



ZOOMLION (ANHUI) INTELLIGENT LOGISTICS EQUIPMENT CO., LTD
Address: No. 2377, Middle Section of Hezhou Avenue, Laoqiao Town, Modern Industrial Park, Zhengpu Port New Area, Ma'anshan City, Anhui Province, China
Email: mhe@zoomlion.com Web: www.zoomlion-access.com
Tel: 0553-3020307



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



Rated Load Capacity
1.6 T – 2.0 T

S Series

FET16 - 20S

ZOOMLION | Three-wheel Electric Forklift

Three-wheel Electric Forklift
ZOOMLION MATERIAL HANDLING

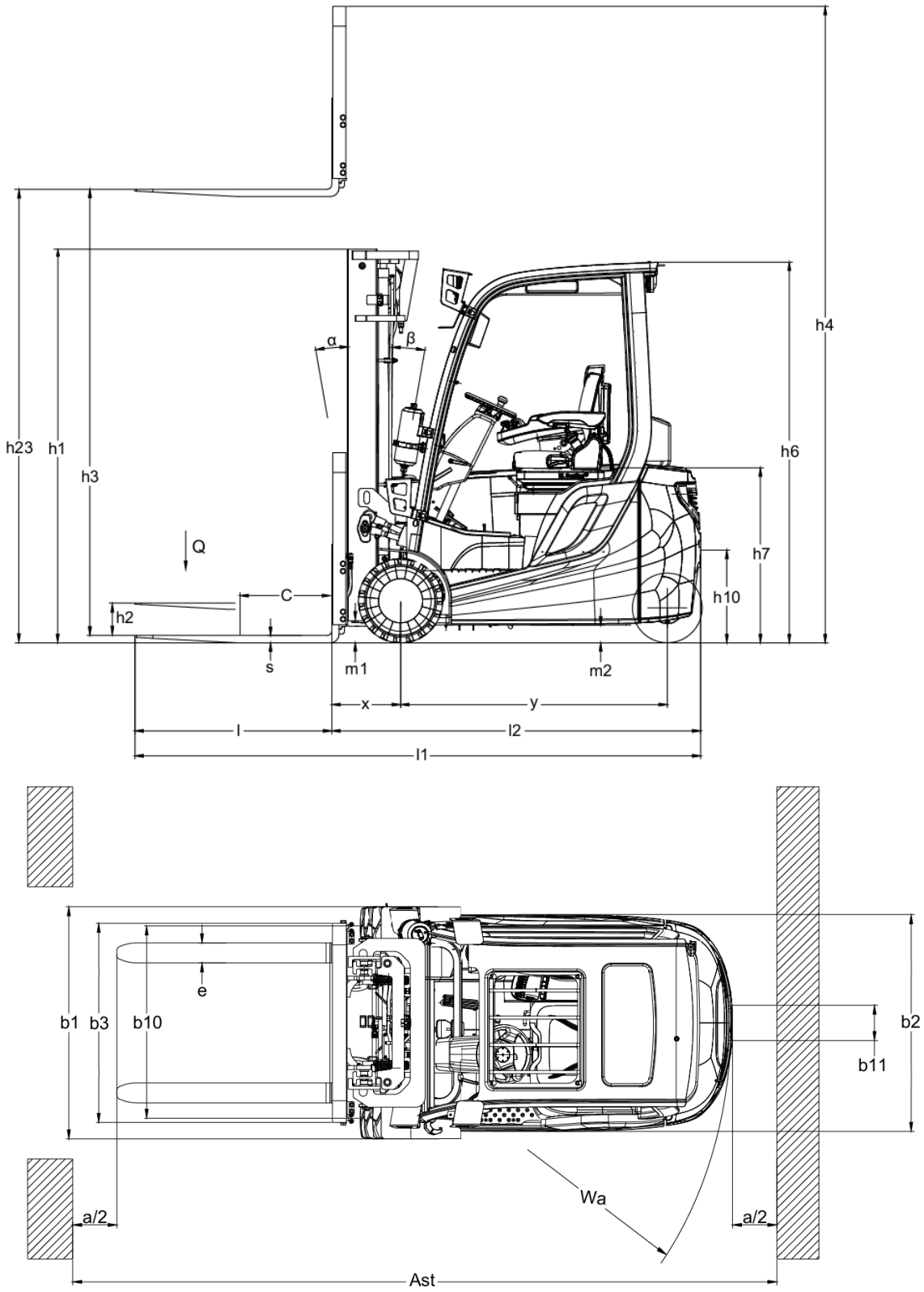
SPECIFICATIONS

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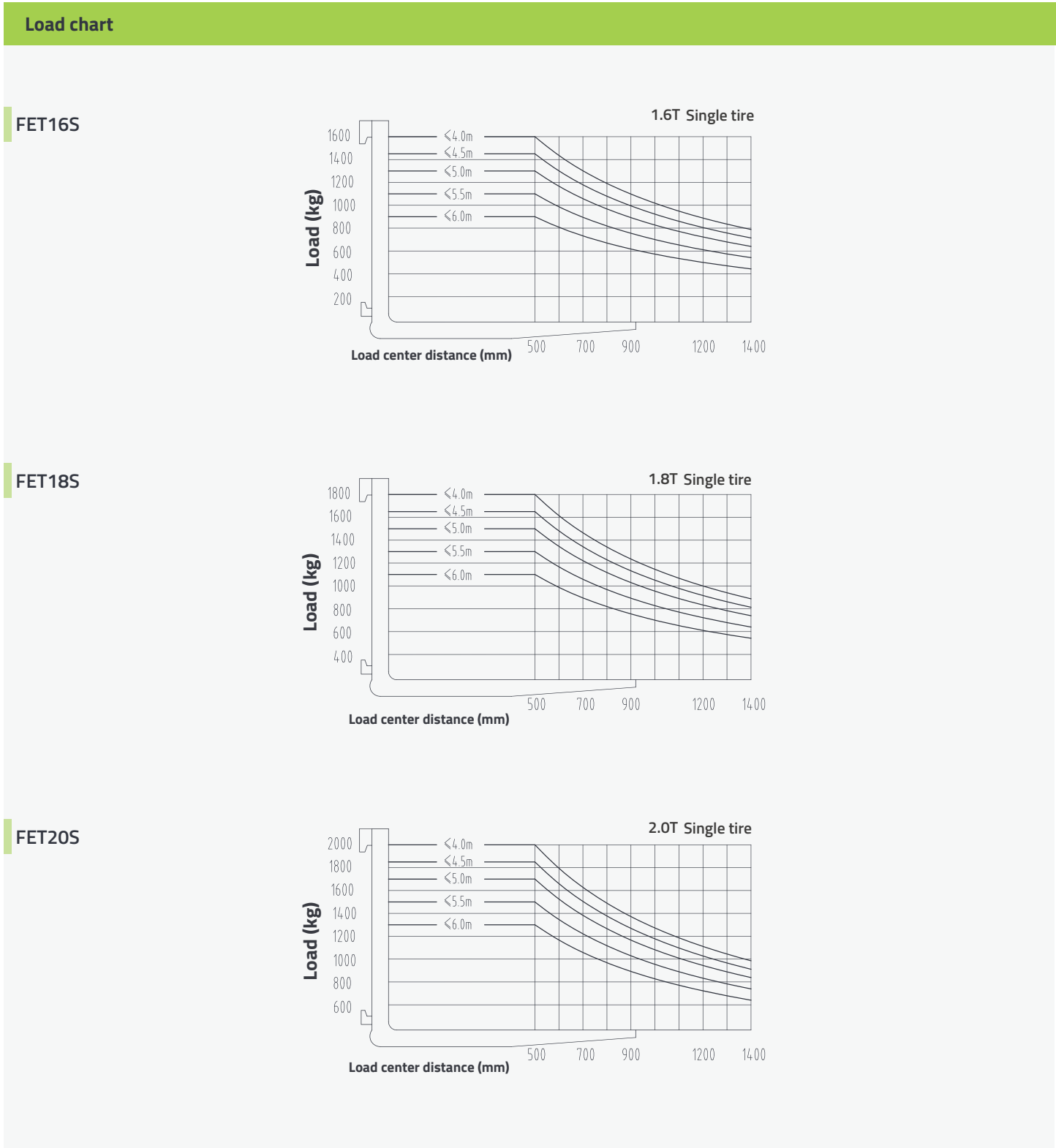
Parameter		Unit	FET16S	FET18S	FET20S
Identification	Power type (electric, diesel, gasoline, LPG, grid power)	-	Electric	Electric	Electric
	Operation type (seated, stand-on)	-	Seated	Seated	Seated
	Rated load capacity	Q (t)	1.6	1.8	2
	Load center distance	c(mm)	500	500	500
	Front overhang	x(mm)	374	374	374
	Wheelbase	y(mm)	1450	1450	1450
Weight	Service weight	kg	3070	3170	3400
	Axle load at full load, front/rear	kg	4175/495	4375/595	4900/500
	Axle load at no load, front/rear	kg	1470/1600	1520/1650	1600/1800
