

# Main Truck Specifications

Type	1	Model		(J-)FRB15-9LW	(J-)FRHB15-9LW	(J-)FRB18-9LW	(J-)FRHB18-9LW		
	2	Capacity	kg	1500	1500	1800	1800		
	3	Load Center	mm	500	500	500	500		
	4	Motor Type		AC	AC	AC	AC		
Dimensions		Mast		VFH430	VFH500	VFH400	VFH500		
	5	Lift Height	mm	4300	5000	4000	5000		
	6	Free Lift	mm	1095	1345	1000	1350		
	7	Tilt Angle	Down/Up	deg	3/5	3/5	3/5	3/5	
	8	Fork Size	Length/Width/Thickness	mm	1070/100/35	1070/100/35	1070/100/38	1070/100/38	
	9	Fork Setting	Min. / Max.	mm	225 - 815	225 - 815	225 - 815	225 - 815	
	10	Length	Overall Length	mm	2295	2315	2320	2370	
	11		Frame	mm	1705	1885	1885	1935	
	12		To Fork Face	mm	1225	1245	1250	1300	
	13	Reach Stroke		mm	525	685	685	685	
	14	Overall Width	Overall Width	mm	1175	1175	1175	1175	
	15		Between Legs	mm	840	840	840	840	
	16		Frame	mm	1090	1090	1090	1090	
	17	Height	Leg	mm	275	275	275	275	
	18		Mast Lowered Height	mm	1995	2245	1895	2245	
	19		Mast Extended Height	mm	5200	5900	4900	5900	
	20		Overhead Guard Height	mm	2220	2220	2220	2220	
	21	Front Overhang	Reach Out	mm	185	185	190	190	
	22	Floor Height		mm	265	265	265	265	
	23	Minimum Turning Radius		mm	1580	1760	1760	1810	
	24	Right Angle Turning Aisle Width	1100 x 1100 Pallet (1)	mm	1890	1970	1970	1995	
	25	Right Angle Stacking Aisle Width	1100 x 1100 Pallet (1)	mm	2720	2775	2775	2830	
	Performance	26	Travel Speed	Laden/Unladen	km/h	9.5/10.5	9.5/10.5	9.5/10.5	9.5/10.5
		27	Lift Speed	Laden/Unladen	mm/s	290/500	290/500	280/500	280/500
		28	Max. Gradeability	3 min. rating 1.5km/h and over	%	10/14.3	10/14.3	10/14.3	10/14.3
	29	Service Weight	With Standard Battery	kg	2310	2500	2440	2570	
Wheel and Tire	30	Number	Load/Drive/Caster		2/1/2	2/1/2	2/1/2	2/1/2	
	31	Tire	Load	mm	Φ 254 x 114 (Urethane)	Φ 254 x 114 (Urethane)	Φ 254 x 114 (Urethane)	Φ 254 x 114 (Urethane)	
	32		Drive	mm	Φ 330 x 145 (Rubber)	Φ 330 x 145 (Rubber)	Φ 330 x 145 (Rubber)	Φ 330 x 145 (Rubber)	
	33		Caster	mm	Φ 178 x 73 (Rubber)	Φ 178 x 73 (Rubber)	Φ 178 x 73 (Rubber)	Φ 178 x 73 (Rubber)	
	34	Wheelbase		mm	1335	1515	1515	1515	
	35	Tread	Front	mm	1065	1065	1065	1065	
	36		Rear	mm	640	640	640	640	
	37	Road Clearance	Center of Wheelbase	mm	80	80	80	80	
	38	Service Brake	Mech./Hydr./Electr./Pneum.		Mech.	Mech.	Mech.	Mech.	
	39	Parking Brake	Foot/Hand/Deadman		Deadman	Deadman	Deadman	Deadman	
Drive Unit and Control	40	Battery	Voltage/Capacity ( 5 hr. rating)	V/Ah	48/280	48/280	48/280	48/280	
	41		Mass (w/case) (Min./Max.)	kg	470 (450/750)	470 (450/750)	470 (450/750)	470 (450/750)	
	42	Drive Motor	60 min. rating	kW	4.3	4.3	4.3	4.3	
	43		Control		Inverter	Inverter	Inverter	Inverter	
	44	Hydraulic Motor	5 min. rating	kW	8.8	8.8	8.8	8.8	
	45		Control		Inverter	Inverter	Inverter	Inverter	
	46	Power Steering Motor	60 min. rating	kW	0.3	0.3	0.3	0.3	
	47		Control		Chopper	Chopper	Chopper	Chopper	
	48	Charger (Option)	Type (Built-in/Stationary)		Stationary	Stationary	Stationary	Stationary	
	49		Charging Method		Automatic	Automatic	Automatic	Automatic	
	50		Input	V	3/2000	3/2000	3/2000	3/2000	
	51		Capacity	kVA	4.7	4.7	4.7	4.7	

