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

**UNICARRIERS** 

## **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 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. The FD250 and FD300 forklifts – equipped with engines compliant with the 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.

**by UNI CARRIE** 





#### 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 <b>11,940cc</b>
Rated horsepower	165kw/2,100rpm 224ps/2,100rpm
Maximum torque	980 <sub>N·m</sub> /1,400 <sub>rpm</sub>



## **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)

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



swiveling, upward/downward adjustment, and adjustable armrest position.

## **COMFORTABLE FORKLIFT TRUCKS**

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

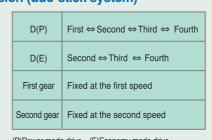
## Operation with higher work efficiency as well as enhanced safety

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.

(for FD250)

1.0kg

3.8 turns





#### 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

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.

4

ST.

3

-7/0

2

#### 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

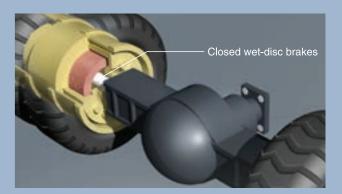


Easy to apply parking brake electronically. In addition, the electronic brake is automatically switched on when the engine halts, avoiding negligent braking when the vehicle stops.

Larger fuel tank Extended refueling interval contributes to work efficiency.

600 liters



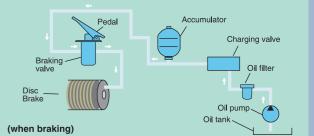


#### **Closed wet-disc brakes**

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.







UniCarriers Corporation 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.
Photos and illustrations may or may not include optional equipment and accessories
Produced in ISO certified factory.



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# Large-size Forklift Trucks **25-30** ton **SPECIFICATIONS**

FD250-3 FD300-3

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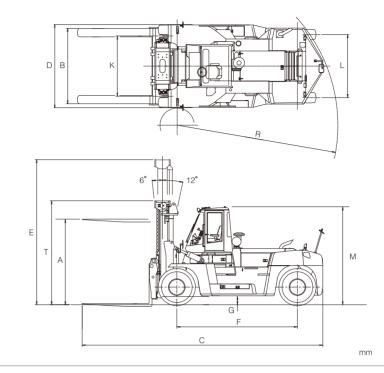


#### STANDARD SPECIFICATIONS

<b>S</b> 1	ΓA Ι	NDARD SPECIFICATIONS									
	1	Manufacturer			UNICAR	RIERS	UNICARI	RIERS			
ĸ	2	Model					FD2		FD300-3		
stic	3	Load Capacity			kg		250	25000 1220 Diesel		00	
e.	4	Load Center			mm		122			0	
lac	5	Power Type					Die			el	
Characteristics	6	Operator Position					Sea	ted	Seated		
°	7	Tire Type Front/Rear					Pneur	Pneumatic		natic	
	8	Wheels(x=driven) Front/Rear					4x /	4x / 2		2	
	9	Maximum Fork Height			mm	A	300	3000		0	
	10	Free Lift						0		•	
	12	Overall length : with forks	mm	С	875		0 913	5			
	13				mm		2440 x 3		2440 x 33		
		Fork Spread(Outside) Max. / Min.			mm	В	2750 / 950		2750 / 1250		
1	14	Tilt Angle Fwd. / Bwd.			deg		6 /	12	6 / 12		
Su	15	Overall length : without forks	verall length : without forks				630	00	6685		
	16	Overall Width	verall Width		mm	D	307	70	3460		
l a	_	Mast Lowered Height		mm	Т		3750		5		
		Mast Extended Height				E	5250		5265		
1	19	Cabin Height			mm mm	М	3590		3670		
20 21		Overhead Guard Height					-		-		
	-				mm	R	2400		2475		
	_	Turning Radius(Outside) Fork Overhang(Centerline of front	ave to front for	of forks)	mm mm	н	<u> </u>		6310		
4	22	Rear Overhang	avie to nont lat	e or lorks)	mm mm		985		1070		
2	23	Rear Overhang Intersectina Aisle			mm		5000		1025 5330		
	-01										
				1st	km/h		7.5	7.0	6.0	5.5	
2	24		Travel speed	2nd	km/h		13.0	12.0	10.0	9.0	
	-		(Fwd. / Rvs.)	3rd	km/h		21.0	19.5	16.0	15.0	
8	_	Speeds		4th	km/h		34.0	32.0	26.0	24.5	
an	25		Lifting	Full Load	mm/sec		33		250		
L L	_			No Load	mm/sec mm/sec			360		600	
Performance	26 Loweri		Lowering	Full load No Load	mm/sec			400 - 600 400 - 600		600	
	+			Full Load	kN			163			
2	28	Max. Drawbar Pull No Load			kN		11		197		
	+	Eull Load			%		22		20		
3	30	Max. Gradeability*		No Load	%			27			
							0.40	00	43310		
	32				kg kg			34330 55000			
Hg 3	33		Full Load	Front Rear	kg		433		67330 6480		
Weight		Weight Distribution		Front	kg		17330		21470		
3	34		No Load	Rear	kg		170		21840		
	_								1		
	35		Number				4/		4/2 16.00.05.20PP/ID)		
	36	Tires	Size	Front			14.00 - 24 -	. , , , , , , , , , , , , , , , , , , ,	16.00 - 25 - 32PR(ID) 16.00 - 25 - 32PR(ID)		
	37	Wheelbase		Rear	mm	F		14.00 - 24 - 24PR(ID) 4400		( )	
	38		Vheelbase		mm	F K	220		4600 2440		
e s	39	Tread Front Rear			mm	L		2300		0	
Chassis & Wheels		Overhead Clearance	nour	mm			1115				
~		Hood Height					2050		1115 2150		
sis		Drawbar Height			mm			780		870	
has		Step Height / Floor Height	tep Height / Floor Height Inderclearance Min. without Load Center of Wheelbase		mm		-		-		
	10	Underclearance			mm		300		315		
	11				mm	G	330		385		
	12	Brake Service(Foot)					Built in axle - multiple wet disc Built in mission - wet disc		Built in axle - multiple wet disc Built in mission - wet disc		
4	13	Parking						on - wet alsc		n - wet alsc	
	15	Battery Voltage / Capacity(5HR)			V/Ah		2 x 12	/ 108	2 x 12 /	/ 108	
	19		Make	/ Model			MITSUBISHI I		MITSUBISHI F		
5		-	Rated Output / Engine Speed				with turbo-charg		with turbo-charge		
SS 5	50				kW/r.p.m.		165 / 2000 /		165 / 2		
us s	51	Internal Combusion Engine	Maximum Torque / Engine Speed		N-m/rpm.			980 / 1400		400	
ran			Number of Cylinder) Piston Displacement		124			6		10	
L S	52				lit. A		<u> </u>		11.940 50		
ne			Altemator output Fuel Tank Capacity		Liter		60		600		
Engine & Transmission							Power		Power - shift		
ш <u></u>	55	Transmission	Stage	Fwd. / Rvs.			4 -		4 - 4		
5	57	Operating Pressure	For Attachments		MPa(psi)		20	.6	20.	6	
Note	*	Computed values									

