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FD30-38Z
INTERNAL COMBUSTION FORKLIFT

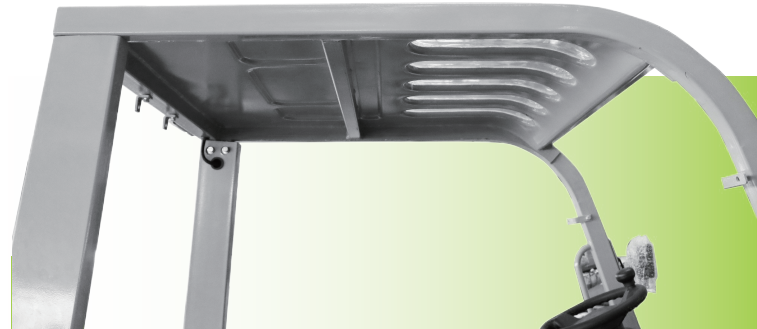


PRODUCT HIGHLIGHTS

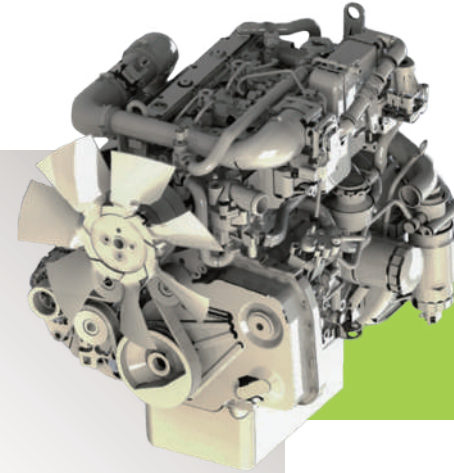
FD30-38Z
ZOOMLION Industrial Vehicles



The FD30~38Z series internal combustion counterbalance forklift is equipped with a reinforced wide-view mast, which improves work efficiency and operational safety while enhancing impact resistance.



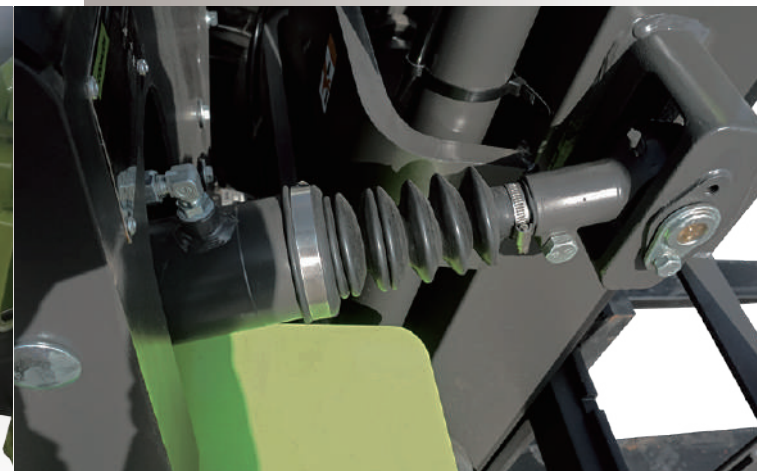
The one-piece overhead guard features a stamped roof with five transparent plastic covers, providing good lighting and rain protection.



The main engine features high torque, high power, and strong performance, meeting various working requirements.



The cast steering axle offers high overall strength and strong deformation resistance, capable of withstanding heavy loads and impacts.



Equipped with tilt cylinder dust covers, effectively extending seal service life and reducing noise.



The cab features a scientific ergonomic design, making the machine lighter and more comfortable to operate. The seat can be freely adjusted in forward/backward direction and backrest angle, the steering wheel tilt is adjustable, and legroom is generous. The compact and convenient shifting mechanism provides quick and easy operation.



