

CONFIGURATION

Hydraulic Gearbox	Tilting Cylinder Latching Valve
Mechanical Reversing	Combination Instrument
Overhead Guard	Working Hour Meter
Top Rain Shelter	Oil Content Meter
Pedal Rubber	Water-thermometer
Semi-suspension Seat	Charging Indicator
Wide Field Mast (2 Stage)	Neutral Position Switch
Fork Carriage	Oil Pressure Warning
Backrest	Electric Horn
Standard Forks	LED Signal Lamp
Adjustable Steering Column	Reversing Buzzer
Lifting and Tilting Joysticks	Backup Mirror
Two Piece Multiplex Valve	Traction Pin
Full-hydraulic Power Steering	Tool Box

OPTIONAL

Mechanical Gearbox	Fire Extinguishing Muffler
Electric Reversing (3/3.5T)	Full Set LED Lamps
Solid Tires	Reversing Voice Horn
Cabin	Electric Fan
Working Warning Light	Sound-light Alarm
Suspension Seat	Rear Working Lamp
Cold A/C (with cabin)	Widen Fork Frame
Warm-air Blower (with cabin)	Lengthen Fork Jacket
Front Windscreen	Tilting Cylinder Sleeve
High Level Exhaust	Steering Cylinder Sleeve
Double Air Filter	Custom Colors
Oil Bath Air Filter	Multiple Work Attachments

PRODUCT FEATURES

High Stability New dynamic counterweight design technology makes the center of gravity move backward, which improves load capacity and safety of loaded driving greatly.
Energy Efficiency Optimized design of cooling system and air duct. Cyclone air filter with large flow.
Operating Comfort Adopted interactive ergonomic design to improve operating comfort. Equipped with wide field of view mast to improve driver's field of view.
Well-adapted Steering wheel can be adjusted at a large Angle to meet different driving needs.
Convenient Maintenance Interior space of car body is more spacious Parts Positions are more reasonable. Maintainability of machine is better.
Safety and Reliable Overall design frame and overhead guard with integral welded, Reduce vibration of whole machine and enhance frame strength.

FF 15D



FF 20/25/30/35/38D



The following blank can be used for notes or comments.

LOVOL

FF15/20/25/30/35/38D
BALANCEWEIGHT TYPE FORKLIFT TRUCK WITH ENGINE
Efficiency Rules the Future



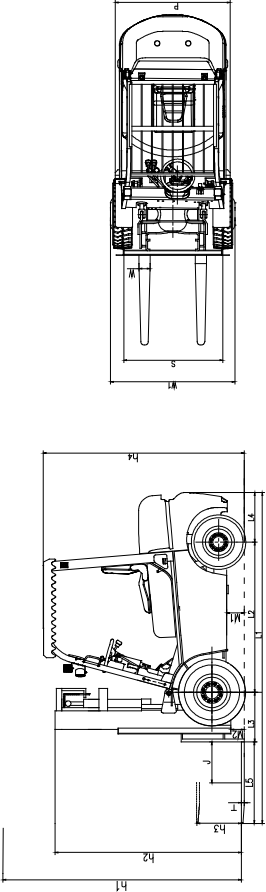
	FF15D	FF20D	FF25D	FF30D	FF35D	FF38D
Rated Capacity (kg)	1500	2000	2500	3000	3500	3800
Load Center (mm)	500	500	500	500	500	500
Power Type	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel

