

1.5 - 7.0 tons  
Electric and Engine Cushion Tyre Forklifts





8FGCU25

# Complete range of electric and engine powered cushion tyre trucks

Optimising space is a primary requirement in many industry applications. Toyota cushion tyre trucks help you achieve this goal by combining advanced technology with easy handling and high performance in one compact truck range. We offer the choice between LPG and Electric power trucks, with load capacities up to 7.0 tons and many options to suit individual requirements. The entire range provides the exceptional level of safety, productivity, comfort, and profitability that Toyota is renowned for.

## Compact truck

The cushion tyre truck has a very short turning radius which is significantly better than standard pneumatic tyre trucks. This allows the compact trucks to make optimal use of the operating space available for your operation.

## Heavy loads

The cushion tyre range combines compact size with an exceptional lift capacity. The material used for the tyres allows them to handle extremely heavy loads, enabling these compact trucks to lift up to 7.0 tons on single wheels.

## Tailor our trucks to your needs

The wide range of load capacities and the choice of either Electric or IC trucks allows you to tailor the specification to your specific requirements.

## LPG:

- Ensures long-lasting performance.
- Quick removal and replacement of LPG bottles.
- Handles loads between 1.5 tons and 7.0 tons.

## Electrics:

- Ideal for use in industries looking to reduce noise and exhaust emission.
- Toyota's AC Power System technology guarantees a long-lasting and constant level of performance.
- Handles loads from 1.5 tons to 3.0 tons.



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8FGC70U



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# World Class Safety

**At Toyota, safety is of prime importance. Naturally, Toyota cushion tyre forklifts have been designed with this care in mind. It embodies world-leading features and technologies that focus on protecting driver and goods. One such feature is the unique System of Active Stability (SAS). Our experts also strive to link high safety with reduced costs and an increased productivity.**

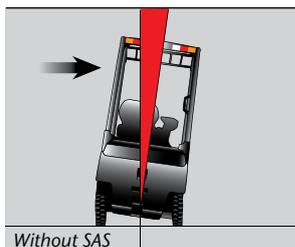
## SAS – perfect balance for vehicle and loads

Toyota's exclusive SAS is a ground-breaking technology created to actively enhance forklift stability and thus, safety. By protecting both operator and load when driving, turning and lifting, SAS provides advanced technological support for safe operating practices.



## Optimal driver protection

The strong welded overhead guard protects the operator against possible falling objects. Operator restraint systems such as seatbelts and side wings keep drivers firmly in a safe operating position.



Without SAS



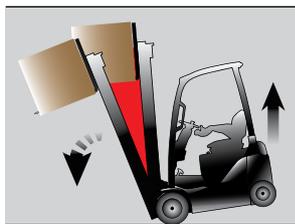
With SAS

### More lateral stability

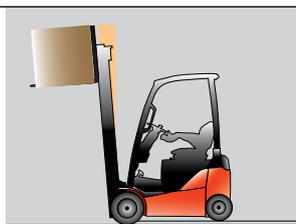
The SAS Swing Lock Cylinder helps to reduce the risk of lateral tip-overs: when the vehicle turns, it reacts immediately by locking the rear axle.



Swing Lock Cylinder



Without SAS



With SAS

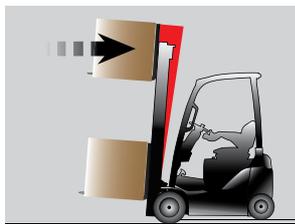
### Maximum mast control

The SAS Mast Function helps to prevent loads from slipping/falling and the truck from tipping over by activating two vital functions:

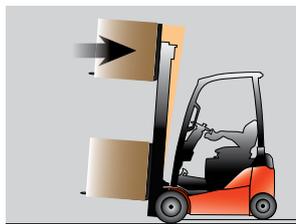
- 1) **Active Mast Front Tilt Angle Control** which senses the load weight and mast height and automatically overrides the operator's manual control to limit forward tilt;
- 2) **Active Mast Front and Rear Tilt Speed Control** which controls the mast tilting speed at height and increases protection on the driver cabin in case of loads dropping.



Mast Front Tilt Angle Control



Without SAS



With SAS

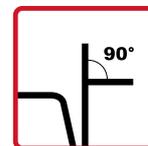


Mast Rear Tilt Speed Control

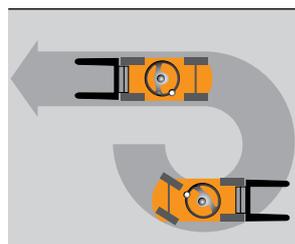


### Easier stacking and loading

The SAS Fork Levelling Control simplifies and accelerates loading /unloading. The driver places the forks in a perfectly horizontal position simply by pushing a button.