MAIN PARAMETERS

Performance Specification

FD30-38Z

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Feature	Manufacturer		ZOOMLION	ZOOMLION	ZOOMLION
	Model		FD30Z	FD35Z	FD38Z
	Power type (electric, diesel, gasoline, LPG, mains power)		Diesel	Diesel	Diesel
	Driving mode (seated, standing)		Seated	Seated	Seated
Weight	Rated load capacity	Q (kg)	3000	3500	3800
	Load center distance	c (mm)	500	500	500
	Front overhang	x (mm)	483	483	483
	Wheelbase	y (mm)	1800	1800	1800
Wheel	Unladen weight	kg	4250	4450	4800
	Tire type		Pneumatic tire / Solid tire	Pneumatic tire / Solid tire	Pneumatic tire / Solid tire
	Front tire size		28×9-15-14PR	28×9-15-14PR	250-15-16PR
	Rear tire size		6.5-10-10PR	6.5-10-10PR	6.5-10-10PR
Size	Number of wheels, front/rear (X = drive wheel)		2X/2	2X/2	2X/2
	Front track	b10 (mm)	1000	1000	1000
	Rear track	b11 (mm)	970	970	970
	Mast tilt angle, forward/rearward	α/β (°)	6/12	6/12	6/12
Performance	Mast height, retracted	h1 (mm)	2065	2155	2155
	Free lift height	h2 (mm)	165	160	160
	Lift height	h3 (mm)	3000	3000	3000
	Maximum mast height during operation	h4 (mm)	4130	4130	4130
	Overhead guard (cab) height	h6 (mm)	2170	2170	2170
	Seat height above ground	h7 (mm)	1175	1175	1175
	Tow pin height	h10 (mm)	320	320	320
	Overall length (with forks)	l1 (mm)	3895	3910	3960
	Overall length (without forks)	l2 (mm)	2825	2840	2890
	Overall width	b1/b2 (mm)	1230	1230	1230
	Fork dimensions, thickness × width × length	s/e/l (mm)	45×122×1070	50×122×1070	50×122×1070
	Fork carriage width	b3 (mm)	1100	1100	1100
	Fork carriage ISO 2328 mounting class		3A	3A	3A
	Mast ground clearance	m1 (mm)	120	120	120
	Ground clearance at wheelbase center	m2 (mm)	160	160	160
	Right-angle stacking aisle width, pallet 1000×1200 (1200 across forks)	Ast (mm)	4550	4565	4615
	Right-angle stacking aisle width, pallet 800×1200 (1200 along forks)	Ast (mm)	4680	4695	4745
	Turning radius	Wa (mm)	2600	2600	2650
	Minimum distance from steering centerline to vehicle centerline	b13 (mm)	825	825	825
	Drive speed, laden/unladen	km/h	18/18	18/18	18/18
	Fork lift speed, laden/unladen	mm/s	450/480	450/480	450/480
	Fork lowering speed, laden/unladen	mm/s	400/380	400/380	400/380
	Rated tractive effort, laden/unladen (60 min)	N	18000	18000	18000
	Maximum tractive effort (5 min), laden/unladen	N	27000	27000	27000
	Gradeability, laden/unladen (30 min)	%	20/20	20/20	20/20
	Maximum gradeability (5 min), laden/unladen	%	20/20	20/20	20/20
Others	Service brake		Hydraulic	Hydraulic	Hydraulic
	Control method		Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic
	Attachment operating pressure	Bar	160	160	160
	Attachment oil flow rate	L/min	40	40	40

POWER SYSTEM

Engine (model)		Isuzu C240	Isuzu 4JG2	Xinchai A498	Xinchai C490	Mitsubishi S4S-474
Rated power	kW	34.3/2500	44.9/2450	45/2650	40/2650	35.3/2250
Rated torque and speed	N.m/r.p.m	137.7/1800	184.7/1800~2000	193/1800	162/1800~1900	185/1700
Number of cylinders	Pc	4	4	4	4	4
Bore × stroke	mm	86×102	95.4×107	98×105	90×100	94×120
Displacement	L	2.369	3.059	3.168	2.67	3.331
Fuel tank capacity	L	70	70	70	70	70
Transmission gears / forward-reverse		2/2 (Mechanical)1/1 (Hydraulic)	1/1 (Hydraulic)	2/2 ((Mechanical)1/1 (Hydraulic)	2/2 (Mechanical)1/1 (Hydraulic)	1/1 (Hydraulic)
Working pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Applicable tonnage		3~3.5t	3~3.8t	3~3.5t	3~3.5t	3~3.5t

POWER SYSTEM

Engine (model)		Mitsubishi 3E22YG51	Quanchai V29-50C43 (domestic common rail) Quanchai V29-50C42 (Bosch common rail) Quanchai V29-50V42 (VP pump)	Xinchai 4D29X41 (Bosch) Xinchai 4D29V41 (VP pump)	Quanchai V32-50V42 (VP pump)	Xinchai 4D32X41
Rated power	kW	44.8/2400	36.8/2500	36.8/2400	36.8/2500	36.8/2500
Rated torque and speed	N.m/r.p.m	210/1600~1800	170~180/1800~2000	177/1600~1800	185/1500~1800	210/1400-1600
Number of cylinders	Pc	3	4	4	4	4
Bore × stroke	mm	94×107	93×105	93×105	98×105	98×105
Displacement	L	2.23	2.85	2.85	3.17	3.18
Fuel tank capacity	L	70	70	70	70	70
Transmission gears / forward-reverse		1/1 (Hydraulic)	2/2 (Mechanical)1/1 (Hydraulic)	1/1(Hydraulic)	2/2 (Mechanical)1/1 (Hydraulic)	2/2 (Mechanical)1/1 (Hydraulic)
Working pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Applicable tonnage		3~3.5t	3~3.5t	3~3.5t	3.8t	3.8t

*We reserve the right to revise this document as a result of technical improvements. It is subject to change without prior notice.

