

Toyota Electric Counterbalanced Trucks

Toyota Traigo 48 series with Lithium-Ion Battery



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TOYOTA MATERIAL HANDLING INTERNATIONAL

Lithium-Ion range from Toyota

With this Lithium-Ion offer, we are able to provide energy-efficient, flexible and cost-saving solutions that fit every type of customer operation.

The Lithium-Ion battery technology is especially beneficial in multi-shift operations. As these batteries allow for opportunity charging, battery change is no longer needed, and neither are spare batteries or charging rooms. Instead, trucks can be recharged quickly by the operator during breaks. Eventually, unnecessary downtime is reduced to a minimum, resulting in higher productivity in the operation. Lithium-Ion batteries also have proven to be 30% more energy-efficient than lead-acid batteries, significantly reducing CO2 emissions. In combination with a lifecycle that is 4 times longer, these batteries really are environmentally conscious. Investing in Lithium-Ion technology leads to a better driver experience, as well as higher flexibility, productivity and energy efficiency, while taking the environment into account.

Key advantages

Lithium-Ion based truck technology is continuously developing to offer considerable advantages over conventional lead acid powered trucks in terms of energy efficiency, environment, simplicity and return on investment.

Energy efficiency/environment

- 30% saving on energy
- Reduced CO2 emissions
- No extra battery
- Longer lifecycle (4 times longer)

Simplicity/ease of use

- No battery change
- No separate charging room
- No maintenance (no water to fill in)
- Opportunity quick charging (during breaks)
- 1 truck - 1 battery (no extra battery needed)

Return on investment

- Add flexibility to your operation
- Cost-saving in the long term
- Increased efficiencies

Toyota Traigo 48

48-VOLT 3 & 4-WHEEL TRUCK



Powerful all-round trucks for light to more intense use

1.5 – 2.0 TONNES LOAD CAPACITIES
TRAVEL SPEED UP TO 20 KM/H



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TRAIGO 48 -3-wheel

Manoeuvrability is key to the design of the Traigo 48, allowing easy use in the tightest situations, for maximum productivity. The 3-wheel chassis is particularly agile, with a very competitive aisle width dimension. This means that Traigo 48 is as effective working inside within pallet racking as it is working outside in the yard or in a loading bay.

SPECIFICATIONS

Load capacity: 1.5, 1.6, 1.8, 2.0 t @ 500 mm load centre

Maximum lift height: 7.5 m

Maximum travel speed: 16 km/h

Maximum battery capacity: 300Ah - 420Ah

Options available: LSite

SAS
LI-ION





Different pedal layouts to suit driver preference.
(Double pedal layout option shown)



Rear-assist grip enhances reverse travel comfort and productivity by reducing operator back strain. Optional swivel seat facilitates reversing and getting in and out.



Lithium-Ion batteries are maintenance free and allow a very short charging time.



Powerful yet energy-efficient optional LED working lights increase visibility and allow work to continue in dark or unlit areas.

● standard ◦ option ✦ Available as part of Plus Package

Load handling

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Wide Visible Mast (V)					●	●	●	●	●	●
Full-free (twin cylinder) 2-stage mast (FW)					◦	◦	◦	◦	◦	◦
Full-free (twin cylinder) 3-stage mast (FSW)					◦	◦	◦	◦	◦	◦
Full-free (central cylinder) 2-stage mast (FV)					◦	◦	◦	◦	◦	◦
Full-free (central cylinder) 3-stage mast (FSV)					◦	◦	◦	◦	◦	◦
Fully oil-charged lift cylinder			✦		◦	◦	◦	◦	◦	◦
Shockless landing lift		✦			◦	◦	◦	◦	◦	◦
Hydraulic cushioned forks			✦		◦	◦	◦	◦	◦	◦
Hydraulic accumulator (full charge)					◦	◦	◦	◦	◦	◦
Integrated sideshift					◦	◦	◦	◦	◦	◦
Fork positioner					◦	◦	◦	◦	◦	◦
Quick couplings					◦	◦	◦	◦	◦	◦

