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### Toyota Towing Tractors

The Tracto and Simai Range



TOYOTA

MATERIAL HANDLING

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Tracto W-series

PEDESTRIAN TOWING TRACTORS

Tracto N-series

LIGHT-DUTY STAND-IN TOWING TRACTORS

Tracto S-series

**HEAVY-DUTY STAND-IN TOWING TRACTORS** 

Simai 3-wheel series

COMPACT STAND-IN AND SIT-ON TOWING TRACTORS



HEAVY-DUTY STAND-IN TOWING TRACTORS WITH PNEUMATIC TYRES

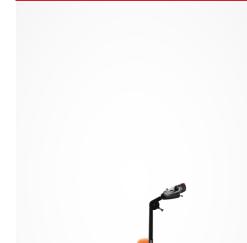
Tracto R-series

HEAVY-DUTY RIDER-SEATED TOWING TRACTORS WITH PNEUMATIC TYRES

Tracto R-series

HEAVY-DUTY RIDER-SEATED TOWING TRACTORS WITH PNEUMATIC TYRES

Simai 4-wheel series



Easy-to-use tow trucks with quick carrier connection, ideal for roll cages

0.8 – 1.5 tonne load capacities

Travel speed up to 4.5 km/h

P.4-7

P.8-11

Narrow chassis trucks for light-duty towing or order picking

1.0 - 1.5 tonne load capacities

Travel speed up to 12 km/h

P.12-15



High-performance tow trucks with easy on/off, for heavy-duty towing and order picking

3.0 - 5.0 tonnes load capacities

Travel speed up to 12 km/h

P.16-19



Manoeuvrable towing tractors for indoor and outdoor towing

3.0 - 7.0 tonnes load capacities

Travel speed up to 18 km/h



Compact stand-in towing tractors for horizontal transport with frequent on/off

2.0 - 4.0 tonnes load capacities

Travel speed up to 13 km/h

P.20-23



High-performance tow tractors for long travel distances and heavy-duty towing

2.0 - 6.0 tonnes load capacities

Travel speed up to 18 km/h

P.24-27



Electric powered trucks for long travel distances and heavy loads

27.0 tonnes load capacities

Travel speed up to 25 km/h

P.24-27

LIGHT- TO HEAVY-DUTY RIDER-SEATED TOWING TRACTORS WITH PNEUMATIC TYRES



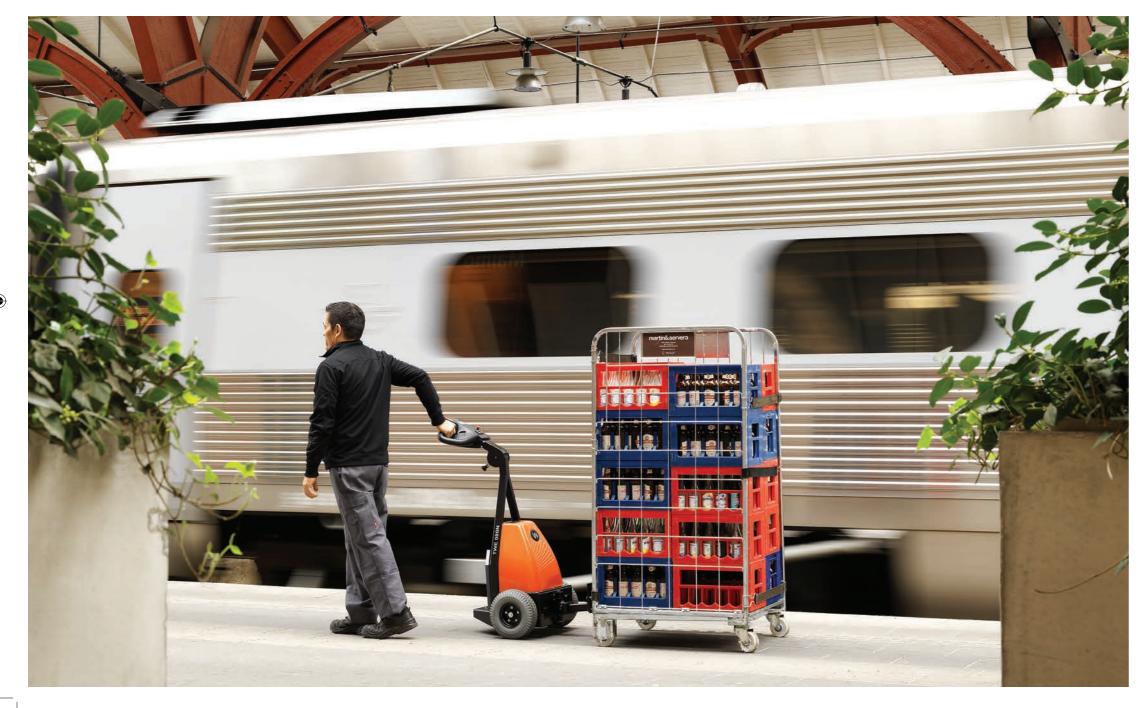
Front and rear cabin design tractors for long distance towing of light and heavy loads

