

The data in this brochure was determined based on our standard testing conditions. Operating performance may vary depending on the actual specification and condition of the truck as well as the condition of the operating area. Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised Toyota distributor for details. Due to photography and printing, colour of actual forklift may vary from this brochure. Some pictures have been computer enhanced. Dentsu Brussels Group – April 2009 - n° 17720/010/06321.

## Toyota Material Handling UK

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**TOYOTA**

MATERIAL HANDLING

stronger together

# TRAIKO<sup>24</sup>

1.0 to 1.5 tonne  
Electric Powered Forklifts



**TOYOTA**

MATERIAL HANDLING

stronger together



# The new Toyota Traigo 24

## Safety – Productivity – Durability – Driveability

The new Toyota Traigo 24 range of 3-wheel electric forklifts delivers just the right balance of compactness and power. Designed to help drivers feel at home while navigating safely and efficiently in tight spaces, the Toyota Traigo 24 combines thoughtful design with advanced engineering in a 24-volt truck that is easy-to-drive and highly durable.

Toyota Traigo 24 draws on Toyota's extensive research into European electric forklift customer needs to deliver class-leading value in four key areas: Safety, Productivity, Durability and Driveability. With unique technologies like Toyota System of Active Stability (SAS) and Toyota AC<sup>2</sup> power, the Traigo 24 range delivers the high productivity levels customers expect from Toyota forklift trucks.

Featuring a fresh new design and enhanced digital display functionalities, Toyota Traigo 24 fits perfectly into the extended Toyota Traigo electric forklift family. The Traigo 24 range has three load capacities: 1.0 tonne, 1.25 tonnes and 1.5 tonnes.

# Putting Safety First

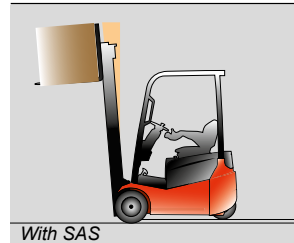
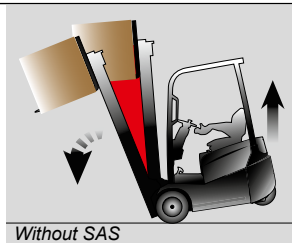
The new Toyota Traigo 24 combines driver-focused design with advanced safety technology to help protect forklift operators, goods and the workplace – saving you time and money.

## Vehicle and load stability

Toyota's System of Active Stability (SAS) is the world's first active system for controlling forklift stability. By protecting the operator and load when the truck is driving, turning and lifting, SAS provides advanced technological support for safe operating practices. In addition, drive speed optimisation with lifted loads keeps trucks operating at the proper speed when handling loads at height.

## Safe, intuitive driving

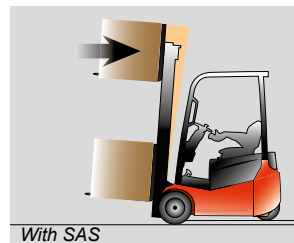
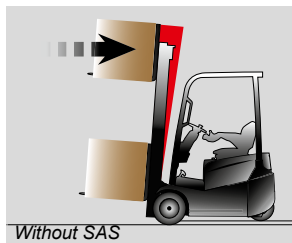
Toyota believes easy-to-drive trucks support better workplace safety. That's why Toyota Traigo 24 offers a standard 'car-pedal' layout for an intuitive driving experience. The wheel indicator feature in the digital display shows the position of the rear wheel so drivers know at a glance in which direction the truck will move when starting up and turning.



### Maximum mast control

The SAS Active Mast Function helps prevent loads from slipping or falling, and the truck from tipping over due to longitudinal instability. It activates two vital functions:

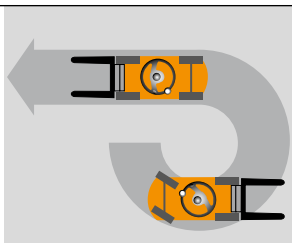
- 1) **Active mast front tilt angle control** senses load weight and mast height, and then automatically overrides the operator's manual control to limit forward tilt, decreasing the chance of dropped loads or worse, tip-over accidents.
- 2) **Active Mast Front and Rear Tilt Speed Control** limits the mast tilting speed at height, helping to prevent loose loads from dropping onto the driver's cabin.



## Safer manoeuvring

The SAS Active Steering Synchronizer aligns the position of the steering wheel with the position of the rear wheels so that the driving knob is always in the same position in relation to the wheels.

The aim: a safe and comfortable driving position.

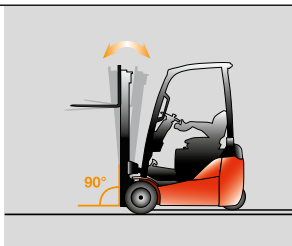


### Automatic speed reduction when cornering

This feature provides safety during travel and horizontal transport. The speed of the truck is automatically reduced when cornering to enhance lateral stability and reduce the risk of tipping.

