

VISION CREATES FUTURE



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



Rated Load Capacity
5 T – 10 T

C Series

FD50 - 100C

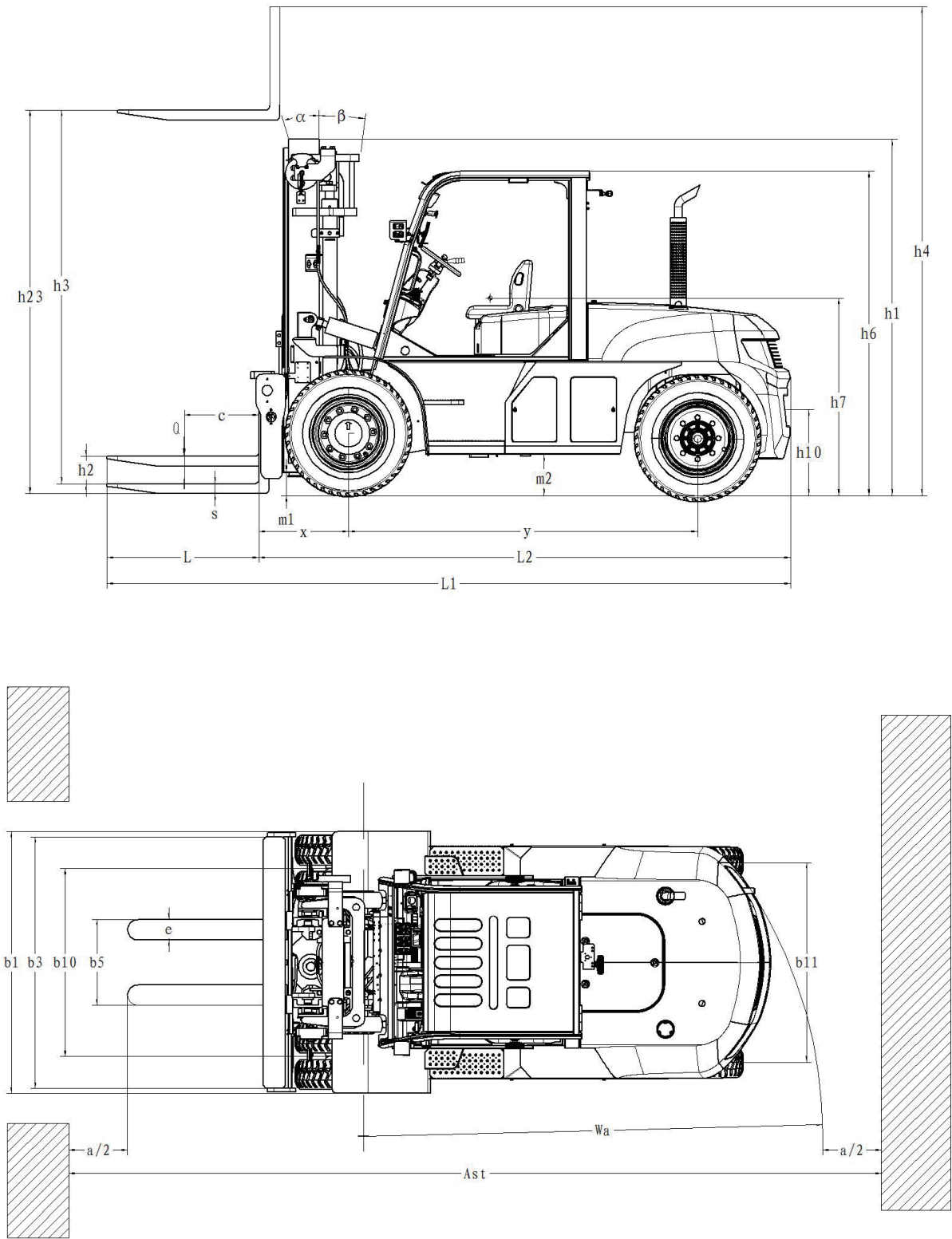
ZOOMLION | Internal Combustion Counterbalance Forklift