8.0 - 50 tonnes load capacities

Travel speed up to 25 km/h

P.28-31





# TRACTO

# W-SERIES

The Tracto W-series is a pedestrian-operated towing solution that takes the strain out of moving loads, with a choice of handling capacities from 0.8 t to 1.5 t.

### SPECIFICATIONS

**Load capacity:** 0.8, 1.0, 1.5 t

Maximum travel speed: 4.5 km/h



T-Motion Brochure Tracto.indd 4-5

PEDESTRIAN TOWING TRACTORS | 7

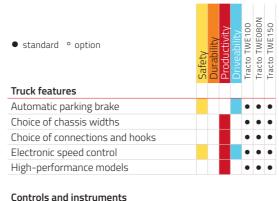
A variety of hooks allows connection to all common manual load carriers.

#### A flexible solution

TWE080N is an extra compact variant for retail applications.

Remote control option for transport

Gel batteries standard for TWE080N and optional for TWE100, TWE150.







Easy access for maintenance			•	•	•
Battery management features					
D 11					



TWE080N

### The right connection

of nested shopping trolleys.



Load connection is easy, with a variety of attachments available.



Control handle is comfortable and easy to use with a clear

and concise battery status display.

6 | TOYOTA MATERIAL HANDLING



Maintenance-free gel batteries are fitted standard

on the TWE080N.



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# TOYOTA TRACTO

N-SERIES

The Tracto N-series trucks are lightweight and very compact, suitable for use in a great range of environments. They feature a very low step-in and easy trailer connection. The TSE100/150 models work with traditional hook-on trailers.

### SPECIFICATIONS

Load capacity: 1.0, 1.5 t

Maximum travel speed: 12 km/h







T-Motion Brochure Tracto.indd 8-9





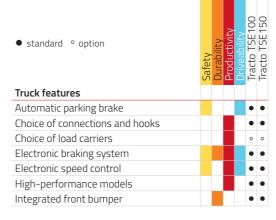
Fast and easy battery change.



'Spinner wheel' steering and PIN-code access.



LED front light.



#### Controls and instruments

Controls and instruments				
180°+ steering			•	
Access Control (PIN codes)			•	
Automatic deceleration			•	
Emergency cut-off			•	
Hour metre			•	
Information display			•	
On-board data terminal mount			0	
Travel AC control			•	

#### Operator features

Driver detection system			•	
Driver-adapted programmable performance			•	
Choice of standing or sitting			0	
Low step-in			•	
Storage compartment			•	
Vibration-damped platform			•	
Writing table			0	

#### Maintenance features

Easy access for maintenance	Н		•	•
Fault diagnosis facility			•	•

#### Rattery management features

Dattery management reatures	
Battery change facility	0
Battery discharge prevention system	•
Battery status indicator	•

Typical load carriers that can operate with the Toyota Tracto N-series include:



SHELF carrier

transportation process.

Allowing sortation of items during the

PARCEL carrier
Designed for carriage of items of multiple sizes and shapes, with easy-to-open gates.



PLATFORM carrier Fast, easy and flexible transportation of stable goods.

PORTAL TAXI carrier For full pallet-sized dollies or other trolley transport allowing (un)loading from both sides.

### Integrated, secure-path and free-path load carriers

The Toyota Tracto N-series is designed to work with two types of load carrier chassis.

