



Designed for manufacturing plants, building-material yards, logistics hubs, and metal processing, the EFL603 offers the stability and strength to handle heavy loads all day long. With its reinforced frame, dual-motor drive, and 30 % gradeability, it performs confidently on uneven surfaces while maintaining smooth, precise control for indoor or outdoor operations.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-lon
Battery nominal capacity		Ah	860
Battery voltage		V	96
Load capacity	Q	kg	6000
Load centre distance	С	mm	600
Service weight		kg	9250
Retracted mast height	h ₁	mm	2480
Lift height	h ₃	mm	3000
Height, mast extended	h ₄	mm	4470/3965
Overall length		mm	4720
Overall width	b ₁ /b ₂	mm	2028
Length to face of forks	I ₂	mm	3500
Fork dimensions	s/e/l	mm	60×150×1220
Turning radius		Wa	3235
Operator type			Seated
Load distance, centre of drive axle to fork		mm	603.5

Features

Energy Efficiency: extended runtime and fast charging

High-voltage Li-ion batteries have high energy density and can store more electrical energy within a compact volume. High-voltage systems consume less energy and provide longer battery running time comparing low-voltage systems. Notably, these high-voltage Li-ion batteries boast an impressive cycle life of up to 4000 cycles, ensuring long-term durability and minimizing the need for battery replacements.

The PMSMs incorporate advanced control technology to optimize motor efficiency. Unlike traditional AC motors, PMSMs have higher energy conversion efficiency and reduce energy waste. This means that high-capacity trucks can work continuously for prolonged hours at lower costs.

Equipped with fast charging capabilities, high-capacity trucks offer a remarkable charging experience. The high-voltage models are compatible with vehicle-grade charging stations and support 1C charging rating, allowing them to be fully charged in as fast as 1-1.2 hours. This minimizes downtime and maximizes productivity, making it ideal for multi-shift operations

Lithium batteries present considerably lower charging costs than fuel expenses. The integration of high-voltage and PMSM technology achieves up to 15% greater electricity savings versus traditional lithium and AC technology configurations. This significantly reduces long-term energy consumption costs.

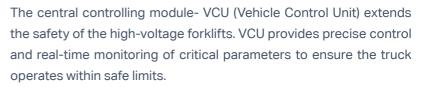






Safety Assured: Battery, motor protection, monitoring and mast buffering

Both high-voltage lithium batteries and PMSM employ multiple protective measures to ensure safe operations including overcharge protection, over-temperature monitoring, short-circuit protection, etc. minimizing the risk of potential hazards and maximizing operational safety.



It also features turn speed control, which adjusts the forklift's speed based on the turning angle, ensuring stability during turns. An overspeed alarm alerts the operator if the forklift exceeds the safe speed limit.*

The high-capacity forklift mast is equipped with a hydraulic buffering system that ensures smooth lifting and lowering of loads. With controlled deceleration, the fork movement is smooth with no abrupt stops that could damage the load or cause operator discomfort. This feature enhances operational safety and prolongs the lifespan of the mast components.

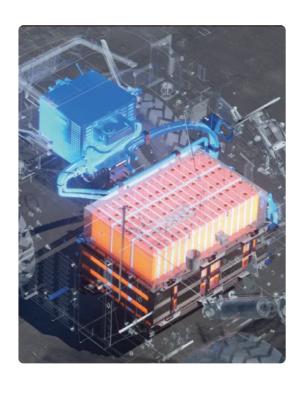


Low maintenance: Longer battery life span

Operating at a higher voltage allows the battery to be designed with fewer individual cells. With fewer components and a simpler design, the risk of battery failure is lowered.

Thanks to advanced BMS (Battery Management System) which helps to regulate and monitor high-voltage battery, these batteries tend to have a longer life than low-voltage lithium batteries, reducing the need of battery replacement.

