

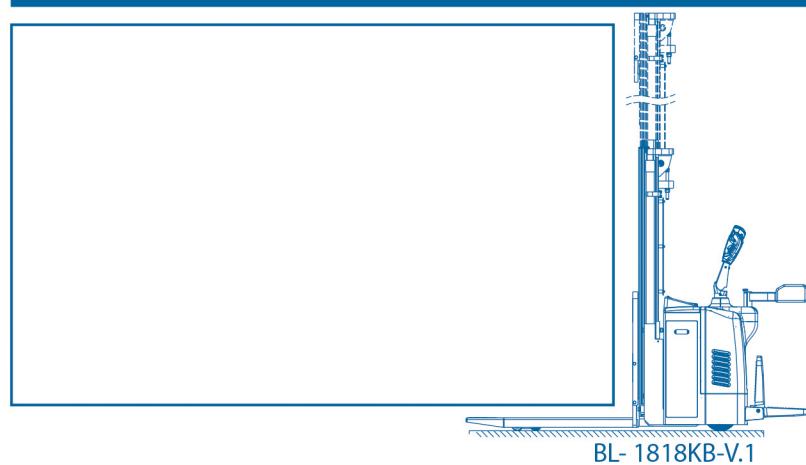
ELECTRIC

LOVOL

Electric Warehouse Truck

REACH TRUCK

FER16/20



LOVOL

Features

Performance

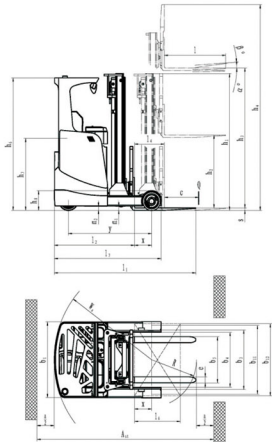
Up to 9.5m stacking height makes it possible to carry out order picking at high position with great intensity.

International quality components.

Ergonomics design, comfortable and efficient.



Specification



Distinguishing mark	1.2	Model designation			FER16	FER20
	1.3	Drive unit			Battery	Battery
	1.4	Operator type			Seated	Seated
	1.5	Rated capacity	Q	t	1.6	2
	1.6	Load center distance	c	mm	600	600
	1.9	Wheelbase	y	mm	1454	1524
Weight	2.1	Service weight (include battery)		kg	2940②	2945②
	2.2	Axle loading, fork advanced, unladen driving side/loading side		kg	1700/1310	1700/1310
	2.3	Axle loading, fork retracted, unladen driving side/loading side		kg	1990/1020	1990/1020
	2.4	Axle loading, fork advanced, laden driving side/loading side		kg	820/3820	820/3820
	2.5	Axle loading, fork retracted, laden driving side/loading side		kg	1640/3000	1640/3000
Tyres, Chassis	3.1	"Tyre type driving wheels/loading wheels"			Polyurethane	Polyurethane
	3.2	Tyre size, driving wheels (diameter×width)		mm	Φ343×140	Φ343×140
	3.3	Tyre size, loading wheels (diameter×width)		mm	Φ310×118③	Φ310×118③
	3.4	Tyre size, caster wheels (diameter×width)		mm	/ ⑤	/ ⑤
	3.5	Wheels, number driving , caster/loading (x=drive wheels)			1x, 2⑤	1x, 2⑤
	3.6	Track width, front,driving wheels	b ₁₀	mm	0	0
Dimensions	3.7	Track width,rear,loading wheels	b ₁₁	mm	1148③	1148③
	4.1	Tilt of mast/fork carriage forward/backward	α/ β	°	2/4	2/4
	4.2	Height, mast lowered	h ₁	mm	2130③	2130③
	4.3	Free lift (load backrest)	h ₂	mm	120③	120③
	4.4	Lift height	h ₃	mm	3000③	3000③
	4.5	Height, mast extended	h ₄	mm	4065③	4065③
	4.7	Height of overhead guard (cabin)	h ₆	mm	2210	2210
	4.8	Seat height/standing height	h ₇	mm	1200	1200
	4.10	Height of wheel arms	h ₈ (mm)	mm	330	330
	4.19	Overall length (minimum)	l ₁	mm	2470①	2470①
	4.20	Length to face of forks	l ₂	mm	1400①	1400①
	4.21	Overall width	b ₁ / b ₂	mm	1260/1270③	1260/1270③
	4.22	Fork dimensions	s/ e/ l	mm	40×100×1070	40×120×1070
	4.23	Fork carriage class/type A, B		mm	A	A
	4.24	Fork carriage width	b ₃	mm	990	990
	4.25	Distance between fork-arms	b ₅	mm	200/770	240 / 740
	4.26	Distance between wheel arms/loading surfaces	b ₄	mm	915	915
	4.28	Reach distance	l _k	mm	520①	520①
	4.31	Ground clearance, laden, below mast	m ₁	mm	70	70
	4.32	Ground clearance, center of wheelbase	m ₂	mm	70 ②	70 ②
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast	mm	2827①	2842①
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2891①	2893①
	4.35	turning radius	Wa	mm	1705①	1770①
	4.37	Length across wheel arms (exclusive fork)	l ₇	mm	1865①	1935①
Performance data	5.1	Travel speed, laden/ unladen		km/ h	10/11	9/9.5
	5.2	Lifting speed, laden/ unladen		m/ s	0.45/0.52	0.28/ 0.42
	5.3	Lowering speed, laden/ unladen		m/ s	0.45/0.38	0.3 / 0.33
	5.4	Reaching speed, laden / unladen		m/ s	0.9/0.9	0.9/0.9
	5.8	Max. gradeability, laden/unladen		%	10/15	10/15
	5.10	Service brake type			/	/
Electric-Motor		Park brake type			Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	6.4	6.4
	6.2	Lift motor rating at S3 15%		kW	11	13
	6.3	The maximum allowed size battery		mm	1220×355×778	1220x427x778
	6.4	Battery voltage/nominal capacity K5		V/ Ah	48/500④	48/500④
	6.5	Battery weight		kg	925④	925④
Others	8.1	Type of drive unit			AC	AC
	10.5	Steering type			electronic	electronic
	10.7	Sound pressure level at the driver's ear		dB (A)	75	75

Subject to modification in the interests of progress, illustration and technical details not binding for actual constructions and may show the optional equipments.