- Secure-path load carriers are fitted with four-wheel steering systems, which means that tow trains always follow exactly the same path for safe and accurate driving.
- Free-path load carriers feature two-wheel steering, which means that they have a short turning radius for tight U-turns and can be easily moved and steered manually.

#### Bespoke load carriers

Toyota offers a wide choice of standard load carrier configurations, but is also able to work with customer-developed solutions or special load carriers can be designed and built to match specific requirements.

Special variants include a care-equipped truck designed for mobility support in hospitals that helps staff to move patients easily

#### Quick battery change

The Toyota Tracto N-series' battery can be changed in under a minute thanks to the convenient battery drawer.



# TOYOTA TRACTO

## S-SERIES

The Toyota Tracto S-series is a high-performance tow truck, offering capacities up to 5 tonnes and travel speeds up to 12 km/h. Towing solutions offer significant benefits for advanced order picking, long-distance load transportation, or specialised transports within lean manufacturing. Also available with lithium-ion battery system for long working shifts with opportunity charging.

### SPECIFICATIONS

Load capacity: 3.0, 5.0 t

Maximum travel speed: 12 km/h

Smart truck equipped with telematics hardware:

Options available: LI-ION I\_Site





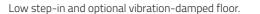




T-Motion Brochure Tracto.indd 12-13









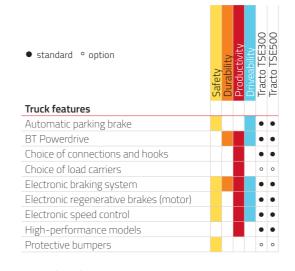
E-man control system can be moved to either side of the truck to facilitate 'walk-with' operation.

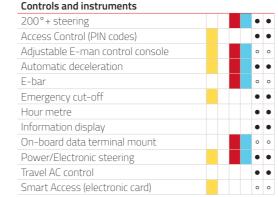


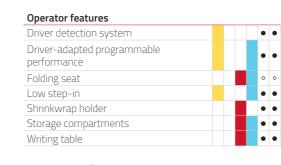
E-bar incorporates a power supply and allows easy attachment of essential equipment such as terminals and barcode scanners.



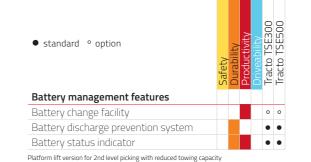
Automated tow trucks (Autopilot TAE500) can take over repetitive work between production lines & storage areas or conveyor systems.







# Maintenance features Easy access for maintenance • • Fault diagnosis facility • • Historic fault log • •



available as special option

Typical load carriers that can operate with the Toyota Tracto S-series include:



TAXI carrier
Transporting subsidiary load offering train
solutions for full pallets and half pallets.



PLATFORM TAXI carrier Designed for easy and flexible transport of loads of different sizes like containers or roll cages.



HEAVY-DUTY TAXI carrier Allowing transportation of full pallets and half pallets up to 1200 kg.



#### Secure-path and free-path load carriers

The Toyota Tracto S-series is designed to work with different types of load carrier chassis.

- Secure-path load carriers are fitted with four-wheel steering systems, which means that tow trains always follow exactly the same path for safe and accurate driving.
- Free-path load carriers feature two-wheel steering, which means that they have a short turning radius for tight U-turns and can be easily moved and steered manually.

Toyota offers a wide choice of standard load carrier configurations, but is also able to work with customer-developed solutions - or special load carriers can be designed and built to match specific requirements.

### Smooth operation for the driver

The E-man control system enables smooth operation with touch-sensitive activation of the drive function and effortless electronic steering. The steering arm can be moved left and right for pedestrian control, walking alongside. Toyota Tracto S-series trucks also have the option of Frequency-Adapted Suspension, based upon a special system that combats vibration at various frequencies geared to meet legislative requirements.

### Optional remote control

For accelerated order picking, the Toyota Tracto S-series can be upgraded with remote control, allowing the operator to advance the truck forwards whilst picking and placing goods. The remote control system incorporates sensors to eliminate the risk of collisions, and to navigate around obstructions.

