

Jungheinrich Electric 3-Wheel Forklift Truck Capacity 3,000 lb

EFG-DF ac 16 EFG-DF ac 16 L



- **AC high performance truck with 2-motor front-wheel drive**
- **“LISA” display with 5 individually adjustable work programs**
- **Jungheinrich Curve Control**
- **Maintenance-free disk brakes**

Application: A compact design and very high performance data ensure high maneuverability in confined spaces such as trailers and containers. Electric drive creates an exhaust-free, low-noise work environment. Ideal for combined indoor and outdoor use. Optimum traction also on slippery floors and gradients with 2-motor front wheel drive.

Operator Work Place: A low step-up, high visibility cab with ample leg room, 3-way adjustable comfort seat, and conveniently located hydraulic control levers for lifting/lowering, mast tilt, drive direction and horn provide the operator with the highest ergonomic comforts. A cushion mounted chassis best eliminates vibrations to the cab and the components.

Instruments: The display and setting device LISA (LC information and Service Display) features a digital hour meter, wheel position indicator and BDI with lift cut-off. 5 different work programs are available in order to adjust the truck performance to different work environments. Furthermore fault information is displayed for operator and service technician.

Drive Train: 2-motor front-wheel drive. The compact drive units, comprising of motor, planetary/spur gear units, laminated brake and wheel, are connected separately to the chassis and are lifetime maintenance-free.

Motors: AC drive motors 2 x 4.0 kW, AC lift motor 10 kW, steering motor 0.8 kW. Enclosed 3-phase

AC motors with high efficiency. Display and automatic performance reduction for excess temperature. 2 year warranty.

Controllers: Standard micro-processor controlled frequency converter controls for travel and lift. High efficiency is ensured with MOSFET power transistors. Data transfer via CAN-Bus system for interference-free communication between electric components. Drive control permits sensitive starting, powerful acceleration and finely adjustable electric motor braking with energy reclamation. Hydraulic control ensures sensitive lifting, exact positioning and energy efficient operation.

Wheels: Standard Superelastic (= solid pneumatic) tires. Non-marking, pneumatic or solid tires optional.

Front Axle					
Tire type	Nos.	off size	PR	track-width	truck-width
Superelastic	2	18x7-8	–	35.6"	41.7"
Pneumatic	2	18x7-8	16	35.6"	42.5"
Solid rubber	2	18x7x12½	–	35.6"	42.1"
Rear Axle					
Tire type	Nos.	off size	PR	track-width	
Superelastic	2	140/55-9	–	6.9"	
Pneumatic	2	15x4.5-8	12	6.9"	
Solid rubber	2	15x5x11¼	–	7.5"	

Steering: Energy-saving hydraulic steering with power-on-demand separate steering motor. Adjustable steering wheel arranged off-center left for maximum comfort. Dual rear wheels for reduced floor pressure and improved stand stability.

Brake: Two independent braking systems acting on the front wheels.

Operating brake: Laminated hydraulic brake running wear-free in an oil bath.

In addition, highly effective electric motor brake.

Parking brake: Hand operated cable brake with operation warning light and safety chime.

Hydraulics: Low-noise pumps for steering and hydraulic functions. Lowering brakes limit the lowering speed of the load, even in case of a broken hose. A pressure limiting valve protects against excess pressure and overloading.

Mast: Stationary and inner moving mast profiles made of wear resistant steel. The carriage moves on permanently lubricated rollers. Any lateral load force is absorbed by angled rollers. The lift cylinder is located behind the slender mast profiles providing excellent visibility on the forks and load at any lift height.

Chassis: Chassis in torsion-resistant one-piece construction. Battery cover, side panels, control valve cover and floor plate can be easily opened/removed for excellent ease of servicing.

Options: Special designs and attachments are available, e.g. MULTIPLOT joystick for all hydraulic functions, load backrest, side-shifter, weather cabs, etc.

Safety: Optimum travel safety due to automatic Jungheinrich Curve Control system. Truck conforms to the EU Directive CE and ANSI B 56.1.



ISO-9001, ISO-14001 -
Certification of Quality and
Environment Management.

