle, from design, manufacturing and operation through to recycling at end-of-life. Manufactured at TMHE's ISO 14001-certified plant in Mjölby, Sweden, the BT Levio provides clean, emissions-free operation and is designed for easy recycling following many years of reliable service.

BT Levio's manufacturing process uses the latest welding and powder painting technology to minimise its environmental

impact. The majority of the material used to make BT Levio trucks is steel, which is fully recyclable. Battery recycling is carried out by approved waste management firms. The lead is melted down and reused, the acid is neutralised and the energy in the plastic is used for heating.

A declaration of the emissions and waste during the manufacturing process and typical life cycle is available on request.



Choose the features that suit your needs

LWE140



LWE160

Shown with optional E-bar



LWE180



LWE200



LWE200

with platform



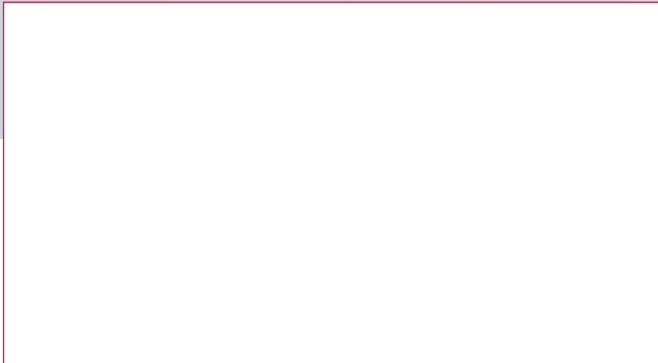
LWE250



| | LWE140 | LWE160 | LWE180 | LWE200 | LWE250 |
|--|--------|--------|--------|--------|--------|
| Truck features | | | | | |
| Bogie fork wheels | ○ | ○ | ○ | ○ | ● |
| BT Powerdrive | ● | ● | ● | ● | ● |
| Castor link | ● | ● | ● | ● | ● |
| Climber wheels | ● | ● | ○ | ○ | ○ |
| High-capacity battery models | | | ○ | ○ | ○ |
| Driving features | | | | | |
| 180°+ steering | ● | ● | ● | ● | ● |
| Automatic deceleration | ● | ● | ● | ● | ● |
| Electronic regenerative brakes (motor brake) | ● | ● | ● | ● | ● |
| Electronic speed control | ● | ● | ● | ● | ● |
| Flip-down driver platform | | | | ○ | |
| Controls and instruments | | | | | |
| Click-2-Creep | ● | ● | ● | ● | ● |
| Drive motor temperature warning | ● | ● | ● | ● | ● |
| Electronic controller temperature warning | ● | ● | ● | ● | ● |
| Electronic fingertip controls | ● | ● | ● | ● | ● |
| Hour meter (working hours) | ● | ● | ● | ● | ● |
| Information display | ● | ● | ● | ● | ● |
| Temporary speed reduction ('turtle' button) | ○ | ○ | ○ | ○ | ○ |
| Tiller arm steering | ● | ● | ● | ● | ● |
| Safety features | | | | | |
| Automatic parking brake | ● | ● | ● | ● | ● |
| BT Access Control | ● | ● | ● | ● | ● |
| Emergency collision button | ● | ● | ● | ● | ● |
| Emergency cut-off | ● | ● | ● | ● | ● |
| Load support (stand-alone or with E-bar) | ○ | ○ | ○ | ○ | ○ |
| Parking brake | ● | ● | ● | ● | ● |
| Programmable performance | ● | ● | ● | ● | ● |
| Operator features | | | | | |
| E-bar | ○ | ○ | ○ | ○ | ○ |
| On-board data terminal mount (with E-bar) | ○ | ○ | ○ | ○ | ○ |
| Storage compartments | ● | ● | ● | ● | ● |
| Shrinkwrap holder (with E-bar) | ○ | ○ | ○ | ○ | ○ |
| Writing table (with E-bar) | ○ | ○ | ○ | ○ | ○ |
| Maintenance features | | | | | |
| Easy access for maintenance | ● | ● | ● | ● | ● |
| Fault diagnosis facility | ● | ● | ● | ● | ● |
| Historic fault log | ● | ● | ● | ● | ● |
| Battery management features | | | | | |
| Battery status indicator | ● | ● | ● | ● | ● |
| Battery discharge prevention system | ● | ● | ● | ● | ● |
| Built-in charger | ○ | ○ | ○ | ○ | ○ |
| Sideways battery change | | | | ○ | ○ |
| Special applications | | | | | |
| EEx version (ATEX) | ○ | ○ | ○ | ○ | ○ |
| Reel/drum handling | ○ | ○ | ○ | ○ | ○ |
| With weighing scale | ○ | ○ | ○ | ○ | ○ |

● standard ○ optional

For additional details about the BT Levio, see www.bt-levio.eu



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