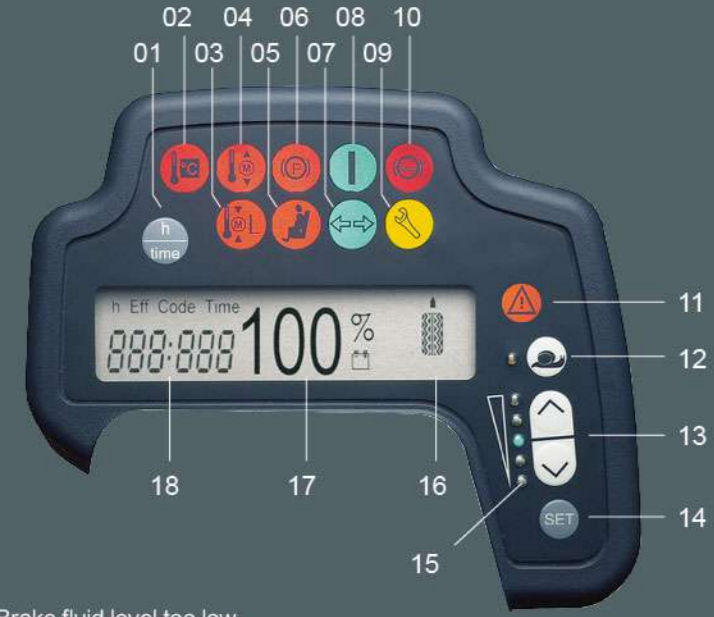


The multi-function display shows the truck operating data, battery discharge, service hour, error code, etc. Graphic illustrations on the display indicate all kinds of warning messages.



- |                                       |  |
|---------------------------------------|--|
| 01 Service hours / time toggle switch | 10 Brake fluid level too low   |
| 02 Controller overtemperature         | 11 Lights up for errors or flashing when battery capacity is less than 10% |
| 03 Pump motor overtemperature         | 12 Crawl speed button  |
| 04 Drive motor overtemperature        | 13 Program selector  |
| 05 Seat switch                        | 14 SET key   |
| 06 Parking brake applied              | 15 Operating program display (programs 1 to 5)                             |
| 07 Travel direction indicator         | 16 Travel direction and wheel position display                             |
| 08 Truck in operation                 | 17 Battery capacity display  |
| 09 Service display / UVV display      | 18 Time and service hours or diagnostics and error display                 |

Standard configuration

- Wide view standard mast
- Standard forks
- Class II standard fork carriage
- Two-spool control valve
- Battery
- Standard seat
- Overhead guard
- LCD combined display
- Solid tires

Optional configuration

- Traction pin
- Automatic steering slow down device
- Working lights, turning lights and braking lights (rear light)
- Load backrest
- LED Warning lights
- Reversing buzzer
- Rear View Mirror
- OPS
- Without forks
- Sideshifter -hung-up
- Sideshifter -integrated
- No-marking-tires
- Long forks
- Accessory hydraulic component
- FanSize 6", metal made, 3 speed modes

\* Details of specifications and equipment are based on information available at time of printing and may change without notice.



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**1.6-2 t**  
EFG series AC Electric  
Forklift Truck

**1.6-2 t** EFG series AC Electric  
Forklift Truck



**Operator Comfort**

- Low access steps. Large, level foot well with automotive pedal lay-out.
- Floating cab module cushions road shocks and vibrations.
- Clear view: mast and fork carriage allow for excellent visibility of the load and of the road.
- Hydraulic power steering is precise, requiring the minimal amount of effort without kick-back.
- Comfort Display provides up-to-date information on vital vehicle conditions at a glance.

**Safe, wear-free braking**

- Regenerative electric braking in reversing mode and regular brake pedal use.
- Multiple oil disk brakes act as a safety back-up. Wear-free and fully enclosed.

**Safety**

- Curve Control automatically reduces travel speed when cornering.
- Very low centre of gravity improves stability and residual capacity.
- Electronic and hydraulic overload protection guard.



**Maintenance free electric motors**

- Proven AC technology: 2 drive motors, hydraulic pump motor, steering motor. High performance, low energy consumption, less maintenance.
- High torque for rapid work cycles.
- Up to 15% higher energy efficiency than shunt motors.
- No brushes, no collector - no maintenance expense.
- Fully enclosed and protected to IP 54. Long life, even under dusty and damp conditions.

**Intelligent electronics**

- Board Control electronic system permanently controls and monitors all truck functions.
- 5 application programmes can be individually adapted to ensure optimal performance in any application.
- Diagnostic system monitors all components and provides service data memory for rapid and cost-effective maintenance.
- Comfort Display with digital service hour meter (actual or cyclic duration factor), battery discharge indicator plus lift cut-out, clock, error code and warning displays.
- Electronic steer wheel position indicator.