## Easier stacking and loading

SAS Fork Levelling Control ensures quicker positioning of pallets and helps to prevent damage to goods. It enables drivers to place the forks in a perfectly horizontal position with the push of a button. This helps to simplify loading and unloading.





**Forward visibility**

*Designed for optimal visibility, the Toyota Traigo 24 mast gives operators an excellent view of their work environment for safe, confident driving and load handling.*



**Upward visibility**

*Toyota Traigo 24's overhead guard provides clearer upward visibility when handling loads at height.*



**Control on ramps**

*Toyota Traigo 24 also supports safe operation when driving on ramps. An active system helps prevent the truck from rolling backwards or forwards when the operator's foot is briefly removed from the pedal. The truck holds its position momentarily until the operator can apply the handbrake.*

# Productivity – for better profitability

Toyota Traigo 24 with Toyota AC<sup>2</sup> power delivers faster cycle times and better productivity all day long. Easy battery exchange also makes Traigo 24 suitable for use in multishift applications.



## More power to you

Building on Toyota's expertise in electric power systems, the exclusive Toyota AC<sup>2</sup> power system combines electric motors and controllers for optimal compatibility and higher drive and lifting speeds. With three power modes – Standard, Power, and High – the AC<sup>2</sup> Power Select function lets operators choose the right setting for their specific task, enabling the best balance between maximum power and battery life. The result is better performance – which rewards your bottom line.

## Compact and manoeuvrable

Toyota Traigo 24 is designed for easy operation in the tightest spaces. Compact yet powerful, these driver-friendly trucks are at home in factories, warehouses and shops – where their size and flexibility make them ideally suitable to a wide variety of materials handling applications.

## Accel-Off braking

Toyota's Accel-Off braking system saves time and improves productivity, especially in confined or congested conditions that require frequent braking. When the operator's foot is lifted

from the accelerator, progressive braking force is applied automatically, eliminating the need to switch between accelerator and brake pedals.

## Sideways battery extraction choices

Toyota Traigo 24 offers convenient low lift out battery extraction as standard. Optional sideways battery exchange using the built-in roller bed allows fast, easy battery handling in multi-shift operations.

