mhe
a Jebsen & Jessen brand



MFU-430/435FAL

Lithium Ion Electric Forklift Truck 3.0t/3.5t

- IC forklift design with Lithium Ion technology
- Big tyres & high ground clearance
- Simple components for easy service & maintenance
- Li-Ion battery for opportunity charging & flexibility
- Outdoor & indoor: the most flexible forklift in the industry

ZERO EMISSION

FEATURES

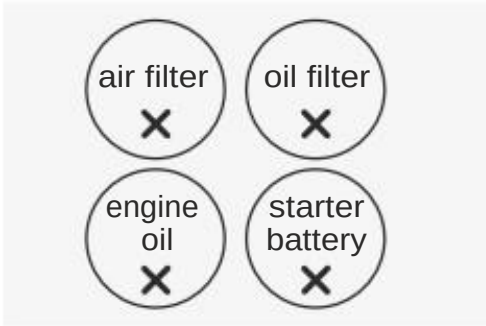
Lithium-ion technology

MFU-430/435FAL adapts LFP Li-ion battery that prevents the battery from self-ignition and ensures safety operation. MFU-430/435FAL supports opportunity charging so it can be charged at preferable time during the day without disrupting working schedules.



Low TCO

Compared to a diesel forklift, MFU-430/435FAL saves 30%-50% of energy cost with li-ion technology. And there is no maintenance fee with no air filter, oil filter, engine oil or starter battery installed on the truck.



Easy driving

The truck is equipped with mechanical braking system. The system shortens the braking distance to ensure safety while reducing the driving fatigue in the meantime.



IPX4 rated water-protected design

The MFU-430/435FAL is IPX4 rated and that protects the trucks from splash of water from different angles. The waterproofed design allows the trucks to be operated outdoors, even in the rain.



Telematics

MFU-430/435FAL offers EP's latest Telematics. It provides the following features to facilitate your feet management:

- Truck location in real-time
- Reports of truck usages and diagnosis
- Li-ion battery condition analytics
- Updates on card access registration