Internal Combustion Counterbalance Forklift
ZOOMLION MATERIAL HANDLING

	Parameter	Unit	FD50C	FD70C	FD100C
Identification	Power type	-	Diesel	Diesel	Diesel
	Operation type	-	Seated	Seated	Seated
	Rated load capacity	Q(kg)	5000	7000	10000
	Load center distance	c(mm)	600	600	600
	Front overhang	x(mm)	584	594	720
	Wheelbase	y(mm)	2300	2300	2800
Weight	Service weight	kg	8440	9820	12950
	Axle load at full load, front/rear	kg	11787/1653	14601/2219	20860/2090
	Axle load at no load, front/rear	kg	4242/4198	4005/5815	6130/6820
Wheels	Tire type	-	Pneumatic tire	Pneumatic tire	Pneumatic tire
	Front tire size	-	8.25-15-14PR	8.25-15-14PR	9.00-20-14PR
	Rear tire size	-	8.25-15-14PR	8.25-15-14PR	9.00-20-14PR
	Number of wheels, front/rear (X = drive wheel)	-	4x/2	4x/2	4x/2
	Front track width	b10 (mm)	1468	1468	1600
	Rear track width	b11 (mm)	1700	1700	1700
Dimensions	Mast tilt angle, forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12	6/12
	Mast lowered height	h1 (mm)	2500	2500	2835
	Free lift height (excluding fork thickness)	h2 (mm)	155	155	120
	Lifting height	h3 (mm)	2945	2935	2920
	Maximum lifting height	h23 (mm)	3000	3000	3000
	Maximum mast height during operation	h4 (mm)	4418*	4418*	4484
	Overhead guard (cab) height	h6 (mm)	2450	2450	2600
	Seat height from ground	h7 (mm)	1435	1435	1580
	Tow pin height	h10 (mm)	375	375	410
	Overall length	L1 (mm)	4721	4874	5480
	Overall length (without forks)	L2 (mm)	3501	3654	4260
	Overall width	b1(mm)	2014	2014	2230
	Fork outer spacing (min./max.)	b5(mm)	300-1815	300-1815	456-2086
	Fork size, thickness × width × length	s/e/L (mm)	55/150/1220	65/150/1220	80/175/1220
	Carriage width	b3 (mm)	1880	1880	2270
	Mast ground clearance	m1 (mm)	180	180	230
	Frame ground clearance	m1 (mm)	250	250	305
	Stacking aisle width, pallet 1000x1200 (1200 across fork direction)	Ast (mm)	5064	5194	5890
	Stacking aisle width, pallet 800x1200 (1200 along fork direction)	Ast (mm)	5264	5394	6090
	Turning radius	Wa (mm)	3280	3400	3970
Performance	Travel speed, laden/unladen	km/h	27/30	27/30	28/31
	Fork lifting speed, laden/unladen	mm/s	470/500	470/500	370/450
	Fork lowering speed, laden/unladen	mm/s	500/470	500/470	450/420
	Rated tractive force, full load	kN	56	56	56
	Gradeability, laden/unladen	%	20/39	20/30	20/22
Engine	Engine manufacturer / model	-	Yuchai/YCA05115-T480	Yuchai/YCA05115-T480	Yuchai/YCA05115-T480
	Emission stage	-	China IV	China IV	China IV
	Rated power / speed	kW/rpm	85/2200	85/2200	85/2200
	Maximum torque / speed	Nm/rpm	500/1600	500/1600	500/1600
	Number of cylinders / displacement	-/L	4/4.837	4/4.837	4/4.837
	Battery voltage / capacity	V/Ah	2×12/80	2×12/80	2×12/80
Other	Transmission type	-	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
	Number of gears, forward/reverse	-	2/2	2/2	2/2
	Service brake	-	Power brake	Power brake	Power brake
	Parking brake	-	Mechanical brake	Mechanical brake	Mechanical brake
	Hydraulic system pressure	MPa	20	20	20
	Fuel tank capacity	L	140	140	140

