						RL Type			
	1.2	**Model**	**Manufacture's Designation**			FB10RL(F)-14	FB13RL(F)-14	FB15RL(F)-14	FB18RL(F)-14
	1.3	**Power Type**	**Electric, Diesel, Gasoline, LPG, Cable**			Electric	Electric	Electric	Electric
	1.4	**Operation Type**	**Pedestrian, Driver Standing, Sitting, Order Picking**			Standing	Standing	Standing	Standing
	1.5	**Rated Capacity**	**Q1**	**Rated Capacity**	**kg**	1000	1250	1500	1800
	1.6	**Load Center**	**c**	**Load Center**	**mm**	500	500	500	500
	1.6.1	**Alternative Capacity**	**Q2**	**Capacity @ 600mm Load Center**	**kg**	870	1080	1300	1560
	1.8	**Load Distance**	**x**	**Front Axle Center to Fork Face**	**mm**	175	175	175	175
	1.9	**Wheelbase**	**y**		**mm**	1110	1250	1350	1500
Weight	**2.1**	**Service Weight**	**Including Min. Capacity Battery, see line 6.5**		**kg**	2020	2035	2220	2300
	2.4	**Axle Loading Mast/Forks Extended**	**Loaded**	**Front**	**kg**	2555	2855	3245	3620
	2.4.1			**Rear**	**kg**	465	430	475	480
	2.4.2		**Unloaded**	**Front**	**kg**	905	890	955	970
	2.4.3			**Rear**	**kg**	1115	1145	1265	1330
	2.5	**Axle Loading Mast/Forks Retrancted**	**Loaded**	**Front**	**kg**	1940	2020	2360	2465
	2.5.1			**Rear**	**kg**	1080	1265	1360	1635
	2.5.2		**Unloaded**	**Front**	**kg**	690	635	715	690
	2.5.3			**Rear**	**kg**	1330	1400	1505	1610
Tyre	**3.1**	**Tyre Type**				Solid	Solid	Solid	Solid
	3.2	**Tyre Size**	**Front**			φ260x120	φ260x120	φ254x114	φ254x120
	3.3		**Rear**			φ360x180	φ360x180	φ360x180	φ360x180
	3.4		**Additional Wheels**			φ127x90	φ127x90	φ127x90	φ127x90
	3.5	**Number of Wheel**	**Front/Rear(*=driven)**			2/1*+2	2/1*+2	2/1*+2	2/1*+2

