MODEL VARIATION



MAIN SPECIFICATIONS

Model			8FG10 8FD10	8FG15 8FD15	8FG18* 8FD18*	8FGK20* 8FDK20*		8FGK25* 8FDK25*	8FG25 8FD25	8FGK30* 8FDK30*		8FGJ35 8FDJ35
Engine Model			4Y 1DZ-Ⅱ	4Y 1DZ-Ⅱ	4Y 1DZ-Ⅱ	4Y 1DZ-Ⅱ	4Y 1DZ-Ⅱ,2Z	4Y 1DZ-Ⅱ	4Y 1DZ-∏,2Z	4Y 1DZ-Ⅱ	4Y 1DZ-Ⅱ,2Z	4Y 2Z
Load Capacity		kg	1,000	1,500	1,750	2,000	2,000	2,500	2,500	3,000	3,000	3,500
Load Center		mm	500	500	500	500	500	500	500	500	500	500
Overall Width	Α	mm	1,045	1,070	1,070	1,155	1,150	1,155	1,150	1,255	1,240	1,290
Turning Radius(outside)	В	mm	1,910	1,990	2,010	2,040	2,200	2,090	2,280	2,130	2,430	2,490
Overhead Guard Height	С	mm	2,080	2,080	2,080	2,085	2,110	2,085	2,110	2,085	2,170	2,180
Length to Fork Face	D	mm	2,240	2,290	2,310	2,380	2,560	2,445	2,635	2,520	2,795	2,865

NOTE: *Powershift models

ENGINE SPECIFICATIONS

Model	TOYOTA 4Y Gasoline					
Piston Displacement	сс	2,237				
Rated Horsepower/r.p.m.	kW	40/2,400 (43/2,600)				
Rated Torque/r.p.m.	N-m	161/1,800				

NOTE: () for 30(32)-8FG30.8FGJ35

Model		TOYOTA 1DZ-II Diesel	TOYOTA 2Z Diesel		
Piston Displacement	сс	2,486	3,469		
Rated Horsepower/r.p.m.	kW	40/2,400 [44/2,600]	49/2,200		
Rated Torque/r.p.m.	N-m	166/1,600	215/1,600		

NOTE: [] for 60(62)-8FD20.25.30

The data in this brochure is determined based on our standard testing condition. The performance may vary depending on the actual specification and condition of the vehicle as well as the condition of the operating area. Availability and specifications depend on region and are subject to change without notice. Due to photography and printing, color of the actual vehicle may vary from this brochure.

This brochure is printed on recycled paper with soy ink.

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TOYOTA Material Handling Company A Division of TOYOTA INDUSTRIES CORPORATION

CAT.8FG/8FD10-35/(Only Australia)0609/S/Printed in Japan/No.711230E0/20,500

8FG/8FD 1.0 to 3.5 ton



The Mastery of True Potential

Mastery of any undertaking can only be achieved if there is true potential and unwavering dedication to excellence. To Toyota, the 8 Series is the proud culmination of 50 years in the pursuit of mastery in the development and manufacture of forklifts.

All who experience the level of mastery in the 8 Series will be inspired to reach for higher goals.

Here, Toyota integrated outstanding comfort and excellent operability into a operator's compartment that realizes operator friendliness. The 8 Series is also equipped with high technology that contributes to the creation of a safe workplace.



Outstanding Comfort and Visibility The 8 Series provides the comfort and visibility for long hours of efficient operation.

Efficiency-Boosting Operability The operator's compartment is carefully designed to ensure maximum forklift control from minimum operator effort.

Top-Class Stability Toyota's System of Active Stability (SAS), Operator Presence Sensing (OPS) system and Travel and Load Handling Control provide innovative, high-tech stability to the 8 Series.

Environmental Friendliness Low noise and exhaust emissions make the 8 Series environmentally friendly.

Built-in Reliability and Serviceability Designed to be tough and easy to maintain.

Features and equipment may vary depending on market.