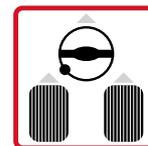
Fork Levelling Control



### Safer manoeuvring

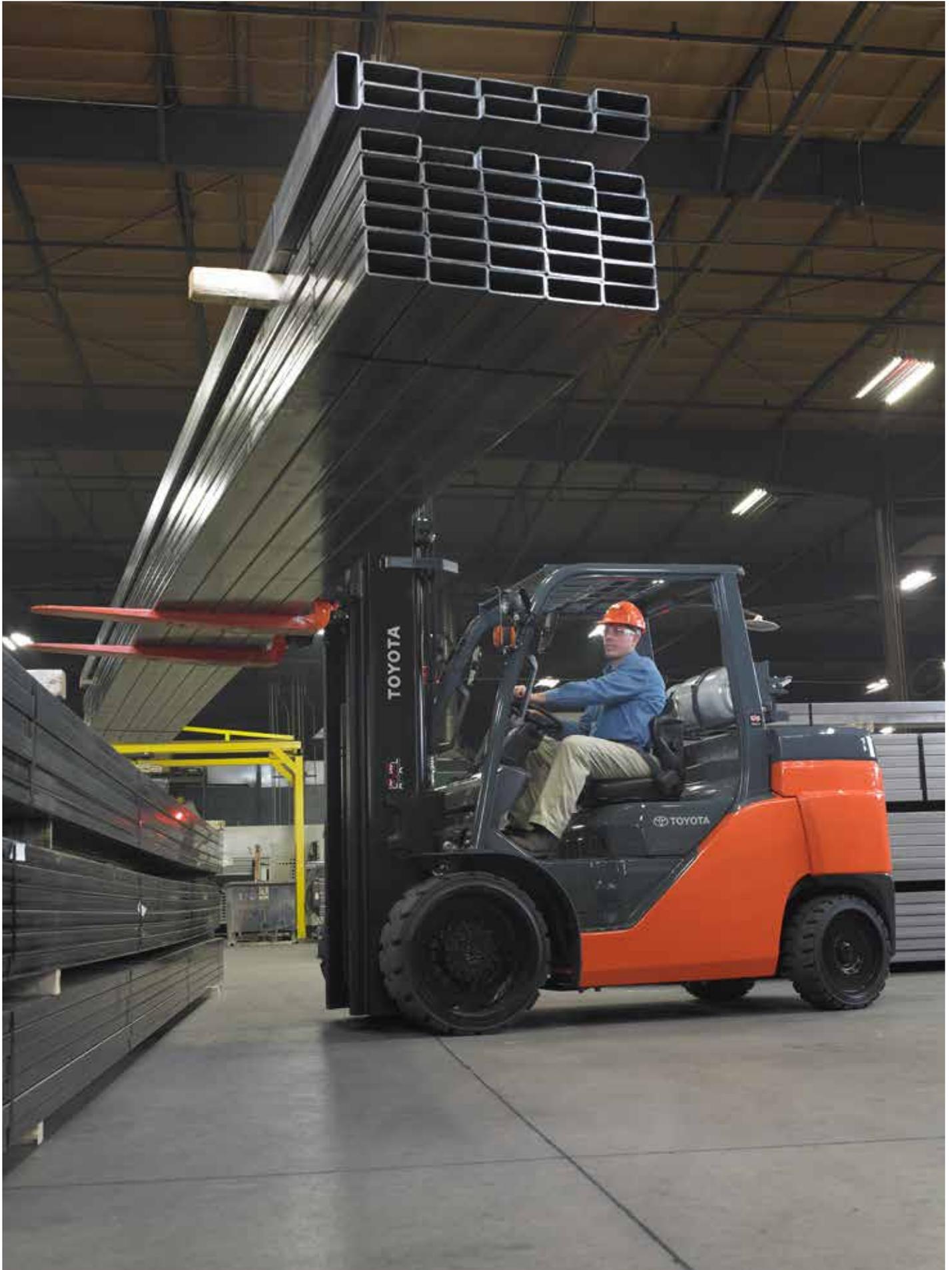
With the SAS Active Steering Synchronizer, the knob on the steering wheel is always in the same position as the wheels, ensuring a comfortable and safe driving position.

Not available on 7FBCU



Active Steering Synchroniser





# Increased productivity

**Cushion tyre trucks are designed to enhance your productivity. Both the LPG and the electric-powered forklifts combine high speed, easy handling, and extended operating time. Easy maintenance and built-in safety measures maximize the availability of the truck.**

## **Quick order fulfilment**

Both LPG engines and electric truck motors ensure exceptionally fast but controlled and safe acceleration. This enables operators to retrieve goods quickly from the rack and move them to the despatch area in no time, and vice versa.

## **Strong and permanent electric power**

The Toyota AC Power System on the electric trucks features a unique power keep function. This allows the trucks to perform at a high and constant level of power for a far greater percentage of the battery charge. In addition, regenerative brake technology recharges the battery whenever the brakes or the switchback function are used.

## **Easy maintenance**

The cushion tyre trucks feature on board auto-diagnostic systems, ensuring every fault is quickly traced. Toyota trucks are designed and engineered to ensure that all components are easily accessible. This substantially reduces maintenance.

## **Safety equals efficiency**

Safer forklift trucks have a positive influence on overall productivity. Carefully applied ergonomics and numerous active and passive safety systems greatly reduce the possibility of inappropriate operation. This in turn increases the continuous availability of the material handling equipment and protects goods from being damaged.