Tyre	3.3	Tyre Size	Rear			φ360x180	φ360x180	φ360x180	φ360x180
	3.4		Additional Wheels			φ127x90	φ127x90	φ127x90	φ127x90
	3.5	Number of Wheel	Front/Rear(*=driven)			2/1*+2	2/1*+2	2/1*+2	2/1*+2
	3.6	Tread, Front	b10		mm	975	975	975	975
	3.7	Tread, Rear	b11			-	-	-	-
Dimensions	4.1	Tilting Angle	α/β	Forward Backward	degree	3/5	3/5	3/5	3/5
	4.2	Mast Height, Lowered	h1	with Std. Mast	mm	1995	1995	1995	1995
	4.3	Std, Free Lift	h2	with Std. Mast, from Ground	mm	105	105	105	105
	4.4	Std, Lift Height	h3	with Std. Mast, from Ground	mm	3000	3000	3000	3000
	4.5	Mast Height, Extended	h4	with Std. Mast	mm	3935	3935	3935	3935
	4.7	Height, Overhead Guard	h6		mm	2250	2250	2250	2250
	4.19	Length, with Std. Forks	l1		mm	1905	1905	2005	2075
	4.21	Width, at Tyre	b1		mm	1095	1095	1095	1095
	4.22	Forks	s/e/l	Thickness Width Length	mm	35x100x850	35x100x850	35x100x850	38x100x920
	4.23	Fork Carriage Class	ISO 2328, Type A/B/no			Pin Mount	Pin Mount	Pin Mount	Pin Mount
	4.24	Width, Fork Carriage	b3		mm	750	750	750	730
	4.26	Width, between Reach Legs	b4		mm	752	752	752	752
	4.28	Reach Travel	l4		mm	440	580	580	730
	4.31	Ground Clearance	m	under the Mast	mm	75	75	75	75
	4.32		m2	at the center of Wheelbase	mm	80	80	80	80
	4.33	Right Angle Stacking Aisle	Ast	with L1000 x W1200 pallet	mm	2275	2310	2405	2460
	4.34		Ast	with L1200 x W800 pallet	mm	2340	2355	2450	2475
	4.35.1	Turning Radius	Wa		mm	1325	1465	1560	1715
	4.35.2		Wb		mm	670	555	555	555
	4.37	Length, without Forks	l 7		mm	1470	1610	1710	1860
Performance	5.1	Travel Speed (FWD)	Loaded/Unloaded		km/h	9.5/10.5	9.5/10.5	9.5/10.5	9.5/10.5
	5.2	Lifting Speed	Loaded/Unloaded		mm/s	350/540	320/540	320/540	300/540
	5.3	Lowering Speed	Loaded/Unloaded		mm/s	500/550	460/550	460/550	460/550
	5.4	Reach Speed	Loaded/Unloaded		mm/s	300/300	300/300	300/300	300/300
	5.6	Max. Drawbar Pull	3min rating		N	5880	5880	5880	5880
	5.8	Max. Gradeability	Unloaded 1.5Km/h, 3min rating		%	32	31	28	27
	5.10	Service Brake	Operation/Control			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc
	5.11	Parking Brake	Operation/Control			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc	Mechanical, Disc
	5.12	Steering	Operation/Control			Electric Power Steering	Electric Power Steering	Electric Power Steering	Electric Power Steering
Drive	6.1	Drive Motor (AC)	60min rating		kW	4.5	4.5	4.5	4.5
	6.2	Pump Motor (AC)	5min rating		kW	9.0	9.0	9.0	9.0
	6.2.1	PS Motor (DC)	60min rating		kW	0.3	0.3	0.3	0.3
	6.4	Battery Voltage			V	48	48	48	48
	6.4.1	Battery Capacity, Min.			Ah/5-hour	201	201	280	280

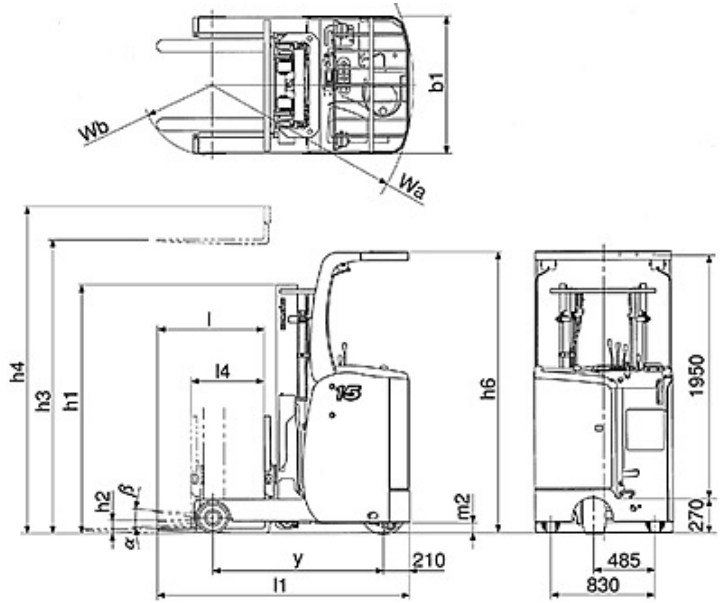
Drive	**6.2.1**	**PS Motor (DC)**	**60min rating**	**kW**	0.3	0.3	0.3	0.3
	6.4	**Battery Voltage**		**V**	48	48	48	48
	6.4.1	**Battery Capacity, Min.**		**Ah/5-hour**	201	201	280	280
	6.4.2	**Battery Capacity, Max.**		**Ah/5-hour**	240	240	390	390
	6.5	**Battery Weight, Min. Capacity**		**kg**	365	365	495	495
Others	**8.1**	**Drive Motor Control**			MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
	8.1.1	**Pump Motor Control**			MOS-FET inverter	MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
	8.1.2	**PS Motor Control**			MOS-FET chopper	MOS-FET chopper	MOS-FET chopper	MOS-FET chopper
	8.2	**Relief Pressure for**		**bar**	167	167	167	167
	8.2.1	**Attachment**		**Ltr**	16	16	16	16

