



# Diesel Forklift Truck

with capacities of 1,500 to 3,500 kgs

**EQUIP**MAX  
EQUIPMENTS . PARTS . SERVICE

# Reliability

**10%**

## Steering System

The hydraulic steering system reduces the loss of hydraulic and improves energy efficiency.

**25%**

## Lifting & Driving System

The unique hydraulic technology increases lifting speed 25% and improves the driving speed.



**Excellent hydraulic system shows great performance in all aspects below.**

- Uses a load-sensing flow control valve for steering to reduce horsepower loss and heat buildup.
- The main hydraulic valve incorporates adjustable flow controls for tilt and auxiliary functions.
- Allows for easy addition of extra functions and simplifies service.
- Controlled lowering speed independent of load speed.



## Rugged Engine and Optimal Performance



Reaches

EPA Tier IV  
EURO III A

Market approved quality of Yanmar, Mitsubishi, Isuzu original engines ensure incomparable performance, durability and excellent fuel efficiency.



### Heavy Duty One-Piece Truck Frame

Heavy duty one-piece truck frame, with its welded and formed steel plate design, protects it from impact damage and extends truck's lift span.



### New Designed Radiator

The new downsize water room of radiator reduces thickness of water conduits and extends wave length to increase ventilation and air flow rates.



### Multifunctional Dashboard

The newly designed dashboard is installed with larger screen and constant status is noticeable.

Reposition of hydraulic pipelines around the fuel tank and the enhanced cooling system increase ventilation, and make it easier to keep the high temperature of engine and oil in control, even in the harshest working environments.



# Advanced Safety



## Strong Overhead Guard

Exceeding CE or ANSI regulations, the overhead guard offers optimal protection combined with excellent all-around visibility and reduces potential danger.



## Excellent Visibility for Safe Operation

Optimized lift cylinder arrangement provides operator with wider visibility, the panoramic mirror expands the driver's view when backing up.



## Parking Brake

Toggle type parking brake requires less effort from the operator to set.



## Fork Safety Features

When the forks are being lowered, a down-control valve maintains the controlled speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



## OPS Operator Presence Sensor (Optional)

This comprehensive safety system includes a seat-actuated power interrupt with mast-lock, automatically preventing lift and tilt operations if the operator leaves the seat.





# Optimized Ergonomics



## The Latest Anti-Vibration and Shock Absorbing System

The anti-vibration rubber is installed between the guard and truck frame to reduce the source of vibration and noise while driving. This will not only reduce operator's fatigue but will also increase safety.



## Superior Comfort from Suspension Design

The suspension cab and seat design reduces travel vibration by 30%, so the operator feels less fatigue and greater comfort during the operations.



## Steering Adjuster

To achieve a comfortable drive position, the angle of the steering column can easily be adjusted. The steering wheel can be adjusted by a lever on the left-hand side to improve operator's comfort.



## Steering Wheel



## Ergonomically Positioned Pedals

Based on human engineering, the accelerator, brake and inching pedals are optimally positioned for operator's convenience and reduce operator's fatigue.



## Lower Entrance Height

The lower entrance height ensures easy and safe access for the operator. Wide open step offers convenience and safety when entering and exiting truck.



## Fuel Cap

Manufactured from durable, long life materials and made for proper sealing and venting.



## Comfortable Seat

Great comfort is offered to the driver by a suspension seat with weight adjuster.



## Switch and buzzer

Hazard lights switch and reverse buzzer



## Engine Hood

Secure your engine bay and fasten the vehicle hood not to be lifted.

# Fast and Easy Maintenance



### Wide Opening Engine Hood

Easily accessible engine compartment assures fast and efficient maintenance.



### Easy Maintenance Oil Check

The TIM oil level can be checked easily without any disassembly.

