

# Electric Powered Forklift 1.5 to 3.5 ton

7FB

Series



 **TOYOTA**  
INDUSTRIAL EQUIPMENT



## Class-leading performance

TOYOTA 7FB electric fork trucks harness the unique benefits of our exclusive AC<sup>2</sup> Power System and the Toyota SAS System of Active Stability to deliver a unique blend of performance, comfort, control and safety.

The range comprises 6 models, with lifting capacities from 1.5 to 3.5 tonnes – all of them designed to significantly raise productivity in a wide variety of customer applications.

### Driving comfort

The surprisingly spacious cabin built around a compact chassis helps 7FB electric fork trucks to set new standards in both operability and operator comfort.

With plenty of legroom, a low-height step and all controls placed within easy reach, drivers are able to operate at maximum efficiency with minimum stress.



#### **Productive and reliable**

The Toyota AC<sup>2</sup> Power System combines Toyota AC motors and a sophisticated Toyota controller to increase both operating time and lifting and driving performance, further boosting productivity. With no brushes or contacts to wear out and with a reduced amount of moving parts, servicing and maintenance time are greatly reduced.

Complete with on-board diagnostics, the truck is able to identify and warn the operator of any faults that may arise ensuring the operator/service engineer can take preventive measures to keep the truck in operation.

# Designed for efficiency

THE TOYOTA AC<sup>2</sup> POWER SYSTEM used in 7FB fork trucks is much more compact than conventional AC solutions. This difference in physical size has allowed Toyota engineers to relocate the battery under the floor of the truck, resulting in many important benefits that help improve driver comfort and efficiency.



### **Low step height**

A low step height of just 430mm ensures easy entry and exit to the 7FB, reducing physical strain on the drivers. A design feature that is much appreciated by drivers who have to get on and off the truck frequently.

### **More legroom**

More space under the seat means more freedom of movement for the driver's legs. Legroom has been increased for a more comfortable driving position.

### **Ergonomic comfort**

Relocating the battery from the conventional position under the truck seat to under the truck floor has resulted in a more spacious, more comfortable operator compartment. All operator driving controls have been carefully positioned to further enhance the ergonomics.

### **SAS steering system**

Drivers often complain about steering "slippage" which frequently results in a misalignment between the steering wheel and the rear wheels of the truck. Toyota's SAS Active Steering Synchroniser prevents this situation from occurring by keeping the position of the steering wheel and the rear tyres in a constant relationship at all times. Driving is consequently a more natural, and much safer experience.



### **Tilting steering column**

The steering column can be adjusted within a 13 degree range ensuring individual driver comfort requirements are met. The steering wheel tilts out of the way to allow for easy battery changes but can be automatically returned to its original driving position.

### **Direction lever**

Electronic direction change on the steering column permits fast, accurate changes of direction while the hand remains on the steering wheel – a fingertip controlled operation requiring minimal driver effort.



# AC<sup>2</sup>

Sign of the exclusive Toyota AC<sup>2</sup> Power System  
which combines a powerful AC electric motor  
with an ultra-precise Toyota AC controller



## A productive partner

THE TOYOTA AC<sup>2</sup> POWER SYSTEM takes operating precision and flexibility to a higher level, leading to real improvements in productivity. Changes in direction are achieved smoothly and quickly. Both acceleration and deceleration are easily controlled, while the Toyota Power Select Function featured as standard helps customise the 7FB fork trucks to specific customer requirements.



#### More control

The exclusive Toyota AC<sup>2</sup> Power System combines a powerful Toyota AC electric motor with a sophisticated Toyota power management system. This uses the latest microprocessor and software technology to give exceptionally smooth operation with ultra-precise load control, improving driver efficiency and productivity.

#### More operating time

Through more effective power management and advanced energy saving technologies, Toyota 7FB electric fork trucks are able to work harder and for longer.

Even while the battery charge is decreasing, the Toyota Power Keep Function boosts performance to keep the truck working at peak efficiency.

#### Tailor-made performance

7FB electric fork trucks feature Toyota's exclusive 3-mode Power Select Function, offering standard, power and high power settings. With an additional 24 custom modes also featured, the operator can easily fine-tune truck performance to match personal requirements.

Standard mode optimises the length of operating cycles and total operating time. Power mode offers improved cycle performance over slightly reduced periods. In high power mode, load-handling performance is increased 20-30% compared to standard mode.