Characteristics						RW Type		
	1.2	**Model**	**Manufacture's Designation**			FB10RW-14	FB13RW-14	FB15RW-14
	1.3	**Power Type**	**Electric, Diesel, Gasoline, LPG, Cable**			Electric	Electric	Electric
	1.4	**Operation Type**	**Pedestrian, Driver Standing, Sitting, Order Picking**			Standing	Standing	Standing
	1.5	**Rated Capacity**	**Q1**	**Rated Capacity**	**kg**	1000	1250	1500
	1.6	**Load Center**	**c**	**Load Center**	**mm**	500	500	500
	1.6.1	**Alternative Capacity**	**Q2**	**Capacity @ 600mm Load Center**	**kg**	870	1080	1300
	1.8	**Load Distance**	**x**	**Front Axle Center to Fork Face**	**mm**	175	175	175
	1.9	**Wheelbase**	**y**		**mm**	1110	1250	1350
Weight	**2.1**	**Service Weight**	**Including Min. Capacity Battery, see line 6.5**		**kg**	2020	2035	2220
	2.4	**Axle Loading Mast/Forks Extended**	**Loaded**	**Front**	**kg**	2560	2860	3250
	2.4.1			**Rear**	**kg**	460	425	470
	2.4.2		**Unloaded**	**Front**	**kg**	910	895	955
	2.4.3			**Rear**	**kg**	1110	1140	1265
	2.5	**Axle Loading Mast/Forks Retrancted**	**Loaded**	**Front**	**kg**	1945	2025	2365
	2.5.1			**Rear**	**kg**	1075	1260	1355
	2.5.2		**Unloaded**	**Front**	**kg**	695	640	720
	2.5.3			**Rear**	**kg**	1325	1395	1500
Tyre	**3.1**	**Tyre Type**				Solid	Solid	Solid
	3.2	**Tyre Size**	**Front**			φ260x120	φ260x120	φ254x114
	3.3		**Rear**			φ330x145	φ330x145	φ330x145
	3.4		**Additional Wheels**			φ150x80	φ150x80	φ150x80
	3.5	**Number of Wheel**	**Front/Rear(*=driven)**			2/1*+2	2/1*+2	2/1*+2
	3.6	**Tread, Front**	**b10**		**mm**	975	975	975
	3.7	**Tread, Rear**	**b11**			-	-	-
	4.1	**Tilting Angle**	**α/β**	**Forward Backward**	**degree**	3/5	3/5	3/5
	4.2	**Mast Height, Lowered**	**h1**	**with Std. Mast**	**mm**	1995	1995	1995
	4.3	**Std. Free Lift**	**h2**	**with Std. Mast, from Ground**	**mm**	105	105	105

