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The product specifications provided in this document are current as of August 2026.



Rated Load Capacity
3.0 T – 3.5 T

C Series

FD30 - 35C

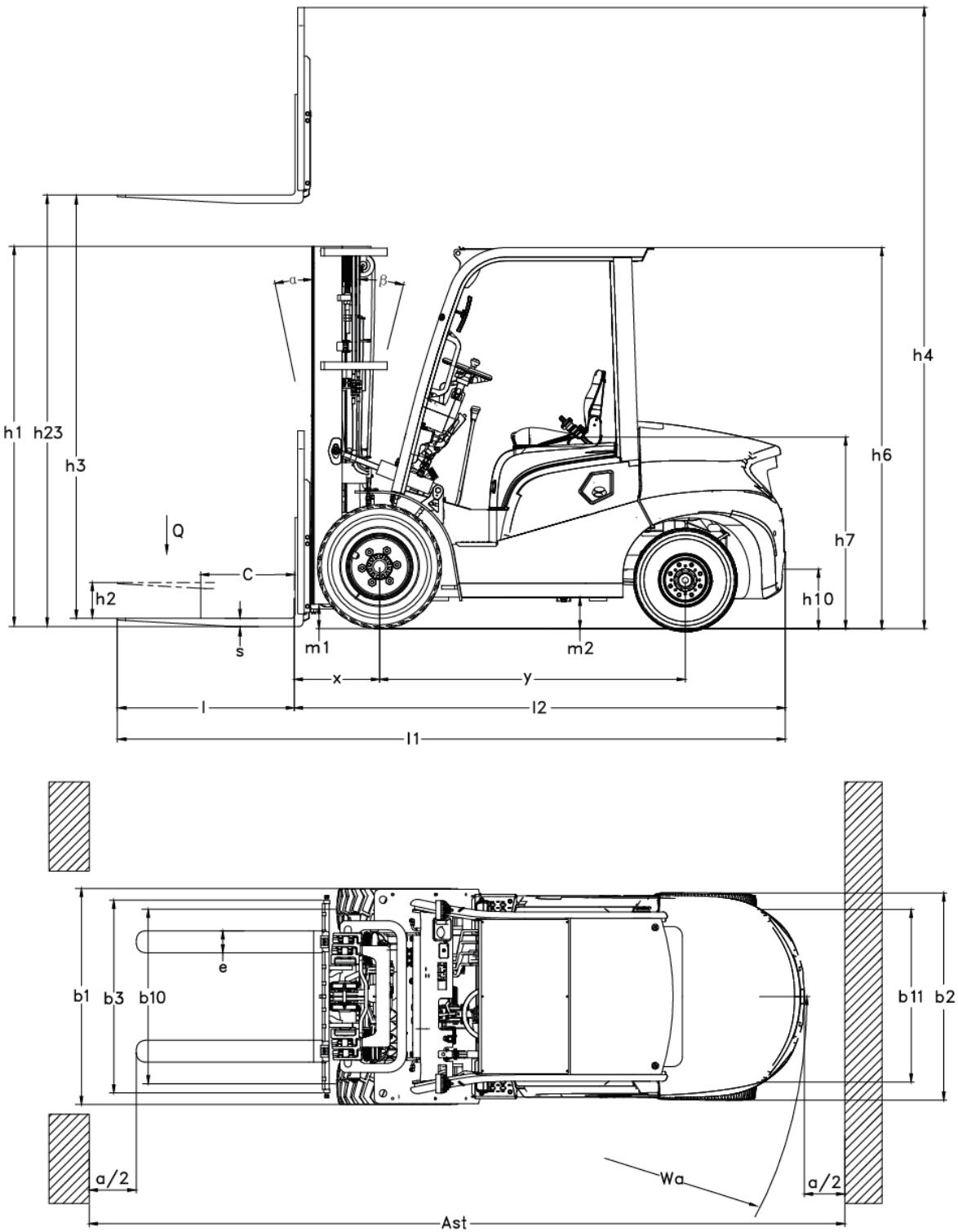
ZOOMLION | Internal Combustion Counterbalance Forklift

