

# EFL25 PRO

## 4-WHEEL LI-ION COUNTERBALANCE FORKLIFT 2.5T

2500 kg 6000 mm 80 V Li-Ion



Built to perform across diverse environments, the EFL Pro Series excels in warehouses, factories, logistics centers, ports, and construction yards. Its high ground clearance, large tires and IPX4 water resistance enable operation on uneven outdoor terrain, while its compact turning radius and quiet, emission-free power make it ideal for indoor use as well. Designed to replace traditional diesel forklifts, the EFL Pro provides high performance with reduced operating costs.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity		Ah	80V280AH
Battery voltage		V	80
Load capacity	Q	kg	2500
Load centre distance	c	mm	500
Service weight		kg	4450
Retracted mast height	h <sub>1</sub>	mm	2090
Lift height	h <sub>3</sub>	mm	3000
Height, mast extended	h <sub>4</sub>	mm	4060
Overall length		mm	3610
Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1154
Length to face of forks	l <sub>2</sub>	mm	2540
Fork dimensions	s/e/l	mm	40×122×1070
Turning radius		Wa	2260
Model designation			EFL 25 PRO
Drive			Electric

# Features

## Unmatched Performance and great operator experience

Powered by a 17kW AC driving motor and 30kW PMS pump motor system, the EFL PRO achieves performance, gradeability and residual capacity in line with the best electric forklift with the advantage of the high ground clearance, the big size tires and robust chassis.

EFL PRO hydraulic system feature:

- Full-proportion solenoid valve for a more accurate micro-control
- PMS pump motor and screw type pump for precise and silent hydraulic operation
- Big diameter hydraulic tubing for high oil flow also on the attachments



## Sleek Appearance with Enhanced Versatility

The EFL PRO Series combines a sleek, fully-molded design with outstanding stability, thanks to its extended 1753 mm wheelbase. Despite its robust stance, key dimensions—such as width and turning radius—remain comparable to standard electric forklifts, ensuring versatility in any application. Modern LED lighting enhances visibility and reinforces its contemporary look, while the electric parking brake and automatic stop on ramp further elevate safety and control.

## State of the art controls on the armrest

Multiple functions are integrated at the palm-size end including: forward/reverse, gear switch, lifting/lowering, tilting, sideshift and 4th way, automatic fork leveling button, horn, clamp interlock button, 5th way button switch, turning light switch, storage box and USB port, emergency switch





## Informative and Multi-functional Full-touch Display

The new OLED touchscreen display provides real-time monitoring of all key forklift operating parameters, including battery state of charge, driving speed, travel direction, wheel angle, and mast tilt angle. Optional functions such as lift height and load weight indicators can also be integrated. Thanks to its touch interface, the operator can easily control all auxiliary systems, including the lighting system, wipers, and cabin heater.

## Ergonomic Cabin for Fatigue-free and Convenient Operation

The EFL PRO's ergonomic design begins the moment the operator steps aboard, thanks to the largest access step in its class. Once inside, the EFL PRO features a spacious driving area with a standard suspended seat with armrest. A reduced-size steering wheel, a hydraulic accumulator to prevent kickback, a tempered glass roof for enhanced visibility, and practical storage compartments further elevate the operator experience. For ease of service, power and auxiliary controllers are housed in a protected area accessible through removable panels.



## Revolutionary Li-ion Battery and Charging System



At the core of the EFL PRO Series is EP's breakthrough Li-ion technology — a new Li-ion battery system composed of three independent battery modules operating in series to achieve 80V. Each module functions autonomously, ensuring consistent performance and enhanced reliability. This battery architecture enables power from 280Ah to 628Ah, allowing the EFL PRO to adapt its endurance to a wide range of applications. Additionally, each battery module can be repaired or replaced individually, eliminating the costly full-pack replacements typically required when single cells fail. For further charging convenience, both integrated charging and external charging port are available on one truck making EFL PRO flexible for all kinds of applications needs.

## Complete configuration including Telematic and innovative options

EFL PRO comes standard with telematic system that allows to manage the fleet and the rental activities in an effective and efficient manner. The system tracks data for truck and battery usage, like uptime, battery status and real-time location. It allows users to monitor and analyze assets conditions, providing remote diagnostics and improving the efficiency of fleet management. Another standard feature of the EFL PRO is the ergonomic armrest equipped with fingertip or joystick controls including load-leveling function activated at the press of a single button.