(1) With 200mm clearance

# Main Truck Specifications

Type	1	Model		(J-)FRB20-9LW	(J-)FRHB20-9LW	(J-)FRB25-9LW	(J-)FRHB25-9LW		
	2	Capacity	kg	2000	2000	2500	2500		
	3	Load Center	mm	500	500	500	500		
	4	Motor Type		AC	AC	AC	AC		
Dimensions	5	Lift Height	mm	5000	5500	5000	5500		
	6	Free Lift	mm	1350	1520	1350	1520		
	7	Tilt Angle	Down/Up	deg	3/5	3/5	3/5	3/5	
	8	Fork Size	Length/Width/Thickness	mm	1070/122/40	1070/122/40	1070/122/40	1070/122/40	
	9	Fork Setting	Min. / Max.	mm	285 - 765	285 - 765	285 - 765	285 - 765	
	10	Length	Overall Length	mm	2410	2410	2410	2480	
	11		Frame	mm	1915	2085	2085	2155	
	12		To Fork Face	mm	1340	1340	1340	1410	
	13	Reach Stroke		mm	615	785	785	785	
	14	Overall Width	Overall Width	mm	1285	1285	1285	1285	
	15		Between Legs	mm	915	915	915	915	
	16		Frame	mm	1190	1190	1190	1190	
	17	Height	Leg	mm	290	290	290	290	
	18		Mast Lowered Height	mm	2300	2470	2300	2470	
	19		Mast Extended Height	mm	5950	6450	5950	6450	
	20		Overhead Guard Height	mm	2280	2280	2280	2280	
	21	Front Overhang	Reach Out	mm	190	190	190	190	
	22	Floor Height		mm	315	315	315	315	
	23	Minimum Turning Radius		mm	1785	1955	1955	2020	
	24	Right Angle Turning Aisle Width	1100 x 1100 Pallet (1)	mm	2055	2140	2140	2175	
	25	Right Angle Stacking Aisle Width	1100 x 1100 Pallet (1)	mm	2860	2900	2900	2970	
	Performance	26	Travel Speed	Laden/Unladen	km/h	10/11.5	10/11.5	9.5/11.5	9.5/11.5
		27	Lift Speed	Laden/Unladen	mm/s	270/460	270/460	250/460	250/460
		28	Max. Gradeability	3 min. rating 1.5km/h and over	%	10/14.3	10/14.3	10/14.3	10/14.3
	Wheel and Tire	29	Service Weight	With Standard Battery	kg	3080	3270	3230	3300
30		Number	Load/Drive/Caster		2/1/2	2/1/2	2/1/2	2/1/2	
31		Tire	Load	mm	Φ 267 x 114 (Urethane)	Φ 267 x 114 (Urethane)	Φ 267 x 114 (Urethane)	Φ 267 x 114 (Urethane)	
32			Drive	mm	Φ 380 x 165 (Rubber)	Φ 380 x 165 (Rubber)	Φ 380 x 165 (Rubber)	Φ 380 x 165 (Rubber)	
33			Caster	mm	Φ 204 x 76 (Rubber)	Φ 204 x 76 (Rubber)	Φ 204 x 76 (Rubber)	Φ 204 x 76 (Rubber)	
34		Wheelbase		mm	1515	1685	1685	1755	
35		Tread	Front	mm	1170	1170	1170	1170	
36			Rear	mm	695	695	695	695	
37		Road Clearance	Center of Wheelbase	mm	78	78	78	78	
38		Service Brake	Mech./Hydr./Electr./Pneum.		Mech.	Mech.	Mech.	Mech.	
39	Parking Brake	Foot/Hand/Deadman		Deadman	Deadman	Deadman	Deadman		
Drive Unit and Control	40	Battery	Voltage/Capacity ( 5 hr. rating)	V/Ah	48/320	48/320	48/320	48/320	
	41		Mass (w/case) (Min./Max.)	kg	550 (525/900)	550 (525/900)	550 (525/900)	550 (525/900)	
	42	Drive Motor	60 min. rating	kW	5.0	5.0	5.0	5.0	
	43		Control		Inverter	Inverter	Inverter	Inverter	
	44	Hydraulic Motor	5 min. rating	kW	11.0	11.0	11.0	11.0	
	45		Control		Inverter	Inverter	Inverter	Inverter	
	46	Power Steering Motor	60 min. rating	kW	0.3	0.3	0.3	0.3	
	47		Control		Chopper	Chopper	Chopper	Chopper	
	48	Charger (Option)	Type (Built-in/Stationary)		Stationary	Stationary	Stationary	Stationary	
	49		Charging Method		Automatic	Automatic	Automatic	Automatic	
	50		Input	V	3/200	3/200	3/200	3/200	
	51		Capacity	kVA	4.7	4.7	4.7	4.7	