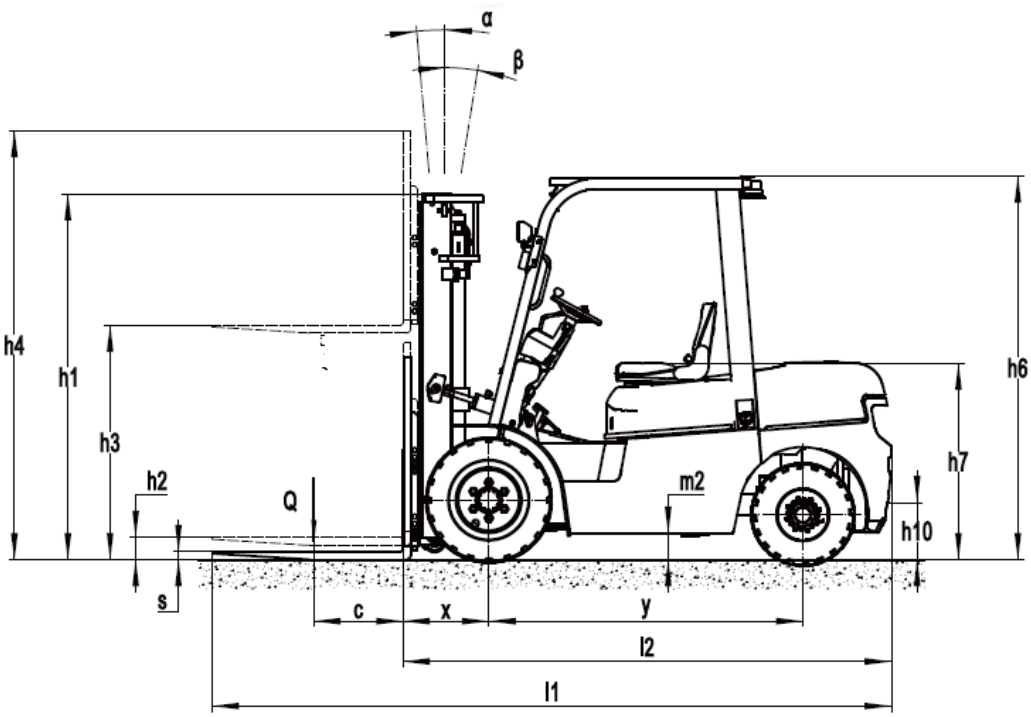


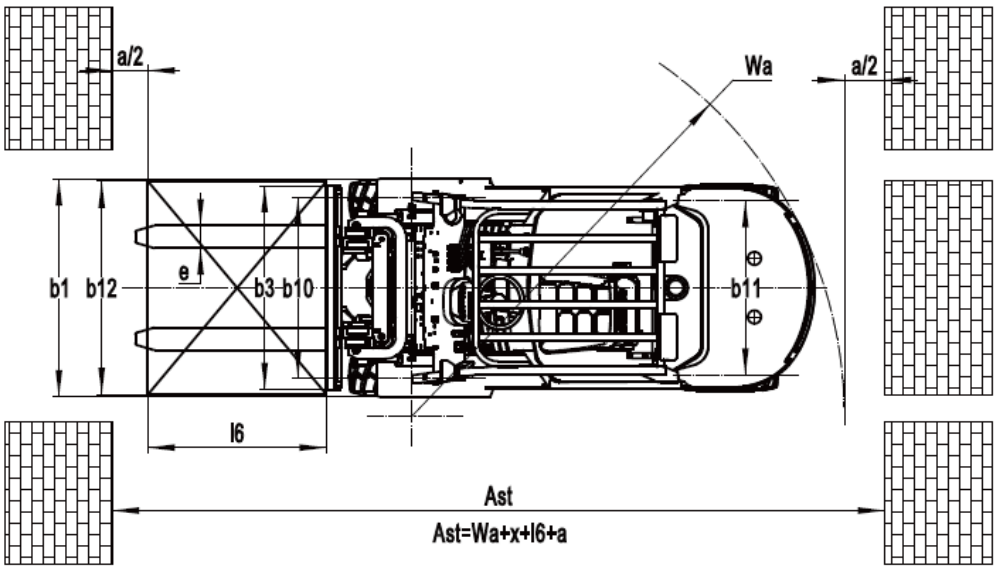
Electric Counterbalance Forklift Truck 3.0t/3.5t

MFU-430/435FAL

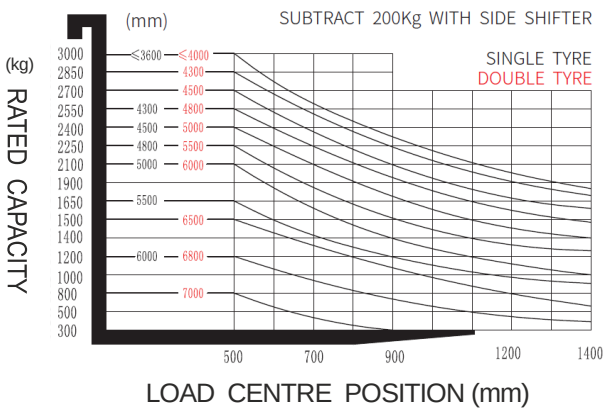
Distinguishing mark	1.1	Brand			MHE	MHE
	1.2	Model designation			MFU-430FAL	MFU-435FAL
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity	Q	kg	3000	3500
	1.6	Load center distance	c	mm	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	481	481
	1.9	Wheelbase	y	mm	1750	1810
Service weight	2.1	Service weight		kg	4080	4560
	2.2	Axle loading, laden front/rear		kg	6420/660	7100/960
	2.3	Axle loading, unladen front/rear		kg	1740/2340	1670/2890
Tyres/chassis	3.1	Tyre type			Solid rubber	Solid rubber
	3.2	Tyre size, front			28X9-15	28X9-15
	3.3	Tyre size, rear			6.50-10	6.50-10
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2x/2	2x/2
	3.6	Tread width, front	b10	mm	1010	1010
	3.7	Tread width, rear	b11	mm	980	980
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10	6/10
	4.2	Retracted mast height	h1	mm	2070	2070
	4.3	Free lift	h2	mm	120	120
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	4110	4110
	4.7	Height of overhead guard (cabin)	h6	mm	2160	2190
	4.8	Seat height/standing height	h7	mm	1130	1130
	4.12	Tow coupling height	h10	mm	320	320
	4.19	Overall length	l1	mm	3860	4020
	4.20	Length to face of forks	l2	mm	2710	2870
	4.21	Overall width	b1/b2	mm	1230	1230
	4.22	Fork dimensions	s/e/l	mm	45×125×1150	50×125×1150
	4.23	A,B Fork carriage class/type A, B			3A	3A
	4.24	Fork carriage width	b3	mm	1150	1150
	4.31	Ground clearance, laden, below mast	m1	mm	120	120
	4.32	Ground clearance, center of wheelbase	m2	mm	150	150
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4181	4326
	4.34.2	Aisle width for pallets 800×1200 crossways	Ast	mm	4381	4526
	4.35	Turning radius	Wa	mm	2500	2645
Performance data	5.1	Travel speed, laden/unladen		km/h	11/12	11/12
	5.2	Lifting speed, laden/unladen		m/s	0.29/0.36	0.26/0.34
	5.3	Lowering speed, laden/unladen		m/s	0.4/0.43	0.4/0.43
	5.5	Drawbar pull, laden/unladen		N	——	——
	5.6	Max. drawbar pull, laden/unladen		N	——	——
	5.8	Max. gradeability, laden/unladen		%	15/15	15/15
	5.10	Service brake			Hydraulic	Hydraulic
	5.11	Parking brake			Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	10	10
	6.2	Lift motor rating at S3 15%		kW	12	12
	6.4	Battery voltage/nominal capacity		V/Ah	80/205	80/280
	6.5	Battery weight		kg	——	——
Addition data	8.1	Type of drive control			AC	AC
	10.5	Steering design			Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	﹤74	﹤74