#### Automatic Fork Levelling

Even the most experienced truck operators can experience stress and lose time by having to constantly re-position the forks of their vehicle in a horizontal position. The Toyota SAS Automatic Fork Levelling Control makes this an easy and failsafe task, returning the forks to a horizontal position at the simple touch of a conveniently located button on the tilt lever.

#### Digital Multifunction Display

At-a-glance monitoring of key operational information can be easily performed with the Toyota Digital Multifunction Display. The display can also be used to make adjustments to the trucks power control function and to access diagnostic functions on the truck.

# Raising safety standards

MORE THAN EVER, safety in the workplace has become a key concern within the materials handling industry. All 7FB electric fork trucks are equipped with the revolutionary Toyota SAS System of Active Stability. This exclusive technology virtually eliminates the risk of a truck tipping over or of loads slipping off the forks. It protects both drivers and other people in the workplace, reduces stress and demonstrably improves productivity. The latest, highly efficient braking systems also featured offer unmatched safety levels.



### **Superior stability**

Too much movement in the rear axle of a forklift when turning can cause the truck to become dangerously unstable and increase risk of tipping accidents.

The Toyota SAS Active Control Rear Stabiliser system incorporates a swing lock cylinder that prevents the rear axle from moving up and down in such situations, thus providing exceptional lateral stability.

### **Better load control**

Toyota SAS also reduces the risk of falling loads. By limiting the forward movement of high and heavily loaded masts, the Toyota SAS Active Mast Front Tilt Angle Controller prevents the truck from tipping forward, or the load from slipping off the forks.

The Toyota SAS Active Mast Rear Tilt Speed Controller acts in a similar way, limiting the speed at which a high and loaded mast can tilt backwards so that loads will not fall on to the driver's cab.



### **More braking power**

The Toyota AC<sup>2</sup> Power System delivers a strong, accel-off braking force that can be varied to suit operating conditions and driver preferences. This makes driving the truck an easier, more natural experience, leaving the operator free to concentrate on the task at hand.



### **ORS seat**

The Toyota ORS Operator Restraint System seat makes an important contribution to comfort and operator safety. It can be easily adjusted forward and back to ensure an ideal driving position and optimum comfort.

The carefully designed side wings built into the seat offer excellent lateral support, especially appreciated by operators when reversing the truck. An integrated retractable seatbelt completes the comfort and safety designed into the ORS seat.

### **Travel Speed Control**

The 7FB features an easy to activate 2-speed control. This makes it ideal for companies with different speed zones on one site. The slower speed can be set to any level between 5 and 12 km/h and this cannot be exceeded, even with the accelerator fully depressed. To restore the full maximum speed of the truck the operator simply has to press a button to deactivate the control.





## The choice of professionals

TOYOTA 7FB electric fork trucks offer an exceptional combination of benefits including more operator comfort and control, more all-round driving and lifting performance, plus state-of-the-art operating safety.

This allows the 7FB to set new standards in its class, making it the preferred choice of professionals.



#### Two world-class technologies

The Toyota 7FB was the first Toyota fork truck to combine both the Toyota AC<sup>2</sup> Power System and the Toyota SAS System of Active Safety, marking a major leap forward in the evolution of fork truck design and again demonstrating Toyota's commitment to constant innovation.

#### High productivity

Powerful all-round performance that can be directly matched to workplace requirements mean that 7FB electric fork trucks always operate at maximum efficiency. With Toyota's regenerative braking system and Power Keep Function both helping to extend battery autonomy, 7FB trucks deliver tangible improvements in productivity.

#### Low maintenance

Because the Toyota AC<sup>2</sup> Power System has no brushes or contacts to wear out and require replacement, 7FB fork trucks significantly reduce maintenance time and costs. Dust contamination within the motor compartment is also kept to a minimum, extending motor life.

Further cost savings are provided through an on-board diagnostic computer that identifies faults in their early stages, and by an energy-saving feature that automatically disconnects the power supply if the truck is left unused for more than 15 minutes.