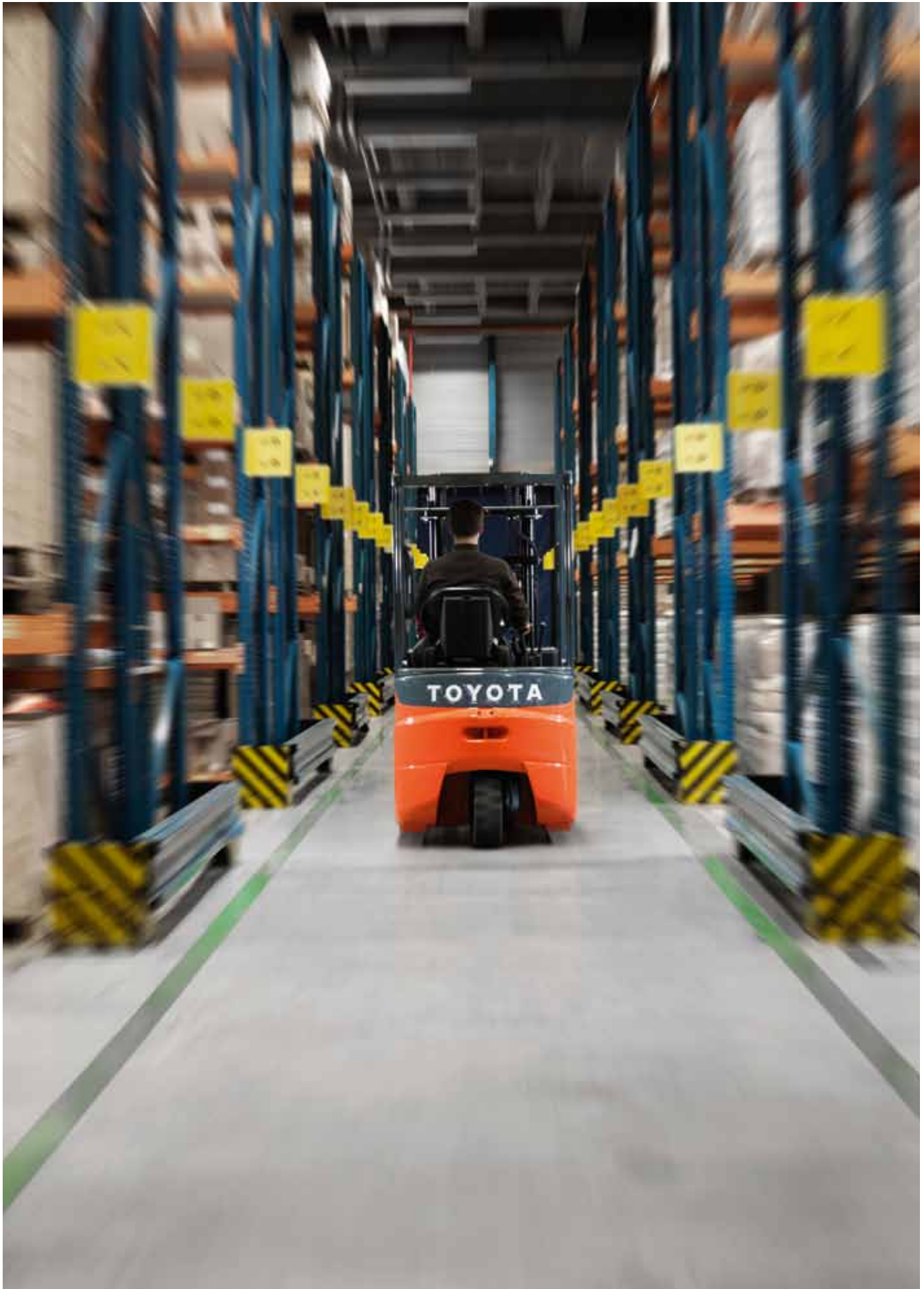


Low lift out battery extraction



Compact chassis design for better manoeuvrability





# Toyota durability you can count on

Toyota Traigo 24 has a rugged exterior designed for demanding work environments. And because Traigo 24 is produced using the Toyota Production System (TPS), its built-in quality is assured by the world's most renowned manufacturing system.



## **Built to last**

Toyota Traigo 24 is designed to deliver years of worry-free operation – saving you time and money with its reliable performance. The truck's thick metal exterior panels are designed to withstand the demands of tough applications. From the use of Toyota components to the built-in quality checks that characterise the Toyota Production System, Traigo 24 delivers excellent durability day after day, reducing your cost of ownership. That's Toyota quality you can count on.

## **More uptime**

Toyota Traigo 24 has been designed to work harder for longer. Regenerative braking extends battery life by returning energy from the drive motor to the battery during braking. In addition, Toyota Traigo 24's on-board diagnostics quickly pinpoint faults or errors and alert the driver to take action. When attention is required, access to components is easy and straightforward for fast inspection and service. The result? More uptime.

# Driveability – smooth interaction between driver and machine

Toyota Traigo 24 is built with the operator in mind. From its ergonomic design to its all-round compact size, Toyota Traigo 24 is a pleasure to drive even where space is limited.

## More comfort – better performance

Materials handling efficiency depends on outstanding performance from both operators and equipment. The Toyota Traigo 24 safeguards operator ergonomics to keep drivers working at top efficiency and comfort. When you enter the driver compartment, the low, wide step with its non-slip surface provides a secure footing, while the new, larger assist-grip makes getting on and off the truck even easier.

Once in the driver's seat, the optional fully adjustable Toyota Operator Restraint System (ORS) with its seat's lumbar support and side-wings avoid back strain when driving forward and reversing. The small steering wheel offers easier turning, while the adjustable slimline steering column provides a comfortable driving position and maximum legroom.

Toyota Traigo 24 offers three types of load-handling controls: standard driver side levers, optional electronic mini-levers or multifunction levers integrated into an ergonomic armrest.

## Clear, concise information

The Traigo 24's built-in multifunction display has been enhanced to keep operators well-informed at all times.

Key information is available at a glance, while more detailed data is available at the push of a button.

The following information is included:

- Battery discharge indicator
- Digital speedometer
- Steering wheel indicator
- Main drive direction indicator
- Power mode indicator
- Low speed setting ('turtle') indicator
- Parking brake indicator
- 'Operator presence' indicator

The multifunction display is also used to set performance parameters and for fault diagnosis.



### Driver side lever controls

Driver side levers provide fast, easy operation of all materials handling functions.



### Electronic mini-levers

Electronic mini-levers offer smooth, fingertip control of lift, lower, tilt and side-shift functions.



### Multifunction levers

Easy-to-use multifunction levers allow fast, precise load handling.



### Low step height

A low step in height to make it easy for any driver to access the truck.



### Floor space

Uncluttered floor to ensure a comfortable driving position for the operator.