Internal Combustion Counterbalance Forklift
ZOOMLION MATERIAL HANDLING

Parameter		Unit	FD30C	FD35C
Identification	Power type (electric, diesel, gasoline, LPG, grid power)	-	Diesel	Diesel
	Operation type (seated, stand-on)	-	Seated	Seated
	Rated load capacity	Q (t)	3	3.5
	Load center distance	c (mm)	500	500
	Front overhang	x (mm)	469	474
Weight	Wheelbase	y (mm)	1750	1750
	Service weight	kg	4290	4590
	Axle load at full load, front/rear	kg	6478/812	7228/862
Wheels	Axle load at no load, front/rear	kg	1808/2482	1780/2810
	Tire type	-	Pneumatic tire	Pneumatic tire
	Front tire size	-	28×9-15-14PR	28×9-15-14PR
	Rear tire size	-	6.5-10-10PR	6.5-10-10PR
	Number of wheels, front/rear (X = drive wheel)	-	2X/2	2X/2
Dimensions	Front track width	b10 (mm)	1000	1000
	Rear track width	b11 (mm)	980	980
	Mast tilt angle, forward/backward	α/β(°)	6/12	6/12
	Mast lowered height	h1 (mm)	2065	2065
	Free lift height (excluding fork thickness)	h2 (mm)	120	120
	Lifting height	h3 (mm)	2955	2950
	Maximum lifting height	h23 (mm)	3000	3000
	Mast maximum height during operation	h4 (mm)	4167	4167
	Overhead guard (cab) height	h6 (mm)	2170	2170
	Seat height from ground	h7 (mm)	1130	1130
	Tow pin height	h10 (mm)	450	450
	Overall length	l1 (mm)	3860	3860
	Overall length (without forks)	l2 (mm)	2788	2788
	Overall width	b1/b2 (mm)	1240/1180	1240/1180
	Fork size, thickness × width × length	s/e/l (mm)	45×122×1070	50×122×1070
	Mast ground clearance	m1 (mm)	120	120
	Right-angle stacking aisle width, pallet 1000×1200 (1200 across fork direction)	Ast (mm)	4119	4124
	Right-angle stacking aisle width, pallet 800×1200 (1200 along fork direction)	Ast (mm)	4319	4324
	Ground clearance at wheelbase center	m2 (mm)	150	150
	Turning radius	Wa (mm)	2450	2450
Performance	Travel speed, laden/unladen	km/h	18/19	18/19
	Fork lifting speed, laden/unladen	m/s	0.41/0.49	0.41/0.49
	Fork lowering speed, laden/unladen	m/s	0.5/0.4	0.5/0.4
	Gradeability, laden/unladen	%	20/20	16/20
	Service brake	-	Mechanical brake	Mechanical brake
Drive	Battery (voltage/capacity)	V/Ah	12/80	12/80
	Engine manufacturer / model		Xinchai/4D29V41	Xinchai/4D29V41
	Rated power	kW	36.8	36.8
	Maximum torque / speed	Nm/rpm	165/1600-1800	165/1600-1800
	Number of cylinders		4	4
	Bore × stroke	mm	93×105	93×105
	Displacement	L	2.85	2.85
	Fuel tank capacity	L	60	60
	Shifting mode	-	Mechanical / Electro-hydraulic	Mechanical / Electro-hydraulic
	Operating pressure	MPa	18.5	18.5
	Attachment operating oil pressure	bar	185	185

