

VISION CREATES FUTURE

ZOOMLION

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

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Rated Load Capacity
25 T
C Series

FD250C

ZOOMLION | Internal Combustion Counterbalance Forklift

Internal Combustion Counterbalance Forklift
ZOOMLION MATERIAL HANDLING

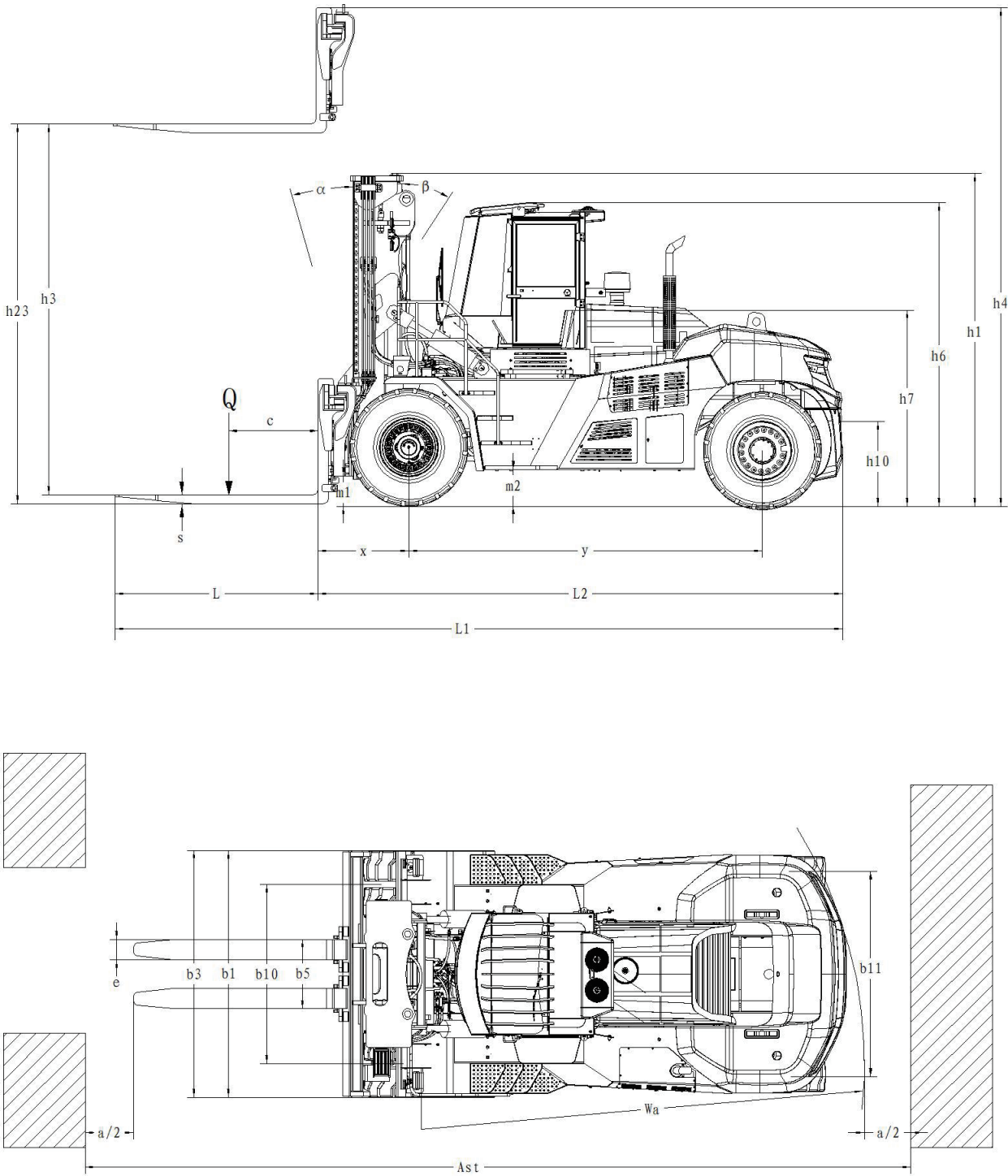
SPECIFICATIONS

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	Parameter	Unit	FD250C
Identification	Power type	-	Diesel
	Operation type	-	Seated
	Rated load capacity	Q(kg)	25000
	Load center distance	c(mm)	1200
	Front overhang	x(mm)	1060
Weight	Wheelbase	y(mm)	4250
	Service weight	kg	37500
	Axle load at full load, front/rear	kg	55940/6560
Wheels	Axle load at no load, front/rear	kg	17065/20435
	Tire type	-	Pneumatic tire
	Front tire size	-	14.00-24-28PR
	Rear tire size	-	14.00-24-28PR
	Number of wheels, front/rear (X = drive wheel)	-	4x/2
Dimensions	Front track width	b10 (mm)	2200
	Rear track width	b11 (mm)	2510
	Mast tilt angle, forward/backward	$\alpha/\beta(^{\circ})$	6/10
	Mast lowered height	h1 (mm)	3950
	Lifting height	h3 (mm)	3890
	Maximum lifting height	h23 (mm)	4000
	Maximum mast height during operation	h4 (mm)	6100
	Overhead guard (cab) height	h6 (mm)	3550
	Seat height from ground	h7 (mm)	2600
	Tow pin height	h10 (mm)	800
	Overall length	L1 (mm)	8710
	Overall length (without forks)	L2 (mm)	6270
	Overall width	b1(mm)	3025
	Fork outer spacing (min./max.)	b5(mm)	850-2570
	Fork size, thickness x width x length	s/e/L(mm)	110/250/2440
	Carriage width	b3 (mm)	3000
	Mast ground clearance	m1 (mm)	300
	Frame ground clearance	m2 (mm)	400
	Stacking aisle width with 1800mm load length	Ast (mm)	9700
	Stacking aisle width with 2400mm load length	Ast (mm)	9700
	Turning radius	Wa (mm)	6000
