

BT staxio

0.8 – 2.0 tonne
Electric Powered Stackers





W-series



W-series



P-series



S-series



R-series

BT Staxio – the *complete* range of powered stackers

Support arm stackers are effective and economical in all types of store – large and small. Toyota offers the most complete range for all types of application, with exceptional lift heights of up to 6.3 metres. All BT Staxio models are designed and built to deliver *productivity, safety and durability*, and standard models are able to work effectively in chilled environments.

All models in the BT Staxio range deliver exceptional performance combined with outstanding manoeuvrability and smooth, controlled load handling – to drive down costs in operations.

Pedestrian **W-series** models offer load capacities from 800kg up to 1400kg and lift heights up to 4.8 metres. Designed to be easy to use, all day, every day BT Staxio W-series is available with a 'Panoramic view' mast, which offers an unprecedented view of the load and fork tips.

For more intensive applications, BT Staxio **P-series** models come equipped with a flip-down operator platform, making them suitable for longer-distance transportation. Load capacities up to 2000kg and lift heights up to 5.4 metres are available.

For the most demanding applications the BT Staxio **S-series** 'stand-in' and **R-series** seated cab models deliver the highest levels of productivity and safety. All models have full overhead guards as part of their 'no-compromise' design.

BT Staxio W-series 1000 kg load capacity

The HWE100 is the simplest model in the BT Staxio W-series – a compact truck that provides safe, easy horizontal pallet movement and stacking in low-intensity applications. The HWE100's low weight, compact size and 1000 kg load capacity make it ideal in a wide range of applications.

The BT Staxio HWE100 is a compact yet versatile walk-with stacker that can also function as a pallet truck, order picker and adjustable worktable. Its easy-to-use controls, ergonomic steering, and maintenance-free batteries with built-in charger are suitable for all levels of operating experience.

BT Castorlink

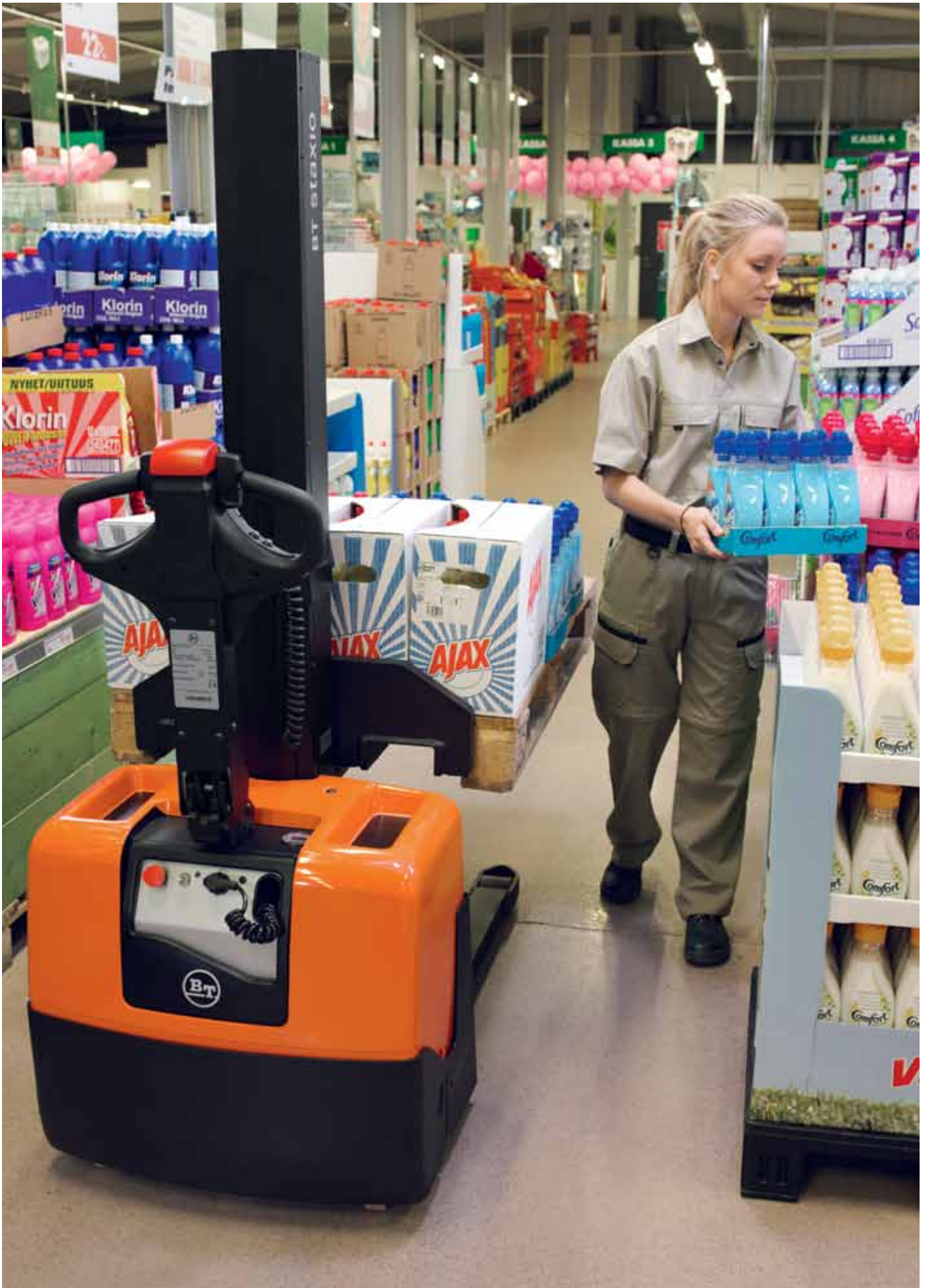
The HWE100 features the unique BT Castorlink system with castor wheels that rotate within the truck's body profile. This provides smooth and easy operation on ramps and reduces the risk of wheel damage.