OVERALL SPECIFICATIONS

Type	No.	Item	Code	Unit	Data
Identification	1.01	Manufacturer			LOVOL
	1.02	Model			FF38D FF35D FF38D FF38D
	1.03	Power type			Diesel
	1.04	Rated capacity	Q	kg	1500 2000 2500 3000 3500 3800
	1.05	Load center	J	mm	500 500 500 500 500 500
	2.01	STD Max height (with backrest)		mm	3906 3935 4272 4272 4210 4210
Dimensions	2.02	STD Max lifting height	h1	mm	3000 3000 3000 3000 3000 3000
	2.03	Overhead guard height	h4	mm	2080 2110 2110 2130 2130 2140
	2.04	Overall length (with fork)	L1	mm	3180 3590 3650 3850 3900 3995
	2.05	Wheelbase	L2	mm	1400 1650 1760 1760 1760 1900
	2.06	Front overhang	L3	mm	410 460 460 480 496 496
	2.07	Rear overhang	L4	mm	425 410 470 540 570 530
	2.08	Min.ground clearance (Frame/Mast)	m1/m2	mm	100/105 150/110 150/110 160/130 160/130 180/150
	2.09	Overall width	W1	mm	1090 1160 1160 1240 1240 1290
	2.10	Adjusting range of fork (outside)		mm	226-670 240-1040 240-1040 255-1095 255-1095 300-1160
	2.11	STD Fork size (L5*W*H)		mm	920×100×35 1070×120×40 1070×122×45 1070×122×50 1070×150×50
Tires	2.12	Front wheel tread	S	mm	890 970 970 1000 1000 1040
	2.13	Rear wheel tread	P	mm	870 980 980 980 980 985
	2.14	Min.turning radius	R1	mm	1950 2250 2300 2400 2420 2620
	2.15	Min aisle width for pallet 1000×1200 crossways		mm	3630 3900 3970 4215 4280 4335
	2.16	Min aisle width for pallet 800×1200 lengthways		mm	3760 4150 4160 4350 4390 4515
	3.01	Wheels number, front/rear (X=driven wheels)			X=2/2
	3.02	Tires type			Pneumatic
	3.03	Tires size, front			6.5-10×10PR 7.00-12-12PR 28×9-15-14PR 250-15-16PR
	3.04	Tires size, rear			5.00-8-10PR 6.00-9-10PR 6.5-10-10PR 6.5-10-10PR
	4.01	Max.traveling speed, loaded/unloaded		km/h	14/15 18/20 18.5/20 18.5/20
Other Details	4.02	Max.lifting speed, loaded/unloaded		mm/s	480/500 530/550 530/550 485/505 380/410 380/400
	4.03	Lowering speed, loaded/unloaded		mm/s	Loaded<600/Unloaded>300
	4.04	Max.gradient, loaded/unloaded		%	20 20 20 20 20 20
	4.05	STD operating weight (with oil & water)		kg	2680 3420 3770 4220 4650 5000
	4.06	Axles loading, front/rear (loaded)		kg	3760/4420 4725/525 5643/627 6620/650 7265/685 7920/880
	4.07	Axles loading, front/rear (unloaded)		kg	1072/1608 1300/1950 1508/2282 1724/2546 1760/2870 2001/2999
	4.08	Service brake			Mechanical+hand brake lever
	4.09	Parking brake			Mechanical+hand brake lever
	4.10	Drne type			Hydraulic gearbox with mechanical reversing
	4.11	Fuel tank capacity		L	41 50 50 60 60 80
	4.12	Battery voltage/capacity		V/Ah	12/60 12/60 12/80

ENGINE OPTIONAL

Engine Model	Emission	Manufacturer	Rated Power	Max. Torque(N.m/rpm)	Bore/Cylinders Number/Displacement	Fuel Consumption	Applicable
NC495BPG	CHN II	XNCHAI	30kW/2600rpm	131/1800	85mm/4/2.27L	235g/kW.h	1.5T
B02-482	CHN III	QUANCHAI	31kW/2600rpm	131/1700-900	85mm/4/2.3L	235g/kW.h	1.5T
4N23G31-002	CHN III	XNCHAI	30kW/2600rpm	131/1700-900	88mm/4/2.27L	245g/kW.h	1.5T
C240	Euro III/A	ISUZU	35.4kW/2500rpm	139.2/1800	86mm/4/2.369L	292g/kW.h	1.5T
C490BPG-47	Euro III/A	XNCHAI	36.8(36.7)kW/2650rpm	156/1800	90mm/4/2.67L	230g/kW.h	2-3T
C490BPG-225	CHN II	XNCHAI	40(36.7)kW/2400rpm	158/1800	90mm/4/2.67L	230g/kW.h	2-3.8T
A498BT1-48	Euro III/A	XNCHAI	36.8(36.7)kW/2400rpm	180/1500-1800	98mm/4/3.168L	230g/kW.h	3.8T
4D30G31	CHN III	XNCHAI	36.8kW/2500rpm	174/1800-2000	95mm/4/2.97L	230g/kW.h	3.8T