Wheels	Tire type	-	Solid tire	Solid tire	Solid tire
	Front tire size	-	18×7-8	18×7-8	200/50-10
	Rear tire size	-	15×4.5-8	140/55-9	140/55-9
	Number of wheels, front/rear (X = drive wheel)	-	2×/2	2×/2	2×/2
	Front track width	b10(mm)	926	926	966
	Rear track width	b11(mm)	172	172	172
Dimensions	Mast tilt angle, forward/rearward	(α/β/°)	5/7	5/7	5/7
	Mast lowered height	h1(mm)	2140	2140	2140
	Free lift height	h2(mm)	90	90	90
	Lifting height	h23(mm)	2960	2960	2960
	Mast maximum height during operation	h3(mm)	3000	3000	3000
	Overhead guard (cab) height	h4(mm)	3994	3994	3994
	Seat height from ground	h6(mm)	2070	2070	2070
	Tow pin height	h7(mm)	1035	1035	1035
	Overall length	h10(mm)	519	519	519
	Overall length (without forks)	l1(mm)	2866	2926	2926
	Overall width	l2(mm)	1946	2006	2006
	Fork size, thickness × width × length	b1/b2(mm)	1083/1100	1083/1100	1083/1160
	Carriage width	s/e/l(mm)	40/100/920	40/100/920	40/100/920
	Fork carriage according to DIN 15173	b3(mm)	980	980	980
	Mast ground clearance	-	IIA	IIA	IIA
	Ground clearance at wheelbase center	m1(mm)	90	90	90
	Right-angle stacking aisle width, pallet 1000×1200 (1200 across fork direction)	m2(mm)	97	97	97