The following items are available as optional equipment:

Full cabin with integrated heater on the dashboard; Load height indicator; Load weight indicator; 360°Panorama System with human recognition and collision waring (no CE); Panoramic OHG with glass roof (no CE); Turn speed control; Ambient-noise Adaptive Buzzer(no CE)



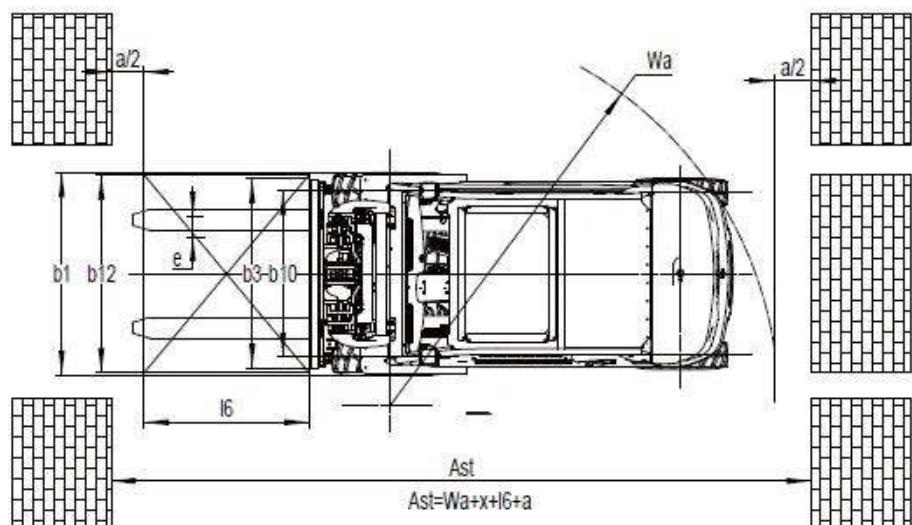
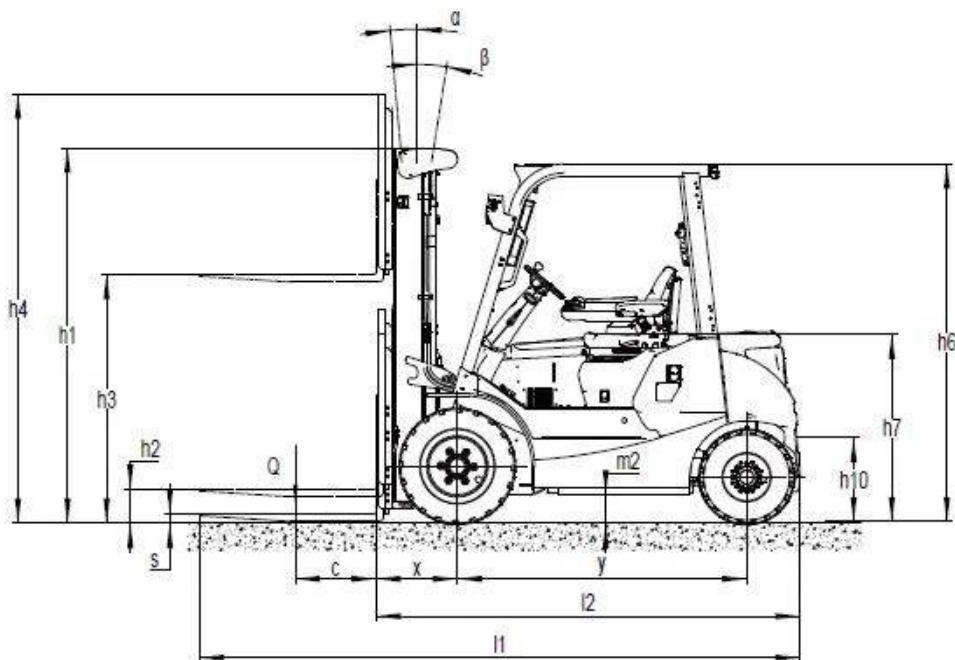
## VDI Chart

SPECIFICATION	REF	UNIT	VALUE
1.2 Model designation			EFL 25 PRO
1.3 Drive			Electric
1.4 Operator type			Seated
1.5 Load capacity	Q	kg	2500
1.6 Load centre distance	C	mm	500
1.8 Load distance, centre of drive axle to fork		mm	495
1.9 Wheelbase		mm	1730
2.1 Service weight		kg	4450
2.2 Axle loading, laden front/rear		kg	6065/885
2.3 Axle loading, unladen front/rear		kg	2127/2323
3.1 Tyre type			Pneumatic
3.2 Tyre size, front		mm	7.00-12-12PR
3.3 Tyre size, rear		mm	6.00-9-10PR
3.4 Additional wheels (castor wheels)		mm	2x/ 2
3.5 Wheels, number front/rear (x=drive wheels)			2x/ 2
3.6.1 Tread width, front	b <sub>10</sub>	mm	975
3.7.1 Tread width, rear	b <sub>11</sub>	mm	945

