

CM.

Large-size Forklift Trucks **25-30** ton FD250-3 FD300-3

TCM

Successor to Our Top Product

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

The 25-ton TCM forklift truck has been ranked as one of the best-selling product in its class since it's debut in 1989. Our dear customers' affinity for this forklift is due to its undoubtedly superior functionality, durability and industry leading technologies as well as the detailed knowledge and extensive experience at our customer's worksites. We are very proud to release the advanced FD300 following the recently redesigned FD250. FD250 and FD300, equipped with the engine with the performance clearing the emission levels required in EU stage II, US EPA Tier 2 and Japan stage II regulations, wider front and rear visibility and 4-speed automatic transmission – are indeed the leading "Comfortable Forklift Trucks" for this age of advanced material handling.

TCM



Innovative 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 displac	cement 11,940cc
Rated horsepower	165kw/2,100rpm 224ps/2,100rpm
Maximum torque	980 _{N·m} /1,400 _{rpm}



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.





Low-noise, lower vibration cabin

an integrated rubber mount in the hydraulic part reduces noise and vibration significantly.

Large-capacity air conditioner

(standard equipment)

Cooling Efficiency

to a large-capacity air conditioner.

the driver's seat and the frame. In addition,

A liquid-filled rubber mount (Viscous-mount) betwee

Very pleasant and relaxing space in the cabin due

4.7kW

Closed wet-disc brakes







Deluxe multi-functional seat as standard equipment

Well-cushioned deluxe seat with various swiveling, upward/downward adjustment,

COMFORTABLE FORKLIFT TRUCKS

Simpler operation reduces physical fatigue even in harsh working conditions.

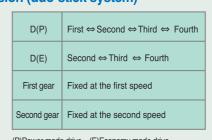
Operation with higher work efficiency as well as enhanced safety

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 1^{st} gear $\rightarrow 4^{th}$ gear, or 2^{nd} gear $\rightarrow 4^{th}$ 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.



(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.

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.



Hydraulic pilot-type control valves newly adopted for operation levers

4

ST.

3

-7/0

2

(1)

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)

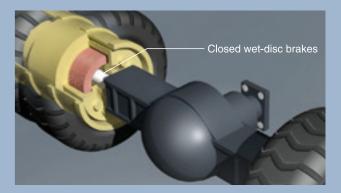
Electronic parking system



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

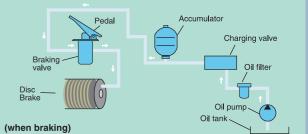


Closed wet-disc brakes

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

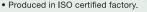
A full-power braking system has been adopted, eliminating the need for air pressure circuit and brake oil, thereby improving maintenance costs dramatically.







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Produced in ISO certified factory.





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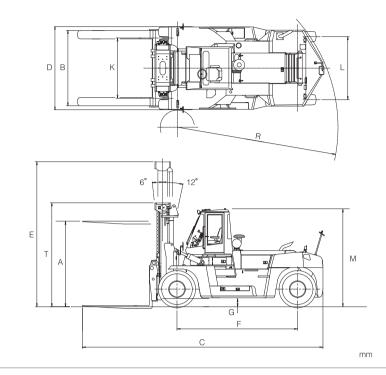
Large-size Forklift Trucks **25-30** ton SPECIFICATIONS FD250-3 FD300-3