MAST INFORMATION

FD30-38Z 
ZOOMLION Industrial Vehicles

Two-stage wide-view mast-3T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Mast tilt angle
mm	kg	mm	mm	°
2000	3000	1565	3260	6/12
2500	3000	1815	3760	6/12
3000	3000	2065	4260	6/12
3300	3000	2215	4560	6/12
3500	3000	2315	7460	6/12
3700	3000	2415	4960	6/12
4000	3000	2615	5260	6/12
4500	2600/*3000	2865	5760	6/6*6/12
5000	2100/*2850	3115	6260	6/6*6/6
5500	*2400	3415	6760	*3/6
6000	*2000	3665	7260	*3/6

Two-stage wide-view mast-3.5T/3.8T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Mast tilt angle
mm	kg	mm	mm	°
2000	3500	1655	3130	6/12
2500	3500	1905	3630	6/12
3000	3500	2155	4130	6/12
3300	3500	2305	4430	6/12
3500	3500	2405	4630	6/12
3700	3500	2505	4830	6/12
4000	3500	2705	5130	6/12
4500	2850/*3500	2955	5630	6/6*6/12
5000	2400/*3150	3205	6130	6/6*6/6
5500	*2700	3505	6630	*3/6
6000	*2300	3755	7130	*3/6

Two-stage full free mast-3T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Free lift height with load backrest	Mast tilt angle
mm	kg	mm	mm	mm	°
2000	3000	1565	3136	384	6/12
2500	3000	1815	3636	634	6/12
3000	3000	2065	4136	884	6/12
3300	3000	2215	4436	1034	6/12
3500	3000	2315	4636	1134	6/12
3700	3000	2415	4836	1234	6/12
4000	3000	2615	5136	1434	6/12

Two-stage full free mast-3.5T/3.8T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Free lift height with load backrest	Mast tilt angle
mm	kg	mm	mm	mm	°
2000	3500	1595	3130	415	6/12
2500	3500	1845	3630	665	6/12
3000	3500	2095	4130	915	6/12
3300	3500	2245	4430	1065	6/12
3500	3500	2345	4630	1165	6/12
3700	3500	2445	4830	1265	6/12
4000	3500	2645	5130	1465	6/12

Three-stage full free mast-3T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Free lift height with load backrest	Mast tilt angle
mm	kg	mm	mm	mm	°
3600	3000	1830	4865	602	6/6
4000	3000	1965	5270	737	6/6
4350	2870*3000	2080	5615	852	6/6
4500	2570*3000	2130	5765	902	6/6
4800	2250*2800	2230	6065	1002	6/6
5000	2000*2650	2295	6260	1067	6/6
5500	*2300	2460	6755	1232	*3/6
6000	*2100	2680	7265	1452	*3/6
6500	*1900	2895	7636	1714	*3/3
7000	*1200	3065	8136	1884	*3/3

