



7 SERIES

ENGINE POWERED FORKLIFT
7FG/7FD 1.0 to 3.5 ton

 **TOYOTA**

ERGONOMICS

It's a new standard!

Workplace efficiency and safety can be compatible. High levels of noise and hazardous exhaust emissions need not be tolerated. Does your current forklift meet your expectations?

The Toyota 7 Series combines innovative material handling control technologies with automotive expertise. This environmentally friendly forklift delivers superb cost-effective performance with outstanding safety.

Satisfying the needs of our customers is our goal.

The Toyota 7 Series establishes a new benchmark in the world of material handling.

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Features and equipment may vary depending on market.

ECOLOGY

Value Standard 1.

Excellent safety!

The Toyota System of Active Stability (SAS) constantly monitors every movement for safe and sure productivity

Swift and safe, these two seemingly contradictory elements are the basic requirements for all forklifts. Toyota's computer-controlled System of Active Stability (SAS) electronically monitors and controls stability at all times for more productive material handling with excellent safety.

World's first Active Control Rear Stabilizer

SAS

To counteract the inherent instability of forklifts when turning, the Active Control Rear Stabilizer employs four separate sensors to monitor load height and weight, vehicle speed and turning rate. Lateral stability is then controlled by the on-board computer that locks and unlocks the swing-lock cylinder, interrupting rear-axle swing, to ensure constant balanced floor contact. This results in improved turning ability at speed while the risk of rollover is significantly reduced.

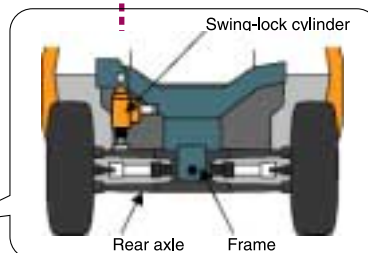
Load-height sensor

Load-weight sensor

Speed sensor

Yaw-rate sensor

Controller



Data obtained from the four sensors is monitored by the on-board computer that locks or unlocks the swing-lock cylinder accordingly.



World's first Active Mast Function Controller

SAS

●Active Mast Front Tilt-Angle Control

Computer-control of the mast's front tilt angle, according to the height and weight of the load, lowers the risk of the load falling or the likelihood of the vehicle overturning as a result of operator error.

●Active Mast Rear Tilt-Speed Control

To reduce the possibility of the load shifting, the on-board computer controls the mast's rear tilt speed according to the height of the fork — slow when the fork is high, swift when low — for easier, user-friendly and more efficient material handling performance.

World's first **Key-Lift Interlock** **SAS**

When the engine is turned off, the Key-Lift Interlock employs hydraulic pressure to lock the fork in position.*

World's first **Leakless Valve System** **SAS**

The Leakless Valve System reduces the likelihood of loss of hydraulic pressure that might result in the fork descending and the mast tilting forward.*

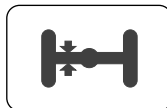
* ALWAYS fully lower fork and turn off engine when leaving forklift unattended.

● SAS availability and specifications are determined regionally and are subject to change without notice. Please consult your authorized Toyota dealer for details.

SAS Operation Monitor

In the unlikely event of an SAS malfunction, a warning lamp on the meter panel illuminates and an alarm sounds to alert the operator.

Swing-lock indication light (SAS models only).



ERGONOMICS

Value Standard 2.

Features that inspire op

Numerous safety devices enhance the operating environment

Double-Action Parking Brake

The Double-Action Parking Brake is easy and convenient to use.



Vehicle Speed Control System (VSCS) (OPT)

Optimum operating speed is ensured by combining this optional speed control system with the SAS.



ORS Seat & Mini Levers

The molded wings of the ORS seat, together with the retractable seatbelt, help protect the operator from injury in the event of an accident.

An ergonomically designed armrest with hydraulic control Mini-Levers is available as an option for providing smooth and precise control of the load.



erator confidence



Clear-View Mast

An unobstructed view is one of the most fundamental requirements for safe, smooth, forklift operations. The Clear View Mast design gives the operator unimpeded visibility and the excellent view of the fork tips while remaining seated improves productivity and reduces fatigue.