*Maximum mast height during operation (with standard load backrest).
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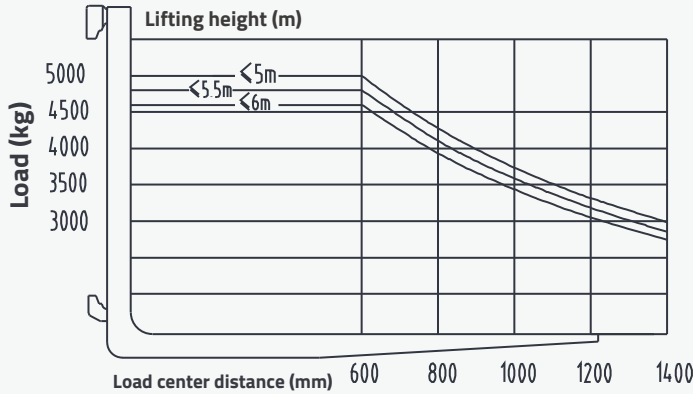
Dimensional drawing



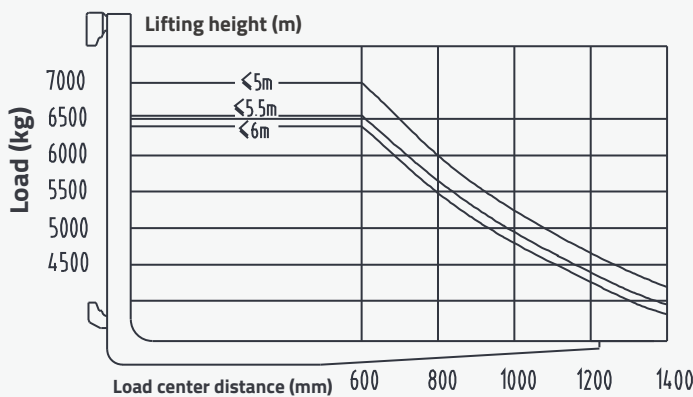
SPECIFICATIONS

Load chart

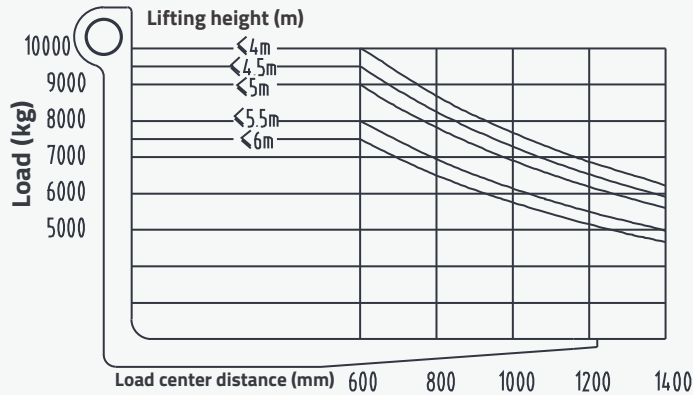
FD50C



FD70C



FD100C



*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 1200mm.
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