#### Ergonomically designed

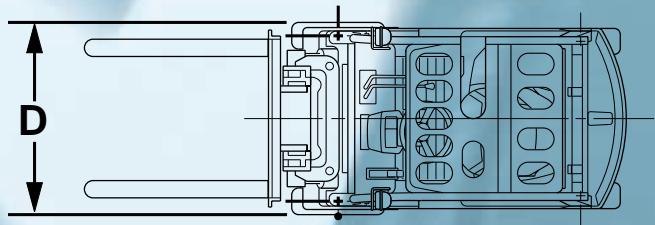
Good ergonomics make an important contribution to operator efficiency. In the 7FB, a comfortable, well-designed seat, a spacious, easy-to-access cabin and carefully thought-out, well-placed controls all help to make life more pleasant – and more productive.

#### A profitable investment

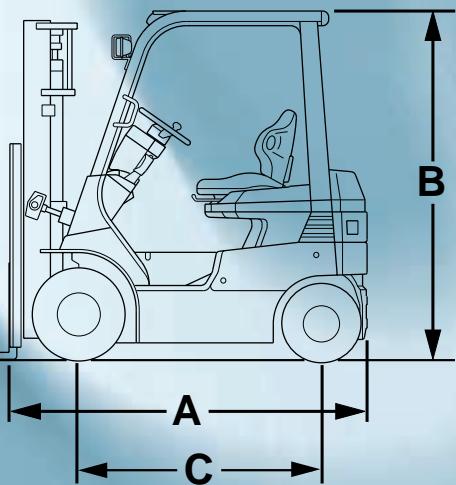
Toyota's combination of advanced design elements maximise productivity and safety while minimising both physical and mental operator stress.

They also provide genuine economies in operation, making the 7FB an exceptional long-term investment.