### Optimised truck performance

The optimised truck performance system on the Toyota
Tracto S-series automatically adapts speed when cornering
to allow fast yet safe driving in all conditions.

#### Smart Trucks

Like most Toyota warehouse trucks this range/series has integrated telematics, which means that it is always online, for efficient communication and access to diagnostic data. This enables you to take full control of your operations, managing utilisation, battery maintenance and impacts via the Toyota I\_Site app.

T-Motion Brochure Tracto.indd 14-15





## SIMAI

## 3-WHEEL SERIES

The electric 3-wheeled Simai range includes compact light-duty sit-on or stand-on models suitable for tow applications such as just-in-time supply to the production or high-speed indoor and outdoor transport of goods up to 7 tonnes.



**Load capacity:** 3.0, 4.0, 7.0 t

Maximum travel speed: 18 km/h



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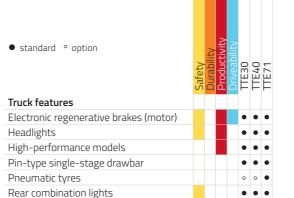
Roof options to protect the driver in bad weather conditions.



Ergonomic layout and easy access to all controls.



Two-in-one sit-on and stand-on tow tractor with low step-in height for easy on/off for picking or milk runs.



Controls and instruments				
Inching buttons		•	0	•
Automatic deceleration		•	•	•
Emergency cut-off		•	•	•
Floor parking pedal			•	•
Hour metre		•	•	•
Maximum-speed limit switch				•

Operator features				
Adjustable operator backrest		•	•	•
Driver detection system (Toyota OPS)		•	•	•
Low step-in		•	•	•
Storage compartments		•	•	•

Maintenance features					
Easy access for maintenance		Г	•	•	•
Fault diagnosis facility			•	•	•

attery management features					
attery change facility			•	•	



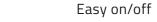
The 3-tonnes compact model TTE30 allows the driver to stand or sit for longer travel distances or to stand for quicker on/off.



Available with weather protection, the TTE40 is a manoeuvrable 4-tonnes tow tractor suitable for a variety of work.



The TTE71 has a towing capacity up to 7 tonnes, built to transport heavy loads for production or other applications.



The models feature a low step-in height, making them ideal for applications in which the operator must frequently mount and dismount.

#### Flexible in use

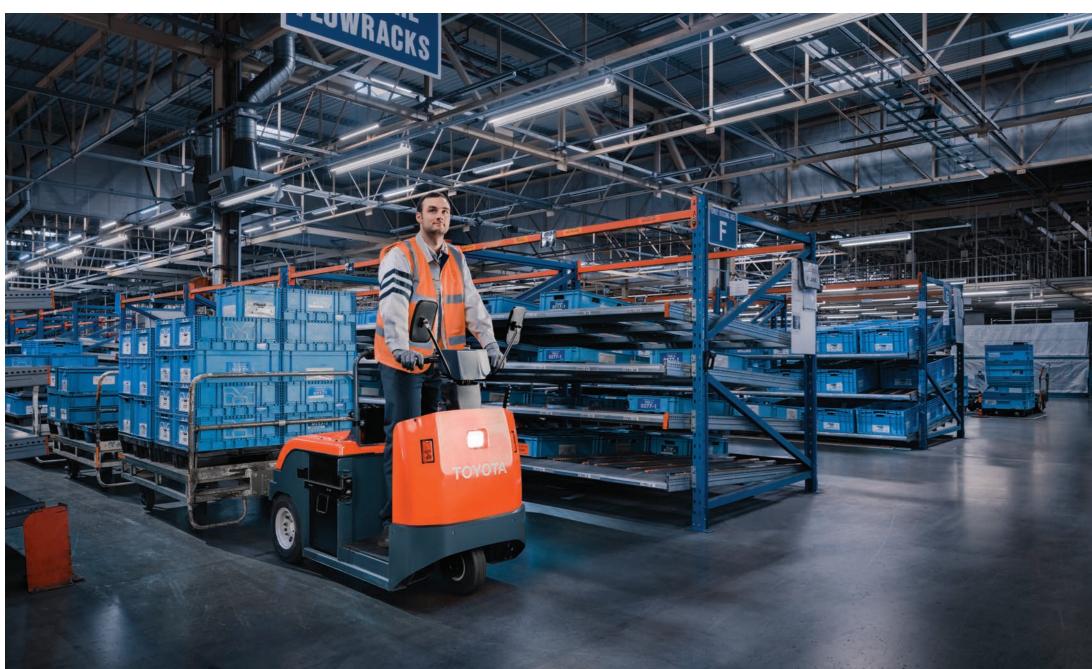
The range includes compact and manoeuvrable sit-on and stand-on models suitable for a variety of indoor and outdoor applications.

