

4 Wheel Electric Forklift



Model:
FB16R
FB20R
FB25R
FB30R
FB35R

Conforms to EN ISO3691-1
EN1175
EN16307-1
Based on Directive 2006/42/EC
2006/95/EC



Advantages:

SAFETY AND STABILITY

- The most popular H type driving axle optimizes the structure layout and improves the efficiency.
- High power and large torque AC driving motor, large diameter body to export larger torque, heat radiating groove reserved for better heat exchange in case of extra-long-time use.
- Multifunctional display with using time, fault code, battery status, forklift running information.
- AC driving motor without brush, free of maintenance; low electric current, silent driving.
- Low gravity center thanks to relocated battery, greatly reinforcing steering stability.
- Steering circuit preference, to ensure safety in every turn when steering and lifting in the same time, and to save energy.
- Dual-controller design, one driving controller, the other controls steering and lifting.
- Metal housing for better protection.
- Full LED light.

SERVICE ABILITY

- Easy maintained controller and steering potentiometer.
- Brushless lifting and driving motor, reduced cost of ownership; external encoder, easy to replace and service.
- Over discharge protecting system: while the battery discharges less than 20%, the instrument warning light will turn on.
- Braking oil cup installed on the instrument panel, convenient to check and add braking oil.

ERGONOMICS

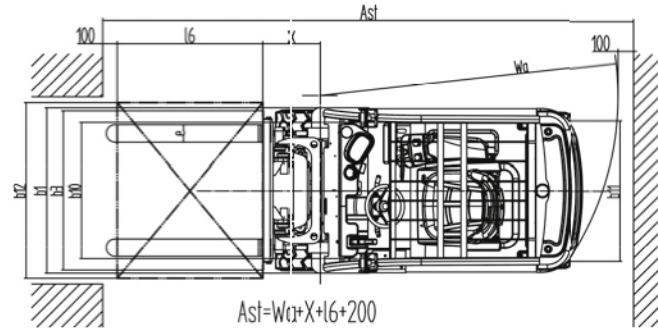
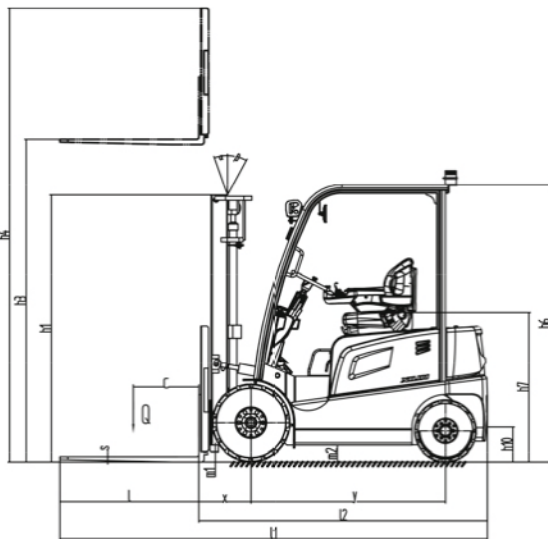
- Optimized structure creates a large and comfortable operating room.
- Adjustable steering wheel column, the driver can adjust the position according to his need.
- Integrated light switch and steering wheel.
- Clear and wide view mast with good visibility.
- Intelligent mast collapse buffering.

OPTIONAL

- Side-way battery box
- Electromagnetic valve
- Shock-absorbing chair, with power disconnect function
- Dual-front-wheels
- Adjustable lifting motor speed system
- Cold storage application
- Lithium battery