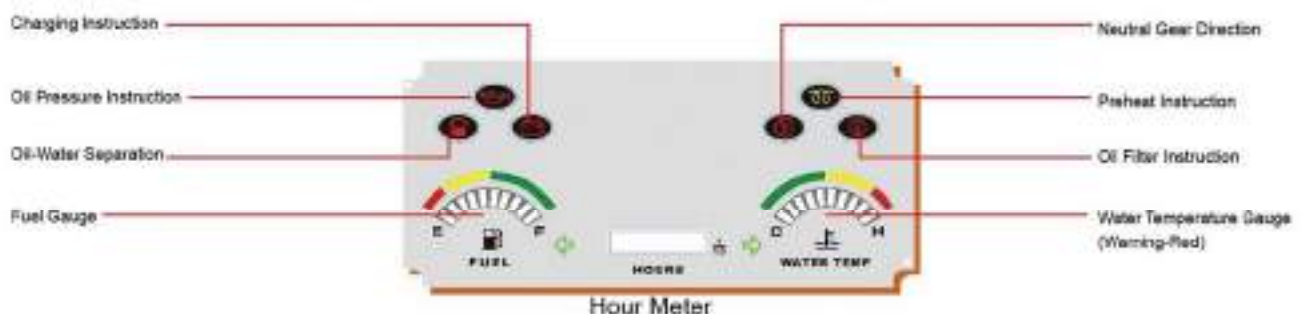


### Easy Change of Air Cleaner

The air filter is readily accessible for cleaning or replacement.

### Quick and Easy Engine Oil Check

The meter and warning indicator panels provide vital and operational data that include.