Lights and indicators

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Front combination lights (LED)		✦			◦	◦	◦	◦	◦	◦
Rear combination lights (LED)		✦			◦	◦	◦	◦	◦	◦
Headlights (STD/LED)					◦	◦	◦	◦	◦	◦
Rear/double working light (STD/LED)					◦	◦	◦	◦	◦	◦
Blue LED rear warning light					◦	◦	◦	◦	◦	◦
Yellow beacon (Flashing, Rotary)					◦	◦	◦	◦	◦	◦
Back-up buzzer					◦	◦	◦	◦	◦	◦
Horn in steering wheel					●	●	●	●	●	●
Horn in armrest	✦				◦	◦	◦	◦	◦	◦

Body

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Low and large step on both sides + large hand grip					●	●	●	●	●	●
Electric Power steering inc. Steering synchroniser					●	●	●	●	●	●
Digital multifunction display with wheel indicator					●	●	●	●	●	●
Digital multifunction display (Deluxe)	✦				◦	◦	◦	◦	◦	◦
Mast tilt indicator					◦	◦	◦	◦	◦	◦
Load weight indicator					◦	◦	◦	◦	◦	◦
Adjustable tilt steering column with memory function					●	●	●	●	●	●
Wet disk brakes					●	●	●	●	●	●
Rear view mirror, left and right side					◦	◦	◦	◦	◦	◦
Flat/Panoramic internal rear view mirror					◦	◦	◦	◦	◦	◦
Seat mounted hydraulic minilevers inc. Fork levelling switch					●	●	●	●	●	●
Seat mounted Multifunction Lever inc. Fork levelling switch					◦	◦	◦	◦	◦	◦
Multifunction Joystick					◦	◦	◦	◦	◦	◦
Left hand shift lever					◦	◦	◦	◦	◦	◦
Car pedal layout with wide brake pedal					●	●	●	●	●	●
D2 pedal					◦	◦	◦	◦	◦	◦
Double accel pedal					◦	◦	◦	◦	◦	◦
Toyota ORS seat (Operator Restrain System)					●	●	●	●	●	●
Fully adjustable fabric ORS seat					◦	◦	◦	◦	◦	◦
Swivel seat					◦	◦	◦	◦	◦	◦
Shock sensor					◦	◦	◦	◦	◦	◦
Height selector					◦	◦	◦	◦	◦	◦
Pin code entry system / smart card reader					◦	◦	◦	◦	◦	◦
Automatic Parking Brake					●	●	●	●	●	●

● standard ◦ option

Body

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Heater					◦	◦	◦	◦	◦	◦
Tilt cylinder boots					◦	◦	◦	◦	◦	◦
Comfort cabin					◦	◦	◦	◦	◦	◦
Steel cabin					◦	◦	◦	◦	◦	◦
Cabin without doors					◦	◦	◦	◦	◦	◦
Canvas cabin					◦	◦	◦	◦	◦	◦
Front windshield with wiper & roof					◦	◦	◦	◦	◦	◦
Body guard					◦	◦	◦	◦	◦	◦
Rear assist grip with horn button					◦	◦	◦	◦	◦	◦
A4 size binder					◦	◦	◦	◦	◦	◦

Safety features

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Toyota SAS (System of Active Stability)					●	●	●	●	●	●
Operator Presence Sensing System (OPS)					●	●	●	●	●	●
Max speed and acceleration reduction with lifted load					◦	◦	◦	◦	◦	◦
Emergency stop button in armrest					◦	◦	◦	◦	◦	◦

Maintenance & management features

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Rugged exterior body and easy access for maintenance					●	●	●	●	●	●
I-site fleet management system					◦	◦	◦	◦	◦	◦
Pre-operational check					◦	◦	◦	◦	◦	◦

Battery management features

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Battery lift-out					◦	◦	◦	◦	◦	◦
Battery low lift-out					◦	◦	◦	◦	◦	◦
Battery roll-out					◦	◦	◦	◦	◦	◦
Battery side-out for fork pockets					◦	◦	◦	◦	◦	◦

