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



Rated Load Capacity
2 T – 3.5 T

S Series

FE20 - 35S

ZOOMLION | Electric Counterbalance Forklift

Electric Counterbalance Forklift
ZOOMLION MATERIAL HANDLING

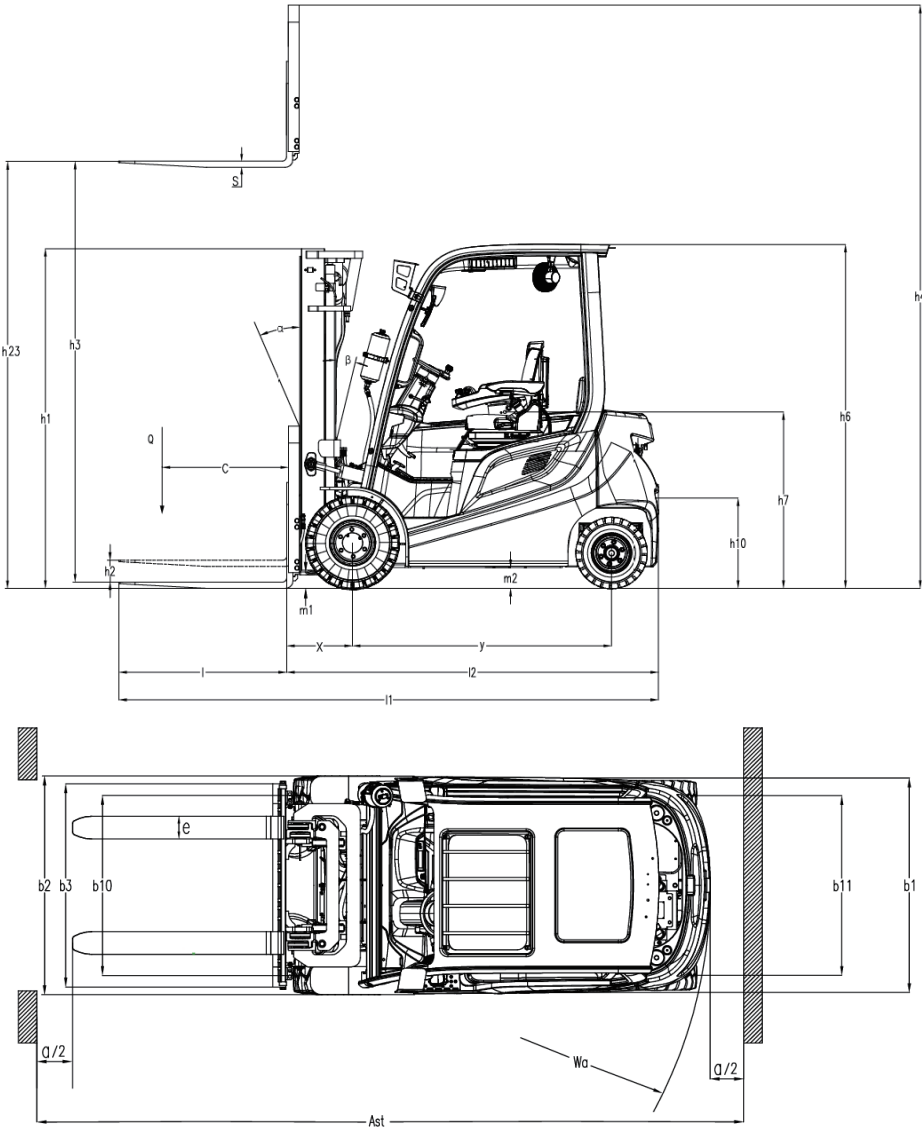
SPECIFICATIONS

ZOOMLION

Parameter		Unit	FE20S	FE25S	FE30S	FE35S
Identification	Power type (electric, diesel, gasoline, LPG, grid power)	-	Electric	Electric	Electric	Electric
	Operation type (seated, stand-on)	-	Seated	Seated	Seated	Seated
	Rated load capacity	Q (t)	2	2.5	3	3.5
	Load center distance	c (mm)	500	500	500	500
	Front overhang	x (mm)	445	445	465	465
Weight	Wheelbase	y (mm)	1652	1652	1722	1722
	Service weight	kg	4127	4227	4909	5251
	Axle load at full load, front/rear	kg	5149/978	6014/713	6886/1023	7789/962
Wheels	Axle load at no load, front/rear	kg	2035/2092	2084/2143	2248/2660	2318/2934
	Tire type	-	SE	SE	SE	SE
	Front tire size	-	23×9-10	23×9-10	23×10-12	315/45-12
	Rear tire size	-	18×7-8	18×7-8	200/50-10	200/50-10
	Number of wheels, front/rear (X = drive wheel)	-	2x/2	2x/2	2x/2	2x/2
Dimensions	Front track width	b10 (mm)	990	990	1017	1029
	Rear track width	b11 (mm)	965	965	1045	1045
	Mast tilt angle, forward/backward	α / β (°)	6/8	6/8	6/8	6/8
	Mast lowered height	h1 (mm)	2171	2171	2175	2175
	Free lift height (excluding fork thickness)	h2 (mm)	95	95	95	95
	Lifting height	h3 (mm)	3000	3000	3000	3000
	Mast maximum height during operation	h4 (mm)	4024	4024	4167	4167
	Overhead guard (cab) height	h6 (mm)	2195	2195	2195	2195
	Seat height from ground	h7 (mm)	1105	1105	1105	1105
	Tow pin height	h10 (mm)	600	600	600	600
	Overall length	l1 (mm)	3404	3404	3529	3529
	Overall length (without forks)	l2 (mm)	2360	2360	2466	2466
	Overall width	b1/b2 (mm)	1178/1178	1178/1178	1178/1250	1178/1330
	Fork size, thickness × width × length	s/e/l (mm)	40×100×1070-2A(EU)	40×100×1070-2A(EU)	45×125×1070-3A(EU)	45×125×1070-3A(EU)
			40×122×1070-2A(AS)	40×122×1070-2A(AS)	50×122×1070-3A(AS)	50×122×1070-3A(AS)