Performance	Travel speed, laden/unladen	km/h	24/26
	Fork lifting speed, laden/unladen	mm/s	280/300
	Fork lowering speed, laden/unladen	mm/s	350/330
	Rated tractive force, full load	kN	175
	Gradeability, laden/unladen	%	25/35
Engine	Engine manufacturer/model	-	Weichai/WP10HG240E471
	Emission stage	-	China IV
	Rated power/speed	kW/rpm	178/2200
	Maximum torque /speed	Nm/rpm	1200/ (1300~1500)
	Number of cylinders / Displacement	-/L	6/9.5
Other	Battery voltage / capacity	V/Ah	2×12/150
	Transmission type	-	Hydrodynamic transmission with manual/auto reversing
	Number of gears, forward/reverse	-	3/3
	Service brake	-	Power brake
	Parking brake	-	Electronic parking brake
	Hydraulic system pressure	MPa	23.5
	Fuel tank capacity	L	400

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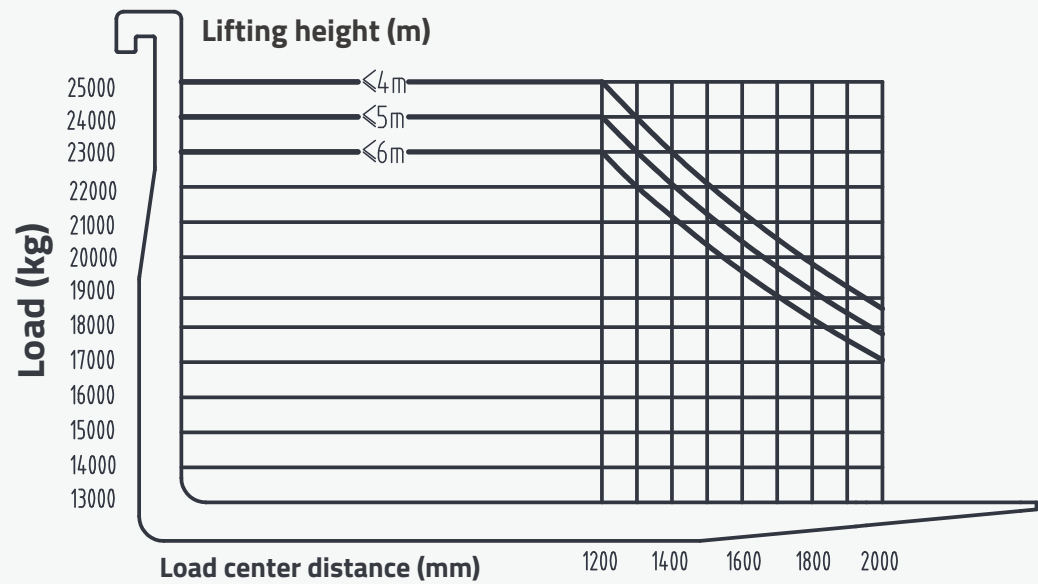
Dimensional drawing



SPECIFICATIONS

Load chart

FD250C



***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 2400mm. 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

Duplex wide-view mast				
Mast maximum lifting height	Rated capacity	Mast lowered height	Mast height	Mast tilt angle
	(1200mm load center)	(forks on the ground)	Without load backrest	Forward/backward
mm	kg	mm	mm	°
3000	25000	3480	4980	6/10
3500	25000	3730	5480	6/10
4000	25000	3980	5980	6/10
4500	24000	4230	6480	6/10
5000	24000	4480	6980	6/10
5500	23000	4730	7480	6/10
6000	23000	4980	7980	6/10

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Internal Combustion Counterbalance Forklift
ZOOMLION MATERIAL HANDLING

PRODUCT HIGHLIGHTS

The ideal choice for heavy-duty handling

Brand-new exterior design with a matte wear-resistant finish — scratch-resistant and oil-repellent.

Ergonomically optimized to reduce driver fatigue, ideal for all-day high-intensity operation.