Special applications

	Safety	Durability	Productivity	Driveability	8FBE15T	8FBEK16T	8FBE16T	8FBEK18T	8FBE18T	8FBE20T
Rustproof model					◦	◦	◦	◦	◦	◦
Fisherman model					◦	◦	◦	◦	◦	◦
Drive in rack overhead guard					◦	◦	◦	◦	◦	◦
High overhead guard					◦	◦	◦	◦	◦	◦
Low overhead guard					◦	◦	◦	◦	◦	◦

Toyota SAS

The unique System of Active Stability (SAS) is the world's first active system for controlling forklift stability. By protecting the operator and load when driving, turning and lifting, SAS provides advanced technology increasing safety in the workplace and improving productivity. It includes: SAS Active Mast Tilt Angle Control, SAS Active Mast Tilt Speed Control, SAS Fork Levelling, SAS Active Steering Synchroniser.

Easy driver interface

The multifunction display, which is easy to see and reach, gives key information at a glance. It also allows for parameter setting to suit driver or application needs, as well as providing fault diagnosis. The driver has the benefit of a fully adjustable Operator Restraint System (ORS) with side-wings and lumbar support, along with an adjustable steering column. The steering column itself is very slim, for maximum legroom.

Class-leading in energy efficiency

Delivering class-leading productivity through increased performance with less energy consumption. Traigo 48 models are highly energy-efficient, in combination with the li-ion battery for intensive operations. Li-ion battery technology provides exceptional battery life and the option for fast, opportunity charging at any time, revolutionising battery management and eliminating the need for battery change in multi-shift applications.

TPS-based reliability

Like all Toyota trucks, Toyota Traigo 48 trucks are built according to the Toyota Production System, assuring the highest levels of quality, durability and reliability.



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TRAIGO 48 -4-wheel

Versatile, high-performance and powerful trucks, with travel speed up to 20km/h, quick acceleration and lift/lower speeds. The 4-wheel design gives high-level stability and is ideal for work on uneven surfaces. Suitable for indoor and outdoor work.

SPECIFICATIONS

Load capacity: 1.6, 1.8, 2.0 t @ 500 mm load centre

Maximum lift height: 7.5 m

Maximum travel speed: 20 km/h

Maximum battery capacity: 300 Ah-420Ah

Options available: [I_Site](#)

SAS
LI-ION





Fully adjustable Operator Restraint System (ORS) with side-wings and lumbar support. Now with a longer belt latch that is quicker and easier to locate for the operator, increasing safety in the workplace.



Multifunction display gives key information at a glance, and allows the parameter settings to be adjusted to suit the needs of the application.



Lithium-Ion batteries are maintenance free and allow a very short charging time.



Visibility FV mast provides a clear view at all angles.

● standard ○ option ✦ Available as part of Plus Package

Load handling

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Wide Visible Mast (V)	●				●	●	●	●	●
Full-free (twin cylinder) 2-stage mast (FW)					○	○	○	○	○
Full-free (twin cylinder) 3-stage mast (FSW)					○	○	○	○	○
Full-free (central cylinder) 2-stage mast (FV)					○	○	○	○	○
Full-free (central cylinder) 3-stage mast (FSV)					○	○	○	○	○
Fully oil-charged lift cylinder					○	○	○	○	○
Shockless landing lift		✦			○	○	○	○	○
Hydraulic cushioned forks			✦		○	○	○	○	○
Hydraulic accumulator (full charge)			✦		○	○	○	○	○
Integrated sideshift					○	○	○	○	○
Fork positioner					○	○	○	○	○
Quick couplings					○	○	○	○	○

Lights and indicators

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Front combination lights (LED)		✦			○	○	○	○	○
Rear combination lights (LED)		✦			○	○	○	○	○
Headlights (STD/LED)					○	○	○	○	○
Rear / Double working light (STD / LED)					○	○	○	○	○
Blue LED rear warning light					○	○	○	○	○
Yellow beacon (Flashing, Rotary)					○	○	○	○	○
Back-up buzzer					○	○	○	○	○
Horn in steering wheel					●	●	●	●	●
Horn in armrest		✦			○	○	○	○	○