# 1.6-2t EFG series AC Electric Forklift Truck



## EFG 1.6-2t AC Electric Forklift Truck

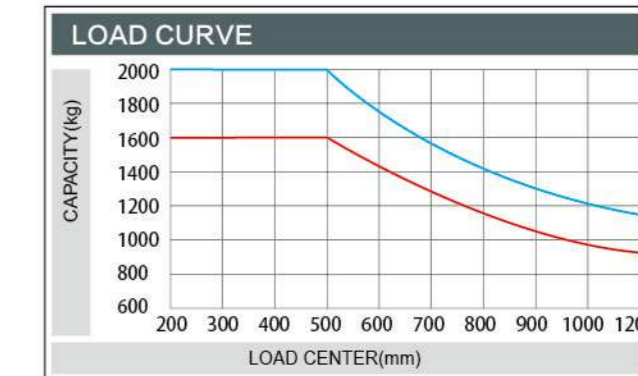
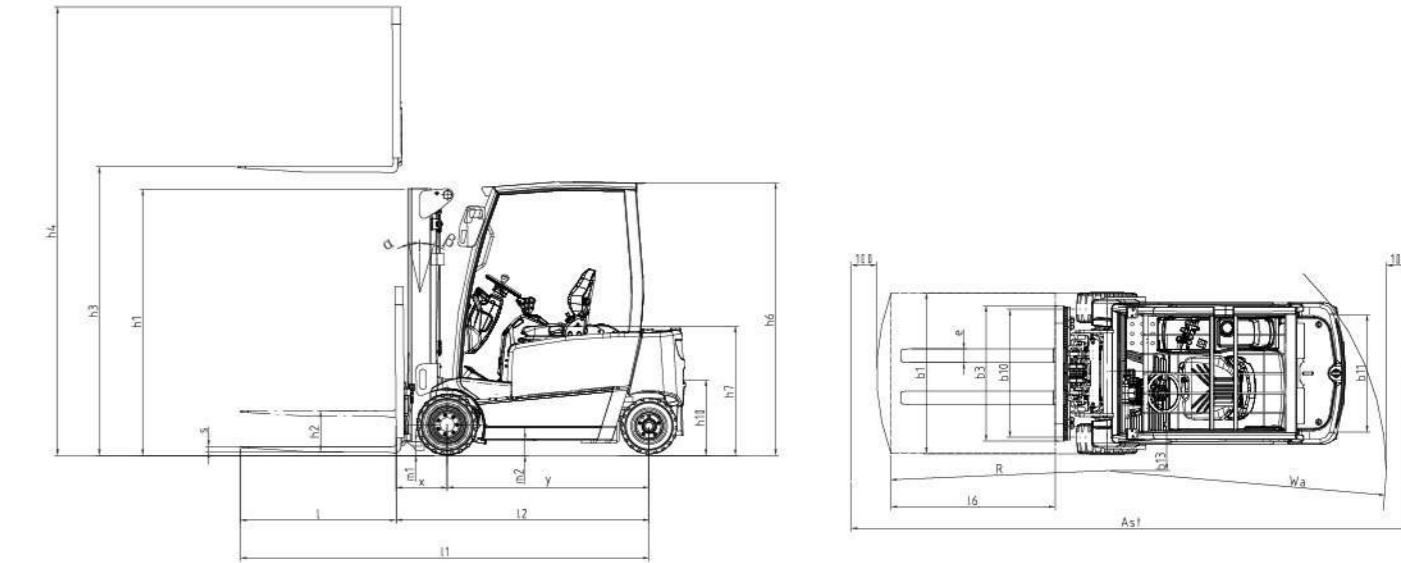
- 3-phase, heavy-duty fork lift truck with enclosed, twin AC motor front-wheel drive
- Five individually adjustable operating programmes
- High residual capacity
- Curve Control for safer travelling and cornering
- Maintenance-free multi-disc brakes