### Quick battery change

Vertical and/or side battery change for smooth and easy battery change.

#### Easy trailer docking

The tow tractors come with a range of drawbars and are all designed to dock / undock with any load carrier quickly and easily.



# TOYOTA TRACTO

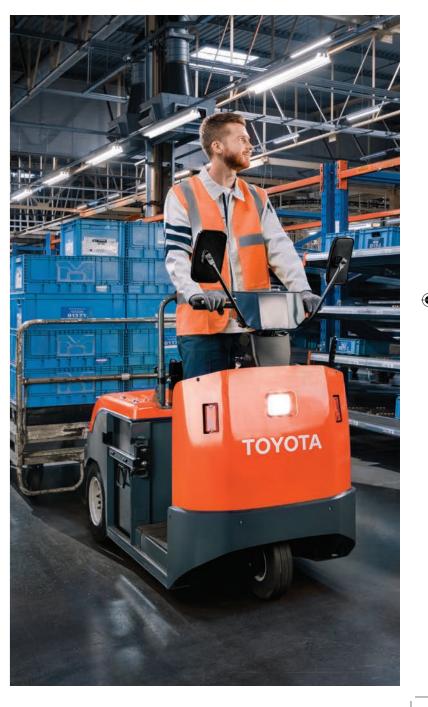
# S-SERIES

The Toyota Tracto S-series are compact stand-in electric trucks for indoor and outdoor use. With capacities up to 4 tonnes they are suitable for intensive applications, enabling constant use over typical shifts.

### SPECIFICATIONS

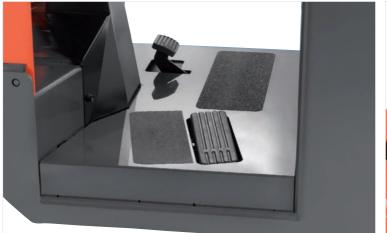
Load capacity: 2.0, 4.0 t

Maximum travel speed: 13 km/h



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S-series' low step-in height makes getting on and off easy. The Operator Presence System (left-hand pedal) ensures that the truck cannot be driven unless the operator is standing in the correct position.



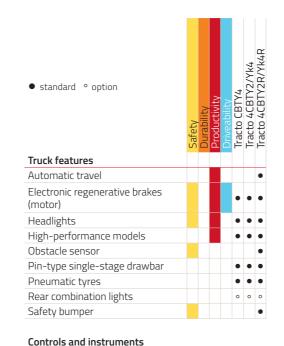
The backrest is height-adjustable to accommodate different operators in comfort.



The control layout on the 4CBTYR is straightforward and easy to use.



Battery roller bed is standard on CBTY4 model.



Automatic deceleration			•	•
Dual-action parking brake			•	•
Emergency cut-off			•	•
Floor parking pedal		•	•	•
Hour metre		•	•	•
Maximum-speed limit switch			•	•
Remote control facility				•
Travel AC control	П		•	•

Adjustable operator backrest		•	•	•
Driver detection system (Toyota OPS)		•	•	•
Low step-in		•	•	•
Storage compartments		•	•	•

Maintenance features				
Easy access for maintenance		•	•	•
Fault diagnosis facility			•	•

• standard ° option Battery management features Battery change facility 0 0 0 Battery discharge prevention system • • • . . . Battery status indicator



Compact 4CBTY models are available with capacities of 2 and 4 tonnes – ideal for work in confined areas with a width applications with gradients. of just 800mm.



Heavy-duty CBTY models offer capacities of 4 and 6 tonnes and are particularly suited to

#### Typical load carriers that can operate with the Toyota Tracto S-series include:



HEAVY-DUTY TAXI carrier Allowing transportation of full pallets and half pallets up to 1200 kg.