The brushless, simple rotor design of PMSM eliminates mechanical wear from brushes and commutators. This durable, low-friction construction requires minimal periodic maintenance, reducing associated labor costs and downtime.







Sustainability : Zero emissions for cleaner environment

As fully electric trucks powered by lithium-ion batteries, these forklifts produce zero emissions during operation, eliminating exposure to toxic fumes like carbon monoxide and nitrogen oxides. Unlike lead-acid batteries which can leak corrosive acid, lithium-ion batteries do not risk hazardous spills. The high-capacity li-ion trucks contribute to a cleaner and safer indoor working environment without compromising handling capabilities.

Strong adaptability adaptable to harsh outdoor weather conditions

Experience uninterrupted productivity through rain, puddles, and damp conditions with the overall IPX4 rating. Plus an exceptional IP67 rating for high-voltage components. Engineered to withstand harsh temperature, high-capacity trucks offer an ambient temperature range of -20 $^{\circ}$ C ~40 $^{\circ}$ C allowing them to perform no matter climate.

Battery heating when charging comes as a standard function for high capacity models, which is activated when the surrounding temperature is below zero to always offer an optimal temperature range for efficient and safe charging even in cold weather conditions.

The dual front wheels is a standard configuration on several models offering a wider base of support, which greatly improves the forklift's stability. Considering the capacity loads of the high-capacity trucks, the weight of the load is more evenly distributed across a larger surface area. The increased ground contact area provided by the dual wheels enhances traction. This is particularly beneficial in environments where the floor may be slippery or uneven while operating outdoors, ensuring that the forklift can maintain a firm grip and operate safely. This not only helps in maintaining balance but also minimizes the stress on individual tires, extending the lifespan of the tires.

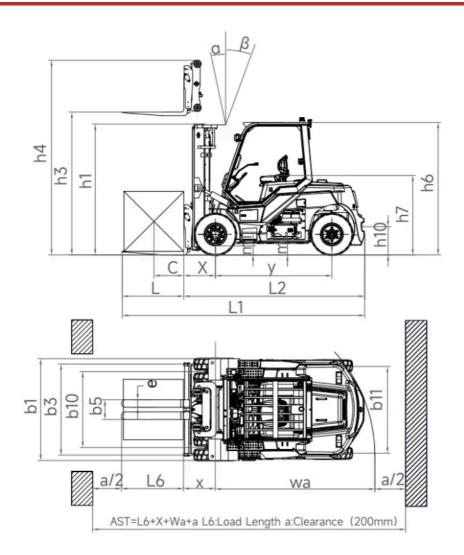


VDI Chart

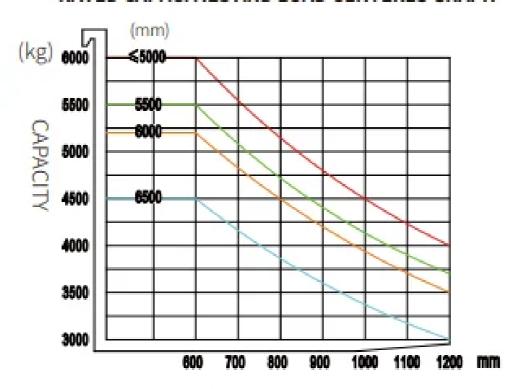
	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated

