8FG/8FD 1.0 to 3.5 ton

MODEL VARIATION



MAIN SPECIFICATIONS

Model			8FG10 8FD10	8FG15 8FD15	8FG18 8FD18	8FGK20 8FDK20	8FG20 8FD20	8FGK25 8FDK25	8FG25 8FD25	8FGK30 8FDK30	8FG30 8FD30	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-∐,2Z	4Y 1DZ-∐,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	2,285	2,310	2,360	2,550	2,420	2,620	2,505	2,775	2,845

ENGINE SPECIFICATIONS

Model	TOYOTA 4Y Gasoline		
Piston Displacement	сс	2,237	
Rated Power/r.p.m.	kW	40/2,400 (43/2,600)	
Rated Torque/r.p.m.	N-m	162/1,800	

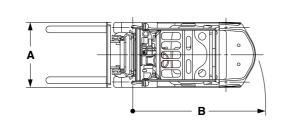
NOTE:() for 32-8FG30, J35

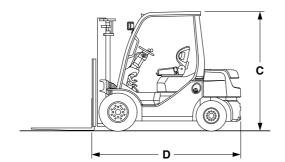
Model		TOYOTA 1DZ-II Diesel	TOYOTA 2Z Diesel		
Piston Displacement	СС	2,486	3,469		
Rated Power/r.p.m.	kW	40/2,400 [44/2,600]	49/2,200		
Rated Torque/r.p.m.	N-m	167/1,600	216/1,600		

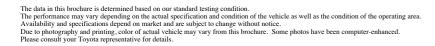
NOTE:[] for 62-8FD20, 25, 30, J35

TOYOTA

MATERIAL HANDLING

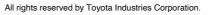


























Comfort is a Toyota tradition. With the 8 Series, it starts from the time you enter. Grab the large assist grip, place your foot on the wide, low step and slide into the operator's seat that provides comfort, support and retention. Once you have been seated and wrapped your hands around the small-diameter 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.





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



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

Wide Floor Space

Features and equipment may vary depending on market.



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

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.

ATOYOT



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





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

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

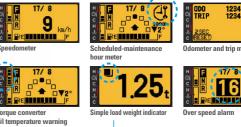


Features and equipment may vary depending on market.

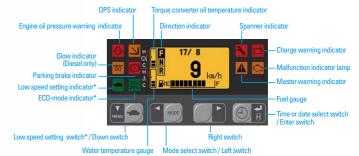
Multifunction Display || Diesel models: option Gasoline models: standard

The Multifunctional Display II offers useful information for operations. The following are some of the display screens.

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







*Available on limited models and specifications

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

Both lift and tilt operations are controlled by a single lever. Simultaneous lifting and tilting can be operated.



Fork Vibration Damper OPT

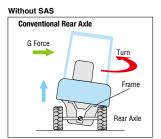
By installing two accumulators in the hydraulic circuit of lift cylinder fork vibration is absorbed over a wide range of load weight.



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

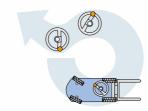


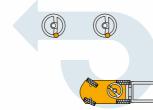


An onboard computer monitors the movement of the forklift and locks the swing of the rear axle when necessary, such as during turns.

Note: This function is not installed when the forklift is equipped with optional dual front tires.

Active Steering Synchronizer SAS





This function ensures that the angle of the steering wheel corresponds to the angle of the rear steered wheels.

Active Mast Function Controller SAS



Active Mast Front Tilt Angle Control

The angle of forward mast tilt is automatically controlled to match the lift height and load weight, helping to prevent load spills or tip-over.



Active Mast Tilt Speed Control

Automatic Fork Leveling Control

Pressing a switch during forward tilt

automatically stops the forks at a level

position. This makes load-handling operations

easier, helping to achieve high productivity.

Helps to prevent load spills by automatically controlling mast tilt speed at high mast

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 not been returned to neutral.

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 proper operating position, travel power is interrupted and load handling operations are stopped. Note: OPS does not operate the brakes. Always set the parking brake before leaving the forklift.

Travel and Load Handling Control OPT

1. Lift-Height and Load-Sensing Vehicle Speed Control

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

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.

Features and equipment may

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 revolution 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 should be noted in regard to Travel and Load Handling Control. On up grade, the set speed may not be reached due to engine output. Also on down grade, gravity may cause preset speed to be exceeded. Although maximum speed and sudden acceleration are reduced in relation to load height and weight, this does not eliminate the possibility of tip-over. Toyota's advanced technology helps reduce the potential of forklift instability. However, the operator is ultimately responsible for safe operation.



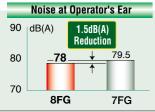


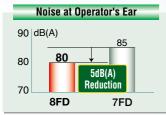
True Potential Through Outstanding Environmental Friendliness

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 sound-absorbing and sound-proofing materials all work together to give the 8 Series low-noise operation.



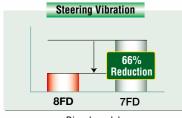


4Y Gasoline models

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

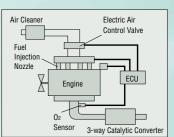


Diesel models

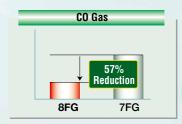


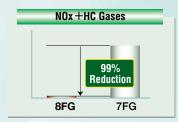
3-Way Catalytic Converter System





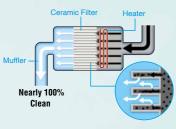
Electronic control is used on the 4Y engine to regulate the fuel injection and ignition systems. This is combined with the 3-Way Catalytic Converter System to filter out carbon monoxide (CO), hydrocarbon (HC) and nitrogen oxide (NOx) gases.





Diesel Particulate Filter DPF-II OPT

It uses an enhanced filtering system to provide excellent black smoke particle elimination. The DPF-II provides the additional benefits of easier starting and longer filter life.



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





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.



reliability by preventing overheating. The size of counterweight has been increased to optimize air flow through the engine compartment and power



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



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.



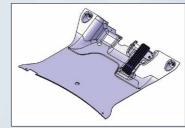
Brake Fluid

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



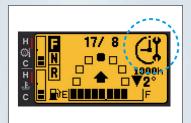
Hood Latch

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



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.



Scheduled-Maintenance Hour **Warning Indicator**

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?" 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,

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 fatinue

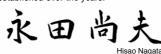
Cost of ownership is closely connected with the issue of reliability.

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

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

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 Testin



Incline Testin



Water Resistance Testing



Data Samplin