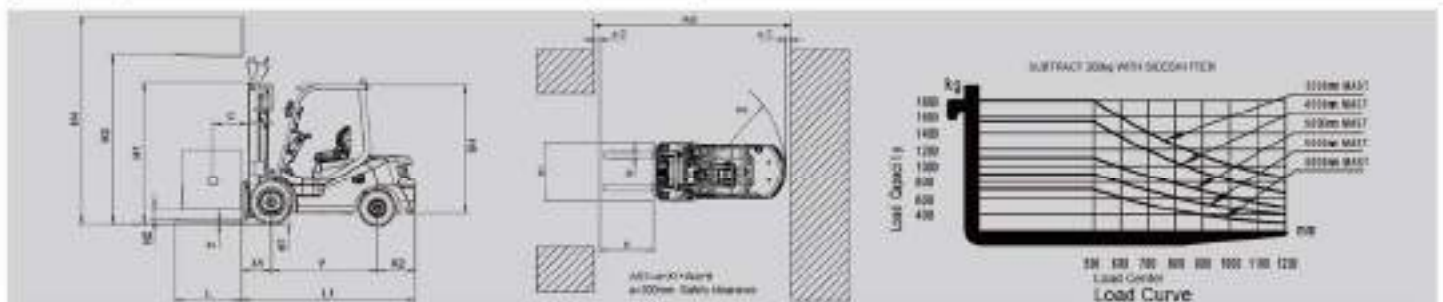




## Diesel Forklift 1.5-1.8T

### MAIN SPECIFICATIONS

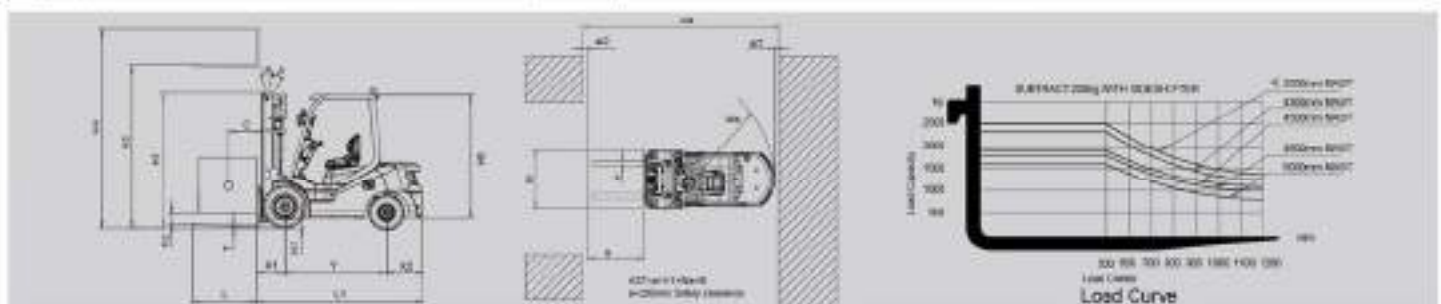
General	1	Model	FD15T	FD18T	FD15T	FD18T	FD15T	FD18T		
	2	Power Type	Diesel							
3	Rated Load Capacity	Q(kg)	1500	1800	1500	1800	1500	1800		
4	Load centre	C(mm)	500							
Characteristic & Dimension	5	Rated Lift Height	H3(mm)						3000	
	6	Free Lift Height	H2(mm)						100	
	7	Fork Size(L x W x T)	mm	920x120x35	1070x120x40	920x120x35	1070x120x40	920x120x35	1070x120x40	
	8	Mast Tilt Angle(F/R, $\alpha^\circ / \beta^\circ$ )	deg	6° / 12°						
	9	Fork Overhang(Wheel Center to Fork Face)	x1(mm)	409						
	10	Rear Overhang	x2(mm)	470						
	11	Ground Clearance(Bottom of Mast)	H7(mm)	110						
	12	Length to Face of Fork(without Fork)	L1(mm)	2285						
	13	Overall Width	B1(mm)	1082						
	14	Mast Lowered Height	H1(mm)	2025						
15	Mast Extended Height(with Backrest)	H4(mm)	4055							
16	Overhead Guard Height	H5(mm)	2160							
17	Turning Radius (Outside)	W(mm)	2100							
18	Min Axle width for pallets	mm	3700							
Performance	19	Travel Speed (No Load)	km/h						14.5	
	20	Lifting Speed (Full Load)	mm/sec						560	
	21	Max Gradeability (Full Load)	%						20	
	22	Wheelbase	Y(mm)						1410	
Weight	23	Total Weight	kg	2860	2990	2860	2990	2860	2990	
	24	Front Axle Weight Distribution (Full Load/No Load)	kg	3815/1200	4120/1170	3815/1200	4120/1170	3815/1200	4120/1170	
	25	Rear Axle Weight Distribution (Full Load/No Load)	kg	545/1660	720/1820	545/1660	720/1820	545/1660	720/1820	
Power & Transmission	26	Battery	V/Ah	12/90						
	27	Engine Model		NC485BPG		C240NKFC-01		4TNE92(EU III & EPAIII)		
	28	Engine Manufacturer		XINCHAI		ISUZU		YANMAR		
	29	Rated Output / r.p.m.	kw	30/2600		34.5/2500		33/2450		
	30	Transmission Type		Powershift (Manual)						
	31	Transmission Stage (FWD/RVS)		1/1(2/2)						
	32	Operating pressure(For Attachments)	Mpa	14.5						



