

CONFIGURATION

Overhead Guard	Combination Instrument
Top Rain Shelter	Working Hour Meter
Pedal Rubber	Oil Content Meter
Semi-suspension Seat	Water-thermometer
Automatic Shift	Charging Indicator
Electro-hydraulic Reversing	Neutral Position Switch
Wide Field Mast (2 Stage)	Oil Pressure Warning
Backrest	Electric Horn
Standard Forks	LED Signal Lamp
Adjustable Steering Column	Reversing Buzzer
Lifting and Tilting Joysticks	Key Shutoff Device
Two Piece Multiplex Valve	Push-button Parking brake
Full-hydraulic Power Steering	Torque Converter Oil Gauge
Tilting Cylinder Latching Valve	Traction Pin
Transmission Oil Filter	Tool Box
Power Master Switch	

OPTIONAL

Solid Tires	Driving OPS
Cabin	Full Set OPS (including drive and lift)
Working Warning Light	Torque Converter Oil Temperature Alarm
Suspension Seat	Full Set LED Lamps
Warm-air Blower	Reversing Voice Horn
Front Windscreen	Overspeed Alarm, 10km/h
Rear Working Lamp	Electric Fan
High Level Exhaust	Sound-Hight Alarm
Double Air Filter	Lengthen Fork Jacket
Oil Bath Air Filter	Tilting Cylinder Sleeve
Fire Extinguishing Muffler	Steering Cylinder Sleeve
Widen Fork Frame	Custom Colors
Multiple Work Attachments	

PRODUCT FEATURES

Good Heat Dissipation Cooling system is reasonable optimized, which improves cooling performance significantly. Thus improving reliability and durability of key components such as gearbox and engine.
Lowering Energy Consumption Optimized design of load sensing hydraulic system reduces vehicle fuel consumption Effectively.
Operating Comfort Adopted interactive ergonomic design to improve operating comfort. Equipped with wide field of view mast to improve driver's field of view.
Intelligent Reversing Electro-hydraulic Reversing System. Easy to operate and labor-saving. Upgrade new intelligent shift system, prevent the second gear starting, ensure reliability of gearbox.
Convenient Maintenance Interior space of car body is more spacious Parts Positions are more reasonable. Opening angle of hood is increased to 80°.
High Reliability Strength of the core structural parts of car body, mast and hood has been enhanced greatly to make whole vehicle more solid.

The following blank can be used for notes or comments.

LOVOL

FF50/60/70D

BALANCEWEIGHT TYPE FORKLIFT TRUCK WITH ENGINE

Efficiency Rules the Future



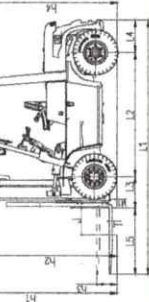
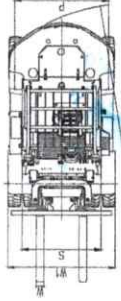
	FF50D	FF60D	FF70D
■ Rated Capacity (kg)	5000	6000	7000
■ Load Center (mm)	600	600	600
■ Power Type	Diesel	Diesel	Diesel

OVERALL SPECIFICATIONS

Type	No.	Manufacturer	Item	Code	Unit	Data
Identification	1.01	Manufacturer				LOVOL
	1.02	Model				FF50D FF70D
	1.03	Power type				Diesel
	1.04	Rated capacity		Q	kg	5000 6000 7000
	1.05	Load center		J	mm	600
Dimensions	2.01	STD Max height (with backrest)			mm	4430
	2.02	STD Max lifting height		h1	mm	3000
	2.03	Overhead guard height		h4	mm	2450
	2.04	Overall length (with fork)		L1	mm	4715
	2.05	Wheelbase		L2	mm	2300
	2.06	Front overhang		L3	mm	594
	2.07	Rear overhang		L4	mm	675
	2.08	Min. ground clearance (Frame/Mast)		m1/m2	mm	230/200
	2.09	Overall width		W1	mm	1995
	2.10	Adjusting range of fork (outside)			mm	300-1805
	2.11	STD Fork size (L5W*H)			mm	1220*150*60
	2.12	Front wheel tread		S	mm	1470
	2.13	Rear wheel tread		P	mm	1700
	2.14	Min. turning radius		R1	mm	3240
	2.15	Min aisle width for pallet 1000*1200, crossways			mm	5255
Tires	2.16	Min aisle width for pallet 800*1200, lengthways			mm	5315
	3.01	Wheels number, front/rear (X=driven wheels)				X=4/2
	3.02	Tires type				Pneumatic
	3.03	Tires size, front				8.25-15-14PR
	3.04	Tires size, rear				8.25-15-14PR
Other Details	4.01	Max. traveling speed, loaded/unloaded			km/h	24/29
	4.02	Max. lifting speed, loaded/unloaded			mm/s	510/530
	4.03	Lowering speed, loaded/unloaded			mm/s	400/390
	4.04	Max. traction, loaded			KN	63
	4.05	Max. gradient, loaded/unloaded			%	38/20
Other Details	4.06	STD operating weight (with oil & water)			kg	8320
	4.07	Axles loading, front/rear (loaded)			kg	11850/1470
	4.08	Axles loading, front/rear (unloaded)			kg	4250/4170
	4.09	Service brake				Power brake-pedal
	4.10	Parking brake				Mechanical-hand brake lever
Engine Optional	4.11	Drive type				Automatic
	4.12	Number of gear (front/rear)				2/2
	4.13	Fuel tank capacity			L	140
	4.14	Battery voltage/capacity			V/Ah	2*12/90

