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ISO 9001 Certification
(TCM Shiga plant)



ISO 14001 Certification
(TCM Shiga plant)

Manufactured by
TCM
TCM CORPORATION

1-15-5 Nishi-Shimbashi, Minato-ku,
Tokyo 105-0003 Japan
TEL: +81-3-3591-8176
FAX: +81-3-3591-8152
URL: <http://www.tcmglobal.net>

Distributed by

DIESEL POWERED & GASOLINE POWERED PNEUMATIC TIRE TRUCKS

3.5-5.0t

FD•G35 / FD•G40 / FD•G45 / FD•G50

Mobility

Evolutionary forklift trucks with improved mobility, comfort, safety and durability

The TCM Forklift Truck "FD-FG" 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 features like aluminum radiator,

torque converter with high quality fins for cooling, improves vehicle durability as well as total operational performance.



3.5t / 4.0t / 4.5t / 5.0t

Mobility & Comfort

Agile Movement... Excellent Mobility
More Powerful as well as Cleaner... Increased Comfort

M01 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.



M02 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**

M03 Selectable the best suitable travel mode

Travel mode switch is able to change travel mode (Torque converter model)

One soft touch on the switch, able to easily select optimum traction mode.



C01 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.

C02 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)



C03 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.



C04 Multi-function switch lever same as a passenger car

Lighting switch integrated with turn signal switch

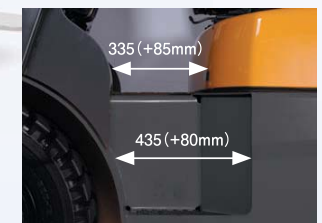
The multi-function switch lever provides convenient familiarity with that of driving a passenger car. Turn signal automatically returns when turns are completed.



C05 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.



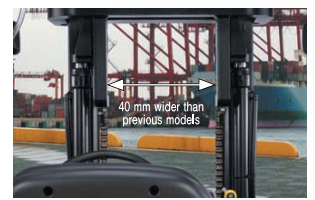
Safety & Durability

Dependable Functions... For Improving Safety
 Superb Performance... Based on Improved Durability



S01 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.



S02 Reducing operator's fatigue

Operator's 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.



S03 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.



S04 Secured safety at engine start

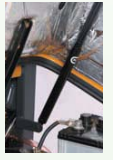
Equipped with a neutral safety mechanism

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.

S05 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.



D01

D01 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.

D03

D02 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.



D02

D03 Improved durability of wet-multiple plate type clutch

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.

D05 Superior cooling performance for improved durability



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.

D04 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.