ZOOMLION

Duplex wide-view mast

Mast maximum lifting height	Rated capacity		Mast lowered height		Maximum mast height during operation				Free lift height		Mast tilt angle	
	(600mm load center)		(forks on the ground)		Without load backrest		With standard load backrest		(excluding fork thickness)		Forward/backward	
	5t	7t	5t	7t	5t	7t	5t	7t	5t	7t	5t	7t
mm	kg	kg	mm	mm	mm	mm	mm	mm	mm	mm	°	°
2500	5000	7000	2250	2250	3524	3524	3918	3918	155	155	6/12	6/12
3000	5000	7000	2500	2500	4024	4024	4418	4418	155	155	6/12	6/12
3300	5000	7000	2650	2650	4324	4324	4718	4718	155	155	6/12	6/12
3500	5000	7000	2750	2750	4524	4524	4918	4918	155	155	6/12	6/12
4000	5000	7000	3050	3050	5024	5024	5418	5418	155	155	6/12	6/12
4500	5000	7000	3300	3300	5524	5524	5918	5918	155	155	6/12	6/12
5000	5000	7000	3550	3550	6024	6024	6418	6418	155	155	6/6	6/6
5500	4800	6600	3850	3850	6524	6524	6918	6918	155	155	6/6	6/6
6000	4600	6400	4100	4100	7024	7024	7418	7418	155	155	6/6	6/6

Duplex wide-view mast

Mast maximum lifting height	Rated capacity		Mast lowered height		Maximum mast height during operation		Free lift height		Mast tilt angle	
	(600mm load center)		(forks on the ground)		Without load backrest	With standard load backrest	(excluding fork thickness)		Forward/backward	
	10t		10t		10t		10t		10t	
mm	kg		mm		mm		mm		°	
3000	10000		2835		4484		120		6/12	
3500	10000		3085		4984		120		6/12	
4000	10000		3385		5484		120		6/12	
4500	9500		3635		5984		120		6/12	
5000	9000		3885		6484		120		6/6	
5500	8000		4185		6984		120		3/6	
6000	7500		4435		7484		120		3/6	

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PRODUCT HIGHLIGHTS

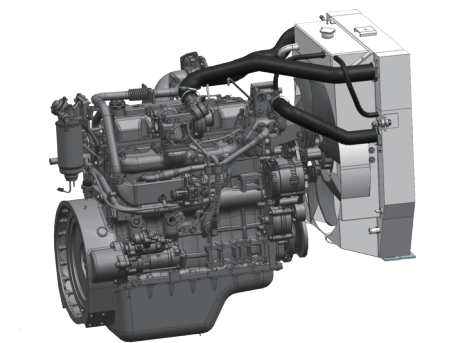
The ideal choice for heavy-duty handling

New exterior design with matte wear-resistant finish — scratch-resistant and oil-repellent.
Ergonomic optimization reduces operator fatigue, ideal for all-day high-intensity operation.
Equipped with safety features such as steering priority and descent cushioning for safer operation.
Optimized all-around visibility with reduced blind spots.



Enhanced Comfort

- Mast visibility optimized, front view improved by 10%.
- The streamlined design of the counterweight significantly improves rear visibility.
- Full-wrap instrument panel for a sleek and premium appearance.
- Ergonomic design enhances operator comfort.
- Intelligent and digital enhancements deliver a superior driving experience.



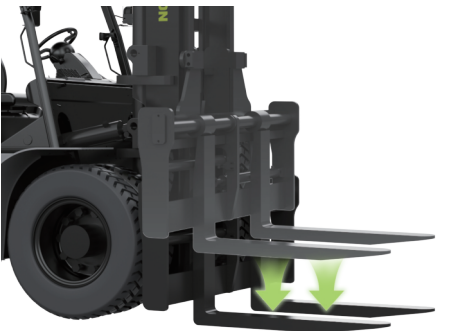
Reliable Performance

- Equipped with a high-torque engine, delivering powerful output.
- Equipped with LED lights offering low energy consumption, high brightness, and long service life.
- Optimized cooling system design supports continuous stable operation in extreme environments up to 55°C.



Easy Maintenance

- Reasonable layout with ample service access, facilitating convenient daily inspections and maintenance.
- The modular, standardized platform design ensures high parts commonality and lower spare parts management costs.



Enhanced Safety

- Standard safety features including steering priority and descent cushioning.
- Optional reverse camera system, warning lights, blue lights, and more, providing multi-level safety alerts.