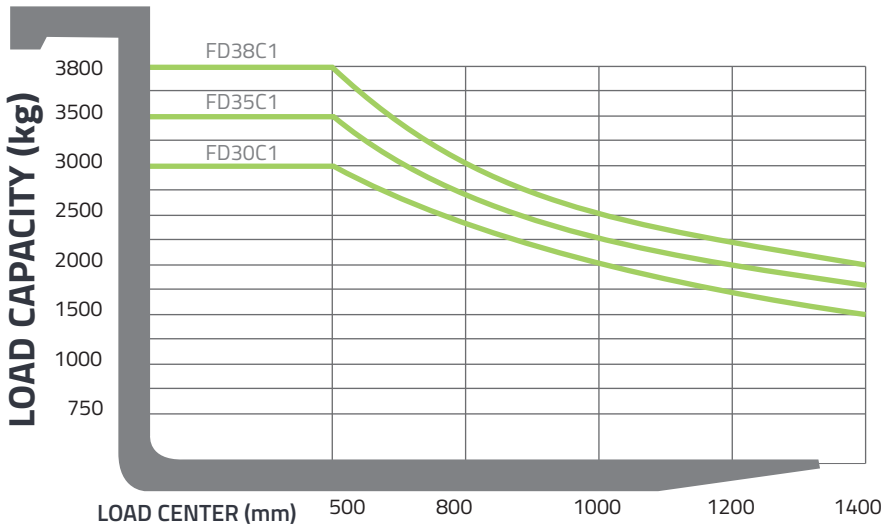
Three-stage full free mast-3.5T

Lift height	Load capacity	Mast height, retracted	Maximum mast height during operation	Free lift height with load backrest	Mast tilt angle
mm	kg	mm	mm	mm	°
3600	3350	1830	4730	650	6/6
4000	3350	1965	5130	785	6/6
4350	3270*3300	2080	5480	900	6/6
4500	3050*3300	2130	5630	950	6/6
4800	2700*3000	2230	5930	1050	6/6
5000	2450*2850	2295	6130	1115	6/6
5500	*2600	2460	6630	1280	*3/6
6000	*2350	2680	7130	1500	*3/6
6500	*2000	2895	7630	1715	*3/6
7000	500*1500	3065	8130	1885	*3/6

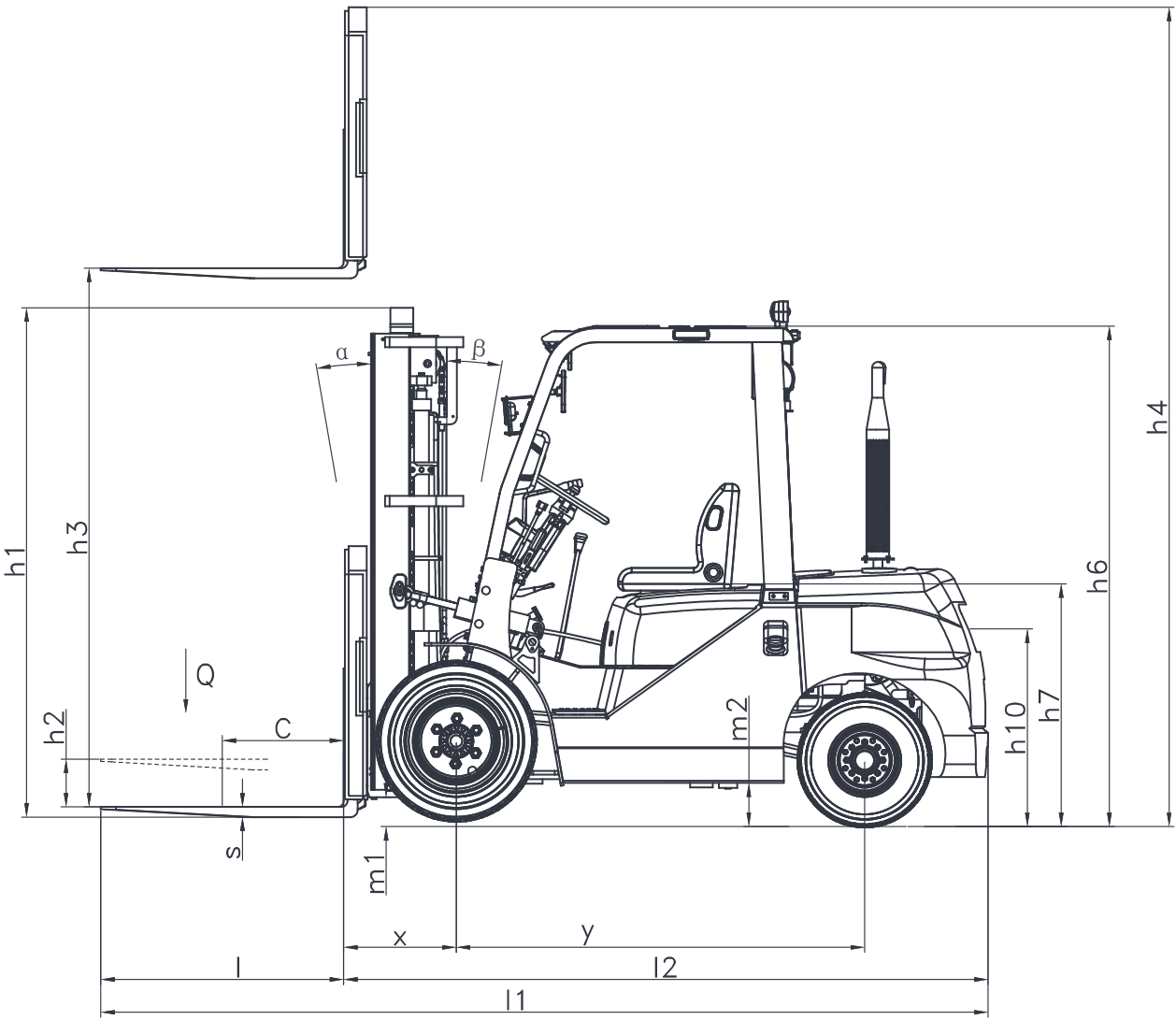
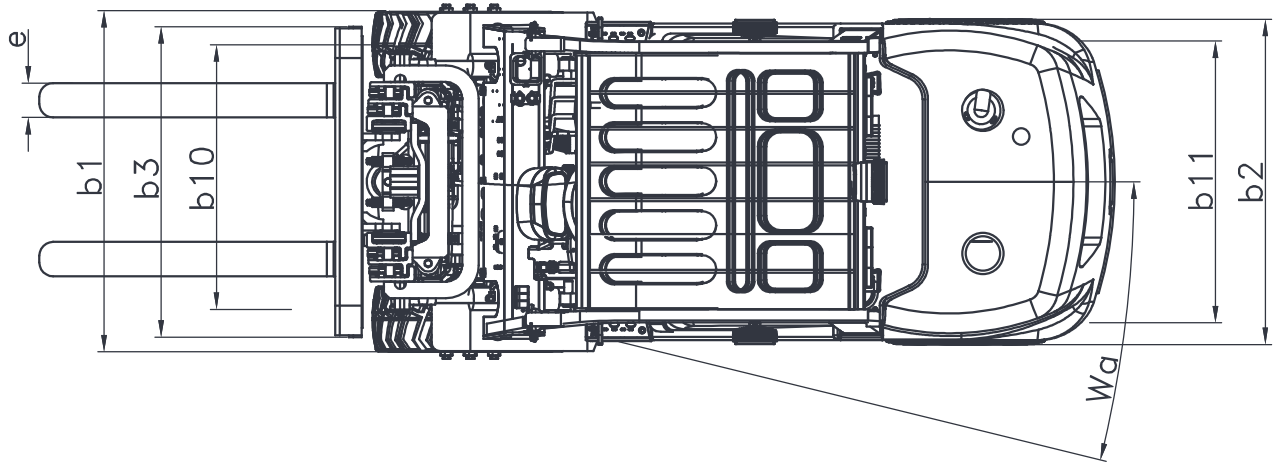
*indicates dual tires.