	1.2	Model	FB16R	FB20R	FB25R	FB30R-E	FB30R	FB35R
General Information	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric	Electric	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	1600	2000	2500	3000	3500
	1.6	Load centre distance	c (mm)	500	500	500	500	500
Weight	1.8	Load distance, centre of drive axle to fork	x (mm)	395	395	445	460	460
	1.9	Wheelbase	y (mm)	1360	1480	1480	1640	1640
	2.1	Service weight	kg	3100	3500	4150	4500	4800
	2.2	Axle loading, laden front/rear	kg	3870/730	4815/685	5857/793	6650/850	6950/850
Tyres/Chassis	2.3	Axle loading, unladen front/rear	kg	1400/1700	1635/1865	1859/2291	1900/2600	2200/2600
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	solid rubber
	3.2	Tyre size, front		6.50-10	23X9-10	23X9-10	23X9-10	23X10-12
	3.3	Tyre size, rear		5.00-8	5.00-8	18X7-8	18X7-8	18X7-8
Dimensions	3.5	Wheels, number front/rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Tread, front	b10 (mm)	930	930	970	1040	1040
	3.7	Tread, rear	b11 (mm)	920	920	950	950	950
	4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	5/10	5/10	5/10	5/10	5/10
Performance Data	4.2	Height, mast lowered	h1 (mm)	2015	2015	2050	2160	2160
	4.4	Lift	h3 (mm)	3000-6500	3000-6500	3000-6500	3000-6500	3000-6500
	4.5	Height, mast extended	h4 (mm)	4050	4050	4050	4270	4270
	4.7	Height of overhead guard (cabin)	h6 (mm)	2100	2100	2100	2160	2160
Motors	4.8	Seat height relating to SIP/stand height	h7 (mm)	1040	1040	1040	1070	1070
	4.12	Coupling height	h10 (mm)	260	260	260	260	260
	4.19	Overall length	l1 (mm)	3000	3270	3350	3550	3620
	4.20	Length to face of forks	l2 (mm)	2080	2200	2280	2470	2540
Additional Data	4.21	Overall width	b1/b2 (mm)	1130	1130	1200	1302	1302
	4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	40/100/1070	40/120/1070	40/120/1070	45/125/1070	45/125/1070
	4.24	Fork-carriage width	b3 (mm)	1088	1088	1160	1220	1220
	4.31	Ground clearance, laden, below mast	m1 (mm)	110	110	110	115	115
Performance Data	4.32	Ground clearance, centre of wheelbase	m2 (mm)	115	115	115	120	120
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3500	3600	3700	3900	3960
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	3700	3800	3900	4100	4160
	4.35	Turning radius	Wa (mm)	1980	2080	2180	2280	2340
Motors	5.1	Travel speed, laden/unladen	km/h	12/13	12/13	12/13	10/11	12/13
	5.2	Lift speed, laden/unladen	m/s	0.26/0.35	0.28/0.32	0.26/0.3	0.20/0.35	0.21/0.35
	5.3	Lowering speed, laden/unladen	m/s	0.36/0.42	0.36/0.42	0.36/0.42	0.4/0.40	0.4/0.40
	5.8	Max.Gradeability, laden/unladen	%	15/20	15/20	13/14	13/14	13/14
Performance Data	5.10	Service brake		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
	6.1	Drive motor rating S2 60 min	kW	7(AC)	8(AC)	11(AC)	11(AC)	14(AC)
	6.2	Lift motor rating at S3 15%	kW	10(AC)	10.6(AC)	12(AC)	12(AC)	13.5(AC)
	6.4	Battery voltage/nominal capacity K5	(V _i)(Ah)	48/375(420.480)	48/450(500.560.630)	48/500(560.630)	48/560(630)	80/400(450.500)
Additional Data	6.5	Battery weight	kg	600/650/720	680/760/820/1055	760/820/1055	820/1055	1100/1270/1383
	10.7	Sound pressure level at the driver's seat	dB (A)	68	68	68	68	68

Remark: Electric controller, Chinese controller as standard, INMOTION and CURTIS as option.



