

Large-size Forklift Trucks

FD250-3 FD300-3



Successor to Our Top Product

The Long-time best-selling products prove the "trust" of users.

The newly upgraded and redsigned 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 functions – 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 2nd 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

165kw/2,100rpm 224ps/2,100rpm

Maximum

980_{N·m}/1,400_{rpm}

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



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

Forklift Trucks Comfotable for Operators

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



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 nosie 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

Excellnt visibility achieved by absence of front and rear pillars. Compact meter panel futher contibutes 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.



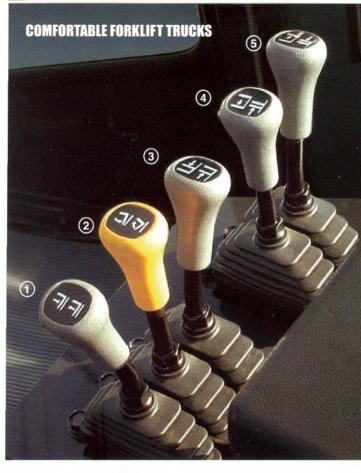
Single steering cylinder system



Deluxe multi-function seat as standard equipment

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





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 finegertip 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.

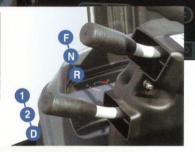
600 liters

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.





4-speed automatic transmission (duo-stick system)

Possible to select either

1st gear → 4th gear, or

2nd gear → 4th 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 charge cargo-handling modes very easily due to the light and sharp hydraulic steering system.

Reduced steerin

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.

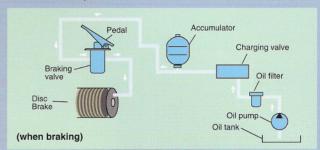


Closed wet-disc brakes

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







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Features and specifications may very depending on markets.

Manufactured by



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Large-size Forklift Trucks

25-30 ton

SPECIFICATIONS

FD250-3 FD300-3

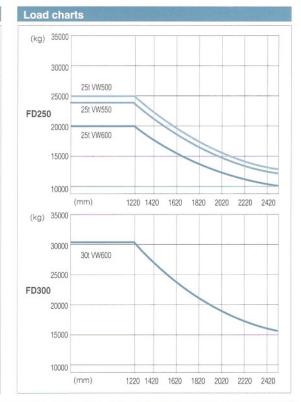


STANDARD SPECIFICATIONS

1	Manufacturer					TC		TC		
2	Model Conneits			kg		FD25		FD300-3		
3	oad Capacity					250			30500	
4	_oad Center			mm		122			1220	
5		ver Type				Die: Sea		Diesel Seated		
6	Operator Position							Pneur		
7	Tire Type Front/Rear					Pneur				
8	Wheels(x=driven) Front/Rear					2x / 2		2x / 2		
9	Maximum Fork Height				A	300	00	3000		
10	Free Lift			mm		0		0		
12	Overall length : with forks			mm	С	875	50	9135		
	Fork Size LxWxT			mm		2440 x 31	0 x 105	2440 x 330 x 108		
	Fork Spread(Outside) Max. / Min			mm	В	2750	950	2750 / 1250		
14	Tilt Angle Fwd. / Bwd			deg		6/	12	6 / 12		
15	Length to Fork Face			mm		631		669	95	
16				mm	D	307			3460	
17		t Lowered Height		mm	E	375		3750		
18		Mast Extended Height Cabin Height				5250		5250		
19					M	360		365		
		Overhead Guard Height				-		-		
20 21						2400		2460		
			((, 1 -)	mm	R	5900		6310		
22		ont axle to front fac	e of forks)	mm		985 925		1070 1025		
-		Rear Overhang				5000		5330		
23	Intersectina Aisle			mm		500	00	533	JU	
			1st	km/h	111111	7.5	7.0	5.8	5.3	
0.4		Travel speed	2nd	km/h		13.0	12.0	10.1	9.2	
24		(Fwd. / Rvs.)	3rd	km/h		21.0	19.5	16.1	14.9	
	Cacada		4th	km/h		34.0	32.0	26.1	24.4	
25 26 28 30	Speeds	1.00	Full Load	mm/sec		33	0	25	0	
		Lifting	No Load	mm/sec		36		280		
			Full load	mm/sec		400 - 600		400 - 600		
		Lowering No Load				400 -	600	400 - 600		
	Max, Drawbar Pull Full Load			kN		16		197		
	Wax. Diawour Fair		No Load	kN		11		148		
	Max. Gradeability*		Full Load	%		22		20		
	No Load			%		27		26		
32	Total Weight			kg		34150		43440		
02	Total Weight	Total Weight Front				534		67480		
33		Full Load Rear		kg kg		4710		6460		
	Weight Distribution			kg		172	17250		20	
34		No Load	Load Rear			16900		21820		
35		Number	Front / Rear			4/		4 /		
36	Tires	Size	Front			14.00 - 24 - 24PR(ID)		16.00 - 25 - 32PR(ID) 16.00 - 25 - 32PR(ID)		
37			Rear	200.00	F.	14.00 - 24 - 24PR(ID) 4400		4600		
38	Wheelbase			mm	K K					
39	Tread		Front	mm	L		2200 2300		2440 2530	
	Overhead Clearence	Overhead Clearance				1115		1115		
40	Overhead Clearance Hood Height						2060		2135	
	Drawbar Height					785		850		
	Step Height / Floor Height					- 785		-		
	Min with Load			mm		300		300		
41	Underclearance		Center of Wheelbase Service(Foot)		G	33		38		
42						Built in axle - m		Built in axle - m		
43	Brake Parking					Built in mission - wet disc		Built in mission - wet disc		
	_									
45	Battery	Voltage / Capacity(5HR)		V/AH		2 x 12		2 x 12		
49	Make / Mod		/ Model			MITSUBISHI F		MITSUBISHI F		
				1.121		with turbo-charg		with turbo-charg		
50			power / r.p.m.	kW		165 / 2		165 /		
51	Internal Combusion Engine Number of Piston Dis		orque / r.p.m.	N-m		980 /		980 /		
			of Cylinder)			6 11940		6		
52				Amp				11940 50		
50 51 52			Alternator output			50 60			na contraction of the contractio	
		Fuel Tan	k Capacity	Liter		Power		600 Power - shift		
		-						rower		
55	Transmission	Stage	ype Fwd. / Rvs.			4 -		4 -		

