

# Cushion Tyre Forklift Range

1.5 to 7.0 ton



Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised Toyota distributor for details. - Dentisu Brussels - 11720/010/10077 - March 2010



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**Short turning radius:** Cushion tyre technology allows easier handling of heavy loads in restricted spaces.

## Power in any space

**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<sup>2</sup> Power System technology guarantees a long-lasting and constant level of performance.
- Handles loads from 1.5 tons to 3.0 tons.



Powerful LPG engines



Tough cushion tyres



Compact AC drivetrains





## Prevent and protect

The new cushion tyre range is a model of safety. Toyota's renowned System of Active Stability (SAS) provides optimal control and stability in even the most difficult circumstances. The design of the cabin and the seat offers maximum driver protection.



Rear axle swing lock cylinder

### Making a safe turn

The built-in rear axle stabilizer improves the truck's stability when making a turn. The system continuously monitors operational safety and actively locks the rear axle when necessary. All without any reduction in productivity.

### Perfect mast control

The cushion tyre range features the SAS forward mast control. It calculates the weight and height of the load and automatically limits the forward tilting angle to achieve the best possible stability. It also optimizes the mast's backward tilting speed. This prevents the load from spilling and limits the risk of damaging goods.



SAS forward mast control

### Single key shutdown

The cushion tyre trucks guarantee safer operation. The SAS key switch interlock system shuts down all of the truck's functions when it is not under the direct control of the driver.

### Optimal driver protection

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



**Small size, high performance.** The trucks allow heavy loads to be stacked closely together and at significant heights.



AC<sup>2</sup>

**Heavy load handling:** Cushion tyre trucks with LPG engines can lift loads up to 7.0 tons; the electric-powered versions can handle loads up to 3.0 tons.

## 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<sup>2</sup> 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.



D2 pedal



Fork auto levelling button



Power select function 7FBCU/7FGCU models



**Perfect for narrow alleys:** Cushion tyre trucks operate efficiently in narrow alleys thanks to their compact dimensions.





**Access all areas.** Cushion tyre trucks are significantly narrower than their pneumatic tyre counterparts.

## A profitable decision in every way

**Adding value to your business is what Toyota aims for. The new 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<sup>2</sup> 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





### Main specifications

MODEL		8FGCU15	8FGCU18	8FGCU20	8FGCU25	8FGCU30	7FGCU35	7FGCU45	7FGCU55	7FGCU60	7FGCU70
Engine model		Toyota 4Y	Toyota 4Y	Toyota 4Y	Toyota 4Y	Toyota 4Y	GM 6-262	GM 6-262	GM 6-262	GM 6-262	GM 6-262
Load capacity	kg	1500	1750	2000	2500	3000	3500	4500	5500	6000	7000
Load center	mm	500	500	500	500	500	600	600	600	600	600
Standard Lift Height	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Travel speed	Full load	17.5	17.5	17	17	17	19	19	21	21	21
	No load	17.5	17.5	17	17	17	19	19	21	21	21
Lifting speed	Full load	560	560	630	630	520	510	440	420	410	410
	No load	580	580	645	645	550	550	480	440	440	440
Turning radius	mm	1720	1780	1920	1970	2030	2280	2390	2550	2585	2585
Aisle width	mm	3520	3580	3745	3795	3880	4145	4275	4480	4515	4515
Length to fork face	mm	2090	2150	2315	2380	2475	2640	2745	2945	3000	3000
Overhead guard height	mm	2035	2035	2050	2050	2050	2105	2105	2170	2170	2170
Wheelbase	mm	1225	1225	1485	1485	1485	1560	1560	1830	1830	1830
Overall width	mm	945	945	1065	1065	1110	1210	1350	1350	1450	1450
Tread front	mm	795	795	890	890	910	980	1045	1095	1145	1145
Tread rear	mm	820	820	915	915	915	1050	1080	1065	1090	1090