STANDARD SPECIFICATIONS

S	TA	NDARD SPECIFICATIONS								
	1	Manufacturer					UNICAR	RIERS	UNICAR	RIERS
S	2	Model					FD250-3		FD300-3	
isti	3	Load Capacity			kg		250		30500	
cter	4	Load Center			mm		12:		1220	
Characteristics	5	Power Type					Die		Diesel	
မှ	6 7	Operator Position Tire Type		Front/Rear			Sea Pneur		Pneumatic	
	8	Wheels(x=driven)		Front/Rear			4x.		4x /	
	9	Maximum Fork Height			mm	٥	200	20	200	20
	9 10	Free Lift	mm	A	3000		<u> </u>			
	12	Overall length : with forks			mm	С		8750		35
	13				mm		2440 x 3	10 x 105	2440 x 330 x 108	
		Fork Spread(Outside) Max. / Min.				В	2750		2750 / 1250	
	14	Tilt Angle	Fwd. / Bwd. deg 6 / 12			6 / 1				
ons	15	Overall length : without forks			mm	_		6300		35
șnsi	16 17	Overall Width Mast Lowered Height			mm mm	D T	30		3460 3565	
Dimensions	18	Mast Extended Height			mm	E	<u> </u>		5265	
	19	0			mm	M		3590		70
		Overhead Guard Height					-		-	
	20	Operator's Seat Height			mm		2400		2475	
	21	Turning Radius(Outside)	1		mm	R	5900		6310	
	22	Fork Overhang (Centerline of front	axle to front fac	e of forks)	mm		<u> </u>		107	
	22	Rear Overhang Intersectina Aisle			mm mm		92		102 533	
	20									
				1st	km/h		7.5	7.0	6.0	5.5
	24		Travel speed	2nd	km/h km/h		13.0	12.0 19.5	10.0	9.0 15.0
			(Fwd. / Rvs.)	3rd 4th	km/h		21.0 34.0	32.0	16.0 26.0	24.5
nce		Speeds		Full Load	mm/sec		33		20.025	
mai	25		Lifting No Load		mm/sec		36		28	
Performance	26		Lowering	Full load	mm/sec		400 - 600		400 - 600	
Pe	20		Lowening	No Load mm/sec 400 - 600			400 - 600			
	28	8 Max. Drawbar Pull Full Load			kN		16		197 148	
		No Load			kN %			<u>118</u> 22		
	30	Max. Gradeability*		Full Load No Load	%		2		20 26	
	32	Total Weight		Front	kg kg		343		43310 67330	
Weight	33	3	Full Load	Rear	kg		43		648	
We		Weight Distribution		Front	kg		17330		214	
	34		No Load Rear		kg		17000		21840	
	35		Number	Front / Rear			4 /	2	4 /	2
	36	Tires		Front			14.00 - 24		16.00 - 25 -	
	37		Size	Rear			14.00 - 24 - 24PR(ID)		16.00 - 25 - 32PR(ID)	
	38	Wheelbase			mm	F	44(4600	
8	39	Tread		Front	mm	K	2200		2440	
/hee		Overhead Clearance		Rear	mm mm	L	2300		2530 1115	
8 N		Hood Height			mm		2050		2150	
Chassis & Wheels		Drawbar Height			mm		780		870	
has		Step Height / Floor Height			mm		-		-	
	40	Underclearance		hout Load	mm			300		5
	41			Wheelbase	mm	G	33		38 Ruilt in oxlo	
	42 43					Built in axle - m Built in missio		Built in axle - m Built in missio		
	45	Battery	Voltage / C	V/Ah		2 x 12		2 x 12		
	49		Maximum Torque / Engine Speed N				MITSUBISHI I with turbo-charg		MITSUBISHI F with turbo-charge	
sior	50				kW/r.p.m.		165 / 2100		with turbo-charger / inter-cooler 165 / 2100	
mis	51	Internal Combusies Francisco					980 / 1400		980 / 1400	
ansi		Internal Combusion Engine		of Cylinder)			6		6	
, Tr	52			splacement	lit.		11.940		11.940	
he &			Alternator output		A		50		50	
Engine & Transmission			Fuel Tank Capacity Type		Liter		60 Power	-	600 Rower shift	
Ξ	55	Transmission	Stage	Fwd. / Rvs.			- 4 -		Power - shift 4 - 4	
	57	Operating Pressure	For Attachments	1	MPa(psi)		20		20.6	
_		Computed values							20	

Note : *Computed values

Dimensions



	Capacity		Max. Fork	Overall Mast Height (lowered)		Overall Mast Height (raised)		Tilt Angle	Service Weight	
Mast Model	FD250-3	FD300-3	Height	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	3765	5250	5265	6/12	34330	43310
VM350	25000	30500	3500	4000	4015	5750	5765	6/12	34530	43560
VM400	25000	30500	4000	4250	4265	6250	6265	6/12	34740	43810
VM450	25000	30500	4500	4500	4515	6750	6765	6/12	35230	44470
VM500	25000	30500	5000	4750	4765	7250	7265	6/12	35430	44670
VM550	24000	30500	5500	5000	5015	7750	7765	6/12	35640	44980
VM600	20000	30500	6000	5250	5265	8250	8265	6/12	35830	45230

Equipment	Accessories				
 Automatic 4-speed powershift transmission 	 Buck-up buzzer 				
 Bonnet gas dumper with locking stay 	Deluxe floor mat				
 Brake cooling oil level view gauge 	Electric horn				
 Cartridge type filters; engine fuel, engine oil, mission oil & hydraulic oil 	 Front combination lights turn signal & clearance Head lights 				
 Coolant reservoir tank 	 Operator tool kit 				
 Cyclopack type double element air cleaner Delux suspension seat 	 Rear combination lights, turn signal, tail, stop, back-up 				
 Drawbar device in counter weight 	 Rear reflectors 				
Electrically-controlled parking brake	Rear under-view mirror				
Engine oil dipstick	Room mirror				
 Fork positioner(manual type) 	 Side view mirrors 				
Front dual drive wheels	 Turn signal lights(front) 				
 Full hydorostatic power steering 	 Working lights(front, rear) 				
 Heavy duty pneumatic tires Hydraulic oil level view gauge 	Switch & Controls				
Large capacity fuel tank(600 litters) Load check valve	 Automatic transmission mode select switch power mode & economy mode 				

- Large
- 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

• Starter switch inc. pre-heating & main switch Tilt lever

Turn signal switch

Lift lever

Lighting switch

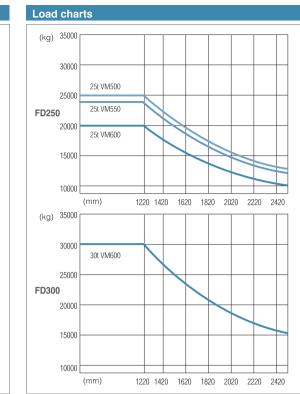
Optional Equipment and Accessories

- 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



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

Electrically-controlled direction change lever inc. neutral safety lock device

• Electrically-controlled parking brake switch

Speed change hold switch (1st fixed / 2nd fixed / automatic speed shift)

Accessories

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

Others on request

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