	Right-angle stacking aisle width, pallet 800×1200 (1200 along fork direction)	Ast(mm)	3307	3337	3337
	Turning radius	Ast(mm)	3402	3462	3462
	Minimum distance from steering centerline to vehicle centerline	Wa(mm)	1572	1632	1632
Performance	Travel speed, laden/unladen	km/h	18/18	18/18	18/18
	Fork lifting speed, laden/unladen	m/s	0.30/0.35	0.30/0.35	0.30/0.35
	Fork lowering speed, laden/unladen	m/s	0.5/0.45	0.5/0.45	0.5/0.45
	Rated tractive force, laden/unladen (60 min)	kN	3/3	3.5/3.5	4/4
	Maximum tractive force (5 min), laden/unladen	kN	9/9	10/10	12/12
	Gradeability, laden/unladen (30 min)	%	10/15	13/15	10/15
	Maximum gradeability (5 min), laden/unladen	%	20/25	20/25	20/25
	Acceleration time, laden/unladen (first 15 m)	s	5.5/4.7	5.5/4.7	5.5/4.7
(Drive) electric forklift	Service brake	-	Electromagnetic/Mechanical	Electromagnetic/Mechanical	Electromagnetic/Mechanical
	Battery (voltage/capacity)	V/Ah	76.8/304	76.8/304	80/314
	Drive motor power	kW	2×5	2×5	2×5
	Lift motor power	kW	13	13	13
	Battery weight	kg	200	200	240
	Controller	-	Megmeet + Rexroth	Megmeet + Rexroth	Megmeet + Rexroth
Other	Operating pressure	bar	200	200	200
	Noise level (CE)	-	75dB	75dB	75dB