SPECIFICATION		REF	UNIT	VALUE
4.0	Max lift height	H	mm	6000
4.1	Tilt of mast/fork carriage forward/backward		°	6/6
4.12	Tow coupling height		mm	510
4.19	Overall length		mm	3610
4.2	Retracted mast height	$h_1$	mm	2090
4.2.1	Overall height			4060
4.20	Length to face of forks	l2	mm	2540
4.21	Overall width	$b_1/b_2$	mm	1154
4.22	Fork dimensions	s/e/l	mm	40×122×1070
4.23	A,B Fork carriage class/type A, B			2A
4.24	Fork carriage width		mm	1040
4.3	Free lift		mm	195
4.31	Ground clearance, laden, below mast		mm	130
4.32	Ground clearance, centre of wheelbase		mm	165
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast		3955
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast		4155
4.35	Turning radius	Wa		2260
4.4	Lift height	$h_3$	mm	3000
4.5	Height, mast extended	$h_4$	mm	4060
4.7	Height of overhead guard (cabin)		mm	2170
4.8	Seat height/standing height		mm	1138
5.1	Travel speed, laden/unladen	km/h		19/20
5.10	Service brake			Hydraulic
5.11	Parking brake			Electromagnetic
5.2	Lifting speed, laden/unladen	m/s		0.55/0.58
5.3	Lowering speed, laden/unladen	m/s		0.54/0.56
5.5	Drawbar pull, laden/unladen			5964
5.6	Max. drawbar pull, laden/unladen			18735
5.8	Max. gradeability, laden/unladen	%		22/28
6.1	Drive motor rating S2 60 min	kW		15
6.2	Lift motor rating at S3 15%	kW		30
6.4	Battery nominal capacity	Ah		80V280AH
6.4	Battery voltage	V		80
6.4.1	Battery type			Li-Ion
6.5	Battery weight	kg		184

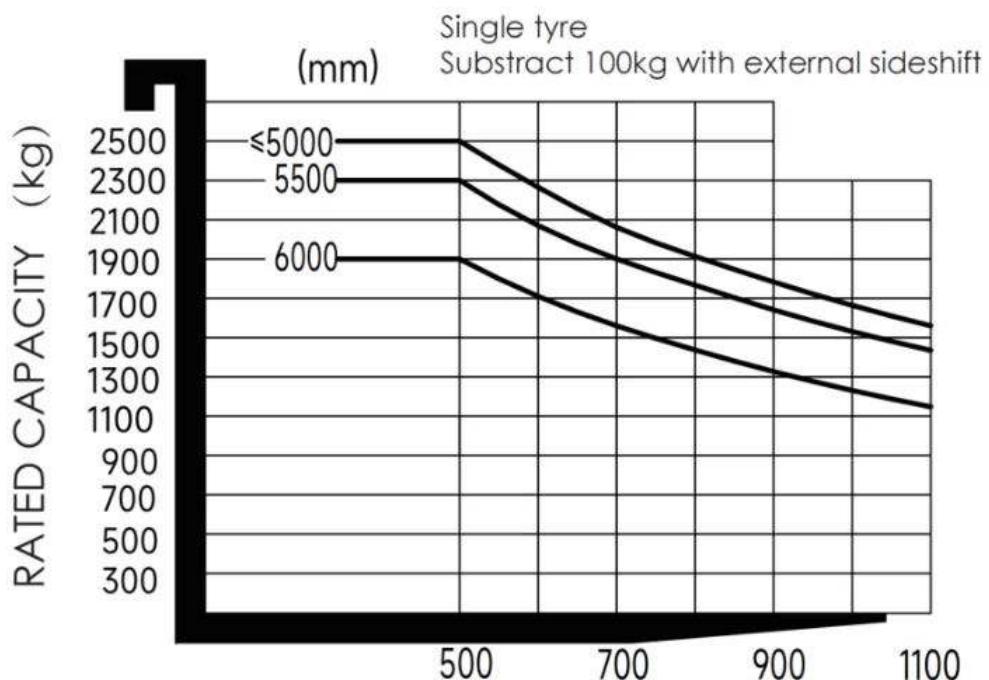
SPECIFICATION	REF	UNIT	VALUE
6.6 Energy consumption according to DIN EN 16796		kWh/h	10.22
6.7 Turnover output according to VDI 2198			160
6.8 Turnover efficiency according to VDI 2198			17.7
8.1 Type of drive control			AC
10.1 Operating pressure for attachments		bar	180
10.2 Oil volume for attachments		ℓ/min	35
10.5 Steering design			Hydraulic
10.7 Sound pressure level at the drivers ear		dB(A)	< 70