FEATURES

Feature		FD50-70C	FD100C	Feature		FD50-70C	FD100C
Working device	Basic wide-view mast	●	●	Electrical parts	Color display	●	●
	Duplex wide-view full free-lift mast	○	○		Headlights	●	●
	Triplex wide-view full free-lift mast	○	○		Rear combination lamps	●	●
	Standard forks	●	●		USB port	●	●
	Special forks	○	○		Maintenance-free starter battery	●	●
	Special fork sleeves	○	○		Reverse buzzer	●	●
	Standard fork carriage	●	●		Horn	●	●
	Wider fork carriage	○	○		Warning light	●	●
	Standard load backrest	●	-		Coolant temperature sensor	●	●
	Wider load backrest	○	-		Oil temperature sensor	●	●
Whole vehicle	Steering wheel adjuster	●	●	Fuel level sensor	●	●	
	Rubber pedal pad	●	●	Oil pressure alarm	●	●	
	Floor-mounted brake	●	●	Key switch	●	●	
	Suspended brake	○	○	Armrest-mounted reverse buzzer	●	●	
	Parking brake	●	●	Neutral switch	●	●	
	Integrated combination switch	●	●	Main power switch	●	●	
	Tow pin	●	●	OBD	○	○	
	Entry handrail	●	●	Blue/red spotlight	○	○	
	Instrument panel cover	●	●	Linear projection lamp with blue/red light (three-way)	○	○	
	Storage box	●	●	Audible and visual alarm lamp	○	○	
	Onboard tools	●	●	Rear work light	○	○	
	Document holder	○	○	Mast light	○	○	
	Standard seat	●	●	Card reader start	○	○	
	Suspension seat	○	○	Fingerprint lock	○	○	
	Pneumatic tire	●	●	Hydraulic parts	Full hydraulic power steering	●	●
	Solid tire	○	○		Hydraulic oil dipstick	●	●
	Eco-friendly solid tire	○	○		Hydraulic return oil filter element	●	●
	Standard overhead guard	●	●		Hydraulic suction oil filter element	●	●
	Waterproof cover for overhead guard	●	●		Accumulator	●	●
	Center rearview mirror	●	●		Tilt cylinder self-locking valve	●	●
Left and right rearview mirrors	○	○	Mast speed limiting valve		●	●	
Wide-angle rearview mirror	○	○	Load safety valve		●	●	
Cab	○	○	Load-sensing steering unit		●	●	
Front and rear windshield	○	○	Electro-proportional control valve		○	○	
Fan	○	○	Safety features	Mast descent cushioning	●	●	
Air conditioner	○	○		Hydraulic power brake	●	●	
Heater	○	○		Seatbelt alarm	○	○	
Engine hood latch	○	○		OPS system	○	○	
Fire extinguisher	○	○		Reverse radar	○	○	
Fingertip control	○	○		Reverse camera	○	○	
Delayed lighting	○	○		Front and rear driving recorders	○	○	
Customer-specified color	○	○		Lift cushioning	○	○	
Power	Large-capacity aluminum radiator	●		●	Overload detection	○	○
	Cyclone-type air filter	●		●	Overspeed alarm	○	○
	Air pre-filter	○	○	Attachment	Sideshifter	○	○
	Oil bath dual air filter	○	○		Fork positioner	○	●
	High exhaust system	●	●		Bale clamp	○	○
	Mid exhaust system	○	○		Dump hopper	○	○
	Radiator mesh guard	○	○		Dump fork	○	○
	Spark arrester	○	○		Rotating clamp	○	○
	Exhaust gas purification system	○	○		Pole attachment	○	○
Fan guard mesh	○	○	Multi-purpose drum clamp		○	○	
					Lifting hook	○	○
				Lifting jib	○	○	
				Paper roll clamp	○	○	

Standard ● Optional ○

Standard ● Optional ○