EFX2-301

4-WHEEL LI-ION COUNTERBALANCE FORKLIFT 3000KG

3000 kg | 4800 mm | 80 V Li-Ion

The EFL X2 Series is designed for operators seeking a simple, budget-friendly, and sustainable alternative to internal combustion and second-hand forklifts. Its robust chassis and high ground clearance allow smooth operation on uneven or outdoor surfaces, while the proportional lifting system ensures precision for warehouse stacking. Ideal for rental fleets, light- to medium-duty logistics, retail warehouses, and general manufacturing, it's the perfect entry-level Li-ion forklift for versatile daily use.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			EFX2-301
Battery voltage		V	80
Rated capacity	Q	kg	3000
Load centre distance	c	mm	500
Service weight		kg	4125
Height, mast lowered	h_1	mm	2060
Lift	h_3	mm	3000
Height, mast extended	h_4	mm	4095
Overall length	l_1	mm	3584
Overall width	b_1/b_2	mm	1154
Length to face of forks	l_2	mm	2514
Fork dimensions	s/e/l	mm	45×122×1070
Turning radius	Wa	mm	2258
Drive			Electric
Operator type			Seated

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Features

Efficient PMSM motor technology

The PMSM drive and lift motors deliver consistent torque and energy efficiency. Operators experience smoother lifting, improved responsiveness, and up to 15% energy savings compared to conventional AC systems.

Maintenance-free 80V Li-ion system

Equipped with an 80V/100Ah Li-ion battery and a 35A onboard charger, the EFL X2 Series supports convenient opportunity charging and requires no battery maintenance. The Li-ion system extends runtime and enhances energy reliability for daily operations.

Comfortable and ergonomic operation

An adjustable steering column, ample legroom, and a suspended seat with safety belt ensure operator comfort. The proportional lift system offers precise stacking control, ideal for tight warehouse layouts or sensitive loads.

Versatile for indoor and outdoor use

A waterproof chassis, pneumatic tires, and high ground clearance make the EFL X2 Series suitable for all working environments, from factory floors to outdoor yards. The truck's simple design and durability minimize downtime and operational cost.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			EFX2-301
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	4125
2.2	Axle loading, laden front/rear		kg	6500/625
2.3	Axle loading, unladen front/rear		kg	1715/2410
3.1	Tyres			Pneumatic

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	SPECIFICATION	REF	UNIT	VALUE
3.2	Tyre size, front		mm	7.00-12-16PR
3.3	Tyre size, rear		mm	18X7-8-14PR
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	2060
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	1100
4.12	Coupling height	h10	mm	445
4.19	Overall length	l_1	mm	3584
4.20	Length to face of forks	l_2	mm	2514
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			3A
4.24	Fork carriage width		mm	1100
4.31	Ground clearance, laden, below mast		mm	110
4.32	Ground clearance, centre of wheelbase	m_2	mm	150
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3939
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	4139
4.35	Turning radius	Wa	mm	2258
5.1	Travel speed, laden/unladen		km/h	11/12
5.2	Lift speed, laden/unladen		m/s	0.28/0.36
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

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	SPECIFICATION	REF	UNIT	VALUE
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	107
6.6	Energy consumption according to DIN EN 16796		kWh/h	6.02
6.7	Turnover output according to VDI 2198			174
6.8	Turnover efficiency according to VDI 2198			31.78
8.1	Type of drive unit			PMSM
10.1	Operating pressure for attachments		bar	180
10.2	Oil volume for attachments		ℓ/min	25
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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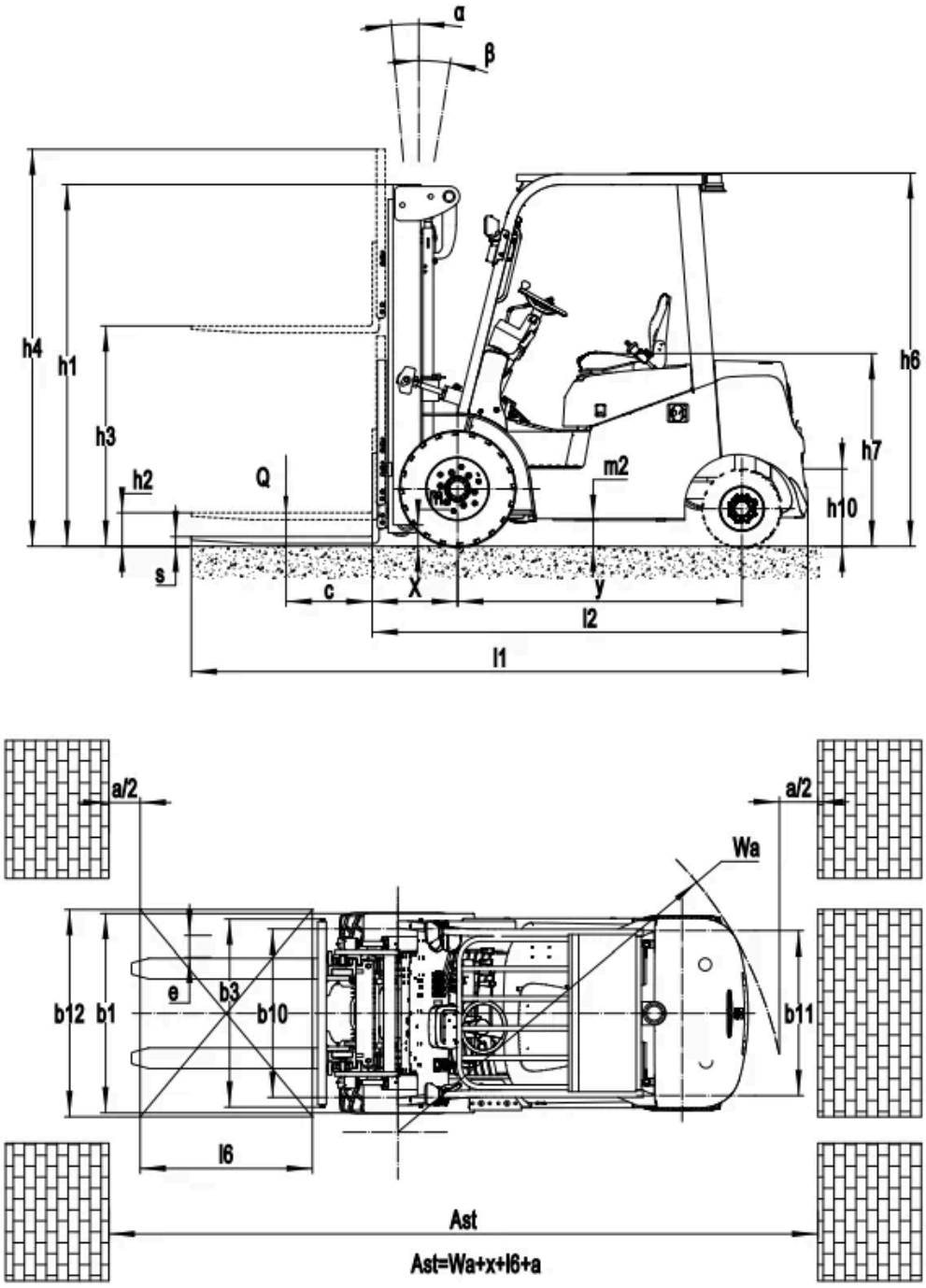
VDI Drawing