## VDI Drawing



# EFL 25 PRO

## RATED CAPACITIES 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)	FORWARD TILT (A, DEG)	BACKWARD TILT (B, MM)	LOAD DISTANCE (X, KG)
2-Standard Mast	3000	2090	3595	4060	195	195	6	6	495
2-Standard Mast	3300	2240	3895	4360	195	195	6	6	495
2-Standard Mast	3500	2340	4095	4560	195	195	6	6	495
2-Standard Mast	3600	2390	4195	4660	195	195	6	6	495
2-Standard Mast	4000	2640	4595	5060	195	195	6	6	495
2-Standard Mast	4500	2890	5095	5560	195	195	6	6	495
2-Free Mast	3000	2035	3765	4100	1345	1010	6	6	476
2-Free Mast	3300	2185	4065	4400	1495	1160	6	6	476
2-Free Mast	3600	2335	4365	4700	1645	1310	6	6	476
3-Free Mast	4300	2080	5040	5355	1370	1055	6	6	482

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)	FORWARD TILT (A, DEG)	BACKWARD TILT (B, MM)	LOAD DISTANCE (X, KG)
3-Free Mast	4500	2160	5280	5595	1450	1135	6	6	482
3-Free Mast	4800	2265	5580	5895	1555	1240	6	6	482
3-Free Mast	5000	2350	5730	6045	1640	1325	6	6	482
3-Free Mast	5500	2600	6230	6545	1890	1575	6	6	482
3-Free Mast	6000	2850	6730	7045	2140	1825	6	6	482

## Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	122*40*920   122*40*1070   122*40*1150   122*40*1220   122*40*1370   122*40*1500   122*40*1600
Seat type	Comfortable + safety belt switch (41)   Suspension seat with armrest and safety belt swich   GRAMMER-MSG65
Attachments	Built-in sideshifter   External shifter   Fork positionr with sideshift   External shifter with adjustable forks   Clamp
Traction pin	Yes and not customized
Electrostatic chain	Yes and not customized
Front wheel material	Pneumatic   Normal solid   Traceless solid
Rear wheel material	Pneumatic   Normal solid   Traceless solid
Battery capacity	80V280AH   80V560AH   80V628AH(NON-CE)
Charger	80V65A (NON-CE)   80V60A (CE)   80V35A integrated   80V60A integrated   80V130A   80V150A   80V200A (560/628AH)
Battery display indicator (BDI)	With time (Bluetooth)
Area warning lamp	No   Both sides   Both sides and rear
Rearview mirror	One in front   Two on sides and one in front
Buzzer	Regular buzzer   Ambient-noise adaptive buzzer (NON-CE)
OPS system	Yes and not customized
USB interface	Cigarette lighter+USB with A and C type
Telematics	Yes and not customized   No
Front lamp	LED

ITEM	OPTIONS (optional items marked in yellow)
Rear lamp	No   LED
Warning lamp	Yes and not customized
Steering lamp	LED
Blue lamp	No   Rear   Front and rear
Cabin	No   Basic semi-enclosed cabin   Upgraded semi-enclosed cabin   Full cabin   Full cabin with heater
Overhead guard	Strip glass with anti-explosion film   Panoramic glass roof (NON-CE)
Clamp interlock	No   Yes and not customized
Special AUS/NZ options	No   Yes and not customized
Turn speed control	Yes and not customized   No
Heating system during lithium battery charging	No   Yes and not customized
Operator identification device	No   Card reader
Lifting electronic limit	No   Yes and not customized
Hydraulic control	Fingertip   Joystick
Rear armrest horn	Yes and not customized
Electronic Parking	Yes and not customized
Area Speed Limit System	No   Yes and not customized
High-position lateral shift speed control	No   Yes and not customized
Tilt Leveling Option	No   Yes and not customized
Weighing system	No   Yes and not customized
Wiper water unit	Yes only with cabin
Automatic Parking Brake	Yes and not customized
Height display+Forward tilt speed limit+High-position lateral shift speed control	No   Yes and not customized
Automatic fork leveling	No   Yes and not customized
Surround View System+Human recognition system	No   Yes and not customized (NON-CE)