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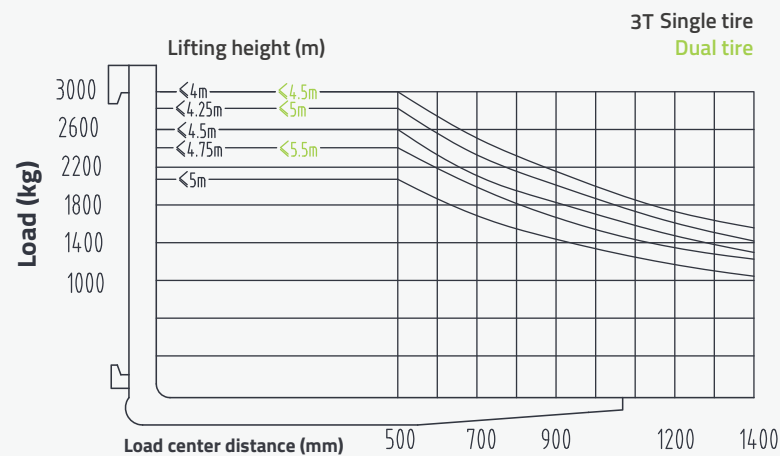
Dimensional drawing



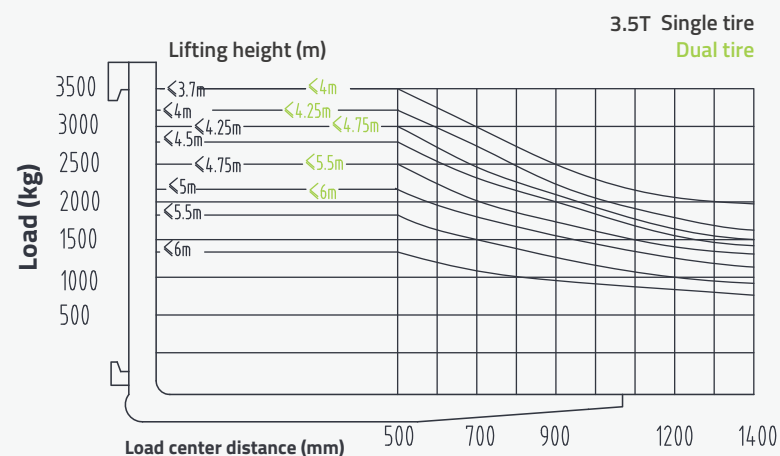
SPECIFICATIONS

Load chart

FD30C



FD35C



*Note:
The vertical axis represents the load capacity, and the horizontal axis represents the load center distance. The load center distance is measured from the front face of the forks. The reference point for standard load is the center of a cube with a load edge length of 1000mm.
When the mast is tilted forward, non-standard forks are used, or loads exceeding the normal width are handled, the load capacity will be reduced. The load chart allows for timely reference to the rated capacity of the standard mast at various load center distances.

MAST OPTION TABLE

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Duplex wide-view mast 3-3.5T

Mast maximum lifting height	Lifting capacity (500 mm load center distance)				Mast lowered height (forks on the ground)	Mast height		Free lift height (excluding fork thickness)		Mast tilt angle Forward/backward	
	3.0t Single tire kg	3.0t Dual tire kg	3.5t Single tire kg	3.5t Dual tire kg		Without load backrest mm	With standard load backrest mm	Without load backrest mm	With standard load backrest mm	Single tire °	Dual tire °
mm					mm						
2000	3000	3000	3500	3500	1565	2665	3167	120	120	6/12	6/12
2500	3000	3000	3500	3500	1815	3165	3667	120	120	6/12	6/12
2700	3000	3000	3500	3500	1915	3365	3867	120	120	6/12	6/12
3000	3000	3000	3500	3500	2065	3665	4167	120	120	6/12	6/12
3300	3000	3000	3500	3500	2215	3965	4467	120	120	6/12	6/12
3500	3000	3000	3500	3500	2315	4165	4667	120	120	6/12	6/12
3700	3000	3000	3500	3500	2415	4365	4867	120	120	6/12	6/12
4000	3000	3000	3200	3500	2615	4665	5167	120	120	6/12	6/12
4250	2850	3000	3000	3400	2740	4915	5417	120	120	6/6	6/12
4500	2600	3000	2850	3350	2865	5165	5667	120	120	6/6	6/12
4750	2400	2900	2500	3000	2990	5415	5917	120	120	6/6	6/6
5000	2100	2850	2200	2850	3115	5665	6167	120	120	6/6	6/6
5500	/	2400	1850	2500	3415	6165	6667	120	120	3/6	3/6
6000	/	2000	1400	2200	3665	6665	7167	120	120	3/6	3/6