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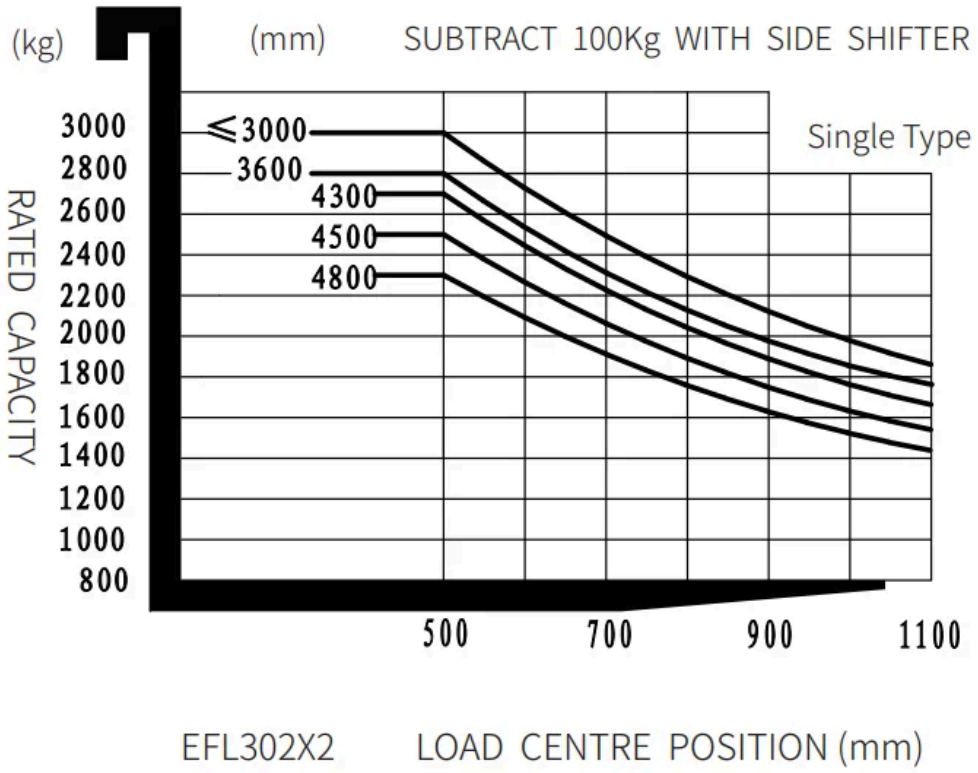
RATED CAPACITIES AND LOAD CENTERES GRAPH



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	3300	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
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

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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)
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	1100mm
Backrest height	1095mm
Front wheel material	Pneumatic | Normal solid | Non-marking solid
Rear wheel material	Pneumatic | Normal solid | Non-marking solid
Battery capacity	80V100AH | 80V150AH | 80V230AH | 80V280AH
Charger	80V35A(integrated) | 80V60A(integrated) | 80V100A (External,only for 80V230AH&280AH battery) | 80V60A （External）
Battery indicator	With hourmeter
Seat type	Regular+safety belt logic switch | Suspension+safety belt logic switch | Suspension seat with armrest + safety belt swich | Comfortable + safety belt logic switch
Attachments	No | Built-in sideshifter | External shifter
Traction pin	Yes and not customized
Electrostatic chain	Yes and not customized
Front lamp	LED
Rear lamp	No | LED
Warning lamp	Yes and not customized
Steering lamp	LED
Blue lamp	No | Front and rear | Rear | The front two and the rear one
Area warning lamp	No | Both sides | Both sides and rear
Rearview mirror	One in front | Two on sides
Buzzer	Yes and not customized
OPS system	Yes and not customized | No
USB interface	Yes and not customized

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ITEM	OPTIONS (optional items marked in yellow)
Telematics	Yes and not customized | No
Cabin	No | Upgrade half cabin | Full cabin
Proportional lift system	Yes and not customized
Forks tilt forward and backward	Yes and not customized
Overhead guard	Standard overhead guard | s:Yes and customizable
AS/NZS function package	No | Yes and not customized

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