#### Easy on/off

Toyota Tracto S-series models feature a low step-in height, making them ideal for applications in which the operator must frequently mount and dismount.

#### Battery roll-out

The four-tonnes CBTY4 model has battery roller bed as standard, for safe and quick changes.

#### Easy trailer docking

S-series models are all designed to dock / undock with Toyota load carriers quickly and easily.

#### Remote control or automated travel options

The Toyota Tracto R-series can be equipped for remote control (4CBTR), allowing the operator to advance the tractor unit whilst concentrating on the picking process or for point-to-point automated travel over longer distances. Guidance is achieved through wired induction loop or magnetic tape on the floor, and speed reduction markers can be used to ensure safety in operation.

#### TPS-based reliability

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

T-Motion Brochure Tracto.indd 22-23



# TOYOTA TRACTO

## R-SERIES

The Toyota Tracto R-series is a comprehensive range of electric models for heavy-duty applications demanding longer travel distances and greater towing capacities.



### SPECIFICATIONS

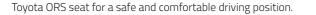
**Load capacity:** 2, 3, 4, 6, 27 t

Maximum travel speed: 25 km/h



ATOYOTA







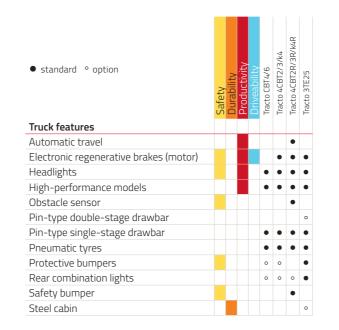
4CBT offers easy battery access.



The Toyota 3TE25 offers an informative and easy-to-read display.



All Toyota Tracto R-series models feature simple, car-like controls.



Automatic deceleration			•	•	•
Dual-action parking brake		•	•	•	•
Emergency cut-off			•	•	•
Hour metre		•	•	•	•
Information display					•
Maximum-speed limit switch			•	•	•
Power/Electronic steering					•
Remote control facility				•	
Tilt steering column	П	0	0	0	•
Travel AC control			•	•	•

Operator features					
Adjustable operator backrest		•	•	•	•
Driver detection system		•	•	•	•
Storage compartments		•	•	•	•

Maintenance features				
Easy access for maintenance		•	•	•
Fault diagnosis facility			•	•

• standard ° option	Safety	Durability	Productivity	Driveability <sup>)</sup>	Tracto CBT4/6	Tracto 4CBT2/3/k4	Tracto 4CBT2R/3R/k4R	3TE25
Battery management features								
Battery change facility					0	0	0	•
Battery discharge prevention system					•	•	•	•
Battery status indicator					•	•	•	•



Compact 4CBT models have a narrow 800 mm chassis and are available in capacities of 2, 3 and 4 tonnes.



For high performance and frequent work on gradients, CBT models offer 4 and 6 tonnes capacities and travel speeds up to 18 km/h.

### Designed for driver comfort

This ergonomic suspension seat is adjustable to suit all sizes and shapes of driver, offering a high level of comfort for long distance driving. It provides excellent lumbar support as well as having side wings to support the operator's back when reversing.

#### Weather protection

For working comfortably outdoors, the 4CBT and 3TE models are available with cabin option.

#### Easy trailer docking

R-series models are also designed to dock / undock with Toyota load carriers quickly and easily.

#### Remote control or automated travel options

The Toyota Tracto R-series can be equipped for remote control (4CBTR), allowing the operator to advance the tractor unit whilst concentrating on the picking process or for point-to-point automated travel over longer distances. Guidance is achieved through wired induction loop or magnetic tape on the floor, and speed reduction markers can be used to ensure safety in operation.

#### TPS-based reliability

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



Heavy-duty 3TE25 models with 27 tonnes load capacity allow for comfortable long-distance heavy-duty work.