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

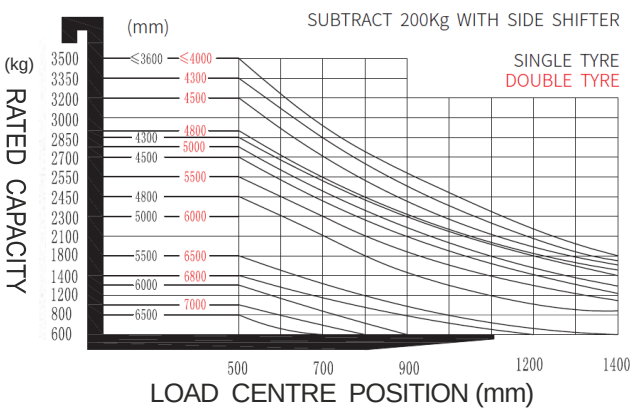




MFU-430FAL
RATED CAPACITIES AND LOAD CENTERES GRAPH



MFU-435FAL
RATED CAPACITIES AND LOAD CENTERES GRAPH



Mast Option

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No shelving	With shelving
			No shelving	With shelving		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	2700	1920	3270	3810	120	120
	3000	2070	3570	4110	120	120
	3300	2220	3690	4410	120	120
	3500	2320	3890	4610	120	120
	3600	2370	3990	4710	120	120
	4000	2620	4040	5110	120	120
	4300	2770	4340	5410	120	120
	4500	2870	4290	5610	120	120
2-Free Mast	2500	1805	2220	3610	1210	560
	2700	1905	2320	3810	1310	660
	3000	2055	2620	4110	1460	810
	3300	2205	3870	4410	1610	960
	3600	2355	4020	4710	1760	1110
3-Free Mast	4300	2095	4910	5410	1360	730
	4500	2175	5070	5610	1460	810
	4800	2280	5375	5910	1565	915
	5000	2365	5570	6110	1610	960
	5500	2615	6150	6610	1770	1120
	6000	2865	6570	7110	2020	1370

Option

No.	Optional items	MFU-430FAL	MFU-435FAL
1	Fork length	●1150 ○customization consultation	●1150 ○customization consultation
2	Attachments	●NA○integrated side shifter ○external side shifter ○customization consultation	●NA○integrated side shifter ○external side shifter ○customization consultation
3	Overhead guard	●normal overhead guard ○customization consultation	●normal overhead guard ○customization consultation
4	Front wheel configuration	●single○dual	●single○dual
5	Tyre type	●Solid rubber tire ○Environmental solid tire	●Solid rubber tire ○Environmental solid tire
6	Front light	●LED front light	●Front light ○LED front light
7	Auxiliary light	●NA ○Back light	●NA ○Back light
8	Safety components	●NA○Fire extinguisher○blue light	●NA○Fire extinguisher○blue light
9	Seat	●normal seat ○suspension seat	●normal seat ○suspension seat
10	Cockpit	●NA○Cockpit○With fan heater ○With front windshield wiper ○With rear windshield wiper	●NA ○Cockpit ○With fan heater ○With front windshield wiper ○With rear windshield wiper
11	Rearview	●single ○dual	●single ○dual
12	Air fan	●NA ○single	●NA ○single
13	Charging	●80V65A ○80V130A ○80V200A ○80V35A(integrated) ○80V60A（integrated）	●80V65A ○80V130A ○80V200A ○80V35A(integrated) ○80V60A（integrated）
14	Li-Ion battery	●80V205AH ○80V280AH ○80V410AH	●80V280AH ○80V410AH

Note: ● standard ○ option — NA