True Potential Through Outstanding Comfort and Visibility

Comfort is a Toyota tradition. With the 8 Series, it starts from the time you enter. Grab the large assist grip, place your foot on the wide, low step and slide into the operator's seat that provides comfort, support and retention. Once you have been seated and wrapped your hands around the smalldiameter steering wheel you will intuitively feel that everything you need for operating the forklift is within natural reach. You will also instantly realize that you have a clear view of the forks and load. This comfort sets the stage for reaching the true potential of the forklift from Toyota.

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A large assist grip, A deep, wide step and a spacious opening team up for easy entry onto the forklift.

Comfort and Support ORS* Seat



Wide Floor Space



The ORS seat can be adjusted 150 mm forward and backward to provide comfort and support to almost all sizes of operators. *ORS: Operator Restraint System

The spacious floor area enables a more relaxed operating position that contributes to comfort.

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Outstanding Visibility



The overhead guard, mast and instrument panel have been designed to provide excellent visibility of the fork tips at the most frequently used lift heights.



True Potential Through Outstanding Operability

Toyota used the latest technology to reexamine forklift operation in its search for enhanced operability. Motion-capture technology monitored every aspect of operator movement looking for ways to make operation more efficient. Based on these findings, well-thought-out design changes were combined to make the 8 Series ready to transform every action of the operator into smooth and efficient operation.

Operator-Friendly Steering Wheel



The small-diameter steering wheel teams up with the full hydraulic power steering system to provide excellent maneuverability. The steering column offers step-less adjustment to accommodate a wide range of operator preferences.

Foot-Activated Parking Brake (Powershift models)





The operator simply depresses the parking brake pedal to set it without changing operating position. A conveniently located handle is used to release it.

Rear-Pillar Assist Grip OPT / Swivel Seat OPT



The seat swivels to the right to facilitate operation in reverse. The seat also swivels to the left to make it easier to enter and exit

Swivels clockwis

the forklift. An optionally available rear-pillar assist grip with a horn button enhances comfort by offering easy horn operation while traveling in reverse.





display screens.







Combination Meter

Fuel met warning light (Diesel r

Preheat indicator light (Die

Features and equipment may vary depending on market.

The Mulifunctional Display offers useful information for operations. The following are some of the

Necessary instrumentation, such as the fuel meter, water temperature indicator and hour meters are shown in an easy-to-monitor digital format.



Mini Lever OPT These small, easy-to-operate levers provide total load handling operation and travel direction selection. A fatigue-reducing armrest is provided. Joystick OPT Lift and tilt operations can be operated with a single lever. Lift and tilt operations can be performed simultaneously.

Fork Vibration Damper OPT

Shock and vibration to the load during load handling and travel are suppressed by an accumulator in the hydraulic circuit for the lift cylinder.



True Potential Through Outstanding Stability

At Toyota, safety is top priority in the quest for attaining true potential. Here, the state-of-the-art technology found in the System of Active Stability (SAS), which earned high praise on the 7 Series, helps to reduce the potential for accidents. Other innovative functions, such as the Operator Presence Sensing System (OPS) and optional Travel and Load Handling Control are ready to assist in protecting the operator and the load. Toyota's continuous efforts toward safety provide you with a solid foundation for outstanding stability.

Active Control Rear Stabilizer SAS



An onboard computer monitors the movement of the forklift and locks the swing of the rear axle when necessary to enhance stability, such as during turns or when lifting loads to high lift heights.

Note: The Active Control Rear Stabilizer is not installed if the forklift is originally equipped with optional dual front tires.

Active Mast Function Controller SAS



Active Mast Front Tilt Angle Control Forward mast tilt is automatically restricted when heavy loads are being handled at high lift heights.

Active Steering Synchronizer SAS



This function ensures that the position of the steering wheel unvaryingly corresponds with the position of the rear steer wheels.





Active Mast Rear Tilt Speed Control Helps to prevent loads from spilling



Rear tilt speed is controlled in relation to lift height. Mast tilt is slowed for better control at high lift heights and allowed to operate at regular speed when loads are closer to the ground.