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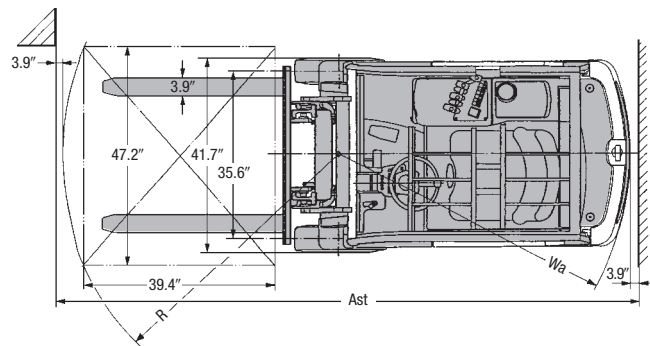
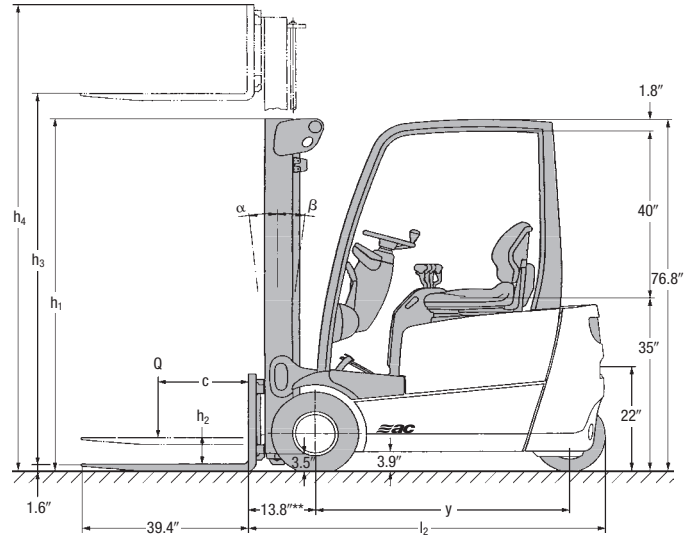
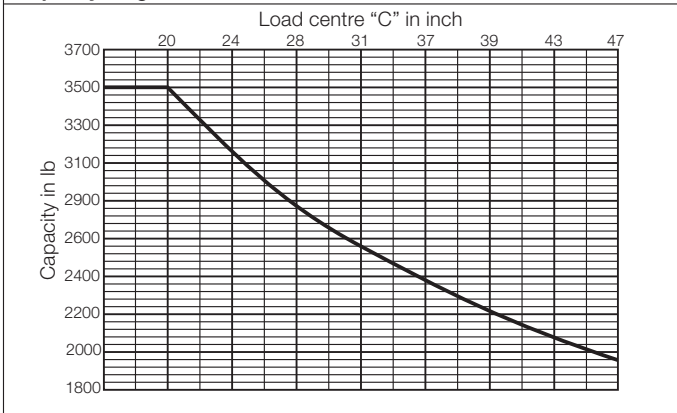
EFG-DF ac 16/16 L

Performance Data

Truck type	EFG-DFac 16	EFG-DFac 16L
Battery	48 Volt/550 Ah	48 Volt/660 Ah
Battery dimensions (max.)	32.7 x 24.8 x 24.7"	32.7 x 29.1 x 24.7"
Battery weight (min.)	1793 lb	2120 lb
Two-stage Mast ZT Lift	130"	130"
Travel speed with/ without load	10/10 mph	10/10 mph
Lifting speed with/ without load	91/118 ft/min	91/118 ft/min
Lowering speed with/ without load	108/108 ft/min	108/108 ft/min
Draw bar pull with/ without load	483/550 lb	472/550 lb
max. draw bar pull with/ without load*	2855/2855 lb	2855/2855 lb
Gradient perform. with/ without load	7.3/12.3 %	7.0/11.5 %
max. gradient perform. with/ without load*	27/35 %	27/35 %
Truck weight (with battery)	6590 lb	7022 lb
Axle loading with load- front/rear	8853/1268 lb	8886/1665 lb
Axle loading without load- front/rear	3109/3484 lb	3307/3715 lb
Wheelbase	y	53.4"
Length incl. back of forks**	l_2	74.8"
Turning radius	W_a	60.8"
Load distance**	x	13.8"
Right angle stack aisle**	A_{st}	(incl. 8" clearance)
40 x 48" (1016 x 1220 mm) lengthwise		130.5"
40 x 48" (1016 x 1220 mm) crosswise		122.5"

* 5 minute rating ** with three-stage mast plus 1 inch

Capacity Diagram



Mast Table

Lift height h_3		Collapsed height h_1		Free lift h_2		Max. Height h_4		Tilt				Capacity ³⁾ at $c = 24"$	
inch	mm	inch	mm	inch	mm	inch	mm	forward α degrees	backward β degrees	backward β^1 degrees	backward β^2 degrees	lb	kg
91	2300	65	1650	6	150	112	2850	7	4	4	4	3000	1361
118	3000	79	2000	6	150	140	3550	7	7	7	5	3000	1361
122	3100	81	2050	6	150	144	3650	7	7	7	5	3000	1361
130	3300	85	2150	6	150	152	3850	7	7	7	5	3000	1361
142	3600	91	2300	6	150	163	4150	7	7	7	5	3000	1361
157	4000	98	2500	6	150	179	4550	7	7	7	5	3000	1361
177	4500	110	2800	6	150	199	5050	7	7	7	5	3000	1361
197	5000	120	3050	6	150	219	5550	7	5	5	5	2920	1325
217	5500	134	3400	6	150	238	6050	7	5	5	5	2720	1234
2-stage ZZ													
91	2300	63	1605	42	1055	112	2850	7	7	4	4	3000	1361
118	3000	77	1955	55	1405	140	3550	7	7	6	5	3000	1361
122	3100	79	2005	57	1455	144	3650	7	7	6	5	3000	1361
130	3300	83	2105	61	1555	152	3850	7	7	6	5	3000	1361
142	3600	89	2255	67	1705	163	4150	7	7	6	5	3000	1361
157	4000	97	2455	75	1905	179	4550	7	7	6	5	3000	1361
3-stage DZ													
171	4350	77	1955	55	1405	193	4900	7	6	6	5	3000	1361
177	4500	79	2005	57	1455	199	5050	7	6	6	5	3000	1361
189	4800	83	2105	61	1555	211	5350	7	6	6	5	3000	1361
197	5000	86	2180	64	1630	219	5550	7	6	6	5	2930	1329
217	5500	93	2355	71	1805	238	6050	7	5	5	5	2640	1198
236	6000	101	2555	79	2005	258	6550	7	5	5	5	2250	1021
256	6500	110	2805	89	2255	278	7050	7	5	5	5	1850	839

¹⁾ With optional extra hydraulic function ²⁾ With optional front screen ³⁾ Without sideshifter

Changes and technical improvements reserved.