Equipped with safety features such as steering priority, lift cushioning, and descent cushioning for safer operation.

Optimized all-around visibility with standard reverse camera and radar system, significantly reducing blind spots during operation.



Operator comfort

- Fully enclosed air-conditioned cab with ergonomic design and two-step adjustable steering wheel for enhanced comfort.
- The streamlined counterweight design improves rear visibility and reduces the turning radius, enhancing maneuverability and passability on site.

Reliable Performance

- Key components sourced from renowned domestic and international brands for low failure rates.
- LED lighting with low energy consumption, high brightness and long service life.
- Standard brake oil cooling, with optional hydraulic oil cooling to better protect core components and extend their service life.

Energy-Efficient and Eco-Friendly

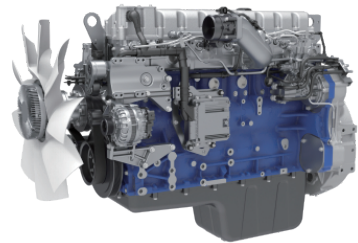
- Powered by a 178 kW / 1200 N·m engine for strong output.
- Multi-mode engine control adjusts power output based on working conditions, reducing average fuel consumption by 15%.
- Optimized cooling system supports continuous stable operation in extreme ambient temperatures up to 55°C.
- Automated manual transmission with real-time gear shifting based on working conditions — energy-efficient and comfortable.

Intelligent Upgrades

- Standard safety features including steering priority and lift/descent cushioning.
- One-touch switching between single-fork and dual-fork synchronous modes.
- Inching mode for more precise load positioning.
- One-touch leveling eliminates manual leveling time, greatly improving operational efficiency.
- Intelligent speed control based on working conditions for stable, reliable, and safer operation.

Enhanced Safety

- Equipped with a reverse camera and millimeter-wave radar, significantly reducing rear blind spots and improving reversing visibility.
- Cornering speed control reduces load damage risk and greatly enhances operational safety.
- The smart lighting system automatically switches on the lights under dim lighting conditions. When turning, the turn signals and steering assist lights are activated automatically to minimize blind spots and enhance nighttime operational safety.



FEATURES

Feature		FD250C	Feature		FD250C
Working device	Basic wide-view mast	●	Electrical parts	Color display	●
	Standard fork carriage	●		Headlights	●
	Standard forks 2440	●		Rear combination lamps	●
	Duplex wide-view full free-lift mast	○		USB port	●
	Triplex wide-view full free-lift mast	○		Maintenance-free starter battery	●
Whole vehicle	Special forks	○		Reverse buzzer	●
	Steering wheel adjuster	●		Horn	●
	Rubber pedal pad	●		Warning light	●
	Floor-mounted brake	●		Coolant temperature sensor	●
	Parking brake	●		Oil temperature sensor	●
	Integrated combination switch	●		Fuel level sensor	●
	Tow pin	●		Oil pressure alarm	●
	Entry handrail	●		Key switch	●
	Storage box	●		Neutral switch	●
	Onboard tools	●		Main power switch	●
	Document holder	●		OBD	●
	Mechanical suspension seat	●		Audible and visual alarm lamp	●
	Pneumatic tire	●		Mast light	●
	Cab	●		Blue/red spotlight	○
	Fan	●		Linear projection lamp with blue/red light (three-way)	○
	Air conditioner	●		Card reader start	○
	Engine hood latch	●		Fingerprint lock	○
	Fire extinguisher	●		One-touch start	○
	Center rearview mirror	●	Safety features	Mast descent cushioning	●
	Left and right rearview mirrors	●		Mast lift cushioning	●
	Cornering speed limit	●		Mast cushioning at any position	●
	Intelligent brake oil cooling system	●		One-touch leveling	●
	Intelligent hydraulic oil cooling system	○		Hydraulic power brake	●
	Weighing system	○		Electronic parking brake	●
	Solid tire	○		Reverse radar	●
	Smart lighting	○		Reverse camera	●
	Wide-angle rearview mirror	○		Seatbelt alarm	○
	Fingertip control	○		OPS system	○
Hydraulic parts	Delayed lighting	○	Power	Front and rear driving recorders	○
	Automatic engine shutdown after seat vacancy	○		Overload detection	○
	360° surround-view camera	○		Overspeed alarm	○
	Customer-specified color	○		Large-capacity aluminum radiator	●
	Full hydraulic power steering	●		Cyclone-type air filter	●
	Hydraulic oil level gauge	●		Air pre-filter	●
	Hydraulic return oil filter element	●		High exhaust system	●
	Hydraulic suction oil filter element	●		Oil bath dual air filter	●
	Accumulator	●	Attachment	Sideshift and fork positioner	●
	Tilt cylinder self-locking valve	●		Integrated sideshift and fork positioning mode	●
	Mast speed limiting valve	●		Single fork adjustment mode	●
	Load safety valve	●		Pole attachment	○
	Load-sensing steering unit	●			
		Electro-proportional control valve			

Standard ● Optional ○