EFX3-301

LI-ION COUNTERBALANCE FORKLIFT 3.0T

3000 kg | 4800 mm | 80 V Li-Ion

The EFL X3 Series is designed for small and medium logistics centers, manufacturing facilities, and rental operations that require a durable electric forklift capable of replacing diesel models. Its solid tires, high ground clearance, and IP-protected structure make it suitable for outdoor conditions, while its tight turning radius (2250 mm) and compact chassis provide exceptional maneuverability in narrow aisles. This all-round versatility makes it a reliable partner for warehouses, loading bays, and production environments.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			EFX3-301
Battery voltage		V	80
Rated capacity	Q	kg	3000
Load centre distance	c	mm	500
Service weight		kg	4255
Height, mast lowered	h_1	mm	2070
Lift	h_3	mm	3000
Height, mast extended	h_4	mm	4095
Overall length	l_1	mm	3611
Overall width	b_1/b_2	mm	1154
Length to face of forks	l_2	mm	2541
Fork dimensions	s/e/l	mm	45×122×1070
Turning radius	Wa	mm	2250
Drive			Electric
Operator type			Seated

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Features

PMSM motor for higher efficiency and performance

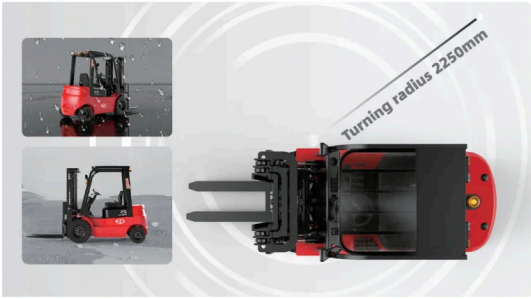
The EFL X3 Series adopts advanced Permanent Magnet Synchronous Motor (PMSM) technology, improving power output and extending battery life by up to 10%. The high-efficiency drive delivers smoother acceleration and superior energy management across demanding tasks.

Removable Li-ion battery for flexible operation

Equipped with an 80V/150Ah removable Li-ion battery (optional 280Ah), the truck allows fast side-pull replacement, ideal for continuous operations or areas lacking fixed charging points. Maintenance-free design and opportunity charging ensure maximum uptime and reliability.

Versatile for indoor and outdoor use

Thanks to its solid tires, water-protected chassis, and high ground clearance, the EFL X3 easily handles uneven outdoor terrain while maintaining excellent control indoors. Its 2250 mm turning radius ensures agile maneuvering in compact spaces.



Simplified panel

Adjustable steering wheel

Ergonomic and operator-friendly design

The operator zone includes a simplified dashboard, adjustable steering wheel, and comfortable seating, designed for all-day productivity. Optimized visibility and intuitive controls support precise load handling, reducing fatigue and enhancing safety.

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VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			EFX3-301
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	3000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	481
1.9	Wheelbase	y	mm	1650
2.1	Service weight		kg	4255
2.2	Axle loading, laden front/rear		kg	6925/530
2.3	Axle loading, unladen front/rear		kg	1805/2450
3.1	Tyres			Solidrubber
3.2	Tyre size, front		mm	7.00-12
3.3	Tyre size, rear		mm	18X7-8
3.5	Wheels, number front/rear (x=drive wheels)			2x/2
3.6	Tread width, front	b_{10}	mm	975
3.7	Tread width, rear	b_{11}	mm	955
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10
4.2	Height, mast lowered	h_1	mm	2070
4.3	Free lift	h_2	mm	135
4.4	Lift	h_3	mm	3000
4.5	Height, mast extended	h_4	mm	4095
4.7	Height of overhead guard (cabin)	h6	mm	2170
4.8	Seat height relating to SIP/stand height	h7	mm	1110
4.12	Coupling height	h10	mm	295
4.19	Overall length	l_1	mm	3611
4.20	Length to face of forks	l_2	mm	2541
4.21	Overall width	b_1/b_2	mm	1154
4.22	Fork dimensions	s/e/l	mm	45×122×1070
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width		mm	1100
4.31	Ground clearance, laden, below mast		mm	110