# Environment

**Getting the job done with minimum impact on our environment is a challenge Toyota takes very seriously. The new Toyota Traigo 24 demonstrates this commitment. It raises the bar for performance and environmental responsibility in the materials handling industry.**

Toyota Material Handling (TMH) believes that environmental responsibility is a cornerstone of good business practice. We build environmental improvements into the design of our equipment and processes to limit environmental impact throughout the four product life cycle stages: development, manufacturing, operation and recycling.

## **Demanding manufacturing standards**

From the start, our forklift trucks are produced in an ISO 14001-certified factory, ensuring minimum impact on the environment. All of our products are designed to last longer, operate more efficiently and be highly recyclable at end of life.



# Empowering your business



Service Solutions



Rental Solutions



Toyota I\_Site

## A stronger network

At Toyota Material Handling (TMH), we know our role as your reliable business partner does not end when we deliver your new trucks. That's why we have developed an extensive service and solutions offer, including service solutions, rental solutions and Toyota I\_Site.

Our service solutions are designed to help keep your equipment working at peak efficiency, letting you focus on your core business. You can choose the optimal solution for your specific needs from a range of flexible service contracts, including safety inspection, preventive maintenance and full-service contracts. Our network of highly trained service technicians provide outstanding service.

Our rental solutions give you flexibility to respond to your changing fleet requirements. Combined with complementary contracts for full-service packages, guaranteed performance levels or operational flexibility, our rental solutions make sure you have the trucks you need, when you need them.

Toyota I\_Site is an information system that provides the information needed to reduce fleet costs and increase productivity. Our Toyota I\_Site experts help you set up the correct monitoring and reporting functions – such as driver access management, shock summary reporting and fleet usage reporting – and provide you with information, analysis and support to reduce costs, increase productivity and improve safety.



# Materials Handling for Europe

Over the years, Toyota has developed a strong European presence, establishing close geographic links with its customers in order to better respond to their needs. With operations in more than 30 countries, Toyota Material Handling (TMH) has European Office functions based in Ancenis (France), Bologna (Italy), Brussels (Belgium) and Mjölby/Linköping (Sweden) and production centres in Ancenis, Bologna and Mjölby.

## Toyota Material Handling Group

Toyota Material Handling Group is the materials handling division of Toyota Industries Corporation, with operations around the world and production facilities in Europe, Japan, China and the United States. By investing heavily in new engineering technologies and manufacturing techniques, Toyota aims to bring customers the best materials handling products and services on the market.

## 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 Toyota 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.



# Choose the features that suit your needs

<b>Safety</b>	Standard	Option
SAS speed reduction when cornering	x	
SAS mast front tilt angle control	x	
SAS mast front and rear tilt speed control	x	
SAS fork levelling	x	
SAS active steering synchroniser	x	
SAS key lift interlock	x	
Operator Presence Sensing (OPS)	x	
Low speed setting (turtle)	x	
Flashing beacon	x	
Back-up buzzer	x	
Maximum drive speed reduction with lifted load		x
Acceleration reduction with lifted load		x
Mast tilt indicator		x
Pin code entry system		x
Panoramic mirror		x
<b>Productivity</b>	Standard	Option
AC <sup>2</sup> technology	x	
Car pedal layout	x	
Different types of pedal layout		x
Battery rollout		x
<b>Durability</b>	Standard	Option
Rugged exterior body	x	
Maintenance hour meter	x	
Manufactured using the Toyota Production System (TPS)	x	
<b>Driveability</b>	Standard	Option
Low and wide step	x	
Large driver assist grip	x	
Slimline steering column	x	
Small steering wheel diameter	x	
Adjustable steering column angle	x	
Digital displays for easy reading of operational parameters	x	
Driver side lever control	x	
Operator Restraint System seat (ORS)		x
Mini-levers		x
Fabric seat		x
Multifunction levers		x
Fully enclosed cabins for comfort in outdoor elements		x
Higher overhead guard		x
<b>Environment</b>	Standard	
ISO 14001 certification of Toyota factory	x	



7FBEST10



7FBEST13



7FBEST15

## Specifications

Model		7FBEST10	7FBEST13	7FBEST15
Load capacity	(kg)	1000	1250	1500
Load centre	(mm)	500	500	500
Maximum lift height	(mm)	6500	6500	6500
Travel speed	Full load	(km)	12	12
	No load	(km/h)	12.5	12.5
Lifting speed	Full load	(mm/sec.)	320	310
	No load	(mm/sec.)	520	520
Turning radius	Wa	(mm)	1230	1400
Length to fork face	$l_2$	(mm)	1565	1725
Overhead guard height	$h_8$	(mm)	2055	2055
Wheel-base	y	(mm)	985	1145
Overall width	$b_1$	(mm)	990	990
Tread front	$b_{10}$	(mm)	835	835
Voltage	(v)	24	24	24
Max. battery	(Ah)	500	875	1000