## Diesel Forklift 2.0-2.5T

### MAIN SPECIFICATIONS

1 Model		FD20T	FD25T	FD20T	FD25T	FD20T	FD25T		
General	2 Power Type	Diesel							
	3 Rated Load Capacity	Q(kg)	2000	2500	2000	2500	2000	2500	
	4 Load centre	C(mm)	500						
Characteristic & Dimension	5 Rated Lift Height	H3(mm)	3000						
	6 Free Lift Height	H2(mm)	100						
	7 Fork Size(L x W x T)	mm	1070x120x40						
	8 Mast Tilt Angle(F/R, $\alpha^\circ / \beta^\circ$ )	deg	6° / 12°						
	9 Fork Overhang(Wheel Center to Fork Face)	x1(mm)	479						
	10 Rear Overhang	x2(mm)	520						
	11 Ground Clearance(Bottom of Mast)	H7(mm)	130						
	12 Length to Face of Fork(without Fork)	L1(mm)	2660						
	13 Overall Width	B1(mm)	1150						
	14 Mast Lowered Height	H1(mm)	2055						
	15 Mast Extended Height(with Backrest)	H4(mm)	4070						
	16 Overhead Guard Height	H5(mm)	2215						
	17 Turning Radius (Outside)	Wa(mm)	2365						
	Performance	18 Min Aisle width for pallets	As(mm)	4120					
		19 Travel Speed (No Load)	km/h	19					
20 Lifting Speed (Full Load)		mm/sec	490						
21 Max. Gradeability (Full Load)		%	20						
22 Wheelbase		Y(mm)	1650						
Weight	23 Total Weight	kg	3385	3605	3385	3605	3385	3605	
	24 Front Axle Weight Distribution (Full Load/No Load)	kg	4846/1354	5494/1442	4846/1354	5494/1442	4846/1354	5494/1442	
	25 Rear Axle Weight Distribution (Full Load/No Load)	kg	536/2031	610/2163	536/2031	610/2163	536/2031	610/2163	
Power & Transmission	26 Battery	V/Ah	12/90						
	27 Engine Model		C490BPG-37(EU III)		C240NKFC-01(EU III)		4TNE92(EU III & EPA III)		
	28 Engine Manufacturer		XINCHAI		ISUZU		YANMAR		
	29 Rated Output / r.p.m.	kw	36.8/2650		34.5/2500		33/2450		
	30 Transmission Type		Powershift (Manual)						
	31 Transmission Stage (FWD/RVS)		1/1(2/2)						
	32 Operating pressure(For Attachments)	Mpa	17.5						



## Diesel Forklift 3.0-3.5T

### MAIN SPECIFICATIONS

General	1	Model		FD30T	FD35T	FD30T	FD35T
	2	Power Type		Diesel			
	3	Rated Load Capacity	Q(kg)	3000	3500	3000	3500
	4	Load centre	C(mm)	500			
Characteristic & Dimension	5	Rated Lift Height	H3(mm)	3000			
	6	Free Lift Height	H2(mm)	100			
	7	Fork Size(L x W x T)	mm	1070x125x45			
	8	Mast Tilt Angle(F/R, $\alpha^\circ / \beta^\circ$ )	deg	8° / 12°			
	9	Fork Overhang(Wheel Center to Fork Face)	x1(mm)	484			
	10	Rear Overhang	x2(mm)	595	635	595	635
	11	Ground Clearance(Bottom of Mast)	H7(mm)	145			
	12	Length to Face of Fork(without Fork)	L1(mm)	2700	2775	2700	2775
	13	Overall Width	B1(mm)	1225			
	14	Mast Lowered Height	H1(mm)	2070			
	15	Mast Extended Height(with Backrest)	H4(mm)	4070			
	16	Overhead Guard Height	H5(mm)	2235			
	17	Turning Radius (Outside)	Wa(mm)	2425	2500	2425	2500
	18	Min Aisle width for pallets	Aa2(mm)	4180	4255	4180	4255
Performance	19	Travel Speed (No Load)	km/h	19			
	20	Lifting Speed (Full Load)	mm/sec	410	380	410	380
	21	Max. Gradeability (Full Load)	%	20			
	22	Wheelbase	Y(mm)	1700			
Weight	23	Total Weight	kg	4460	4775	4460	4775
	24	Front Axle Weight Distribution (Full Load/No Load)	kg	6714/1784	6997/1910	6714/1784	6997/1910
	25	Rear Axle Weight Distribution (Full Load/No Load)	kg	746/2676	777/2865	746/2676	777/2865
Power & Transmission	26	Battery	V/Ah	12/90			
	27	Engine Model		C240NKFC-01(Eu III)		C4906PG-37(Eu III)	
	28	Engine Manufacturer		ISUZU		XINCHAI	
	29	Rated Output / r.p.m.	kw	34.5/3500		36.8/2650	
	30	Transmission Type		Powershift (Manual)			
	31	Operating Pressure(For Attachments)	Mpa	17.5			