Body

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Low and large step on both sides + large hand grip		✦			●	●	●	●	●
Full hydraulic power steering inc. Steering synchroniser					●	●	●	●	●
Digital multifunction display with wheel indicator					●	●	●	●	●
Digital multifunction display (Deluxe)		✦			○	○	○	○	○
Mast tilt indicator					○	○	○	○	○
Load weight indicator					○	○	○	○	○
Adjustable tilt steering column with memory function					●	●	●	●	●
Wet disk brakes		✦			●	●	●	●	●
Rear view mirror, left and right side					○	○	○	○	○
Flat / Panoramic internal rear view mirror					○	○	○	○	○
Seat mounted hydraulic minilevers inc. Fork levelling switch					●	●	●	●	●
Seat mounted Multifunction Lever inc. Fork levelling switch					○	○	○	○	○
Multifunction Joystick					○	○	○	○	○
Left hand shift lever					○	○	○	○	○
Car pedal layout with wide brake pedal					●	●	●	●	●
D2 pedal					○	○	○	○	○
Double accel pedal					○	○	○	○	○
Toyota ORS seat (Operator Restrain System)					●	●	●	●	●
Fully adjustable fabric ORS seat					○	○	○	○	○
Swivel seat					○	○	○	○	○
Shock sensor		✦			○	○	○	○	○
Height selector					○	○	○	○	○
Pin code entry system / smart card reader					○	○	○	○	○
Automatic Parking Brake					●	●	●	●	●
Heater					○	○	○	○	○

● standard ○ option

Body

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Tilt cylinder boots		✦			○	○	○	○	○
Comfort cabin					○	○	○	○	○
Steel cabin					○	○	○	○	○
Cabin without doors					○	○	○	○	○
Canvas cabin					○	○	○	○	○
Front windshield with wiper & roof					○	○	○	○	○
Body guard					○	○	○	○	○
Rear assist grip with horn button			✦		○	○	○	○	○
A4 size binder					○	○	○	○	○

Safety features

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Toyota SAS (System of Active Stability)		✦			●	●	●	●	●
Operator Presence Sensing System (OPS)					●	●	●	●	●
Max speed and acceleration reduction with lifted load		✦			○	○	○	○	○
Speed reduction when cornering		✦			○	○	○	○	○
Emergency stop button in armrest		✦			○	○	○	○	○

Maintenance & management features

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Rugged exterior body and easy access for maintenance		✦			●	●	●	●	●
I-site fleet management system		✦			○	○	○	○	○
Pre-operational check					○	○	○	○	○

Battery management features

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Battery lift-out					○	○	○	○	○
Battery low lift-out					○	○	○	○	○
Battery roll-out					○	○	○	○	○
Battery side-out for fork pockets					○	○	○	○	○

Special applications

	Safety	Durability	Productivity	Driveability	8FBM16T	8FBM16T	8FBM18T	8FBM20T	8FBM20T
Rustproof model		✦			○	○	○	○	○
Fisherman model					○	○	○	○	○
Drive in rack overhead guard					○	○	○	○	○
High overhead guard					○	○	○	○	○
Low overhead guard					○	○	○	○	○

Toyota SAS

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Easy driver interface

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Class-leading in energy efficiency

Delivering class-leading productivity through increased performance with less energy consumption. Traigo 48 models are highly energy-efficient, in combination with the li-ion battery for intensive operations. Li-ion battery technology provides exceptional battery life and the option for fast, opportunity charging at any time, revolutionising battery management and eliminating the need for battery change in multi-shift applications.

TPS-based reliability

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The data in this brochure was determined based on our standard testing condition. Operating performance may vary depending on the actual specifications and condition of the vehicle, as well as the conditions of the operating area.

Due to photography and printing, color of actual vehicle may vary from this brochure. Some photos have been computer-enhanced.

Availability and specifications are determined by market and are subject to change without notice.

Safe forklift operation is achieved by proper operator training and proper worksite rules. Please consult your Toyota representative regarding forklift selection and operator training.

Please consult your Toyota representative for details.

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