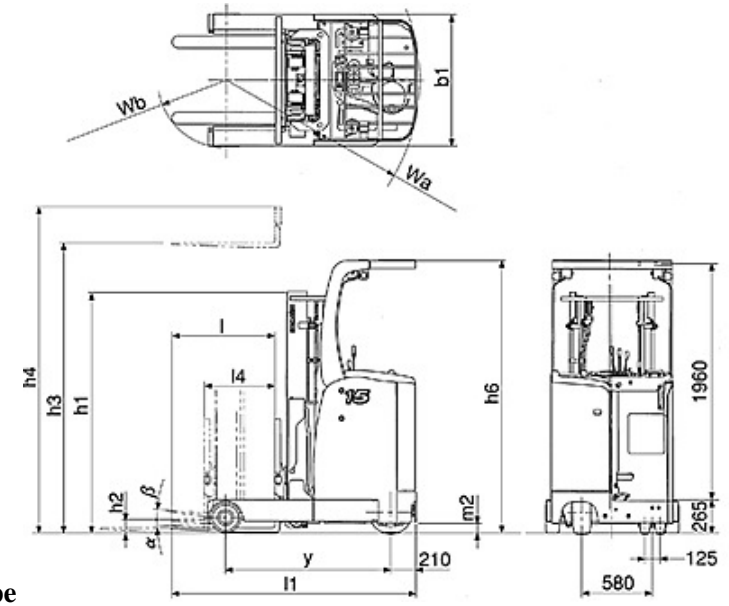
	4.1	Tilting Angle	α/β	Forward Backward	degree	3/5	3/5	3/5
	4.2	Mast Height, Lowered	h1	with Std. Mast	mm	1995	1995	1995
	4.3	Std, Free Lift	h2	with Std. Mast, from Ground	mm	105	105	105
	4.4	Std, Lift Height	h3	with Std. Mast, from Ground	mm	3000	3000	3000
	4.5	Mast Height, Extended	h4	with Std. Mast	mm	3935	3935	3935
	4.7	Height, Overhead Guard	h6		mm	2250	2250	2250
	4.19	Length, with Std. Forks	l1		mm	1905	1905	2005
	4.21	Width, at Tyre	b1		mm	1080	1080	1080
	4.22	Forks	s/e/l	Thickness Width Length	mm	35x100x850	35x100x850	35x100x850
	4.23	Fork Carriage Class	ISO 2328, Type A/B/no			Pin Mount	Pin Mount	Pin Mount
	4.24	Width, Fork Carriage	b3		mm	750	750	750
Dimensions	4.26	Width, between Reach Legs	b4		mm	752	752	752
	4.28	Reach Travel	l4		mm	440	580	580
	4.31	Ground Clearance	m	under the Mast	mm	75	75	75
	4.32		m2	at the center of Wheelbase	mm	80	80	80
	4.33	Right Angle Stacking Aisle	Ast	with L1000 x W1200 pallet	mm	2275	2310	2405
	4.34		Ast	with L1200 x W800 pallet	mm	2340	2355	2450
	4.35.1	Turning Radius	Wa		mm	1325	1465	1560
	4.35.2		Wb		mm	670	555	555
	4.37	Length, without Forks	l 7		mm	1470	1610	1710
	5.1	Travel Speed (FWD)	Loaded/Unloaded		km/h	9.5/10.5	9.5/10.5	9.5/10.5
	5.2	Lifting Speed	Loaded/Unloaded		mm/s	350/540	320/540	320/540
	5.3	Lowering Speed	Loaded/Unloaded		mm/s	500/550	460/550	460/550
	5.4	Reach Speed	Loaded/Unloaded		mm/s	300/300	300/300	300/300
Performance	5.6	Max. Drawbar Pull	3min rating		N	6080	6080	6080
	5.8	Max. Gradeability	Unloaded 1.5Km/h, 3min rating		%	32	32	29
	5.10	Service Brake	Operation/Control			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc
	5.11	Parking Brake	Operation/Control			Mechanical, Disc	Mechanical, Disc	Mechanical, Disc
	5.12	Steering	Operation/Control			Electric Power Steering	Electric Power Steering	Electric Power Steering
	6.1	Drive Motor (AC)	60min rating		kW	4.5	4.5	4.5
	6.2	Pump Motor (AC)	5min rating		kW	9.0	9.0	9.0
	6.2.1	PS Motor (DC)	60min rating		kW	0.3	0.3	0.3
Drive	6.4	Battery Voltage			V	48	48	48
	6.4.1	Battery Capacity, Min.			Ah/5-hour	201	201	280
	6.4.2	Battery Capacity, Max.			Ah/5-hour	240	240	390
	6.5	Battery Weight, Min. Capacity			kg	365	365	495
	8.1	Drive Motor Control				MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
	8.1.1	Pump Motor Control				MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
Others	8.1.2	PS Motor Control				MOS-FET chopper	MOS-FET chopper	MOS-FET chopper
	8.2	Relief Pressure for			bar	167	167	167

	8.1	**Drive Motor Control**			MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
	8.1.1	**Pump Motor Control**			MOS-FET inverter	MOS-FET inverter	MOS-FET inverter
Others	**8.1.2**	**PS Motor Control**			MOS-FET chopper	MOS-FET chopper	MOS-FET chopper
	8.2	**Relief Pressure for**		**bar**	167	167	167
	8.2.1	**Attachment**		**Ltr**	16	16	16

Dimensions



RL Type



RW Type

RW Type