	Fork carriage width	b3 (mm)	1038	1038	1100	1100
	Fork carriage according to DIN 15173, class A, B	-	2A	2A	3A	3A
	Mast ground clearance	m1 (mm)	85	85	85	85
	Ground clearance at wheelbase center	m2 (mm)	133	133	133	133
	Right-angle stacking aisle width, pallet 1000×1200 (1200 across fork direction)	Ast (mm)	3837	3837	3935	3935
	Right-angle stacking aisle width, pallet 800×1200 (1200 along fork direction)	Ast (mm)	3637	3637	3735	3735
	Turning radius	Wa (mm)	1992	1992	2070	2070
	Minimum distance from steering centerline to vehicle centerline	b13 (mm)	222	222	247	247
Performance	Travel speed, laden/unladen	km/h	20/20	20/20	20/20	20/20
	Fork lifting speed, laden/unladen	m/s	0.52/0.64	0.52/0.64	0.4/0.54	0.4/0.54
	Fork lowering speed, laden/unladen	m/s	0.52	0.52	0.52	0.52
	Rated tractive force, laden/unladen (60 min)	kN	6.7/6.7	6.7/6.7	6.7/6.7	6.7/6.7
	Maximum tractive force (5 min), laden/unladen	kN	18/18	18/18	18/18	18/18
	Gradeability, laden/unladen (30 min)	%	20 / 32	18 / 30	18/26	18/24
	Maximum gradeability (5 min), laden/unladen	%	27 / 42	25/ 40	20/34	20/27
(Drive)electric forklift	Acceleration time, laden/unladen (first 15 m)	s	5.0 / 4.4	5.1 / 4.4	5.4/4.6	5.6/4.7
	Service brake	-	Hydraulic / Electromagnetic	Hydraulic / Electromagnetic	Hydraulic / Electromagnetic	Hydraulic / Electromagnetic
	Battery (voltage/capacity)	V/Ah	80V-460Ah/560/608Ah	80V-460Ah/560/608Ah	80V-460Ah/560/608Ah	80V-460Ah/560/608Ah
	Drive motor power	kW	2×9	2×9	2×9	2×9
	Lift motor power	kW	23.5	23.5	23.5	23.5
	Battery weight	kg	340/420/420	340/420/420	340/420/420	340/420/420
	Controller	-	Bosch Rexroth	Bosch Rexroth	Bosch Rexroth	Bosch Rexroth
Other	Operating pressure	bar	180	180	180	180
	Control type	-	Digital stepless speed control	Digital stepless speed control	Digital stepless speed control	Digital stepless speed control
	Attachment operating oil pressure	bar	160	160	160	160
	Attachment oil flow rate	L/min	40	40	40	40
	Noise level (CE)	-	75dB	75dB	75dB	75dB
	Vibration level (CE)	-	-	-	-	-