①Dimensions (mm)

with side shift		FER16			FER20							
Mast style		2-stage mast	3-stage mast	3-stage mast	2-stage mast	3-stage mast	3-stage mast	3-stage mast	2-stage mast	3-stage mast	3-stage mast	3-stage mast
Lift height(h ₃)		h ₃ < 7m	h ₃ ≤ 7.5m	8m ≤ h ₃ ≤ 9.5m	h ₃ < 7m	h ₃ ≤ 7.5m	8m ≤ h ₃ ≤ 9.5m	10m ≤ h ₃ ≤ 11m	h ₃ < 7m	h ₃ ≤ 7.5m	8m ≤ h ₃ ≤ 9.5m	10m ≤ h ₃ ≤ 11m
Battery capacity		≤600Ah							700Ah 750Ah			
Wheelbase	y	1454	1454	1524	1524	1524	1594	1594	1524	1524	1594	1594
Overall length (minimum)	l ₁	2472	2498	2503	2472	2498	2503	2507	2542	2568	2573	2577
Length to face of forks	l ₂	1402	1428	1433	1402	1428	1433	1437	1472	1498	1503	1507
Reach distance	l ₄	520	495	555	585	560	625	625	515	490	555	555
Aisle width for pallets 1000 × 1200 crossways	Ast	2827	2847	2864	2842	2860	2884	2886	2894	2913	2934	2937
Aisle width for pallets 800 × 1200 lengthways	Ast	2891	2914	2921	2893	2917	2928	2932	2957	2980	2991	2995
Aisle width for pallets 1000 × 1200 lengthways	Ast	2932	2958	2967	2941	2963	2977	2981	3002	3024	3037	3041
Aisle width for pallets 800 × 1200 crossways	Ast	2686	2703	2728	2709	2725	2757	2760	2752	2769	2798	2800
Turning radius	W _a	1705			1770		1840	1840	1770		1840	1840
Length across wheel arms (exclusive fork)	l ₇	1865			1935		2005	2005	1935		2005	2005

② Service weight (include battery)

Mast height (mm)	Service weight (kg)	
	FER16	FER20
2-stage mast		
3000	2940	2945
3300	2970	2975
3640	3000	3005
4000	3030	3035
4300	3060	3065
4520	3090	3095
5000	3120	3125
5480	3150	3155
6000	3180	3185
3-stage mast		
4050	3240	3245
4500	3290	3295
5000	3340	3345
5500	3390	3395
6000	3440	3445
6500	3490	3495
7000	3540	3545
7500	3590	3595
8000	3870	3875
8500	3925	3930
9000	3980	3985
9500	4035	4040
10000	-	4570
10500	-	4630
11000	-	4690

- The parameters in the table are of the standard model.
For more information please contact us.
- The parameters are subject to change without notice.

FER20 3-stage mast (≥10000mm)

Lift height	Lowered mast height	Free lift		Extended mast height	
h3	h1	h2	h2(*)	h4	h4(*)
10000	4160	3095	3560	11065	10585
10500	4330	3265	3740	11565	11090
11000	4490	3425	3875	12065	11590

note: (*) for without backrest

FER16/20 2-stage mast

Lift height	Lowered mast height	Free lift		Extended mast height	
h3	h1	h2	h2(*)	h4	h4(*)
2700	1980	120		3765	3280
3000	2130	120		4065	3580
3300	2280	120		4365	3880
3640	2450	120		4705	4220
4000	2630	120		5065	4580
4300	2780	120		5365	4880
4520	2960	160		5585	5140
5000	3200	160		6065	5620
5480	3460	160		6545	6120
6000	3720	160		7065	6640

note: (*) for without backrest

FER16/20 3-stage mast (≤7500mm) :

Lift height	Lowered mast height	Free lift		Extended mast height	
h3	h1	h2	h2(*)	h4	h4(*)
4050	1980	915	1350	5115	4680
4500	2130	1065	1500	5565	5130
5000	2280	1215	1700	6065	5580
5500	2450	1385	1860	6565	6090
6000	2630	1565	2000	7065	6630
6500	2780	1715	2200	7565	7080
7000	3050	1985	2440	8065	7610
7500	3220	2155	2640	8565	8120

note: (*) for without backrest

FER16/20 3-stage mast (8000mm ≤ h₃ ≤ 9500mm) :

Lift height	Lowered mast height	Free lift		Extended mast height	
h3	h1	h2	h2(*)	h4	h4(*)
8000	3390	2325	2800	9065	8590
8500	3610	2545	3020	9565	9090
9000	3770	2705	3150	10065	9590
9500	3940	2875	3340	10565	10090

note: (*) for without backrest

FER16			FER20			
Capacity (Ah)	4HPzS 500	4HPzS 600	4HPzS 500	4HPzS 600	5HPzS 700	5HPzS 750
Battery weight (kg)	925	935	925	935	1115	1140