### Engine specifications

MODEL		TOYOTA 4Y		GM 6-262	
		8FGCU15.18	8FGCU20.25.30	7FGCU35.45	7FGCU55.60.70
Piston displacement	cc	2237	2237	4300	4300
Rated horsepower/r.p.m.	kW	36/2250	38/2570	62/2350	65/2600
Rated torque/r.p.m.	Nm	160/2100	160/2100	281/1200	281/1200

### Main specifications

MODEL		7FBCU15	7FBCU18	8FBCU20	8FBCU25	8FBCU30
Load capacity	kg	1500	1750	2000	2500	3000
Load center	mm	500	500	500	500	500
Standard Lift Height	mm	3300	3300	3300	3300	3300
Travel speed	Full load	17.5	17	18.5	18.5	18
	No load	18	18	18.5	18.5	18.5
Lifting speed	Full load	430	410	450	400	350
	No load	720	720	660	660	590
Turning radius	mm	1685	1685	1790	1800	1960
Aisle width	mm	3485	3485	3615	3625	3810
Length to fork face	mm	1950	1950	2070	2140	2275
Overhead guard height	mm	2195	2195	2235	2235	2235
Wheelbase	mm	1220	1220	1295	1295	1390
Overall width	mm	945	945	1065	1065	1110
Tread front	mm	795	795	890	890	910
Tread rear	mm	820	820	915	915	915

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D2 pedal



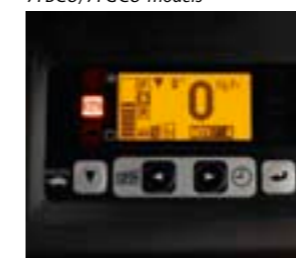
Operator Restraint System (ORS)



Power keep function  
7FBCU/7FGCU models



Foot operating parking brake



Display 8FBCU models



Rear assist grip

## Glossary

### AC

AC stands for Alternating Current and is a way of transferring energy from a battery to an electric motor.

### Toyota AC² Power System

AC² Power System is the unique combination of powerful AC electric motors with an ultra-precise Toyota AC Controller.

### D2 pedal

The accelerator pedal includes a forward and reverse direction switch. This D2 pedal allows the operator to change direction with his foot, keeping his left hand on the steering wheel at all times.

### Operator Restraint System (ORS)

In the unlikely event of a forklift tipover, the driver will remain in position thanks to the seat-belt and side wings provided by the ORS seat. In addition, the seat's lumbar support provides outstanding comfort.

### Power keep function

The advanced controller allows for efficient battery power management. The power keep function boosts performance to keep the forklift working at peak efficiency as the battery discharges.

### Regenerative braking

The electric drive motor is used to provide a braking force, which in turn creates electricity to recharge the battery.

### System of Active Stability (SAS)

Toyota SAS is the world's first active safety system for forklifts which dynamically protects the driver and the load whilst increasing productivity and safety.





## Toyota. Share our strength

**AS THE WORLD LEADER IN MATERIALS HANDLING, Toyota is uniquely placed to serve you. By investing heavily in new engineering technologies and manufacturing techniques, we aim to bring you the best, most productive products available. And by constantly expanding our sales, distribution and after sales service network, we ensure a fast, effective response to your requirements.**

### **A global presence**

With factories in Japan, the United States and Europe, and with a sales and supply network that covers 170 countries, Toyota and its customers enjoy unrivalled strength across the world's three major markets.

### **A European resource**

Over the years, Toyota has developed a strong European presence, establishing close geographic links with its customers in order to provide a better response to their needs. Ancenis, France is home to both a Toyota production plant and our European Parts Centre, allowing Toyota's distributors across Europe to source and supply spare parts within 24 hours.

### **Service Network**

Our extensive parts and service network in Europe provides Toyota service locations with instant access to a permanent stock of some 200,000 spare parts. Our service engineers receive thorough and ongoing training, and offer an unequalled level of expertise and coverage across Europe.

### **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 group's massive R&D facilities and engineering expertise, we have 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, enhancing workplace safety.