### Manufacturer's Data and Design Characteristics

Characteristics			Jungheinrich	Jungheinrich
1.1	Manufacturer (abbreviation)		EFG 316n	EFG 320n
1.2	Model		Electric	Electric
1.3	Drive		Seated	Seated
1.4	Operator type		1.6	2.0
1.5	Load capacity/rated load	t	500	500
1.6	Load centre distance	mm	352 (note 1)	352 (note 1)
1.7	Load distance	mm	1490	1490
1.8	Wheelbase	mm		
<b>Weight</b>				
2.1	Service weight incl. battery (see row 6.5)	kg	3220	3440
2.2	Axle loading, w. load, front / rear	kg	3990/830	4800/640
2.3	Axle loading, w.o. load, front / rear	kg	1520/1700	1660/1780
<b>Tyres</b>				
3.1	Tyre size, front		SE/SE	SE/SE
3.2	Tyre size, rear		18x7-8	200/50-10
3.3	Wheels number, front/rear (x = driven wheels)		16x6-8	16x6-8
3.4	Tread, front	mm	2x2	2x2
3.5	Tread, rear	mm	904	915
		mm	830	830
<b>Size</b>				
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	7/5
4.2	Mast height (lowered)	h1	mm	1960
4.3	Free lift height	h2	mm	100
4.4	Lift height	h3	mm	3000
4.5	Extended mast height	h4	mm	4220
4.6	Height of overhead guard	h6	mm	2000
4.7	Seat height/stand height	h7	mm	950
4.8	Coupling height	h10	mm	410
4.9	Coupling 2 height		mm	580
4.10	Overall length	l1	mm	3260
4.11	Length to face of forks	l2	mm	2110
4.12	Total width	b1	mm	1060
4.13	Fork dimensions	s/el	mm	40/100/1150
4.14	Fork carriage ISO 2328, class/type A, B			2A
4.15	Fork carriage width	b3	mm	980
4.16	Floor clearance with load under mast	m1	mm	80
4.17	Floor clearance centre of wheelbase	m2	mm	90
4.18	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	3630
4.19	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	3830
4.20	Turning radius	Wa	mm	2080
4.21	Smallest pivot point distance	b13	mm	635
<b>Performance</b>				
5.1	Travel speed, w. / w.o. load	km/h		16.5/17.2
5.2	Lift speed, w. / w.o. load	m/s		0.47/0.61
5.3	Lowering speed, w. / w.o. load	m/s		0.55/0.55
5.4	Drawbar pull w. / w.o. load	N		2150/2450
5.5	Max. drawbar pull w. / w.o. load	N		12300/12700
5.6	Gradeability laden/unladen	%		7/11
5.7	Max. gradeability laden/unladen	%		20/35
5.8	Acceleration laden/unladen	s		3.8/3.4
5.9	Service brake			Hydraulic/Mechanic
<b>Motor and controller</b>				
6.1	Drive motor, output S2 60 min.	kW		4.0/4.0
6.2	Lift motor, output at S3 15%	kW		10
6.3	Battery according to DIN 43531/35/36 A,B,C, no			A 43531
6.4	Battery voltage/nominal capacity K5	V/Ah		48/750
6.5	Battery weight	kg		1090
6.6	Battery size length/width/height	mm		830/738/627
6.7	Energy consumption according to VDI cycle	kWh/h		4.3(note 2)
<b>Type of drive control</b>				
7.1	Working pressure for attachments	bar		200
7.2	Oil flow for attachments	l/min		25
7.3	Sound level at operator's ear as per EN 12053	dB (A)		66
7.4	Trailer coupling, model/type DIN			DIN 15170/H

Note: 1. ZSM mast x=377mm; integral side shifter; M mast x=385mm, ZSM mast x=410mm; Hung-up side shifter; M mast x=410.5mm; ZSM mast x=435.5mm. 2. 45 VDI working cycle per hour. This data based on the VDI standard 2198 only marks the technical parameters of the standard model; non-standard tires, different mast types and ancillary devices will change the data above. HELI reserves the right to improvements and technology update.



Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

#### WIDE VIEW MAST

Mast model	Max. lifting height mm	Load capacity (Load center 500mm) kg		Mast overall height (Fork to the ground) mm	Free lifting height mm	Mast tilt angle (deg.) α/β
		1.6t	2t			
M300	3000	1600	2000	1960	100	7/5
M330	3300	1600	2000	2105	100	7/5
M360	3600	1600	2000	2255	100	7/5
M400	4000	1600	2000	2455	100	7/5
M450	4500	1500	2000	2755	100	7/5
M500	5000	1400	1700	3005	100	7/5

#### WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (Load center 500mm) kg		Mast overall height (Fork to the ground) mm	Free lifting height (without backrest) mm	Mast tilt angle (deg.) α/β
		1.6t	2t			
ZM330	3300	1600	2000	2105	1545	7/5
ZM360	3600	1600	2000	2255	1695	7/5
ZM400	4000	1600	2000	2455	1895	7/5

#### WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (Load center 500mm) kg		Mast overall height (Fork to the ground) mm	Free lifting height (without backrest) mm	Mast tilt angle (deg.) α/β
		1.6t	2t			
ZSM450	4500	1550	1900	2005	1445	7/5
ZSM480	4800	1500	1750	2105	1545	7/5
ZSM500	5000	1400	1650	2180	1620	7/5
ZSM550	5500	1250	1400	2355	1795	7/5
ZSM600	6000	1000	1200	2555	1995	7/5
ZSM650	6500	800	950	2805	2245	7/5