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## SIMAI

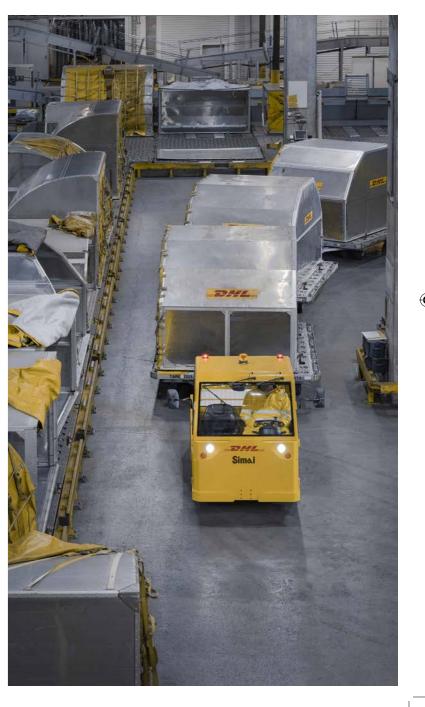
## 4-WHEEL SERIES

The electric 4-wheeled Simai range includes a variety of models, towing up to 50 tonnes. The lighter models are compact and manoeuvrable, suitable for just-in-time delivery to production or other transport needs such as in hospitals, or via railways... The heavy-duty models are built for industrial solutions, railways, airports and transportation of luggage or heavy cargo.

### SPECIFICATIONS

**Load capacity:** 8.0, 15, 25, 29, 30, 50 t

Maximum travel speed: 25 km/h



T-Motion Brochure Tracto.indd 28-29

Equipped for any task

keep productivity high, whilst working ergonomically.

industrial use.

#### 30 | TOYOTA MATERIAL HANDLING









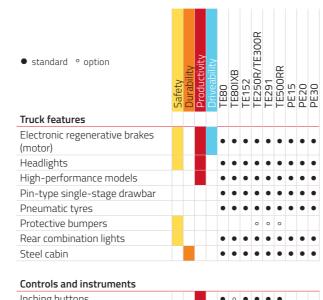
Steel cabin with sliding doors as option available for easy on and off.



Comfortable and safe operator compartment.



Platform trucks available to transport maintenance tools or other cargo.



|--|

Inching buttons	•	0	•	•	•	•		
Automatic deceleration	•	•	•	•	•	•	•	•
Emergency cut-off	•	•	•	•	•	•	•	•
Hour metre	•	•	•	•	•	•	•	•
Information display	•	•	•	•	•	•	•	•
Maximum-speed limit switch	•	•	•	•	•	•	•	•
Power/Electronic steering	0	•	•	•	•	•	•	•
Tilt steering column	•	•	•	•	•	•		•
Travel AC control	•	•	•	•	•	•	•	•

#### Operator features

Sliding doors				0	0		0	0			
Adjustable operator backrest			•	•	•	•	•	•	•	•	•
Driver detection system			•	•	•	•	•	•	•	•	•
Storage compartments			•	•	•	•	•	•	•	•	•

#### Maintenance features

Easy access for maintenance	ı	•	•	•	•	•	•	•	•	•
Fault diagnosis facility		•	•	•	•	•	•	•	•	•

#### Battery management features

Dattonia	ctature	indicator	



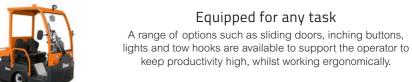
Extremely manoeuvrable, the TE80 with towing capacity of 8 tonnes is ideal for longdistance outdoor work.

handling.



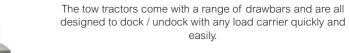
Suitable for multiple shifts, the 8-tonnes tow tractor TE80IXB is available with full steel cabin with sliding doors.





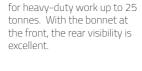
Heavy-duty applications The range contains heavy-duty models, with up to 50 t towing capacity for heavy luggage/cargo handling or

### Easy trailer docking





The TE152 can tow 15 The TE250R model is suited tonnes, ideal for transport work in the automotive industry and light baggage excellent.





Ideal for heavy-duty airport towing, the TE291 is equipped with sliding doors, inching buttons and a rear platform. It has a towing capacity of 29 tonnes.



With 50-tonnes towing capacity, the TE500RR range is designed to tow heavy parts in the automotive, steel or any other heavy-duty industry.



The platform range P15/20/30 ranges from 1500 kg up to 3000 kg. Allows transportation of goods such as maintenance tools or other small cargo.

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