1.5 Load capacity Q kg 600 1.6 Load centre distance c mm 600 1.8 Load distance, centre of drive axle to fork mm 600 1.9 Wheelbase mm 2300 2.1 Service weight kg 9250 2.2 Axle loading, laden front/rear kg 13755/1495 2.3 Axle loading, laden front/rear kg 140104640 3.1 Tyre type Pneumatic 3.2 Tyre size, rear 825-15-14PR 3.3 Tyre size, rear 825-15-14PR 3.6 Tread width, front b10 mm 1498 3.7 Tread width, front b11 mm 1718 4.1 Titl of mast/fork carriage forward/backward b11 mm 600 4.1 Titl of mast/fork carriage forward/backward wm 600 4.1 To occupiling height wm 600 4.1 Length of loading surface wm 4200		SPECIFICATION	REF	UNIT	VALUE
1.8 Load distance, centre of drive axile to fork mm 603.5 1.9 Wheelbase mm 2300 2.1 Service weight kg 9250 2.2 Axile loading, laden front/rear kg 13755/1495 2.3 Axile loading, unladen front/rear kg 4610/4640 3.1 Tyre type Se5-15-14PR 3.2 Tyre size, front 3.25-15-14PR 3.3 Tyre size, rear 3.25-15-14PR 3.5 Wheels, number front/rear (x=drive wheels) 4/2 3.6 Tread width, front b18 mm 1498 3.7 Tread width, front b18 mm 1718 4.1 Till of mast/fork carriage forward/backward mm 600 4.1 Till of mast/fork carriage forward/backward mm 600 4.1 Coverall height mm 600 4.1 Diverall length mm 4720 4.2 Retracted mast height h1 mm 2480 4.2.1	1.5	Load capacity	Q	kg	6000
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2.2 Axle loading, laden front/rear kg 13755/1495 2.3 Axle loading, unladen front/rear kg 4610/4640 3.1 Tyre type	1.9	Wheelbase		mm	2300
2.3 Axle loading, unladen front/rear kg 4610/4640 3.1 Tyre type	2.1	Service weight		kg	9250
3.1 Tyre type Pneumatic 3.2 Tyre size, front 8.25-15-14PR 3.3 Tyre size, rear 8.25-15-14PR 3.5 Wheels, number front/rear (x=drive wheels) 4x/2 3.6 Tread width, front b _{1a} mm 1498 3.7 Tread width, rear b ₁₁ mm 1718 4.1 Tilt of mast/fork carriage forward/backward * 6/12 4.12 Tow coupling height mm 600 4.15 Lowered height 2480 4.16 Length of loading surface 3500 4.19 Overall length mm 4720 4.2 Retracted mast height In mm 3500 4.2.1 Overall height In mm 3500 4.2.1 Overall height In mm 3500 4.2.1 Overall height In mm 3000 4.2.1 Overall width In mm 60×150×1220 4.2.2 Fork dimensions S/e/1 mm 60×150×1220 4.2.3 A,B Fork carriage width mm <td>2.2</td> <td>Axle loading, laden front/rear</td> <td></td> <td>kg</td> <td>13755/1495</td>	2.2	Axle loading, laden front/rear		kg	13755/1495
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3.7 Tread width, rear b ₁₁ mm 1718 4.1 Tilt of mast/fork carriage forward/backward ° 6/12 4.12 Tow coupling height mm 600 4.15 Lowered height 2480 4.16 Length of loading surface 3500 4.19 Overall length mm 4720 4.2 Retracted mast height h ₁ mm 2480 4.2.1 Overall height 4470 4470 4.2.2 Length to face of forks I ₂ mm 3500 4.2.1 Overall width b ₁ /b ₂ mm 2028 4.2.2 Fork dimensions s/e/1 mm 60x150x1220 4.2.3 A,B Fork carriage class/type A,B 4A 4A 4.2.4 Fork carriage width mm 1845 (1995) 4.2.6 Distance between wheel arms/loading surfaces mm 160 4.3.1 Ground clearance, laden, below mast mm 160 4.3.2 Ground clearance, centre of wheelbase	3.5	Wheels, number front/rear (x=drive wheels)			4x/2
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4.34.1Aisle width for pallets 1000×1200 crosswaysAst52604.34.2Aisle width for pallets 800×1200 lengthwaysAst52604.35Turning radiusWa32354.36Internal turning radius3235	4.31	Ground clearance, laden, below mast		mm	160
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4.35 Turning radius Wa 3235 4.36 Internal turning radius 3235	4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	5260
4.36 Internal turning radius 3235	4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	5260
	4.35	Turning radius		Wa	3235
4.4 Lift height h ₃ mm 3000	4.36	Internal turning radius			3235
	4.4	Lift height	h ₃	mm	3000