Duplex full free-lift mast 3-3.5T

Mast maximum lifting height	Lifting capacity (500 mm load center distance)				Mast lowered height (forks on the ground)	Mast height		Free lift height (excluding fork thickness)		Mast tilt angle	
	3.0t Single tire kg	3.0t Dual tire kg	3.5t Single tire kg	3.5t Dual tire kg		Without load backrest mm	With standard load backrest mm	Without load backrest mm	With standard load backrest mm	Single tire °	Dual tire °
mm					mm						
2000	3000	3000	3500	3500	1595	2638	3130.5	907	414.5	6/12	6/12
2500	3000	3000	3500	3500	1845	3138	3630.5	1157	664.5	6/12	6/12
2700	3000	3000	3500	3500	1945	3338	3830.5	1257	764.5	6/12	6/12
3000	3000	3000	3500	3500	2095	3638	4130.5	1407	914.5	6/12	6/12
3300	3000	3000	3500	3500	2245	3938	4430.5	1557	1064.5	6/12	6/12
3500	3000	3000	3500	3500	2345	4138	4630.5	1657	1164.5	6/12	6/12
3700	3000	3000	3500	3500	2445	4338	4830.5	1757	1264.5	6/12	6/12
4000	3000	3000	3500	3500	2645	4638	5130.5	1957	1464.5	6/12	6/12

Triplex full free-lift mast 3-3.5T

Mast maximum lifting height	Lifting capacity (500 mm load center distance)				Mast lowered height (forks on the ground)	Mast height		Free lift height (excluding fork thickness)		Mast tilt angle	
	3.0t Single tire kg	3.0t Dual tire kg	3.5t Single tire kg	3.5t Dual tire kg		Without load backrest mm	With standard load backrest mm	Without load backrest mm	With standard load backrest mm	Single tire °	Dual tire °
mm					mm						
3600	3000	3000	3300	3300	1865	4240	4730.5	1174.5	684	6/6	6/6
4000	3000	3000	3300	3300	2000	4640	5130.5	1309.5	819	6/6	6/6
4200	3000	3000	3000	3000	2065	4840	5330.5	1374.5	884	6/6	6/6
4350	2870	3000	3000	3300	2115	4990	5480.5	1425.5	935	6/6	6/6
4500	2570	3000	2850	3200	2165	5140	5630.5	1474.5	984	6/6	6/6
4700	2340	2900	2650	3000	2230	5340	5830.5	1539.5	1049	6/6	6/6
4800	2250	2800	2500	2900	2265	5440	5930.5	1574.5	1084	6/6	6/6
5000	2000	2650	2450	2850	2330	5640	6130.5	1639.5	1149	6/6	6/6
5500	1550	2300	/	2500	2495	6140	6630.5	1804.5	1314	3/6	3/6
6000	1100	2100	/	2200	2715	6640	7130.5	2024.5	1534	3/6	3/6

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PRODUCT HIGHLIGHTS

FD30-35C internal combustion counterbalance forklift series covers two capacity grades — 3.0 tons and 3.5 tons. It features a brand-new exterior design with a matte wear-resistant finish that resists scratches and oil stains. Equipped as standard with a Xinchai engine, it delivers strong power with energy efficiency. Both mechanical and electro-hydraulic transmission options are available for flexible selection. The ergonomically optimized design effectively reduces driver fatigue, making it suitable for all-weather high-intensity operations.



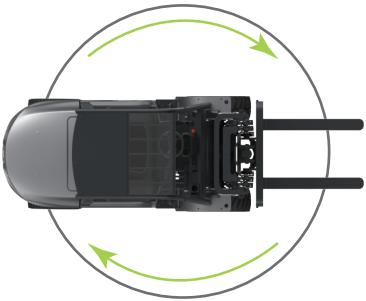
Driving Comfort

- The centrally recessed hood design provides improved legroom.
- Equipped with a small-diameter steering wheel for greater operating comfort.
- Ergonomic design enhances overall comfort.