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Dimensional drawing



SPECIFICATIONS



*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									
Mast maximum lifting height	1.6T Lifting capacity 500 mm load center distance	1.8T Lifting capacity 500 mm load center distance	2.0T 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
	Single tire	Single tire	Single tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward °
mm	kg	kg	kg	mm	mm	mm	mm	mm	
2700	1600	1800	2000	1990	3260	3694	90	90	5/5
3000	1600	1800	2000	2140	3560	3994	90	90	5/7
3200	1600	1800	2000	2240	3760	4194	90	90	5/7
3500	1600	1800	2000	2390	4060	4494	90	90	5/7
3700	1600	1800	2000	2490	4260	4694	90	90	5/7
4000	1600	1800	2000	2640	4560	4994	90	90	5/5
4500	1450	1650	1850	2890	5060	5494	90	90	5/5
5000	1300	1500	1700	3190	5610	5994	90	90	5/5
5500	1100	1300	1500	3440	6110	6494	90	90	5/5
6000	900	1100	1300	3690	6610	6994	90	90	5/5

Triplex full free-lift mast									
Mast maximum lifting height	1.6T Lifting capacity 500 mm load center distance	1.8T Lifting capacity 500 mm load center distance	2.0T 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
	Single tire	Single tire	Single tire		Without load backrest	With standard load backrest	Without load backrest	With standard load backrest	Forward /backward °
mm	kg	kg	kg	mm	mm	mm	mm	mm	
4000	1600	1800	2000	1990	4668	5104	1374	956	5/5
4300	1500	1700	1900	2090	4968	5404	1474	1056	5/7
4500	1450	1650	1850	2140	5118	5554	1524	1106	5/7
4800	1350	1550	1750	2240	5418	5854	1624	1206	5/7
5000	1300	1500	1700	2290	5568	6004	1674	1256	5/7
5500	1100	1300	1500	2490	6168	6604	1874	1456	5/5
6000	900	1100	1300	2640	6618	7054	2024	1606	5/5
6500	800	900	1000	2790	7068	7504	2174	1756	5/5

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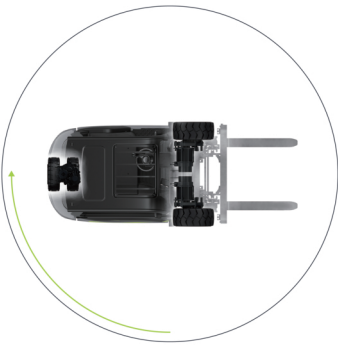
PRODUCT HIGHLIGHTS

The 1.6–2t S series three-wheel electric counterbalance forklift is built on a dedicated lithium battery architecture. It comes standard with solid tires and a wide-view mast. The recessed battery layout lowers the machine's center of gravity for safer travel. Dual-motor front-wheel drive delivers a tractive force of 12,000 N, providing consistently stable power output. The 80V high-efficiency electric drive platform offers three performance modes—Economy, Standard, and High-Efficiency—to suit various operating conditions. The machine achieves an overall protection rating of IP54, with key components rated at IP67, ensuring high reliability. The compact wheelbase and a minimum turning radius of only 1.63 m enable agile steering and excellent maneuverability.



Ergonomic Design

- Steer-by-wire system combined with fingertip controls ensures light and comfortable operation.
- Equipped with a 4.3-inch display for real-time monitoring of key information.
- Ergonomic multi-directional adjustable seat ensures optimal riding posture.
- Spacious cab design for easy entry and exit.



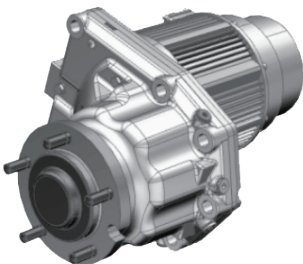
Load Handling Performance

- Lifting and lowering speeds exceed industry average levels by approximately 20%.
- Advanced steering control system ensures high precision and fast response.
- The three-wheel configuration provides exceptional maneuverability in tight spaces, with a minimum turning radius of only 1.63m.
- Maximum travel speed of 18km/h meets high-intensity transfer demands.
- 80V electric drive platform with up to 24.3kWh 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 as commanded to prevent rolling.
- Optional active safety features include rearview camera/radar, overload protection, and speed limiting, etc.



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		FET16-20S
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	○
Hydraulic parts	FMS fleet intelligent management system	○
	Four-section valve	●
	Fingertip control	●
Safety features	Manual control	○
	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	○
Others	Lift stage detection	○
	Overload alarm	○
	Sideshifter	○
	Sideshift and fork positioner	○
	Other fork lengths	○
	Other attachments	○

Standard ● Optional ○