Note : \*Computed values

#### Dimensions



Mast Model	Capacity Load center 1220mm		Max. Fork	Overall Mast H	leight (lowered)	Overall Mast Height (raised)		Tilt Angle	Service Weight	
IVIASI IVIOUEI	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

• Front combination lights turn signal & clearance

#### Standard Equipment and Accessories

#### Equipment

- Automatic 4-speed powershift transmission
- Bonnet gas dumper with locking stay
- Brake cooling oil level view gauge

- Cyclopack type double element air cleaner
- Delux suspension seat
- Drawbar device in counter weight
- Electrically-controlled parking brake
- Engine oil dipstick

- Steel cabin with air-conditioner

- Turn signal 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
- Side shifter
- Split ram attachment

- Electrically-controlled parking brake switch
- Lift lever

Accessories

Buck-up buzzer

Deluxe floor mat

Operator tool kit

Rear reflectors

Room mirror

Side view mirrors

Rear under-view mirror

Turn signal lights(front)

Electric horn

Head lights

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

 Working lights(front, rear) Switch & Controls Automatic transmission mode select switch

Rear combination lights, turn signal, tail, stop, back-up

- power mode & economy mode
- Electrically-controlled direction change lever inc. neutral safety lock device

- Lighting switch

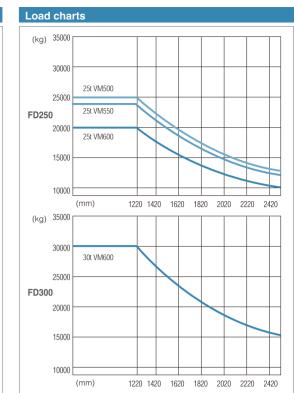
- Starter switch inc. pre-heating & main switch

- Cartridge type filters; engine fuel, engine oil,
- mission oil & hydraulic oil
- Coolant reservoir tank

- 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
- Tilt adjustable steering column
- Tilt cylinder lock valve
- Transmisssion oil dipstick
- Wet disc brake
- Wide view 2-stage mast
- 2440mm length forks

- Large capacity battery Load weight indicator
- Overhead guard type cab. with wide rubber floor mat
- 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 thermomete
- Fuel meter
- Hi-beam indicator(head lights)
- Hourmeter
- Parking brake indicator
- Speedometer
- Transmission oil temperature warning indicator
- Turn signal indicator
- Working light indicator

Accessories

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

Others on request