Wide Visibility

- Semi-canopy design offers protection from sun and rain while providing an expansive overhead view.
- Mast visibility is optimized across the entire lineup for a clearer forward operating view.
- The streamlined counterweight design effectively reduces the rear blind spot.



Agile Maneuverability

- Compact overall structure and small exterior dimensions.
- Small turning radius ensures flexible operation.



Safe and Reliable

- The mast and frame are manufactured on advanced automated production lines, ensuring consistent and reliable quality.
- The overhead guard is robust and reliable, with drop test performance far exceeding industry standards.
- Optional reverse camera system, warning lights, and blue safety lights provide multiple safety alerts.



Easy Maintenanc

- The front floor panel can be removed without tools for convenient maintenance.
- The hood opens at a wide angle, providing generous service access.
- Modular and standardized platform design ensures high parts commonality and low equipment management costs.

FEATURES

Feature		FD30C	FD35C	Feature		FD30C	FD35C
Working device	Basic wide-view mast	●	●	Electrical parts	Headlights	●	●
	Duplex wide-view full free-lift mast	○	○		Rear tail lights	●	●
	Triplex wide-view full free-lift mast	○	○		USB port	○	○
	Standard forks	●	●		Maintenance-free starter battery	●	●
	Special forks	○	○		Reverse buzzer	●	●
	Special fork sleeves	○	○		Horn	●	●
	Standard fork carriage	●	●		Alarm warning light	○	○
	Wider fork carriage	○	○		Fuel level sensor	●	●
	Standard load backrest	●	●		Key switch	●	●
	Wider load backrest	○	○		Reverse buzzer with armrest switch	○	○
Whole vehicle	Steering wheel adjuster	●	●	Hydraulic parts	Neutral switch	○	○
	Rubber pedal pad	●	●		Main power switch	○	○
	Floor-mounted brake	●	●		Blue/red spotlight	○	○
	Parking brake	●	●		Linear projection lamp with blue/red light (three-way)	○	○
	Integrated combination switch	●	●		Audible and visual alarm lamp	○	○
	Tow pin	●	●		Rear work light	○	○
	Entry handrail	●	●		Mast light	○	○
	Cup holder	●	●		Card reader start	○	○
	Onboard tools	●	●		Fingerprint lock	○	○
	Standard seat	●	●		Full hydraulic power steering	●	●
	Seat with lumbar support	○	○	Hydraulic oil dipstick	●	●	
	Suspension seat	○	○	Hydraulic return oil filter element	●	●	
	Pneumatic tire	●	●	Hydraulic suction oil filter element	●	●	
	Solid tire	○	○	Tilt cylinder self-locking valve	●	●	
	Eco-friendly solid tire	○	○	Mast speed limiting valve	●	●	
	Standard overhead guard	●	●	Load-sensing steering unit	○	○	
	Overhead guard waterproof cover	○	○	Descent cushioning	●	●	
	Center rearview mirror	●	●	Seatbelt alarm	○	○	
	Left and right rearview mirrors	○	○	OPS system	○	○	
	Wide-angle rearview mirror	○	○	Reverse radar	○	○	
	Cab	○	○	Reverse camera	○	○	
	Front and rear windshield	○	○	Front and rear driving recorders	○	○	
	Fan	○	○	Overload detection	○	○	
	Air conditioner	○	○	Overspeed alarm	○	○	
	Heater	○	○	Sideshifter	○	○	
	Fire extinguisher	○	○	Fork positioner	○	○	
	Customer-specified color	○	○	Bale clamp	○	○	
	Power	Large-capacity aluminum radiator	●	●	Attachment	Dump hopper	○
Cyclone-type air filter		●	●	Dump fork		○	○
Air pre-filter		○	○	Rotating clamp		○	○
Oil bath dual air filter		○	○	Pole attachment		○	○
High exhaust system		○	○	Multi-purpose drum clamp		○	○
Mid exhaust system		●	●	Hook		○	○
Radiator mesh guard		○	○	Paper roll clamp		○	○
Spark arrester		○	○				

Standard ● Optional

Standard ● Optional ○