The HWE100S offers the same features as the HWE100 but also has straddle arms for handling different pallet sizes. Both models have a maximum lift height of two metres



The HWE100 has BT's unique 5-wheel chassis for excellent stability and control





BT Staxio W-series 800 kg–1400 kg load capacity

simple to use

Powered stackers are versatile machines put to a wide range of uses: in-rack and block stacking, vehicle loading and unloading, order picking and general pallet transport. They provide essential lifting power in warehouses and retail premises where safety and manoeuvrability are particularly important. BT Staxio 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 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 Staxio W-series 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.

Unique chassis

BT Staxio W-series and P-series unique five-wheel chassis, with its central control arm, improves stability on ramps and makes all operation, particularly manoeuvring, easier. Sensi-lift, which is available on most models, provides the most accurate lift/lower control for easy and accurate placement, reducing the risk of errors and therefore driving down costs.

Exceptional visibility

On all W-series models the design of the truck body allows a clear view of the forks. The control arm is designed so that the distance between operator and truck gives safe protection of the operator's feet while still allowing him or her to have an excellent view of the fork tips or load. These two features combine with clear-view masts to create the 'BT Totalview' concept, ensuring the operator has excellent visibility both at ground level and when positioning at height.

Features for the real world

All BT Staxio 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 ancillary equipment such as PCs, radio-data terminals and barcode scanners.



The BT Totalview design concept ensures the fork tips are visible from the operating position



BT's unique 5-wheel chassis improves stability on ramps

BT Staxio W-series 800 kg–1400 kg load capacity *designed for safety*

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

Keep your distance

The W-series ergonomic control arm is the ideal 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 Staxio is available with a 'turtle' button for temporary speed reduction. The standard 'Click-2-Creep' facility allows the truck to be manoeuvred with the handle upright – ideal in confined and busy spaces.

Protection for the operator

The 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.

