

Standard configuration      Optional

- |   |                               |
|---|-------------------------------|
| Wide view standard mast                               | Without forks                 |
| Standard fork   | Hook-on Sideshifter           |
| Class II standard carriage                            | Integral Sideshifter          |
| Three-spool control valve                             | Non-marking tires(white)      |
| Battery   | Lengthened forks              |
| Standard seat   | Auxiliary hydraulic component |
| Overhead guard  | Seat armrest                  |
| LED combined display                                  | Multipilot                    |
| Super elastic solid tires                             | Duopilot                      |
| Traction pin  |                               |
| Automatic turning deceleration device                 |                               |
| Front combined lights (headlights and turning lights) |                               |
| Brake lights (rear lights)                            |                               |
| Warning lights  |                               |
| Reversing buzzer                                      |                               |
| Load guard  |                               |
| Inner spherical mirror                                |                               |

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



**M SERIES 1.6-2 t**



**Lateral battery exchange-Save operation time**

- Various of battery replacement methods: the battery can be removed from the side or lifted out from the top.

**Safety**

- Multiple oil disk brakes act as a safety back-up. Wear-free and fully enclosed.
- Curve Control automatically reduces travel speed when cornering.

**Ergonomic design cab**

- The forklift operation status can be seen through the color display at a glance
- Comfortable suspension seat and armrest (optional).
- 2 USB interface can be used to charge the devices at any time (optional).

**Fingertip Operation -Reduce fatigue, improve efficiency**



- All hydraulic function can be controlled by fingertips, minimizing hand and arm movements.
- Easy control of integrated horn & direction switches in one hand
- Electronic proportional hydraulic control valve, more sensitive and precise control.

**Intelligent electronics (Intelligent control technology)**

- The display control panel controls all functions in vehicles in real time.
- Can choose five different applications to adapt to different conditions.
- The LED display shows working hours, battery power, lifting disconnect, time, error code and warnings.
- Indicate the current position of the steering wheel



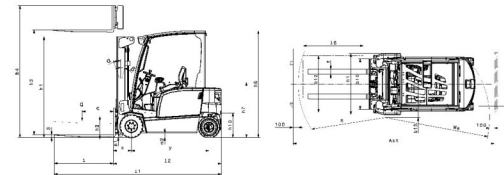
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Forklift Truck