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	SPECIFICATION	REF	UNIT	VALUE
4.32	Ground clearance, centre of wheelbase	m_2	mm	150
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3946
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	4146
4.35	Turning radius	Wa	mm	2250
5.1	Travel speed, laden/unladen		km/h	11/12
5.2	Lift speed, laden/unladen		m/s	0.29/0.36
5.3	Lowering speed, laden/unladen		m/s	0.4/0.43
5.8	Max. gradeability, laden/unladen		%	15/15
5.10	Service brake			Hydraulic
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	8
6.2	Lift motor rating at S3 15%		kW	16
6.4.1	Battery voltage		V	80
6.4.2	Battery nominal capacity K5		Ah	100
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	144
6.6	Energy consumption according to DIN EN 16796		kWh/h	5.78
6.7	Turnover output according to VDI 2198			180
6.8	Turnover efficiency according to VDI 2198			34.32
8.1	Type of drive unit			PMSM
10.1	Operating pressure for attachments		bar	180
10.2	Oil volume for attachments		ℓ/min	35
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the driver's seat		dB(A)	74

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.

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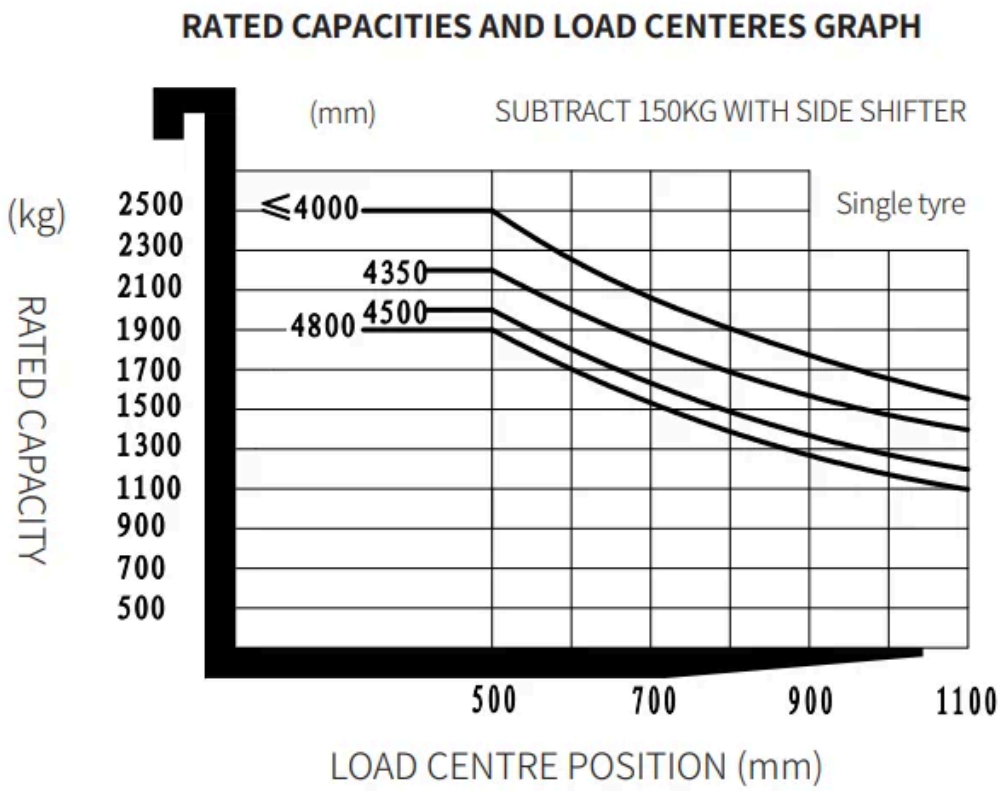
VDI Drawing