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. When working on gradients the truck is designed to ensure no risk of rolling back when starting or stopping.



BT Staxio W-series' profile allows manoeuvrability in the tightest conditions



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

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 BT Staxio W-series advanced design and the result is more uptime, which means more work done for less cost.

Designed to simply keep going

The BT Staxio W-series has been developed and will be manufactured using the advanced 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 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. W-series models are 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 Staxio P-series

lifting productivity

Built on the Toyota technologies of Powerdrive and Powertrak, each BT Staxio truck is fast, smooth, and stable in all conditions. Combined with large battery capacities and sideways battery change, BT Staxio P-series will lift your productivity, saving time and driving down costs.

High performance, vertically and horizontally

With a maximum travel speed of 8 km/h, P-series trucks ensure maximum productivity. Lift/lower performance is equally impressive, meaning less time spent stationary and more time moving loads, and all of this in trucks with a small footprint, maximising manoeuvrability. The flip-down platform adds very little to the trucks' dimensions when upright, enabling these trucks to be steered through the tightest situations.

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 Staxio P-series can achieve more work cycles per battery charge than conventional powered stackers.

Sensi-lift

Lifting speed on all BT Staxio models can be precisely

controlled using the intuitively designed rocker switch on the truck handle. This allows faster workcycles, as the operator has excellent control over the load at all times. The lifting movement stops as soon as the switch is released, for effective placement and retrieval. This reduces the risk of error, and drives down costs.

Grip, not slip

All BT Staxio P-series models are built on BT's patented Powertrak chassis. A hydraulic system ensures that the downforce applied to the drivewheel is proportional to the load on the forks, for optimum traction.

Battery management

A choice of compartments is available for batteries up to 440 Ah. All models are designed for fast sideways battery change using optional rollerbeds.

Easily adaptable

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.



The tiller arm's control handle incorporates BT Powerdrive technology, for easy, intuitive control



'Smart access' with a remote key or card ensures the truck starts-up with the appropriate performance settings for each operator



BT Staxio P-series

high-level safety

Lifting loads to heights of up to 5.4 metres, BT Staxio P-series is the safe choice for high-performance stacking. BT's five-wheel chassis gives the best combination of control and stability, both when lifting and when manoeuvring on gradients, and provides excellent load capacity at height.

A choice of guards

Standard folding sideguards offer protection to the operator without compromising the advantages of the flip-down platform for manoeuvrability, meaning that the operator can dismount and control the truck as a pedestrian when required. For maximum safety in operation BT Staxio P-series trucks are available with fixed sideguards. Several models are also available with an alternate rear backrest/guard.

A choice of platforms

For applications requiring long travel distances and intensive operation, such as cross-docking, a rider platform is essential for productivity. There is a range of options, including soft and hard suspension springing, 'stay-down' or 'stay-up' configuration, and the Ergo platform, for maximum operator comfort.

BT Staxio P-series models can be specified without platform and these models have a longer control arm optimised for pedestrian use.

Always in control

The ergonomic handle offers 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.

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. A time at which the truck should shutdown can also be programmed. The handle also allows access to the trucks' on-board fault diagnosis and logging system, via its digital display.

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 up to 10 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.



Folding sideguards offer protection to the operator without compromising the manoeuvrability advantages of the flip-down platform



BT Staxio P-series models can be specified with or without rider platforms

Toyota durability = maximum uptime

BT Staxio P-series is 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.

Fewer parts

The total number of components in the BT Powerdrive system has been significantly reduced in relation to conventional electric trucks, leading to greater reliability and efficiency. On-board fault diagnosis and easy access to internal parts maximise uptime.

High-quality construction

All BT Staxio P-series trucks are built with the highest quality components. For example, all bushings on the SPE models are constructed from bronze, with lubrication points, for a long and reliable life.