MAST SPECIFICATIONS

2 Stage Standard Mast-Super Wide Field

Mast Model	h1 Max. Lifting Height(mm)	Load Capacity (j=500mm) (kg)						h2 Lowered Mast Height (mm)						h3 Free Lifting Height, without backrest (mm)						Mast lift off (°)	
		1.5T	2T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3.8T	3.8T
M200	2000	1500	2000	2500	3000	3500	3800	1487	1900	1555	1670	1690	105	150	145	150	150	6/12	6/12	6/12	6/12
M225	2250	1500	2000	2500	3000	3500	3800	1612	1900	1555	1670	1690	105	150	145	150	150	6/12	6/12	6/12	6/12
M250	2500	1500	2000	2500	3000	3500	3800	1737	1750	1805	1920	1940	105	150	145	150	150	6/12	6/12	6/12	6/12
M275	2750	1500	2000	2500	3000	3500	3800	1862	1862	1905	2020	2040	105	150	145	150	150	6/12	6/12	6/12	6/12
M300	3000	1500	2000	2500	3000	3500	3800	1987	2000	2055	2170	2190	105	150	145	150	150	6/12	6/12	6/12	6/12
M350	3500	1500	2000	2500	3000	3500	3800	2137	2150	2205	2320	2340	105	150	145	150	150	6/12	6/12	6/12	6/12
M375	3750	1500	2000	2500	3000	3500	3800	2282	2282	2325	2440	2460	105	150	145	150	150	6/12	6/12	6/12	6/12
M400	4000	1500	2000	2500	3000	3500	3800	2432	2432	2475	2590	2610	105	150	145	150	150	6/12	6/12	6/12	6/12
M425	4250	1500	2000	2500	3000	3500	3800	2582	2582	2625	2740	2760	105	150	145	150	150	6/12	6/12	6/12	6/12
M450	4500	1500	2000	2500	3000	3500	3800	2732	2732	2775	2890	2910	105	150	145	150	150	6/12	6/12	6/12	6/12
M475	4750	1500	2000	2500	3000	3500	3800	2882	2882	2925	2940	2960	105	150	145	150	150	6/12	6/12	6/12	6/12
M500	5000	1500	2000	2500	3000	3500	3800	3032	3032	3075	3190	3210	105	150	145	150	150	6/12	6/12	6/12	6/12
M550	5500	1500	2000	2500	3000	3500	3800	3332	3332	3375	3490	3510	105	150	145	150	150	6/12	6/12	6/12	6/12
M600	6000	1500	2000	2500	3000	3500	3800	3632	3632	3675	3790	3810	105	150	145	150	150	6/12	6/12	6/12	6/12

Note:"mm" means capacity of double front wheels.

