

TCM

Advanced Mechanical and Operational Functions
Engine Powered "Forklift Trucks"



Newly Unveiled

FD·G
3.5-5.0ton

Pneumatic Tire Trucks

FD35·FD40·FD45·FD50·FG35·FG40

The evolutionary
forklift trucks to
satisfy all of customers'
requirements and needs.



©Features and equipment may vary depending on market.

We Made

Newly launched with improved mobility, comfort, safety and durability

The TCM Forklift Truck "FD-EG" Series – has been revamped with advanced and cutting edge functions, reflecting customers' needs and requirements, ideally suitable for their work environments. Some notable features are automatic 2-speed transmission, industry top-ranked maneuverability, 6-cylinder engine with lower vibration, multi-function switch lever and safer driver seat, all of which, substantially contribute to quick mobility, increasing comfort and safety as well. What's more, various new equipment like aluminum radiator, torque converter with high quality fins for cooling, improves vehicle durability as well as total operational performance.

Four representative improved functions





Agile Movement... Excellent Mobility

Outstanding lifting speed enhances work efficiency

Industry top-ranked performance

FD35 & 40, for example, achieves 540mm/s of lifting speed with load as well as 550mm/s of lowering speed without load. These remarkable performances largely improve efficiency of cargo handling.



Powerful acceleration and quick start-up also contribute to increasing operation efficiency

Automatic 2-Speed Transmission as standard equipment (Torque converter models)

The torque converter truck is equipped with an automatic transmission for shifting the first and the second gears, as standard equipment. Smoother start-up and acceleration by 2-speed transmission as well as no changing gear operation largely contribute to improve operation efficiency, remarkable performance at various work sites.

Max. Drawbar Pull with load (FD40 torque converter model)

Conventional model
29.4 kN

New model
33.3 kN

Selectable the best suitable travel mode

The new switch is able to change three travel modes (Torque converter models)

One soft touch on the switch, able to easily select optimum traction at travel. For cargo handling, you may select either H or M-mode, while L-mode is suitable for climbing slopes.



H-mode Long distance traveling
L-mode Fixed first gear
M-mode Standard operation

Mobility



Dependable Functions... For Improving Safety

Highly reputed TCM wide view masts

10% improved forward view

(Comparison with conventional 3.5-4.0 ton models with standard mast)

The ideally designed masts having wider interval, substantially contribute to much safer material handling as well as enhanced comfort for the operator.



Reducing operator's fatigue

Newly employed seat with side arms

In addition to highly reputed TCM seat suspension system, the new seat with side arms firmly holds the driver while traveling as well as cargo handling.

The seat is also equipped with reclining mechanism and a document holder for providing additional comfort to operate the vehicle.



Improved safety in the back

High-mounted rear combination lights

The lights and turn signals are highly visible in the workplace. The positioning reduces accidents for other personnel as well as equipment.



Secured safety at engine start

Equipped with a neutral safety mechanism

The specially designed device for much safer operation at engine start-up, the mechanism allows the engine start only when the shift control lever is in the neutral position.

Safety measure at maintenance

Cylinder type bonnet latch with safety stopper

Full open type bonnet equipped with cylinder type latch is firmly held at daily and routing maintenance work.



Clean and Powerful Engine

6-cylinder S6S Diesel Engine
Lower vibration and
lesser fuel consumption as well.

The environment friendly diesel engine meets EU Stage-II, US EPA Tire2 and JPN Phase2 emission control regulations. The engine adopting a new type swirl-chamber combustion system achieves cleaner exhaust. This powerful and environment friendly engine is the core gear for this powerful forklift trucks.



Rated output 64.7kW(88PS)/2300r.p.m.
Maximum torque 284N·m(29kgf-m)/1600r.p.m.

Easier start-up

Engine automatic glow system
as standard equipment (Diesel models)

The engine automatically glowed with the ignition key "ON" achieves stable engine start-up. (Glow indicator lamp is equipped in meter panel)



Light-touch lever operation
reducing drivers' fatigue

Electric shift control lever

(Torque converter models)

The light-touch shift control lever enables forward, neutral and reverse shifting operations much easier. An automatic transmission further reduces fatigue of operators.



Multi-function switch lever same
as a passenger car

**Lighting switch integrated with
turn signal switch**

The multi-function switch lever provides convenient familiarity with that of driving a passenger car. Turn signal automatically returns when turns are completed.



Ample drivers foot space

Employs a tilting cover

Comfortable access to the vehicle has the wider floor and step spaces. In addition, the protective cover on the tilt cylinder enhances safety and comfort.



Comfort

More Powerful as well as Cleaner... Increased Comfort



Superior cooling performance for improved durability

Newly adopted aluminum radiator improves cooling capacity by 18%

The aluminum radiator achieves 54.9KW cooling capacity. Moreover, integrated molding



parts together with this radiator improve the strength of the part connection, efficiency of the engine and total durability consequently.

Outstanding durability

Equipped with a sturdy differential and an axle

The drive train is designed with a comfortable margin for very hard material handling operations. Highly reputed performance at the harsh environmental work-sites.



Durability

Longer service life

An oil clutch is equipped as a standard device (Manual clutch models)

The clutch disc is cooled and lubricated by transmission oil forcedly circulated through oil cooler, which contributes to lesser wear and longer life of the clutch disc.

Improved durability of wet-multiple plate type clutch

For new torque converter equipped with cooling fins (Torque converter models)

Cooling performance of torque converter oil is largely improved, which is good for longer life of the clutch-pack.

Longer life of the lift cylinder

Oil filled type lift cylinder

The upper part of the lift cylinders is also filled with hydraulic oil, which greatly supports the longer usage of the cylinder.

Superb Performance... Based on Improved Durability