## 1.5-1.8 TON MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Min Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)				Free Lift (mm)		Til Angle (Single)	Til Angle (Double)	Total Weight (kg)	
					Landed	Lifted		Without Backrest	With Backrest					
			1.5T	1.8T		Without Backrest	With Backrest			1.5T/1.8T	1.8T/1.5T			
Wide View Mast	M100	3000	1500	1800	325	375	400	300	300	9.1		280	300	
	M110	3800	1500	1800	375	425	450	300	300	9.1		310	300	
	M120	3000	1500	1800	375	425	450	300	300	9.1		305	315	
	M130	4000	1600	1900	425	475	500	300	300	6.4	9.1	295	305	
	M140	5000	1700	2000	475	525	550	300	300	6.4	9.1	290	300	
	M150	4000	1700	2000	475	525	550	300	300	6.4	9.1	305	305	
	M160	5000	1800	2100	525	575	600	300	300	6.4	9.1	300	300	
	M170	6000	1900	2200	575	625	650	300	300	6.4	9.1	305	305	
	M180	7000	2000	2300	625	675	700	300	300	6.4	9.1	310	310	
	M190	8000	2100	2400	675	725	750	300	300	6.4	9.1	315	315	
2-Stage Full Free Mast	F1200	3000	1500	1800	325	375	400	300	300	9.1		280	300	
	F1300	3800	1500	1800	375	425	450	300	300	9.1		285	300	
	F1400	4000	1600	1900	425	475	500	300	300	6.4	9.1	290	300	
	F1500	5000	1700	2000	475	525	550	300	300	6.4	9.1	295	300	
Wide View Mast	W1400	4000	1600	1900	425	475	500	300	300	6.4	9.1	290	300	
	W1500	5000	1700	2000	475	525	550	300	300	6.4	9.1	295	300	
	W1600	6000	1800	2100	525	575	600	300	300	6.4	9.1	300	300	
	W1700	7000	1900	2200	575	625	650	300	300	6.4	9.1	305	305	
3-Stage Full Free Mast	F1600	4000	1600	1900	425	475	500	300	300	6.4	9.1	290	300	
	F1700	5000	1700	2000	475	525	550	300	300	6.4	9.1	295	300	
	F1800	6000	1800	2100	525	575	600	300	300	6.4	9.1	300	300	
	F1900	7000	1900	2200	575	625	650	300	300	6.4	9.1	305	305	

Note: With separated side shifter, load capacity subtract 100kg; with integrated side shifter, load capacity subtract 60kg.

## 2.0-2.5 TON MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Min Fork Height (mm)	Load Capacity (kg)				Overall Height (mm)				Free Lift (mm)		Til Angle (Single)	Til Angle (Double)	Total Weight (kg)	
			2.0T		2.5T		Landed	Lifted		Without Backrest	With Backrest					
			2.0T	2.0T(2x)	2.5T	2.5T(2x)		Without Backrest	With Backrest			2.0T/2.5T				
Wide View Mast	M200	3000	2000	2500	380	430	450	300	300	9.1		330	350			
	M210	3800	2000	2500	430	480	500	300	300	9.1		340	350			
	M220	3000	2000	2500	430	480	500	300	300	9.1		345	355			
	M230	4000	2100	2600	480	530	550	300	300	6.4	9.1	340	350			
	M240	5000	2200	2700	530	580	600	300	300	6.4	9.1	335	345			
	M250	4000	2200	2700	530	580	600	300	300	6.4	9.1	350	355			
	M260	5000	2300	2800	580	630	650	300	300	6.4	9.1	345	355			
	M270	6000	2400	2900	630	680	700	300	300	6.4	9.1	340	350			
	M280	7000	2500	3000	680	730	750	300	300	6.4	9.1	345	355			
	M290	8000	2600	3100	730	780	800	300	300	6.4	9.1	350	355			
2-Stage Full Free Mast	F1200	3000	2000	2500	380	430	450	300	300	9.1		330	350			
	F1300	3800	2000	2500	430	480	500	300	300	9.1		340	350			
	F1400	4000	2100	2600	480	530	550	300	300	6.4	9.1	345	355			
	F1500	5000	2200	2700	530	580	600	300	300	6.4	9.1	350	355			
Wide View Mast	W1400	4000	2100	2600	480	530	550	300	300	6.4	9.1	340	350			
	W1500	5000	2200	2700	530	580	600	300	300	6.4	9.1	345	355			
	W1600	6000	2300	2800	580	630	650	300	300	6.4	9.1	340	350			
	W1700	7000	2400	2900	630	680	700	300	300	6.4	9.1	345	355			
3-Stage Full Free Mast	F1600	4000	2100	2600	480	530	550	300	300	6.4	9.1	340	350			
	F1700	5000	2200	2700	530	580	600	300	300	6.4	9.1	345	355			
	F1800	6000	2300	2800	580	630	650	300	300	6.4	9.1	340	350			
	F1900	7000	2400	2900	630	680	700	300	300	6.4	9.1	345	355			