Pedestrian reach truck

Part of the BT Staxio P-series range, the RWE120 is a pedestrian reach truck with moving mast. It also has adjustable width forks, for mixed or bottom-boarded pallet handling. Its maximum lift height is 4.8 m and load capacity 1200 kg.



BT Powerdrive reduces components to a minimum



The RWE120 is a pedestrian-operated reach truck with a lift height of 4.8 m



BT Staxio S-series *with 'stand-in' cab design*

The BT Staxio S-series has been developed for applications where it may be desirable for the operator to work in a fully enclosed cab, while maintaining a standing position for speed and flexibility. The series offers load capacities of 1350 kg (SSE135) and 1600 kg (SSE160) and a maximum lift height of 6.3 m.

The transverse driving position is optimised for travel in both directions and its clearview masts and overhead guards enable safe load handling at all heights. Acceleration rate, maximum travel speed and steering sensitivity are all programmable on BT Staxio S-series models, to suit each operator and application.

Steering is light and accurate thanks to BT's 'spinner wheel' design. The control knob allows effortless manoeuvring and the overall design means fingertip control at driving speeds. Lift/lower is equally easy with by fingertip-operated electronic levers.

A safety pedal is carefully located to accommodate alternate driving positions, and all electrical and mechanical components are easily accessible for servicing and troubleshooting..

Double load handling

On S-series 'L' models two separate loads can be carried at the same time thanks to their elevating support arms (SSE135L: 675kg on support arms, 675kg on forks. SSE160L: 800kg on support arms, 800kg on forks).

In-vehicle operation

Designed with a narrow chassis of just 770 mm and without overhead guard for work in vehicles, the SSE160D is ideal for double loading and unloading. Like the SSE160D, it can carry 800 kg simultaneously on both support arms and forks.

With the forks lowered the support arm lift has a maximum capacity of 1600 kg for horizontal travel and 1200 kg for stacking.



The visibility window adds to the S-series' high safety standards



The battery on S-series models is seated on rollers with a built in battery table, allowing easy sideways battery exchange

BT Staxio R-series *rider-seated range*

The BT Staxio R-series suits the most intensive stacking applications. The seated cab ensures driver comfort and safety over long shifts. The four models, two with fixed and two with elevating support arms, are available with lift heights up to 6300 mm and load capacities of 1350 kg and 1600 kg.

The R-series cab provides total protection for the operator, and assures comfort thanks to a fully adjustable seat, armrest and pedal positions. Electronic steering is a standard feature. The small 'spinner wheel' provides fingertip control for the highest levels of manoeuvrability.

Clearview masts and overhead guards enable safe load handling at all heights and the rear visibility window further enhances safety. The battery is easily changed in multi-shift operation via a built-in rollerbed.

Double load handling

The SRE135L and SRE160L models feature elevating support arms that allow effective operation on ramps or over uneven surfaces. These also allows double pallet handling, with 675 kg + 675 kg (SRE135L) and 800 kg + 800 kg (SRE160L).



Pedal layout is as in a car, optimising safety and productivity



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





Materials handling

Toyota Material Handling has a strong European presence with its Toyota and BT brands, establishing close geographic links with its customers in order to better respond to their needs. Toyota has operations in more than 30 countries, and production centres in Ancenis (France), Bologna (Italy) and Mjölby (Sweden).

Toyota Production System

The Toyota Production System (TPS) empowers team members to optimise 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

Toyota Material Handling 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, Toyota 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

Toyota 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. Toyota strives to reduce environmental impact throughout the product life cycle, from design, manufacturing and operation through to recycling at end-of-life. Toyota's production centres are all 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. CO₂ 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, Toyota seeks to continuously improve the recyclability levels of its products.