*Fast, safe materials handling*



*Built-in auto-diagnostic system*

# Easy to operate

**Comfort, in all its aspects, is paramount throughout the cushion tyre range. The ergonomic package ensures that the trucks are a perfect ergonomic fit for all types of drivers. Moreover, each forklift has a built-in mast auto levelling system, which improves accuracy and speed when positioning the forks for loading and stacking. A wide range of extra options enhances the truck's operability even further.**

## A perfect fit for each operator

The cushion tyre range offers all operators the greatest possible comfort: a wide entry step, large assist grip, adjustable seat and steering wheel, and solid lumbar support integrated into the seat. These assure that drivers are always operating their trucks using the best possible ergonomics.

## Quick and easy loading

The SAS auto levelling system on cushion tyre trucks places the forks in a perfectly horizontal position. A single switch controls ideal positioning of the forks, ensuring easy stacking / unstacking operation.

## Hands on the wheel

The accelerator pedal can be equipped with a forward and reverse direction switch. This D2 pedal allows drivers to move the truck back and forth using their right foot. This means operators always keep one hand on the steering wheel.

## Optimal use of power for each task

Electrical trucks are equipped with power select function. This feature allows the driver to fine-tune the operating speeds to each specific task, guaranteeing an efficient and safe use of the truck at all times.

Engine trucks allow for performance parameter setting for safer operation and optimization of fuel efficiency



Fork auto levelling button



D2 pedal



Easy entry



Multifunction display with eco-mode setting

# A profitable decision in every way

**Adding value to your business is what Toyota aims for. The Toyota cushion tyre trucks illustrate this perfectly. Their speed and power greatly improve your warehouse or shop floor productivity. The quality and design is unsurpassed, reducing overall maintenance time and assuring a long life span. All of these features add up to an intelligent use of assets and make the cushion tyre range a profitable investment.**

## **Improved productivity**

Toyota's cushion tyre forklift trucks handle more pallets per hour than any competitor. Their efficiency enhances productivity in your warehouse, shipping area, or on your production line.

## **Easy maintenance, better use of time**

The built-in auto-diagnostic mechanism reports all important truck information, allowing mechanics to quickly pinpoint faults. Moreover, the cushion tyre trucks are designed for easy maintenance. Every part is easily accessible, keeping the forklift's working time to an absolute maximum.

## **Virtually maintenance-free**

Because the Toyota AC Power System has no brushes or contacts to wear out and require replacement, 8FBCU trucks significantly reduce maintenance cost and time. Dust contamination is also kept to a minimum, extending motor life.

## **Long life span spreads investment**

Safety, easy maintenance, and durability go hand in hand in the cushion tyre range. Their long life expectancy enables you to spread the investment over a longer period of time. This frees up extra resources for your business.



*High productivity range*



*Compact AC drivetrain*



*Easy access for service and maintenance*



*All metal exterior*



# Material Handling for Europe

**Toyota Material Handling Europe (TMHE) 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. TMHE 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 optimize 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 Europe 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**

TMHE 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. TMHE strives to reduce environmental impact throughout the product life cycle, from design, manufacturing and operation through to recycling at end-of-life. TMHE'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, TMHE seeks to continuously improve the recyclability levels of its products.



8FBCU25



8FGCU25

## Main specifications

Model	8FBCU15	8FBCU18	8FBCU20	8FBCU25	8FBCU30	8FGC35U	8FGC45U	8FGC70U
Load capacity (kg)	1500	1750	2000	2500	3000	3500	4500	7000
Load center (mm)	500	500	500	500	500	600	600	600
Travel speed full load/ no load (km/h)	17.5/17.5	17.5/17.5	17/17	17/17	17/17	19/19	19/19	21/21
Lifting speed full load/ no load (mm/sec)	560/580	560/580	630/645	630/645	520/550	510 / 550	500 / 510	410 / 440
Turning radius (mm)	1720	1780	1920	1970	2030	2280	2390	2590
Overhead guard height (mm)	2035	2035	2050	2050	2050	2120	2120	2185
Engine Model	Toyota 4Y	TOYOTA 1FS	TOYOTA 1FS	TOYOTA 1FS				
no of cylinders/displacement	4/2237	4/2237	4/2237	4/2237	4/2237	4 / 3685	4 / 3685	4 / 3685
Rated horsepower/rpm	36/2250	36/2250	38/2570	38/2570	38/2570	63/2350	63/2350	66/2550

Model	7FBCU15	7FBCU18	8FBCU20	8FBCU25	8FBCU30
Load capacity (kg)	1500	1750	2000	2500	3000
Load center (mm)	500	500	500	500	500
Travel speed full load/ no load (km/h)	17.5/18	17/18	18.5/18.5	18.5/18.5	18/18.5
Lifting speed full load/ no load (mm/sec)	430/720	410/720	450/660	400/660	350/590
Turning radius (mm)	1685	1685	1790	1800	1960
Overhead guard height (mm)	2195	2195	2235	2235	2235
Battery voltage/ capacity (V/Ah)	48/510	48/510	48/765	48/765	48/850