(1) With 200mm clearance

# Main Truck Specifications

				J-FRB30-9LW	J-FRHB30-9LW	
Type	1	Model				
	2	Capacity		kg	3000	
	3	Load Center		mm	500	
	4	Motor Type			AC	
Dimensions	5	Lift Height		mm	4500	
	6	Free Lift		mm	1150	
	7	Tilt Angle	Down/Up	deg	3/5	
	8	Fork Size	Length/Width/Thickness	mm	1070/122/44	
	9	Fork Setting	Min. / Max.	mm	285 - 765	
	10	Length	Overall Length	mm	2475	
	11		Frame	mm	2185	
	12		To Fork Face	mm	1405	
	13	Reach Stroke		mm	820	
	14	Overall Width	Overall Width	mm	1350	
	15		Between Legs	mm	915	
	16		Frame	mm	1190	
	17	Height	Leg	mm	295	
	18		Mast Lowered Height	mm	2200	
	19		Mast Extended Height	mm	5550	
	20		Overhead Guard Height	mm	2280	
	21	Front Overhang	Reach Out	mm	190	
	22	Floor Height		mm	315	
	23	Minimum Turning Radius		mm	2050	
	24	Right Angle Turning Aisle Width	1100 x 1100 Pallet (1)	mm	2225	
	25	Right Angle Stacking Aisle Width	1100 x 1100 Pallet (1)	mm	2980	
	Performance	26	Travel Speed	Laden/Unladen	km/h	9.0/11.0
		27	Lift Speed	Laden/Unladen	mm/s	210/380
		28	Max. Gradeability	3 min. rating 1.5km/h and over	%	10/14.3
	Wheel and Tire	29	Service Weight	With Standard Battery	kg	3590
30		Number	Load/Drive/Caster		2/1/2	
31		Tire	Load	mm	Φ 267 x 135 (Urethane)	
32			Drive	mm	Φ 380 x 165 (Rubber)	
33			Caster	mm	Φ 204 x 76 (Rubber)	
34		Wheelbase		mm	1785	
35		Tread	Front	mm	1215	
36			Rear	mm	695	
37		Road Clearance	Center of Wheelbase	mm	78	
38		Service Brake	Mech./Hydr./Electr./Pneum.		Mech.	
39	Parking Brake	Foot/Hand/Deadman		Deadman		
Drive Unit and Control	40	Battery	Voltage/Capacity ( 5 hr. rating)	V/Ah	48/370	
	41		Mass (w/case) (Min./Max.)	kg	575 (560/900)	
	42	Drive Motor	60 min. rating	kW	5.0	
	43		Control		Inverter	
	44	Hydraulic Motor	5 min. rating	kW	11.0	
	45		Control		Inverter	
	46	Power Steering Motor	60 min. rating	kW	0.3	
	47		Control		Chopper	
	48	Charger (Option)	Type (Built-in/Stationary)		Stationary	
	49		Charging Method		Automatic	
	50		Input	V	3/200	
	51		Capacity	kVA	6.5	

(1) With 200mm clearance