Choose the features that suit your needs

• standard ◦ option

	BT Staxio HVE100/100S	BT Staxio SWE080L	BT Staxio SWE100	BT Staxio SWE120	BT Staxio SWE120L	BT Staxio SWE120S	BT Staxio SWE140	BT Staxio SWE140L	BT Staxio SWE200D	BT Staxio SPE125	BT Staxio SPE125L	BT Staxio SPE135S	BT Staxio SPE160	BT Staxio SPE160L	BT Staxio SPE200	BT Staxio SPE200L	BT Staxio SPE200D	BT Staxio SSE	BT Staxio SSE160D	BT Staxio SRE	
Truck features																					
Adjustable width over forks	◦					•							•								
Automatic height adjustment	◦	◦																			
Bogie fork wheels		◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
BT Powerdrive		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BT Castorlink	•	•																			
Choice of chassis widths							•	•		◦	◦		◦	◦	◦	◦					
Double pallet handling									•						•		•	•	•	•	•
Elevating support arms		•			•				•	•					•		•	•	•	•	•
High-capacity battery models				◦	◦	◦	◦	◦	◦	•	•	•	•	•	•	•	•	•	•	•	•
Powertrak traction system										•	•	•	•	•	•	•	•	•	•	•	•
Spring-loaded castors with dampers	•																				
Spring-loaded drive wheel			•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Straddle support arm version	◦					•						•									
Driving features																					
180°+ steering	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
208° steering				•	•	•	•	•	•												
360° progressive steering									•												
Automatic deceleration		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Electronic braking system	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Electronic regenerative brakes (motor)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Electronic speed control	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Flip-down driver platform			◦	◦	◦	◦	◦	◦	◦	•	•	•	•	•	•	•	•	•	•	•	•
Controls and instruments																					
Adjustable BT Control console																					•
Click-2-Creep		•	•	•	•	•	•	•	•												
Creep speed function		•	•	•	•	•	•	•	•												
Drive motor temperature warning		•	•	•	•	•	•	•	•												
Electronic controller temperature warning		•	•	•	•	•	•	•	•												
Electronic fingertip controls	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hour meter (working hours)	◦	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Information display		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power/Electronic steering										◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Sensi-lift				◦	◦	◦	◦	◦	◦	•	•	•	•	•	•	•	•	•	•	•	•
Steering direction indicator																				◦	
Temporary speed reduction ('turtle' button)			◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Tiller arm steering	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Safety features																					
Automatic parking brake	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BT Access Control (PIN codes)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clear-view mast			◦	◦	◦	◦	◦	◦	◦	•	•	•	•	•	•	•	•	•	•	•	•
Smart Access (electronic cards/fobs)		◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Clear-view overhead guard										◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Driver detection system										•	•	•	•	•	•	•	•	•	•	•	•
Emergency collision button	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Emergency cut-off	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fixed sideguards										◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Folding sideguards										•	•	•	•	•	•	•	•	•	•	•	•
Load support			◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Parking brake	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Automotive style pedals																					•
Programmable performance		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rear backrest/guard										◦	◦		◦	◦							
Warning beacon																					◦
Working lights																					◦
Operator features																					
Adjustable backrest																					•
Adjustable seat																					•
Adjustable steering wheel																					•
E-bar		◦	◦	◦	◦	◦	◦	◦	◦												◦
Low step-in																					•
On-board data terminal mount		◦	◦	◦	◦	◦	◦	◦	◦												◦
Shrinkwrap holder		◦	◦	◦	◦	◦	◦	◦	◦												◦
Storage compartments	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Writing table		◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Maintenance features																					
Easy access for maintenance		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fault diagnosis facility		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Historic fault log		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Battery management features																					
Battery change facility										◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Battery status indicator	◦	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Battery discharge prevention system		•	•	•	•	•	•	•	•												
Built-in charger	•	◦	◦	◦	◦	◦	◦	◦	◦												
Heavy-duty battery compartments										•	•	•	•	•	•	•	•	•	•	•	•
Sideways battery change				◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Special applications																					
Coldstore version										◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
EEx version (ATEX)		◦	◦	◦	◦	◦	◦	◦	◦												◦



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TOYOTA

MATERIAL HANDLING

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