

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
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
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	5200
2.2	Axle loading, laden front/rear	kg	3870/730	4815/685	5857/793	6650/850	6950/850
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
3.2	Tyre size, front		6.50-10	6.50-10	23X9-10	23X9-10	23X10-12
3.3	Tyre size, rear		5.00-8	5.00-8	18X7-8	18X7-8	18X7-8
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
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)	4067	4050	4050	4270	4290
4.7	Height of overhead guard (cabin)	h6 (mm)	2100	2100	2100	2160	2160
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
4.21	Overall width	b1/b2 (mm)	1130	1130	1200	1302	1302
4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	40/100/920	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)	105	110	110	115	115
4.32	Ground clearance, centre of wheelbase	m2 (mm)	115	115	110	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
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	0.25/0.35
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
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)/(Ah) or kWh	48/375(420,480)	48/450(500,560,630)	48/500(560,630)	48/560(630)	80/400(450,500)
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 ACM as standard, INMOTION and CURTIS as option.

FB16R Lithium battery 250AH-400AH

FB20R Lithium battery 250AH-525AH

\* Option: Li-ion

FB25R Lithium battery 350AH-525AH

FB30R Lithium battery 250AH-400AH

FB35R Lithium battery 250AH-400AH

