

**TCM**

**Large-size Forklift Trucks**

**25-30 ton**

**FD250-3 FD300-3**



COMFORTABLE FORKLIFT TRUCKS

# Successor to Our Top Product

The Long-time best-selling products prove the "trust" of users.  
The newly upgraded and redesigned FD250 and FD300 large forklift trucks have now  
debuted in global markets.



The 25-ton TCM forklift truck has been ranked as the best-selling product in its class for more than seventeen years since its debut in 1989. Our dear customers' patronage of this product is undoubtedly due to its superior function – durability and leading technologies as well as TCM's detailed knowledge and extensive experience at customers' worksites. TCM is very proud to release the advanced FD300 following the recently redesigned FD250. The new FD250 and FD300 forklifts — equipped with an engine compliant with Japanese 2<sup>nd</sup> stage emission controls, wider front and rear visibility, and 4-speed automatic transmission — are indeed the leading "Comfortable Forklift Trucks" for this age of advanced material handling.



**Newly adopted engine,  
clearing stringent  
environmental regulations.**

The mounted 165kW inter-cooler turbo diesel engine is the largest capacity in its class, with sufficient power able to conduct continued rigorous work.

Total displacement **11,940cc**

Rated horsepower **165kW/2,100rpm**  
**224ps/2,100rpm**

Maximum torque **980N·m/1,400rpm**

**FD300 forklifts have debuted in response to the recent revision of the 20'-container weight standard (up to 30,480kg) by ISO.**



The photo shows both FD250-3 and FD300-3 with side shifters fork positioners.

# Operator-friendly and comfortable cabin space designed with thoughtful consideration of the operator's difficult job.

## Forklift Trucks Comfortable for Operators

Superb ride and low vibration in the cabin due to the adoption of a floating cockpit and deluxe seat.

### Industry top-class lifting speeds

FD250 360mm/s (without load) 330mm/s (with load)

FD300 280mm/s (without load) 250mm/s (with load)



#### LIFTING SPEED

FD250  
330/360  
mm/s  
(with load / without load)

FD300  
250/280  
mm/s  
(with load / without load)

Deluxe seat

Pillar-less cabin

Viscous-mount low vibration system (silicon oil filled)



Closed wet-disc brakes



### Low-noise, lower vibration cabin

A liquid-filled rubber mount (Viscous-mount) between the driver's seat and the frame. In addition, an integrated rubber mount in the hydraulic part reduces noise and vibration significantly.

### Large-capacity air conditioner (standard equipment)

Very pleasant and relaxing space in the cabin due to a large-capacity air conditioner.

Cooling Efficiency

4.7kW



### Pillar-less cabin and compact meter panel

Excellent visibility achieved by absence of front and rear pillars. Compact meter panel further contributes to clean, wider front visibility.

### Integrated switch panel board

Recognition of worksites and operating efficiencies is substantially improved due to the compactly integrated layout of all switches on the right side of the operator.



### Flat and wider step board

Easier and safer entry and exit.

### Improved rear visibility

Rear visibility is largely improved due to reshaping of the counter weight.



### Single steering cylinder system



### Deluxe multi-functional seat as standard equipment

Well-cushioned deluxe seat with various functions such as reclining, forward/backward sliding, smooth swiveling, upward/downward adjustment, and adjustable armrest position.





## Simpler operation reduces physical fatigue even in harsh working conditions.

Operation with higher work efficiency as well as enhanced safety

These large forklift trucks are capable of quickly, easily, and powerfully performing very heavy load operations such as handling metal materials and marine containers.

### Hydraulic pilot-type control valves newly adopted for operation levers

Possible to operate and control the vehicle with light touches of the hydraulic assist lever and armrest. Difficult operations can be performed by fingertip maneuvers, as well.

Lever-handling force reduced by **8.2% - 0.7kg**

- ① Lifting ② Tilting ③ Side Shifter(optional)  
④・⑤ Fork Positioner(optional)

### New electronic parking system



Easy to apply parking brake electronically. In addition, the electronic brake is automatically switched on when the engine halts, avoiding negligent braking when the vehicle stops.

### Larger fuel tank

Extended refueling interval contributes to work efficiency.

**600 liters**



### 4-speed automatic transmission (duo-stick system)

Possible to select either 1<sup>st</sup> gear → 4<sup>th</sup> gear, or 2<sup>nd</sup> gear → 4<sup>th</sup> gear by automatic transmission, similar to passenger cars. The new duo-stick lever system can perform backward and forward shifting while handling the steering wheel.

D(P)	First ↔ Second ↔ Third ↔ Fourth
D(E)	Second ↔ Third ↔ Fourth
First gear	Fixed at the first speed
Second gear	Fixed at the second speed

(P)Power mode drive : (E)Economy mode drive

### Steering wheel with smaller turning radius

Possible to change cargo-handling modes very easily due to the light and sharp hydraulic steering system.

Reduced steering operation force **1.0kg**

**3.8 turns**

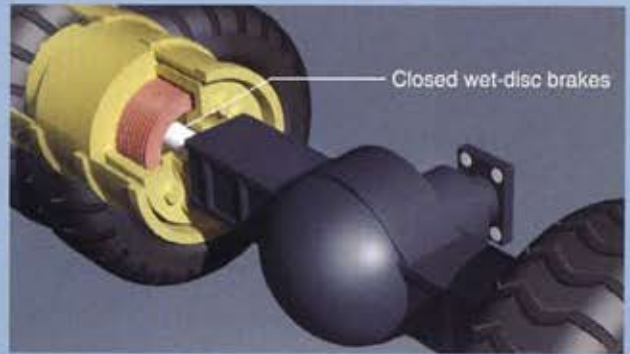
(for FD250)





### Easier vehicle inspection and maintenance

Both inspection and maintenance of the engine can be easily performed, as the hood opens widely and the side panels open three ways. Moreover, a centralized oil supply system for the mast and a hinged wide cover for the battery box were adopted. Furthermore, inspection and cleaning of the air-cleaner, attached to the upper part of the hood, can be accomplished conveniently.

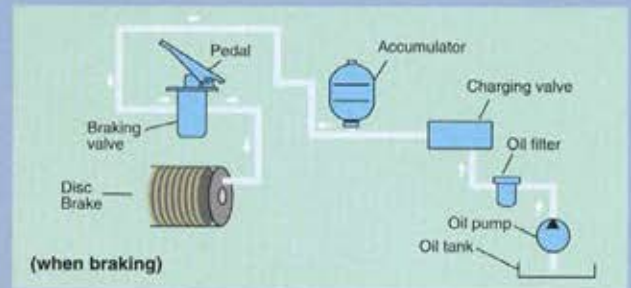


### Closed wet-disc brakes

A newly adopted brake with compulsory cooling system. Stable braking and reduced maintenance cost compared to the lining friction loss of a drum braking system.

### Full-power braking system

A full-power braking system has been adopted, eliminating the need for air pressure circuit and brake oil, thereby improving maintenance costs dramatically.



### Single steering cylinder system

The single steering cylinder system makes stationary steering easy, resulting in comfortable steering maneuverability.





TCM retains the right to change these products and specifications without incurring any obligation relating to such changes.  
These products and specifications are subject to change without notice.  
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Features and specifications may vary depending on markets.

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