Manufacturer's Data and Design Characteristics

Identification				Jungheinrich	
1.1	Manufacturer (short form)			EFG MC 316	EFG MC 320
1.2	Model			Electrics	Electrics
1.3	Drive			Seat	Seat
1.4	Manual, pedestrian, stand-on, seated, order picker operation			1660	2000
1.5	Load capacity/rated load			500	500
1.6	Load centre distance	Q	kg	352	352
1.8	Load distance	c	mm	1506	1506
1.9	Wheelbase	x	mm		
		y	mm		
<b>Weights</b>					
2.1	Net weight incl. battery (see row 6.5)		kg	3437	3768
2.2	Axle load, w. load, front / rear		kg	3989/1048	4971/797
2.3	Axle load, w.o. load, front / rear		kg	1699/1738	1880/1888
<b>Wheels / chassis</b>					
3.1	Tyres			SE/SE	SE/SE
3.2	Tyre size, at front		mm	18x7-8	200/50-10
3.3	Tyre size, at rear		mm	16x6-8	16x6-8
3.5	Wheels number, front/rear (X = driven wheels)			2x/2	2x/2
3.6	Track width, front	b10	mm	904	924
3.7	Track width, rear	b11	mm	870	870
<b>Basic dimensions</b>					
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	7/5	7/5
4.2	Mast height (lowered)	h1	mm	2000	2000
4.3	Free lift height	h2	mm	150	150
4.4	Lift height	h3	mm	3000	3000
4.5	Extended mast height	h4	mm	4220	4220
4.7	Height of overhead guard	h6	mm	2080	2080
4.8	Seat height/stand height	h7	mm	1030	1030
4.12	Coupling height	h10	mm	475	475
4.12.1	Coupling 2 height		mm	0	0
4.19	Overall length	l1	mm	3096	3096
4.2	Length incl. back of forks	l2	mm	2096	2096
4.21	Total width	b1/b2	mm	1060	1120
4.22	Fork dimensions	s/e/l	mm	40/100/1000	40/100/1000
4.23	Fork carriage ISO 2328, class/type A, B	2A		2A	2A
4.24	Fork carriage width	b3	mm	980	980
4.31	Floor clearance with load under mast	m1	mm	97	97
4.32	Floor clearance centre wheelbase	m2	mm	90	90
4.33	Aisle width for pallets 1000 x 1200 sideways	Ast	mm	3485	3485
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	3656	3656
4.35	Turning radius	Wa	mm	1925	1925
4.36	Smallest pivot point distance	b13	mm	562	562
<b>Performance data</b>					
5.1.1	Standard Travel speed, w. / w.o. load		km/h	16/16	16/16
5.1.2	Plus Travel speed, w. / w.o. load		km/h	19/19 (note 1)	18.6/19 (note 1)
5.2.1	Standard Lift speed, w. / w.o. load		m/s	0.43/0.66	0.38/0.52
5.2.2	Plus Lift speed, w. / w.o. load		m/s	0.57/0.82 (note 1)	0.50/0.68 (note 1)
5.3	Lower speed, w. / w.o. load		m/s	0.55/0.55	0.55/0.55
5.5	Drawbar pull w. / w.o. load		N	2100/2450	1900/2300
5.6	Max. drawbar pull w. / w.o. load		N	13500/13500	13500/13500
5.7	Gradeability laden/unladen		%	12/20	12/20
5.8	Max. gradeability laden/unladen		%	24/35	22/25
5.9.1	Standard Acceleration laden/unladen		s	4.0/3.8	4.5/4
5.9.2	Plus Acceleration laden/unladen			3.5/3.1 (note 1)	3.7/3.3 (note 1)
5.10	Service brake			Hydraulic/Mechanic	Hydraulic/Mechanic
<b>Electrics</b>					
6.1	Drive motor, output S2 60 min.		kW	4.6/4.6	4.6/4.6
6.2	Lift motor, output at S3 15%		kW	15.5	15.5
6.3	Battery according to DIN 43531/35/36 A,B,C, no			DIN 43531 A	DIN 43531 A
6.4	Battery voltage/nominal capacity K5		V/Ah	48/750	48/750
6.5	Battery weight		kg	1013	1013
6.6	Energy consumption according to VDI cycle		kWh/h	4.3 (note 2)	4.8 (note 2)
<b>Misc.</b>					
8.1	Type of drive control			MP/AC	MP/AC
8.2	Working pressure for attachments		bar	200	200
8.3	Oil flow for attachments		l/min	25	25
8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	72	72
8.5	Trailer coupling, model/type DIN			DIN 15170 H	DIN 15170 H

Note: 1, Plus is option. 2, 45 VDI working cycle per hour.  
This data based on the VDI standard 2198 only means the technical parameters of the standard model; non-standard tire, different mast types and ancillary devices will change the data above. HELI reserves the right to improvements and technology updates.



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 (°) α/β
		1.6t	2t		1.6t	2t	
M300	3000	1600	2000	2000	150	150	7/5
M360	3600	1600	2000	2150	150	150	7/5
M400	4000	1600	2000	2300	150	150	7/5
M450	4500	1500	2000	2800	150	150	7/5
M500	5000	1400	1700	3050	150	150	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 (mm)		Mast tilt angle (°) α/β
		1.6t	2t		1.6t	2t	
ZM330	3300	1600	2000	2105	1545	1488	7/5
ZM360	3600	1600	2000	2255	1695	1638	7/5
ZM400	4000	1600	2000	2455	1895	1838	7/5

Free lift height 650mm decreased with backward.

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 (mm)		Mast tilt angle (°) α/β
		1.6t	2t		1.6t	2t	
ZSM450	4500	1550	1900	2005	1445	1388	7/5
ZSM480	4800	1500	1750	2105	1545	1488	7/5
ZSM500	5000	1400	1650	2180	1620	1563	7/5
ZSM550	5500	1250	1400	2355	1795	1738	7/5
ZSM600	6000	1000	1200	2555	1995	1938	7/5
ZSM650	6500	800	950	2805	2245	2188	7/5

Free lift height 650mm decreased with backward.