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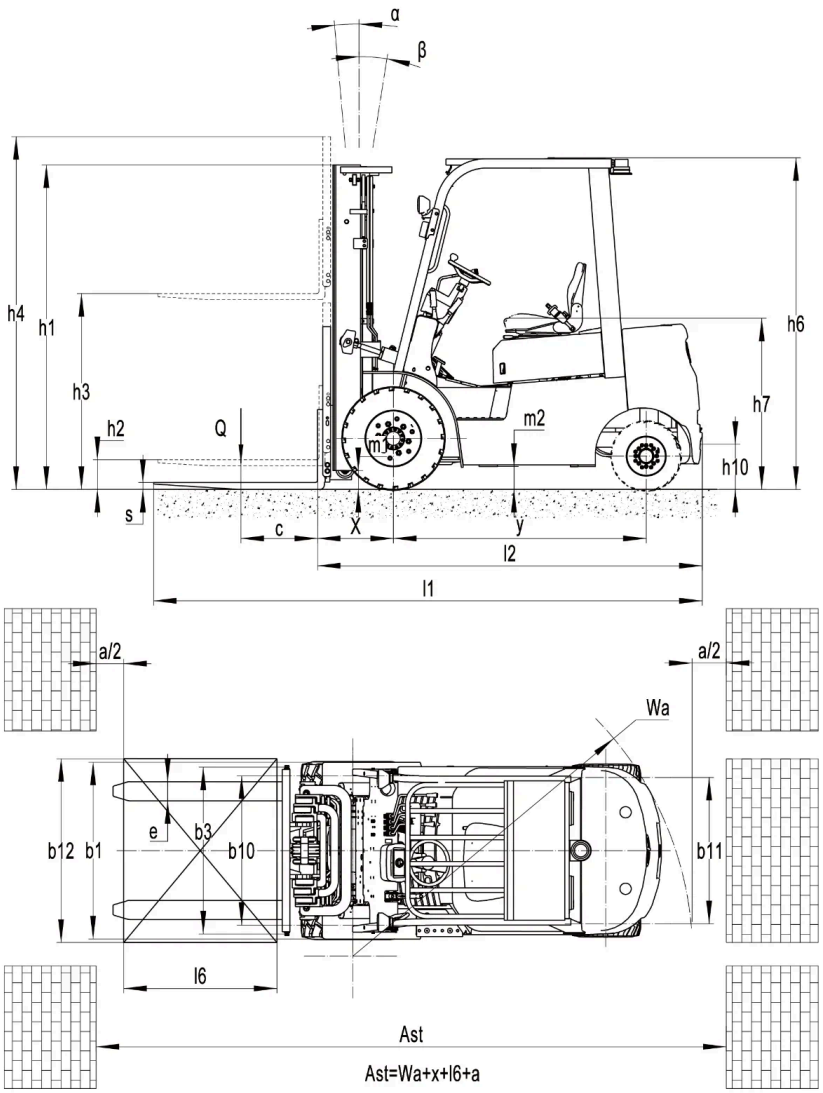

Mast Options

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	2700	1910	3330	3795	120	120
2-Standard Mast	3000	2060	3630	4095	120	120
2-Standard Mast	3300	2210	3930	4395	120	120
2-Standard Mast	3500	2310	4130	4595	120	120
2-Standard Mast	3600	2360	4230	4695	120	120
2-Standard Mast	4000	2610	4630	5095	120	120

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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	3000	2040	3630	4095	1410	945
2-Free Mast	3300	2190	3930	4395	1560	1095
2-Free Mast	3600	2340	4230	4695	1710	1245
3-Free Mast	4300	2040	4930	5395	1410	945
3-Free Mast	4500	2120	5130	5595	1490	1025
3-Free Mast	4800	2190	5430	5895	1560	1095

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	122*45*1070 | 122*45*1150 | 122*45*1220 | 122*45*1370 | 122*45*1520 | 122*45*1600 | 122*45*1700 | 122*45*1820 | 122*45*2000 | 122*45*2200 | 122*45*2400
Fork carriage width option	1040mm | Yes and can be customized
Fork carriage height	1095mm | Yes and can be customized
Front wheel material	Normal solid | Traceless solid
Rear wheel material	Normal solid | Traceless solid
Battery capacity	80V150AH | 80V100AH | 80V230AH | 80V280AH
Charger	80V35A (Internal) | 80V65A | 80V60A (Internal)
Battery indicator	With hourtime
Seat type	Regular | Suspension | Comfortable + safety belt logic switch | Suspension + safety belt logic switch | Suspension + armrests + safety belt logic switch
Attachments	No | Built-in sideshifter | External shifter | Fork positioner with sideshift
Traction pin	Yes
Electrostatic chain	Yes
Front lamp	LED
Rear lamp	No | LED
Warning lamp	Yes
Steering lamp	Yes
Blue lamp	None | Two in the front | One in the rear | Two in the front+ One in the rear
Area warning lamp	No | Both sides

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ITEM	OPTIONS (optional items marked in yellow)
Rearview mirror	One in front | Two on sides
Buzzer	Yes
OPS system	No | Yes and not customized
Telematics	Yes and not customized | No
Battery side pull function	Yes and not customized
Cabin	No | Basic half cabin | Upgrade half cabin | Full cabin | With tempered glass OHG
Battery side pull attachment	No | Yes and not customized

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