Seamless Roof Construction

This large, highly rigid, rust-proof, seamless roof protects the operator from the danger of falling objects.

High-Mounted Rear Combination Lights (OPT)

These high-mounted lights and turn signals are highly visible in the workplace and their positioning reduces the risk of accidental damage.



Features and equipment may vary depending on market.

ERGONOMICS

Value Standard 3.

Ideal for experts and

The ergonomic design ensures the operator feels instantly at home

Fulfilling the goal of operational ease, the user-friendly layout of the 7 Series will enhance the productivity of both veteran and new operators. The quiet, refined engines and drivetrains resulting from Toyota's human-oriented design philosophy provide a comfortable environment that reduces operator fatigue and raises levels of efficiency.



Features and equipment may vary depending on market.

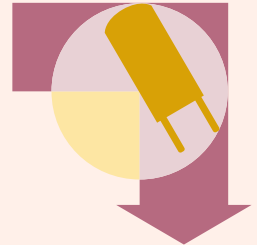
novice alike

World's first

SAS Active Steering Synchronizer Improves FHPS

SAS

The Full Hydraulic Power Steering (FHPS) allows 100% stationary steering, ideal for confined workplaces. Toyota's original SAS Active Steering Synchronizer maximizes on-demand operator motive force for outstanding mobility and swift response. This simple yet highly effective system features minimal mechanical linkages to reduce maintenance needs and the possibility of malfunction.



■ Electric Shift Control

The electronic shift control on 7 Series powershift models allows fingertip control of forward and reverse modes for improved shift-feel, response and durability.



World's first

SAS

■ SAS Automatic Fork Leveling Control

Depressing the switch on the top of the tilt lever when moving the mast from a rear to a front tilt automatically positions the fork horizontally for easier fork insertion and extraction resulting in smoother pallet handling.



■ Integrated Light & Turn-Signal Switch

The integrated light & turn-signal switch stalk, similar to that found in passenger cars, allows fingertip control of the headlights and turn signals while steering.



■ Triple-Cone Synchronmesh Manual Transmission

manual transmission models provides smoother gear shifting and greater durability of forward/reverse synchronization.

ERGONOMICS

Our environmentally aw

Defining the environmental performance standards for the future

Toyota, as a manufacturer of diesel- and gasoline-powered forklifts, recognizes that cleaner exhaust emissions and lower noise levels are of the utmost priority for improving the working environment. Detailed revision of engine designs, focusing on increasing the efficiency of the intake and exhaust system, transmission and engine mounts, has provided the 7 Series with cleaner emissions, lower noise and vibration levels and energy-saving performance to meet the demands of the future.

■ Diesel Particulate Filter DPF-II (OPT)

The optional Diesel Particulate Filter DPF-II exhaust system enhances the already outstanding 'black-smoke' particulate elimination capability of the DPF through use of the improved physical and chemical properties of new filter materials that also diminish start-up delay and prolong filter life.



1DZ-II Diesel Engine

The 1DZ-II is a thoroughly refined version of the powerful and economical 1DZ engine. It also reduces 'black-smoke' emissions to virtually invisible levels even at maximum revolutions.



5K Gasoline Engine

The compact 5K gasoline engine offers abundant power, minimal noise and lower exhaust emissions as well as superb fuel economy; it's a masterpiece of industrial-engine design.



Engine

2Z Diesel Engine

The 3.5-liter 2Z engine provides ample power for ease of handling. This reliable powerplant also realizes 'black-smoke' emission levels comparable to that of the 1DZ-II.



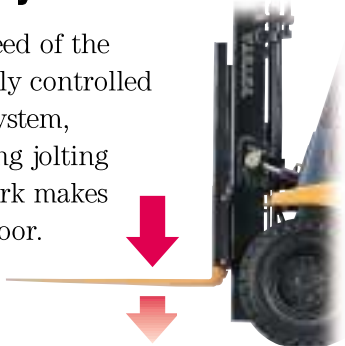
4Y Gasoline Engine

Renowned for its superb balance of power and fuel economy, the 4Y gasoline engine features low exhaust emissions. Engine noise is also significantly reduced through use of Toyota's silent-chain system.

are philosophy

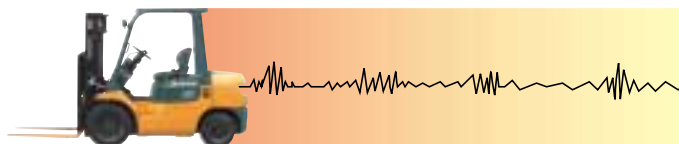
■ Easy-Down System (V and SV Masts only)

The downward speed of the fork is automatically controlled by the hydraulic system, virtually eliminating jolting and noise as the fork makes contact with the floor.