	SPECIFICATION	REF	UNIT	VALUE
4.4.1	Max lift height		mm	7000
4.5	Height, mast extended	h ₄	mm	4470/3965
4.6	Initial lift		mm	160
4.7	Height of overhead guard (cabin)		mm	2590
4.8	Seat height/standing height		mm	1490
5.1	Travel speed, laden/unladen		km/h	25/26
5.10	Service brake			Hydraulic
5.11	Parking brake			Mechanical
5.2	Lifting speed, laden/unladen		m/s	0.51/0.53
5.3	Lowering speed, laden/unladen		m/s	0.48/0.42
5.8	Max. gradeability, laden/unladen		%	30/34
6.1	Drive motor rating S2 60 min		kW	60
6.2	Lift motor rating at S3 15%		kW	2x27.8
6.4	Battery nominal capacity		Ah	860
6.4	Battery voltage		V	96
6.4.1	Battery type			Li-lon
6.5	Battery weight		kg	693
8.1	Type of drive control			PMSM
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the drivers ear		dB(A)	1



EFL603-HV-6
RATED CAPACITIES AND LOAD CENTERES GRAPH



LOAD CENTRE POSITION (mm)

Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Standard Mast	3000	2480	3960	4470	160	160
2-Standard Mast	3500	2730	4460	4970	160	160
2-Standard Mast	4000	2980	4960	5470	160	160
2-Standard Mast	4500	3280	5460	5970	160	160
2-Standard Mast	5000	3530	5960	6470	160	160
2-Standard Mast	5500	3830	6460	6970	160	160
2-Standard Mast	6000	4080	6960	7470	160	160
2-Standard Mast	6500	4380	7460	7970	160	160
2-Free Mast	3000	2480	4310	4470	1495	1313
2-Free Mast	3500	2730	4810	4970	1700	1580

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Free Mast	4000	2980	5310	5470	1995	1813
3-Free Mast	4500	2660	5636	5976	1560	1220
3-Free Mast	4800	2760	5936	6276	1660	1320
3-Free Mast	5000	2810	6086	6476	1760	1370
3-Free Mast	5500	3010	6686	6976	1860	1570
3-Free Mast	6000	3160	7136	7476	2060	1720
3-Free Mast	6500	3310	7586	7976	2260	1870
3-Free Mast	7000	3610	8286	8476	2360	2170

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	1220mm Hook-on forks Customized fork length/non-standard accessories
Fork carriage width option	Customized fork carriage width
Backrest height	1995mm load backrest
Seat type	Upgraded suspension seat with armrest + headrest + safety seat-belt switch Grammer MSG65-531 (suspension seat with armrest + safety belt switch)
Attachments	Hook on type sideshift Hook on type fork positioner with sideshift Fork positioner with pin type forks
Battery capacity	309V228Ah LFP battery 309V304Ah LFP battery
Charger	20kw (AC 370V-460V, 50-60HZ, 32A plug) 40kw (AC 370V-460V, 50-60HZ, 63A plug)
Buzzer	Yes
Camera	Reversing radar/reversing camera/reversing radar and camera
OPS system	Yes
USB interface	USB interface 24V
Overhead guard	Standard overhead guard
Turn speed control	Yes
Heating system during lithium battery charging	Yes
Mast lifting and lowering buffer	Yes

ITEM	OPTIONS (optional items marked in yellow)
Mechanical lever	Yes
Rear grab handle with horn	Yes
Lighting package	LED front working light, turn signal light, market light, LED rear working light, strobe warning light LED working lights on mast Rotating warning light / rotating buzzer warning light Rear/rear and front blue lamp Front fog light Customized area warning lamp
Options	Fingertips Cigarette lighter socket 12V5A
Tyres type	Pneumatic Solid tyres / non-marking tyres