Capacity Chart

The load table: 3-3.8T



Machine 2D Graph



STANDARD/OPTIONAL CONFIGURATIONS

Standard configurations	
Wide-view mast	●
Front combination lamp	●
Two-section multi-way valve	●
Water temperature gauge	●
Treaded durable tire	●
Tilt-adjustable steering wheel	●
Standard fork	●
Three-color rear tail light	●
Hydraulic return filter element and transmission oil filter element	●
Electric horn	●
On-board tool kit	●
Lift and tilt control lever	●
Load backrest	●
Hour meter	●
Cyclone air filter	●
Tow pin	●
Rubber pedal pad	●
Overhead guard	●
Fuel gauge	●
Tilt circuit self-locking	●
Standard seat	●
Cable-type parking brake	●
Oil pressure alarm	●
Air intake device	●
Lift circuit speed-limiting valve	●
Hood gas strut	●
Turn signal indicator	●
Rearview mirror	●
Torque converter dipstick	●
Control lever	●
Full hydraulic power steering	●
Engine shutdown device	●
Optional configurations	
Cab	○
Two-stage (three-stage) full free mast	○
Premium seat	○
Fire-resistant muffler	○
Oil bath dual air filter intake system	○
Windshield	○
Warning light	○
High exhaust device	○
Heater	○
Dual air filter intake system	○
Stamped overhead guard	○
Solid tire	○
Fork sleeve	○
Rotating warning light	○
Black smoke reduction purification muffler	○
Dual tires and protective device	○
Custom color	○
Heater	○
Attachments	
Side shifter	☐
Lifting jib	☐
Dump bucket	☐
Adjustable fork positioner	☐
Paper roll clamp	☐
Dump fork	☐
Multi-purpose drum clamp	☐
Fork-mounted ram	☐
Widened fork carriage	☐
Fork extension	☐
Bale clamp	☐
Fork extension sleeve	☐
Rotating clamp	☐