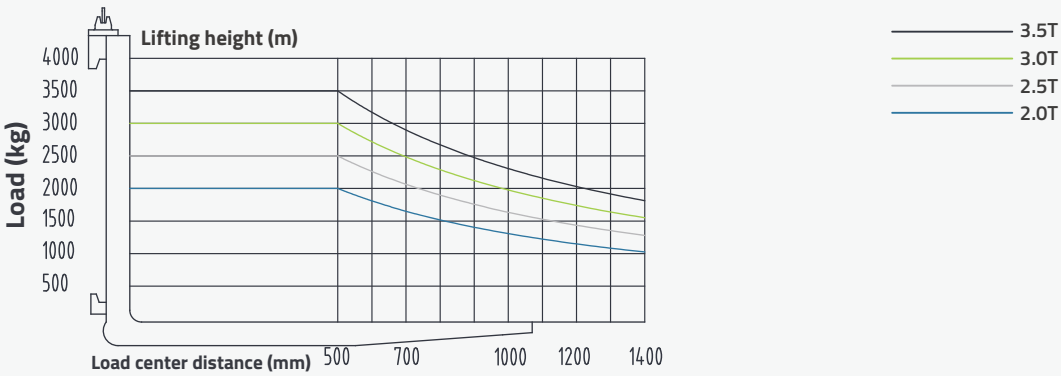
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Dimensional drawing



Load chart

FE20-35S



*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



Duplex wide-view mast 2-2.5T										
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
	2.0t Single tire	2.0t Dual tire	2.5t Single tire	2.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
3000	2000	-	2500	-	2171	3674	4024	135	135	6/8
3200	2000	-	2500	-	2271	3874	4224	135	135	6/8
3500	2000	-	2500	-	2421	4174	4524	135	135	6/8
3800	2000	-	2500	-	2571	4474	4824	135	135	6/8
4000	2000	-	2500	-	2721	4674	5024	135	135	3/8
4500	1800	-	2100	-	2971	5174	5524	135	135	6/8
5000	1600	-	1800	-	3221	5674	6024	135	135	6/8

Duplex full free-lift mast 2-2.5T										
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
	2.0t Single tire	2.0t Dual tire	2.5t Single tire	2.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
3000	2000	-	2500	-	2166	3654	4024	1416	1046	6/8
3300	2000	-	2500	-	2366	3954	4324	1616	1246	6/8
3600	2000	-	2500	-	2566	4254	4624	1816	1446	6/8
4000	2000	-	2500	-	2766	4654	5024	2016	1646	6/8

Triplex full free-lift mast 2-2.5T										
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
	2.0t Single tire	2.0t Dual tire	2.5t Single tire	2.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
4600	2000	2000	2300	2400	2171	5239	5624	1507	1137	6/6
4800	1950	2000	2250	2350	2271	5439	5924	1607	1237	6/6
5000	1850	1950	2150	2250	2371	5639	6024	1707	1337	6/6
5500	1750	1850	2050	2150	2571	6139	6524	1907	1537	3/6
6000	1550	1750	1850	2050	2771	6639	7024	2107	1737	3/6
6500	/	1550	/	1850	2871	7139	7524	2207	1837	3/6

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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
	3.0t Single tire	3.0t Dual tire	3.5t Single tire	3.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
3000	3000	3000	3500	3500	2180	3710	4167	145	145	6/8
3200	3000	3000	3500	3500	2280	3810	4267	145	145	6/8
3500	3000	3000	3500	3500	2430	3960	4417	145	145	6/8
3800	3000	3000	3500	3500	2580	4110	4567	145	145	6/8
4000	3000	3000	3200	3500	2680	4210	4667	145	145	3/6
4500	2600	3000	2850	3350	2930	4460	4917	145	145	3/6
5000	2100	2850	2200	2850	3180	4710	5167	145	145	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	3.0t Dual tire	3.5t Single tire	3.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
3000	3000	3000	3500	3500	2180	3740	4255	1445	930	6/8
3300	3000	3000	3500	3500	2380	3940	4455	1645	1130	6/8
3700	3000	3000	3500	3500	2580	4140	4655	1845	1330	6/8
4000	3000	3000	3500	3500	2780	4340	4855	2045	1530	3/6

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	3.0t Dual tire	3.5t Single tire	3.5t Dual tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward
mm	kg	kg	kg	kg	mm	mm	mm	mm	mm	°
4000	3000	3000	3500	3500	2008	4784	5241	1339	882	6/8
4300	3000	3000	3500	3500	2108	5084	5541	1439	982	6/8
4600	3000	3000	3050	3500	2208	5384	5841	1539	1082	6/8
4800	2900	3000	2900	3250	2278	5597	6054	1609	1152	6/8
5000	2750	3000	2750	3000	2408	5984	6441	1739	1282	6/8
5500	2300	2900	2300	2900	2608	6584	7041	1939	1482	3/6
6000	1650	2100	1650	2100	2808	7184	7641	2139	1682	3/6
6500	1400	2000	1400	2000	3008	7784	8241	2339	1882	3/3