Operator Presence Sensing System OPS



This lamp illuminates and a signal sounds to inform the operator that OPS is about to be activated A warning function informs the operator when the direction selection lever has

This system uses a switch sensor built into the operator's seat to detect the presence of the operator. If the operator is not in the normal operating position, travel power is interrupted and load handling operations are stopped to prevent unintentional movements.

- Note: OPS does not operate the brakes. Always set the parking brake before leaving the forklift
 - Travel OPS is not available on manual transmission models.



not been returned to neutral

Travel and Load Handling Control OPT

1. Lift-Height and Load-Sensing Vehicle Speed Control (Powershift models)

This feature limits the maximum speed if the operator attempts to travel while carrying loads at high lift heights, thereby reducing the likelihood of instability due to sudden deceleration.

2. Lift-Height and Load-Sensing Sudden Start Off Prevention Feature (Powershift models)

This feature suppresses sudden acceleration of the vehicle to reduce the risk of load spills in the event that the operator suddenly depresses the accelerator or operates the direction selection switch while carrying loads at high lift heights.

3. Low-Speed Setting

This feature limits maximum speed to a preset level when the switch on the Multifunction Display is pressed. This can be useful at locations such as customer worksites that have different speed rules for outdoor and indoor operations.

4. Maximum Speed Limitation

This feature enables to limit maximum speed to a preset level. This helps operators maintain certain speed limits in the work area while freeing them from the need to control acceleration, and also reduces the need for forklift managers to monitor the speed of the forklifts.

5. Automatic Idle-Up Device

The idle speed of the engine is automatically increased during lifting operations so that loads will be slowly lifted up without depressing the accelerator. It provides easy and proper load handling operation.

The following aspects of the Travel and Load Handling Control should be noted. When ascending grades, the set speed may not be reached due to the relationship with engine output. Also, when descending grades, gravity may cause the preset speed to be exceeded. Additionally, maximum speed and sudden acceleration are suppressed in relation to the lift height and load weight, but this does not eliminate the possibility of tip-over. In other words, innovative Toyota functions such as those above are meant to help in the operation forklift, but the operator is ultimately responsible its safety and control.

True Potential Through Outstanding Environmental Friendliness

The 8 Series is easy to get along with. It is specially designed to provide the operator and all those working nearby with a pleasant work environment. Low noise operation, low exhaust emissions and low vibration all mean that the 8 Series will hardly be noticed as it diligently enhances productivity at the workplace. And the 8 Series demonstrates that Toyota is continuing to make progress in eliminating harmful chemicals from the components of its forklifts, making them even more environmentally friendly.

Low-Noise Design

Meet your silent partner. Thick-sealing under the floorboards and the use of soundabsorbing and sound-proofing materials all work together to give the 8 Series lownoise operation.





1DZ-II Diesel models

Low-Vibration Design

Carefully designed engine and drive train mounts dramatically reduce the amount of vibration felt at the floorboard and steering wheel.





Diesel models





Electronic control is used on the 4Y engine to regulate the fuel injection and ignition systems. This is combined with the 3-Way Catalytic Converter System to filter out carbon monoxide (CO), hydrocarbon (HC) and nitrogen oxide (NOx) gases.



3-Way Catalytic Converter System OPT





Diesel Particulate Filter DPF-II OPT





Environmentally Friendly Design

The 8 Series is free of asbestos, mercury and cadmium. The amount of lead and hexavalent chromium has also been dramatically reduced in order to minimize the affect on the environment.

True Potential Through Outstanding Reliability & Serviceability

Reliability is what Toyota forklifts have proven themselves to provide under harsh conditions the world over. This is because Toyota is always committed to boosting reliability. The use of resin parts has been reduced as much as possible along with other steps to enhance durability. The result is a forklift that will offer an extended life.

Serviceability can help boost the reliability of a forklift and extend its service life. The 8 Series has been designed so that anyone can easily inspect it. If service is needed, easy access can help to reduce downtime.



Tilt Cylinder Boots Each boot covers the exposed portion of the rod for the tilt cylinder, protecting it and the oil seals.



Water-Resistant Connectors Connectors for most electrical components are highly water-resistant, increasing the reliability of the electrical system.