Note: *Computed values

Dimensions D В Е G mm



Mast Model	Capacity Load center 1220mm		Max. Fork Height	Overall Mast H	eight (lowered)	Overall Mast Height (raised)		Tilt Angle	Service Weight	
				Overall Mast H	eigni (lowered)					
	FD250-3 FD300-			FD250-3	FD300-3	FD250-3	FD300-3	Fwd / Bwd	FD250-3	FD300-3
	kg	kg	mm	mm	mm	mm	mm	degree	kg	kg
VM300	25000	30500	3000	3750	3750	5250	5250	6/12	34150	43440
VM350	25000	30500	3500	4000	4000	5750	5750	6 / 12	34350	43690
VM400	25000	30500	4000	4250	4250	6250	6250	6 / 12	34560	43940
VM450	25000	30500	4500	4500	4500	6750	6750	6 / 12	35050	44600
VM500	25000	30500	5000	4750	4750	7250	7250	6 / 12	35250	44860
VM550	24000	30500	5500	5000	5000	7750	7750	6 / 12	35460	45110
VM600	20000	30500	6000	5250	5250	8250	8250	6/12	35650	45360

Standard Equipment and Accessories

Equipment

- Automatic 4-speed powershift transmission
- Bonnet gas dumper with locking stay
- Brake cooling oil level view gauge
- Cartridge type filters; engine fuel, engine oil, mission oil & hydraulic oil
- Coolant reservoir tank
- Cyclopack type double element air cleaner
- Delux suspension seat
- Drawbar device in counter weight
- Electrically-controlled parking brake
- Engine oil dipstick
- Fork positioner(manual type)
- Front dual drive wheels
- Full hydorostatic power steering
- Heavy duty pneumatic tires
- Hydraulic oil level view gauge
- Large capacity fuel tank(600 litters)
- Load check valve
- Steel cabin with air-conditioner
- Tilt adjustable steering column
- Tilt cylinder lock valve
- Transmisssion oil dipstick
- Wet disc brake
- Wide view 2-stage mast
- 2440mm length forks

Accessories

- Buck-up buzzer Deluxe floor mat
- Electric horn
- Front combination lights turn signal & clearance
- Head lights
- Operator tool kit
- Rear combination lights, turn signal, tail, stop, back-up
- Rear reflectors
- Rear under-view mirror
- Room mirror
- Side view mirrors
- Turn signal lights(front)
- Working lights(front, rear)

Switch & Controls

- Automatic transmission mode select switch power mode & economy mode
- Electrically-controlled direction change lever inc. neutral safety lock device
- Electrically-controlled parking brake switch
- Lift lever
- Lighting switch
- Speed change hold switch (1st fixed / 2nd fixed / automatic speed shift)
- Starter switch inc. pre-heating & main switch
- Tilt lever
- Turn signal switch

Instruments

- Air cleaner clogging warning indicator
- Brake oil pressure warning indicator
- Brake oill temperature warning light
- Charge indicator
- Engine diagnosis monitor lamps
- Engine oil pressure warning indicator inc. engine oil filter clogging warning
- Engine pre-heating lamp
- Engine thermometer
- Fuel meter
- Hi-beam indicator(head lights)
- Hourmeter
- Parking brake indicator
- Speedometer
- Transmission oil temperature warning indicator
- Turn signal indicator
- Working light indicator

Optional Equipment and Accessories

Equipment

- Alternative fork length
- Alternative mast height
- Central greasing system
- Delux suspension seat with seat belt Detachable Ram / Fork attachment
- Fork positioner(hydraulic cylinder type)
- Fork positioner(hydraulic motor type) Fork positioner(hyd. cylinder) with side shifter
- · Fork positioner(hyd. motor) with side shifter

- Heater & defroster
- Large capacity alternator
- Large capacity battery Load weight indicator
- Overhead guard type cab with wide rubber floor mat
- Ram attachment
- Side shifter
- Split ram attachment

Accessories

- Custom paint-works
- Fire extinguisher
- Rotating warning yellow light(beacon)

Others on request



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