ENGINE OPTIONAL

Engine Model	Manufacturer	Rated Power	Max. Torque (N.m/min)	Bore/Cylinder Number/Displacement	Fuel Consumption
C46110125GSLC20	CHINA	83kW/2000rpm	450/1400-1500	110/87.12L	230g/kW.h
CA4DF2-13G33U1G10	CHINA	85kW/2200rpm	450/1300-1700	119/44.75L	220g/kW.h
WP4.10123EE02	WEICHAI	85kW/2200rpm	480/1400-1600	105/44.09L	230g/kW.h
A-68G10C-02	ISUZU	82.4kW/2000rpm	416/1600	105.0/6.09L	232g/kW.h
S6S-31T	MITSUBISHI	83.9kW/2300rpm	285/1700	94/6.4.99L	255g/kW.h



MAST SPECIFICATIONS

Mast Model	h1 Max Lifting Height (mm)	Load Capacity (J=600mm) (kg)		h2 Lowered Mast Height (mm)	h3 Free Lifting Height, without backrest (mm)		Mast tilt α/β (°)
		FF50D	FF60D		FF50-30D	FF70D	
M200	2000	5000	6000	2000	206	211	10/12
M250	2500	5000	6000	2250	206	211	10/12
M270	2700	5000	6000	2350	206	211	10/12
M300	3000	5000	6000	2500	206	211	10/12
M330	3300	5000	6000	2650	206	211	10/12
M350	3500	5000	6000	2750	206	211	10/12
M375	3750	5000	6000	2875	206	211	10/12
M400	4000	5000	6000	3050	206	211	10/12
M425	4250	5000	6000	3175	206	211	10/12
M450	4500	5000	6000	3300	206	211	10/12
M475	4750	5000	6000	3425	206	211	6/6
M500	5000	5000	6000	3550	206	211	6/6
M550	5500	4750	5700	3850	206	211	6/6
M500	6000	4400	5400	4100	206	211	6/6

2 Stage Free Mast-Super Free Lifting Height

Mast Model	h1 Max Lifting Height (mm)	Load Capacity (J=600mm) (kg)		h2 Lowered Mast Height (mm)	h3 Free Lifting Height, without backrest (mm)		Mast tilt α/β (°)
		FF50D	FF70D		FF50-60D	FF70D	
ZM200	2000	5000	6000	1960	980	985	10/12
ZM225	2250	5000	6000	2085	1105	1110	10/12
ZM250	2500	5000	6000	2210	1230	1235	10/12
ZM270	2700	5000	6000	2310	1330	1335	10/12
ZM300	3000	5000	6000	2460	1480	1485	10/12
ZM330	3300	5000	6000	2610	1630	1635	10/12
ZM350	3500	5000	6000	2710	1730	1735	10/12
ZM370	3700	5000	6000	2810	1830	1835	10/12
ZM400	4000	5000	6000	3010	2030	2035	10/12
ZM425	4250	5000	6000	3135	2155	2160	10/12
ZM450	4500	5000	6000	3260	2280	2285	10/12

Note: With backrest, free lifting height reduces 402mm.

3 Stage Free Mast-Super Free Lifting Height

Mast Model	h1 Max Lifting Height (mm)	Load Capacity (J=600mm) (kg)		h2 Lowered Mast Height (mm)	h3 Free Lifting Height, without backrest (mm)		Mast tilt α/β (°)
		FF50D	FF70D		FF50-80D	FF70D	
ZSM320	3200	4800	5900	2205	1247	1252	10/12
ZSM360	3600	4500	5600	2335	1377	1382	10/12
ZSM400	4000	4500	5600	2465	1507	1512	10/12
ZSM435	4350	4500	5600	2585	1627	1632	6/6
ZSM450	4500	4500	5600	2635	1677	1682	6/6
ZSM480	4800	4500	5600	2735	1777	1782	6/6
ZSM500	5000	4500	5600	2805	1852	1857	6/6
ZSM540	5400	4200	5300	2990	2032	2037	6/6
ZSM600	6000	4000	5000	3190	2232	2237	6/6
ZSM630	6300	3800	4900	3290	2332	2337	6/6
ZSM650	6500	3600	4300	3355	2397	2402	6/6

Note: With backrest, free lifting height reduces 424mm.