■ Quiet Operation Noise

The drivetrains of the 7 Series feature an advanced full-floating design that dramatically reduces noise and vibration. Optional sound-dampening measures applied to various other parts result in an exceptionally quiet, low-vibration working environment.



Features and equipment may vary depending on market.

E C O L O G Y

MAIN SPECIFICATIONS

Model		7FG10 7FD10	7FG15 7FD15	7FG18* 7FD18*	7FG20 7FD20	7FG25 7FD25	7FG30 7FD30	7FGJ35 7FDJ35
Engine Model	□	5K 1DZ-II	(5K), 4Y 1DZ-II	4Y 1DZ-II	5K, 4Y 1DZ-II, 2Z	5K, 4Y 1DZ-II, 2Z	4Y 1DZ-II, 2Z	4Y 2Z
Load Capacity	□ kg	1000	1500	1750	2000	2500	3000	3500
Load Center	□ mm	500	500	500	500	500	500	500
Overall Width	A □ mm	1045	1070 (1045)	1070	1150	1150	1240	1290
Turning Radius (outside)	B □ mm	1880	1970	1990	2180	2260	2420	2520
Overhead Guard Height	C □ mm	2030	2030	2030	2060	2060	2120	2130
Length to Fork Face	D mm	2215	2255	2285	2530	2600	2770	2830

NOTE: * Powershift transmission models only.

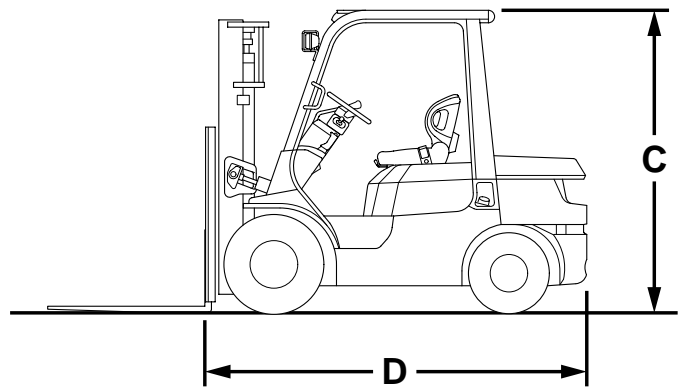
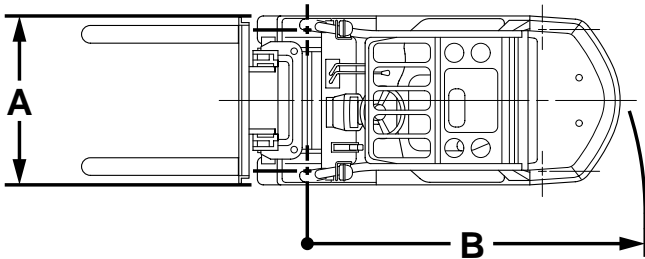
ENGINE SPECIFICATIONS

Model		TOYOTA 5K Gasoline	TOYOTA 4Y Gasoline
Piston Displacement	cc	1486	2237
Rated Horsepower/r.p.m	kW	28/2800	40/2400 (43/2600)
Rated Torque/r.p.m	N-m	112/2000	161/1800

NOTE: () for 7FG30/7FGJ35.

Model		TOYOTA 1DZ-II Diesel	TOYOTA 2Z Diesel
Piston Displacement	cc	2486	3469
Rated Horsepower/r.p.m	kW	40/2400 [44/2600]	49/2200
Rated Torque/r.p.m	N-m	166/1600	215/1600

NOTE: [] for 60-7FD20,25,30/62-7FD20,25,30.



Availability and specifications are determined regionally and are subject to change without notice. Please consult your Toyota representative for details.

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TOYOTA Material Handling Company

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