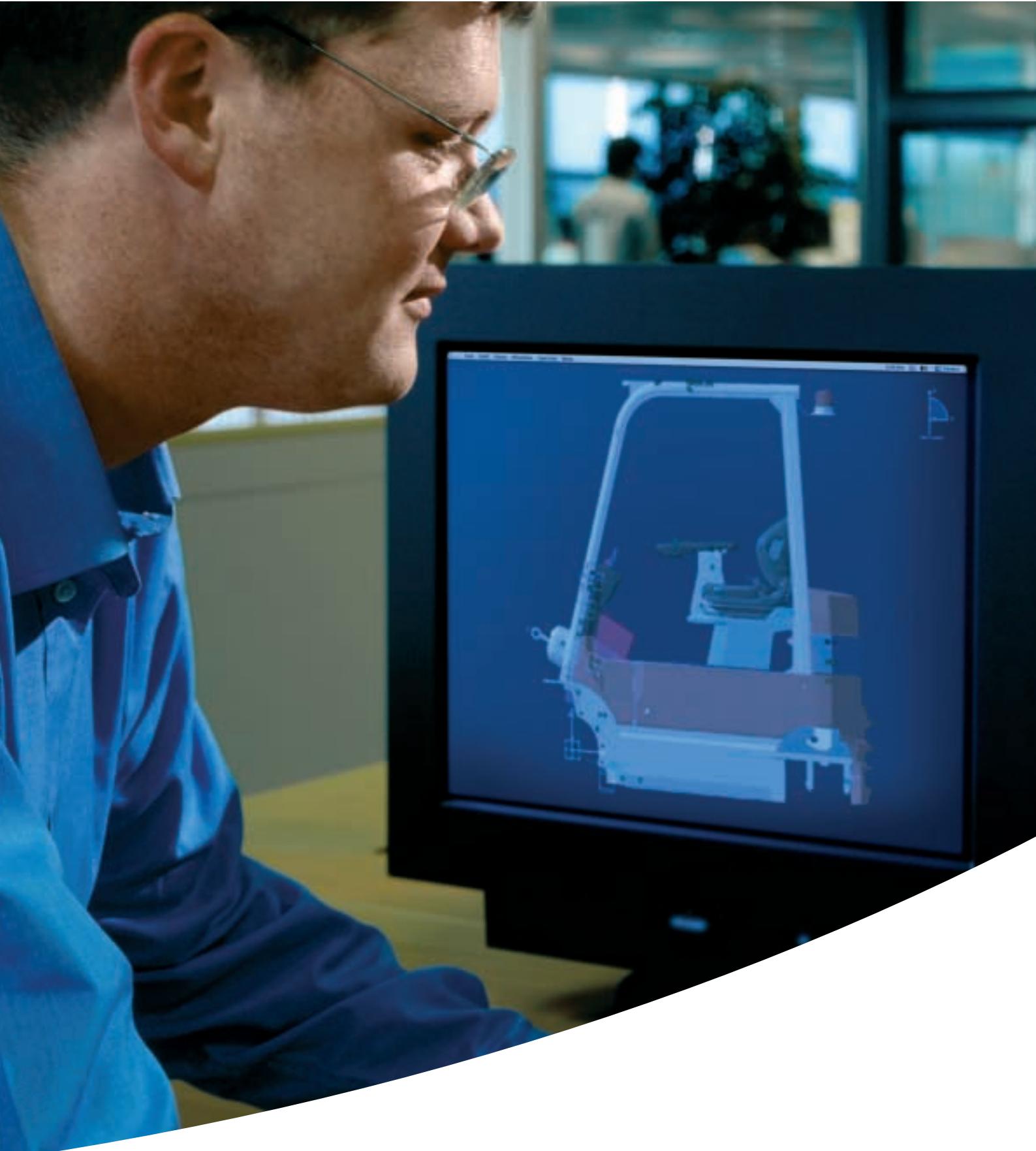
**7FB18**



## Main specifications

MODEL	7FB15 (7FBH15)	7FB18 (7FBH18)	7FB20 (7FBH20)	7FB25 (7FBH25)	7FB30	7FBJ35
Load capacity (kg)	1500	1750	2000	2500	3000	3500
Load center (mm)	500	500	500	500	500	500
Standard lift height (mm)	3000	3000	3000	3000	3000	3000
Travel speed Full load (km/h)	14.5	14.5	14.5	14	14	13
No load (km/h)	17	17	16.5	16	15	15
Lifting speed Full load (mm/sec.)	420	370	360	340	320	270
No load (mm/sec.)	650	650	600	600	550	460
Turning radius (mm)	1770	1780	1980	2000	2210	2270

MODEL	7FB15 (7FBH15)	7FB18 (7FBH18)	7FB20 (7FBH20)	7FB25 (7FBH25)	7FB30	7FBJ35
A Length to fork face (mm)	2080	2115	2240	2290	2490	2575
B Overhead guard height (mm)	2025 (2105)	2025 (2105)	2025 (2105)	2025 (2105)	2195	2195
C Wheelbase (mm)	1410	1410	1500	1500	1650	1650
D Overall width (mm)	1115	1115	1160	1160	1240	1240
Tread front (mm)	960	920	970	970	1010	1010
Tread rear (mm)	895	895	940	940	965	965



## Toyota. Share our strength

BY INVESTING HEAVILY in new engineering technologies and manufacturing techniques, Toyota is able to offer the best, most productive products available. With factories in Japan, the United States and Europe, we cover the world's three major markets. And with some 80 distributors and 675 sales outlets worldwide, we are uniquely placed to serve our customers.



#### A European partner

Toyota is constantly expanding its European sales, distribution and after sales service network. Today, our 250 dealers across Europe ensure a fast, effective response to your requirements and help keep your trucks operating at peak efficiency.

Our European marketing organisation identifies and analyses specific market needs, and then relays this information to our technical department, responsible for truck design and modification.

In Ancenis, France, we have both a production plant and our European Parts Centre, giving Toyota distributors fully-automated access to a permanent stock of some 200,000 spare parts, and allowing them to supply their customers within 24 hours.

The wide range of customer support services available includes tailor-made full service contracts for every customer, with larger dealers also offering short-term rental and fleet management facilities.

#### Trained engineers

Toyota engineers are constantly trained and re-trained to keep pace with new Toyota products and technologies. As a result, they are able to offer unequalled level of expertise and coverage to customers across Europe, ensuring smooth, trouble-free operation and optimum productivity.

#### Research & Development

Every year, Toyota reinvests 4 to 5% of turnover back into Research and Development, employing some 250 highly skilled engineers. As a result, we have earned an unmatched reputation for engineering innovation in materials handling.

Probably the most famous example, our revolutionary Toyota SAS System of Active Stability, took 67 Toyota engineers more than two and a half years to develop, registering hundreds of patents and setting new standards in safety, productivity and reliability.

And all Toyota products benefit from the same dedication to excellence. Before coming to market, they will have undergone extensive research and development to ensure they meet and surpass the industry's most exacting quality standards.

Availability and specifications are determined regionally and are subject to change without notice.  
Please consult your authorised Toyota distributor for details. Denisu BLD Europe N° 720/010/0148 August 2003