Note: 1. With separated side shifter, load capacity subtract 200 kg; with integrated side shifter, load capacity subtract 50 kg. 2. \* (Asterisk) is for double front wheels model.

## 3.0-3.5 TON MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Min Fork Height (mm)	Load Capacity (kg)				Overall Height (mm)				Free Lift (mm)		Til Angle (Single)	Til Angle (Double)	Total Weight (kg)	
			3.0T		3.5T		Landed	Lifted		Without Backrest	With Backrest					
			3.0T	3.0T(2x)	3.5T	3.5T(2x)		Without Backrest	With Backrest			3.0T/3.5T				
Wide View Mast	M300	3000	3000	3500	500	550	570	400	400	9.1		480	510			
	M310	3800	3000	3500	550	600	620	400	400	9.1		490	500			
	M320	3000	3000	3500	550	600	620	400	400	9.1		495	505			
	M330	4000	3100	3600	600	650	670	400	400	6.4	9.1	490	500			
	M340	5000	3200	3700	650	700	720	400	400	6.4	9.1	485	495			
	M350	4000	3200	3700	650	700	720	400	400	6.4	9.1	500	510			
	M360	5000	3300	3800	700	750	770	400	400	6.4	9.1	495	505			
	M370	6000	3400	3900	750	800	820	400	400	6.4	9.1	490	500			
	M380	7000	3500	4000	800	850	870	400	400	6.4	9.1	495	505			
	M390	8000	3600	4100	850	900	920	400	400	6.4	9.1	500	510			
2-Stage Full Free Mast	F1200	3000	3000	3500	500	550	570	400	400	9.1		480	510			
	F1300	3800	3000	3500	550	600	620	400	400	9.1		490	500			
	F1400	4000	3100	3600	600	650	670	400	400	6.4	9.1	495	505			
	F1500	5000	3200	3700	650	700	720	400	400	6.4	9.1	500	510			
Wide View Mast	W1400	4000	3100	3600	600	650	670	400	400	6.4	9.1	490	500			
	W1500	5000	3200	3700	650	700	720	400	400	6.4	9.1	495	505			
	W1600	6000	3300	3800	700	750	770	400	400	6.4	9.1	490	500			
	W1700	7000	3400	3900	750	800	820	400	400	6.4	9.1	495	505			
3-Stage Full Free Mast	F1600	4000	3100	3600	600	650	670	400	400	6.4	9.1	490	500			
	F1700	5000	3200	3700	650	700	720	400	400	6.4	9.1	495	505			
	F1800	6000	3300	3800	700	750	770	400	400	6.4	9.1	490	500			
	F1900	7000	3400	3900	750	800	820	400	400	6.4	9.1	495	505			

Note: 1. With separated side shifter, load capacity subtract 200 kg; with integrated side shifter, load capacity subtract 50 kg. 2. \* (Asterisk) is for double front wheels model.

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