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Forklift Mast



FB16R/FB20R Mast Specification

Type	Lifting Height(H3)	Lowered Height(H1)	Mast Extended Height(H4)		Free Lift Height(H2)		Mast Tilt Degree	Capacity		
			With backrest	Without backrest	With backrest	Without backrest		Forward/Backward	c = 500mm without sideshift	c = 500mm without sideshift
	mm	mm	mm	mm	mm	mm	a / b (°)	Kg(FB16R)	Kg(FB20R)	
2-stage mast wide view	2000	1510	3000	2570	0	0	5/10	1600	2000	
	2500	1720	3500	3070	0	0	5/10	1600	2000	
	2700	1695	3700	3270	0	0	5/10	1600	2000	
	3000	2010	4000	3570	0	0	5/10	1600	2000	
	3300	2160	4300	3870	0	0	5/10	1600	2000	
	3500	2260	4500	4070	0	0	5/10	1600	2000	
	3700	2360	4700	4270	0	0	5/10	1550	1950	
	4000	2510	5000	4570	0	0	5/10	1500	1900	
	4500	2760	5500	5070	0	0	5/6	1300	1650	
	4800	2910	5800	5370	0	0	5/6	1150	1550	
	5000	3010	6000	5570	0	0	5/6	1050	1450	
	2 stage mast with full free lifting	2000	1510	3000	2570	510	940	5/10	1600	2000
2500		1850	3500	3070	850	1280	5/10	1600	2000	
3000		2100	4000	3570	1100	1530	5/10	1600	2000	
3300		2250	4300	3870	1250	1680	5/10	1600	2000	
3500		2400	4500	4070	1400	1830	5/10	1600	2000	
3700		2500	4700	4270	1500	1930	5/10	1550	1950	
4000		2650	5000	4570	1650	2080	5/10	1500	1900	
4500		1900	5000	4570	900	1330	5/6	1500	1900	
3 stage mast with full free lifting	4500	2110	5500	5070	1110	1540	5/6	1300	1650	
	4800	2210	5800	5370	1210	1640	5/6	1150	1550	
	5000	2270	6000	5570	1270	1700	5/6	1050	1450	
	5600	2470	6600	6170	1470	1900	5/6	700	1050	
	6000	2610	7000	6570	1610	2040	5/6	550	800	
	6200	2670	7200	6770	1670	2100	5/6	450	600	
	6500	2770	7500	7070	1770	2200	5/6	300	550	
	7000	2940	8000	7570	1940	2370	5/6	100	350	
	Subtract 100kg with integral sideshift and 200kg with normal sideshift									

FB25R Mast Specification

Type	Lifting Height(H3)	Lowered Height(H1)	Mast Extended Height(H4)		Free Lift Height(H2)		Mast Tilt Degree	Capacity	
			With backrest	Without backrest	With backrest	Without backrest	Forward/Backward	c= 500mm without sideshift	
2-stage mast wide view	mm	mm	mm	mm	mm	mm	a / b (°)	Kg	
	2000	1550	3000	2505	0	0	5/10	2500	
	2500	1800	3500	3005	0	0	5/10	2500	
	2700	1900	3700	3205	0	0	5/10	2500	
	3000	2050	4000	3505	0	0	5/10	2500	
	3300	2200	4300	3805	0	0	5/10	2500	
	3500	2300	4500	4005	0	0	5/10	2500	
	3700	2400	4700	4205	0	0	5/10	2400	
	4000	2600	5000	4505	0	0	5/10	2300	
	4500	2800	5500	5005	0	0	5/6	1950	
	4800	2950	5800	5305	0	0	5/6	1750	
	5000	3050	6000	5505	0	0	5/6	1650	
	5500	3300	6500	6005	0	0	5/6	1200	
	6000	3550	7000	6505	0	0	5/6	850	
	2 stage mast with full free lifting	2000	1660	3000	2616	660	1040	5/10	2500
		2500	1910	3500	3116	910	1290	5/10	2500
3000		2160	4000	3616	1160	1540	5/10	2500	
3300		2310	4300	3916	1310	1690	5/10	2500	
3500		2460	4500	4216	1460	1744	5/10	2500	
3700		2510	4700	4316	1510	1890	5/10	2400	
4000		2660	5000	4616	1660	2050	5/10	2300	
3 stage mast with full free lifting	4000	1990	5000	4663	990	1370	5/10	2300	
	4500	2160	5500	5170	1160	1590	5/6	1950	
	4800	2240	5800	5410	1240	1670	5/6	1750	
	5000	2310	6000	5620	1310	1744	5/6	1650	
	5600	2525	6600	6265	1525	1880	5/6	1200	
	6000	2710	7000	6720	1710	2050	5/6	850	
	6200	2777	7200	6921	1777	2116	5/6	800	
	6500	2880	7500	7230	1880	2190	5/6	700	
	7000	3090	8000	7760	2090	2376	5/6	350	
	Subtract 100kg with integral sideshift and 200kg with normal sideshift								

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FB30R/FB35R/FB30R-II Li/FB35R-II Li Mast Specification

Type	Lifting Height(H3)	Lowered Height(H1)	Mast Extended Height(H4)		Free Lift Height(H2)	
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