2 Stage Free Mast-Super Free Lifting Height

Mast Model	h1 Max. Lifting Height(mm)	Load Capacity (j=500mm) (kg)						h2 Lowered Mast Height (mm)						h3 Free Lifting Height, without backrest (mm)						Mast lift off (°)	
		1.5T	2T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3.8T	3.8T
M200	2000	1500	2000	2500	3000	3500	3800	1596	1596	1596	1690	1710	1037	1095	830	875	875	6/12	6/12	6/12	6/12
M250	2500	1500	2000	2500	3000	3500	3800	1846	1846	1846	1940	1960	1287	1320	1080	1126	1126	6/12	6/12	6/12	6/12
M275	2750	1500	2000	2500	3000	3500	3800	1870	1870	1870	1960	1980	1312	1345	1105	1151	1151	6/12	6/12	6/12	6/12
M300	3000	1500	2000	2500	3000	3500	3800	1900	1900	1900	1990	2010	1342	1375	1135	1181	1181	6/12	6/12	6/12	6/12
M350	3500	1500	2000	2500	3000	3500	3800	2150	2150	2150	2240	2260	1590	1623	1385	1431	1431	6/12	6/12	6/12	6/12
M375	3750	1500	2000	2500	3000	3500	3800	2280	2280	2280	2370	2390	1720	1753	1515	1561	1561	6/12	6/12	6/12	6/12
M400	4000	1500	2000	2500	3000	3500	3800	2410	2410	2410	2500	2520	1850	1883	1645	1691	1691	6/12	6/12	6/12	6/12
M450	4500	1500	2000	2500	3000	3500	3800	2540	2540	2540	2630	2650	1980	2013	1775	1821	1821	6/12	6/12	6/12	6/12
M500	5000	1500	2000	2500	3000	3500	3800	2840	2840	2840	2930	2950	2280	2313	2005	2051	2051	6/12	6/12	6/12	6/12
M550	5500	1500	2000	2500	3000	3500	3800	3140	3140	3140	3230	3250	2580	2613	2305	2351	2351	6/12	6/12	6/12	6/12
M600	6000	1500	2000	2500	3000	3500	3800	3440	3440	3440	3530	3550	2880	2913	2605	2651	2651	6/12	6/12	6/12	6/12

Note:"mm" means capacity of double front wheels. 1.5T free lifting height reduces 340mm with backrest, 2.5T free lifting height reduces 450mm with backrest, 3T free lifting height reduces 520mm with backrest, 3.5T free lifting height reduces 46mm with backrest, 3.8T free lifting height reduces 45mm with backrest.

3 Stage Free Mast-Super Free Lifting Height

Mast Model	h1 Max. Lifting Height (mm)	Load Capacity (j=500mm) (kg)						h2 Lowered Mast Height (mm)						h3 Free Lifting Height, without backrest (mm)						Mast lift off (°)	
		1.5T	2T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T	1.5T	2.5T	3T	3.5T	3.8T				
ZSN3600	3600		1500	2400	3000	3300	3700/3800		1805	1870	1880		1240	1240	1075	1080		2+2.8T			
ZSN3800	4000	1400	1800/1900	2300	2800	3300	3500/3700	1920	1930	2005	2005		1362	1365	1210	1215	1215	6/12			
ZSN3405	4350		1300	1750/1900	2200/2400			2055	2055				1407	1480				6/6			
ZSN3450	4500	1200	1600/1800	2000/2200	2500/2700	2800/3000	3100/3550	2095	2118	2170	2195	2195	1537	1553	1375	1380	1380	6/6			
ZSN3470	4700		1300/1700	1800/2100					2183				1618					6/6			
ZSN3480	4800	1100	1250/1700	1700/2000	2300/2750	2800/3150	2195	2205	2270	2270	2350	2350	1637	1640	1440	1450	1450	6/6			
ZSN3600	5000	950	1100/1600	1500/1800	2100/2400	2500/2800	2600/3100	2295	2305	2335	2335	2350	1737	1740	1540	1545	1545	6/6			
ZSN3650	5400	850	900/1300	1200/1600				2420	2430				1882	1885				3/6			
ZSN3650	5500	750	800/1300	1100/1500	1500/2000	2300/2800	2455	2470	2500	2500	2520	2580	1897	1905	1705	1710	1710	3/6			
ZSN3600	6000	450	500/800	800/1300	1300/2000	1650/2550	2545	2655	2720	2720	2740	2807	2039	2025	1930	1930	1930	3/6			
ZSN3650	6500	200	400/800	600/1000	1000/1600	+1800	2835	2870	2910	2910	2910	2970	2277	2305	2115	2120	2120	3/3			
ZSN3650	6500	200	400/800	600/1000	1000/1600	+1800	2835	2870	2910	2910	2910	2970	2277	2305	2115	2120	2120	3/3			