Long Life Tire OPT Wear resistant tires help reduce running costs and provide extended life.



Cooling System Ample cooling raises reliability by preventing overheating. The size of the opening in the counterweight has been increased to optimize air flow through the engine compartment and power unit.





Engine Hood The wide-opening engine hood provides easy access for inspections or servicing.



Brake Fluid Simply lift up the cover on the panel to check the brake fluid.



Floorboard A two-piece design makes the floorboard easier to lift and handle. Remove these two pieces for wide open access to the engine and power train.





Radiator Cover No tools are needed to remove the radiator cover. The fasteners can easily be turned by hand to enable quick inspections or servicing.



Hood Latch The easy-to-operate latch provides quick access to the engine compartment.



Scheduled-Maintenance Hour Warning Indicator (Multifunction Display OPT) When the set time for maintenance is reached, this feature provides visible and audible notification.

From the Chief Engineer

"What are customers really looking for in a forklift?"

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In the development of the 8 Series, we took on the challenge of developing a forklift based on 50 cumulative years of technology with enthusiastic passion as our motivation. We returned to the starting point and took a careful look at the forklift itself from every aspect. The 8 Series stands ready to bring out the true potential in all owners and operators.



Hisao Nagata Chief Engineer of the 8 Series, Toyota Material Handling Company

During the development of the 8 Series we combined our ongoing quality improvement activities with more than 4.500 customer surveys and this helped us to fully recognize what the current forklift customer needs were, and what those needs would be in the future.

The results lead us to conclude that the best method for satisfying customer needs was to: "investigate the essence of what makes a good forklift by basing our design on the 7 Series and by further infusing Toyota's strengths into that design

In continuing our evolution from the 7 Series, we aimed for advances in the areas of safety, ergonomics, cost of ownership and environmental considerations.

In the field of safety we have added a traveling control option in addition to the existing

System of Active Stability (SAS) and Operator Presence Sensing (OPS) features. We have been able to realize this functionality by harmonizing the SAS technology with the optional electronic fuel injection (EFI) system that has been employed in the present design.

This field of ergonomics is inseparably linked to the concept of work efficiency. The ability of the operator to work in comfort is an extremely important factor in dealing with the high speed of the present-day logistics business. By paying close attention to all sizes, shapes and layouts of the operator compartment, we have been able to realize significant improvements in visibility and operator operating space. Through a concerted approach to reducing noise and vibration, we have created a forklift that has significantly reduced noise and vibration levels, as well as minimizing operator fatique.

Cost of ownership is closely connected with the issue of reliability As forklifts are a capital good, breakdowns that

can stop customer productivity are a worst case scenario. By focusing on the areas of enhancing reliability, reducing downtime through making maintenance easier to perform, and extending maintenance periods, we have developed a forklifts series that is able to make the greatest contribution to customer profitability.

Environmental factors are central to our thinking. Customers have also expressed a concern for the environment, a concern that we share. We have addressed this by using a multi-pronged approach. In the manufacturing process, we reduced and eliminated the use of materials that are environmentally sensitive. We have also developed a forklift with top-class emissions performance. This will reduce the output of undesirable substances over the lifetime of the truck, while simultaneously creating a cleaner work environment.

While this new design represents an evolution from the 7 Series, the development team began by re-evaluating the designs from scratch. They covered the smallest details - including each screw used in the forklift's construction to ensure the development of best-of-breed forklift units that truly satisfy customer needs. I believe we have created a series of forklifts that further enhance the reputation that Toyota has established over the years.





Features and equipment may vary depending on market.

The development and design of the 8 Series was done at the Toyota Takahama Plant in Aichi, Japan. During the development stage, state-of-the-art technology was used to get a better understanding of operator movement during forklift operation. This data was carefully analyzed and used to enhance the design of the 8 Series. Then the 8 Series was exposed to test conditions far harsher than it will ever experience on the job. The result is a remarkable forklift series that will be providing productivity for years and years to come.



Development Meeting



Noise Level Testing



Electronic Component Testing



Incline Testina



Water Resistance Testing



Data Sampling