PRODUCT HIGHLIGHTS

The 2–3.5t S series electric counterbalance forklift is built on a dedicated lithium-electric architecture. Standard equipment includes solid tires and a wide-view mast. The recessed battery layout lowers the overall center of gravity for safer travel. Dual-motor front-wheel drive delivers a tractive force of 18 kN, providing strong and consistent power output. The 80V high-efficiency electric drive platform offers three performance modes — Economy, Standard, and High-Efficiency — to suit various working conditions. With an IP54 protection rating for the whole machine and IP67 for key components, the forklift ensures high reliability. Its compact wheelbase and minimum turning radius of only 1.99 m deliver agile steering and excellent maneuverability.



Ergonomics

- Fingertip control system combined with a spacious cab interior for light and comfortable operation.
- Equipped with a 4.3-inch display screen for real-time key information readout.
- Ergonomically designed multi-directional adjustable seat for optimal driving posture.
- Spacious cab for easy entry and exit.



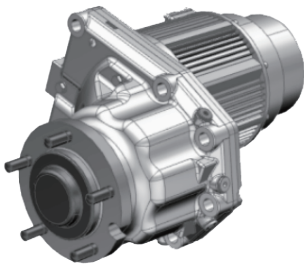
Load Handling Performance

- Lifting and lowering speeds exceed industry average levels by approximately 20%.
- Advanced steering control system ensures high precision and fast response.
- Dual-drive system paired with oversized steering axle enables a minimum turning radius of only 1.99 m.
- Maximum travel speed of 20 km/h for powerful performance and agile relocation.
- 80V electric drive platform with up to 48.6 kWh large-capacity lithium battery for extended operating endurance.



Operational Safety

- Low center of gravity design provides optimal working stability.
- A-pillar structure with special profiles effectively improves operator visibility.
- Cornering assist system automatically adjusts speed when entering and exiting turns.
- Automatic parking system engages and releases the parking brake automatically to prevent rolling.
- Optional active safety features include rearview camera/radar, overload protection, and speed limiting.
- Over 1,000 hours of rigorous durability testing on the entire machine, with over 80,000 mast cycle tests.



Maintenance and Serviceability

- Key components are robust and durable, with major components sourced from internationally leading brands.
- Optimized VCU layout for easy access and convenient maintenance.
- Supports remote diagnostics and periodic maintenance reminders.

FEATURES

Feature		FE20-35S
Working device	Duplex mast	●
	Other masts (3-6.5m)	○
	Load backrest	○
Whole vehicle	Solid tires (dual)	●
	Eco-friendly solid tires (dual)	○
	Smart color display instrument (with speed mode selection)	●
	USB port	●
	Cigarette lighter	○
	Card reader start function (electronic keypad lock)	○
	Standard overhead guard	●
	Cab	○
	PVC roof canopy	○
	Front and rear windshield (with/without wiper)	○
	Fan	○
	Air conditioner	○
	Heater	○
	Center convex mirror	●
	Left and right rearview mirrors	○
	Mechanical suspension seat (domestic)	●
	Mechanical suspension seat (Grammer)	○
	Air suspension seat (domestic / Grammer)	○
Electrical parts	Quick-change high-capacity lithium battery (REMA standard plug)	●
	Lithium battery side-extraction device	●
	LED combination front/rear lamps	●
	Alarm indicator light	●
	Blue/red spotlight (front / rear / front and rear)	○
	Blue/red three-way linear projection lamp	○
	LED strip clearance light	○
	LED rear work light	○
	Mast light	○
	Reverse buzzer	●
	Voice reverse annunciator	○
	FMS fleet intelligent management system	○
Hydraulic parts	Four-section valve	●
	Fingertip control	●
	Manual control	○
Safety features	Hydraulic oil cooler	○
	Synchronized steering	●
	Seatbelt detection	●
	OPS system	●
	Cornering speed limit	●
	Tilt detection	●
	Automatic leveling	●
	End cushioning	○
	Fork cushioning	○
	Reverse radar	○
	Reverse camera	○
	360° surround-view system	○
	Dry powder fire extinguisher (1/2/3/4 kg)	○
	Automatic parking	●
	Mechanical brake	○
	Mast height detection	○
	Lift stage detection	○
	Overload alarm	○
Attachment	Sideshifter	○
	Sideshift and fork positioner	○
	Other fork lengths	○
	Other attachments	○

Standard ● Optional ○