

Jungheinrich Electric 3-Wheel Forklift Truck Capacity 4,000 lb

EFG-DF ac 20



- **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	200/50-10	-	36"	44"
Solid rubber	2	18x8x12½"	-	36"	44.3"
Rear Axle					
Tire type	Nos. off	size	PR	track-width	truck-width
Superelastic	2	140/55-9	-	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. MULTIPILLOT 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.



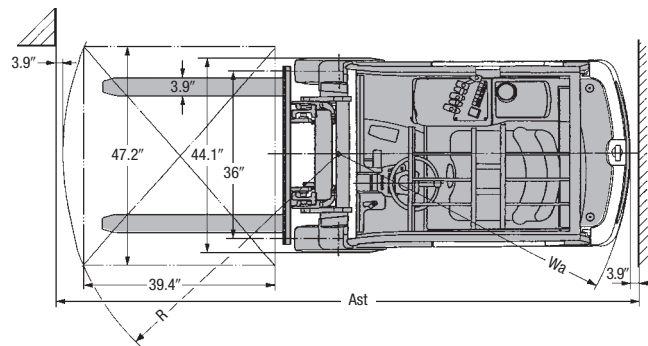
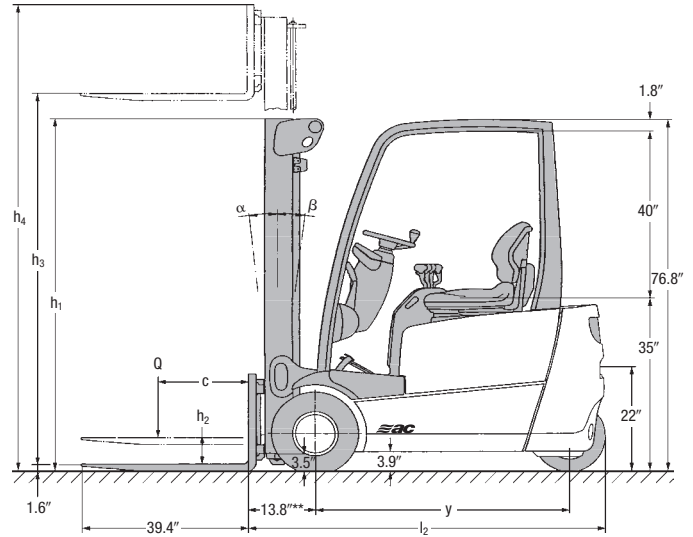
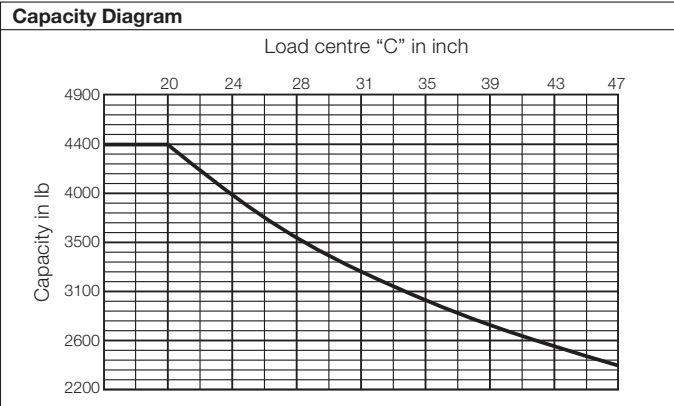
ISO-9001, ISO-14001 -
Certification of Quality and
Environment Management.

JUNGHEINRICH

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Performance Data		
Truck type	EFG-DF 20 ac	
Battery	48 Volt/660 Ah	
Battery dimensions (max.)	32.7x29.1x24.7"	
Battery weight (min.)	2120 lb	962 kg
Two-stage Mast ZT Lift	130"	3300 mm
Travel speed with/ without load	10/10 mph	16/16 km/h
Lifting speed with/ without load	75/99 ft/min	0.38/0.50 m/s
Lowering speed with/ without load	108/108 ft/min	0.55/0.55 m/s
Draw bar pull with/ without load	427/517 lb	1900/2300 N
max. draw bar pull with/ without load*	2765/2698 lb	12300/12000 N
Gradient perform. with/ without load	5.7/10.4 %	5.7/10.4 %
max. gradient perform. with/ without load*	24/35 %	24/35 %
Truck weight (with battery)	7067 lb	3205 kg
Axle loading with load- front/ rear	10286/1190 lb	4665/540 kg
Axle loading without load- front/ rear	3308/3760 lb	1500/1705 kg
Wheelbase	y	58" / 1465 mm
Length incl. back of forks	l2	79" / 2007 mm
Turning radius	Wa	65" / 1655 mm
Load distance**	x	13.8" / 350 mm
Right angle stack aisle**	Ast	(incl. 8" clearance)
40 x 48" (1016x1220mm) lengthwise		134.8" / 3425 mm
40 x 48" (1016x1220mm) crosswise		126.8" / 3221 mm

*5 minute rating **with DZ mast plus 1 inch



Mast Table													
2-stage ZT													
Lift height		Collapsed height		Free lift		Max. Height		Tilt				Capacity ³⁾	
h ₃		h ₁		h ₂		h ₄		forward α	backward β	backward β ¹⁾	backward β ²⁾	at c = 24"	
inch	mm	inch	mm	inch	mm	inch	mm	degrees	degrees	degrees	degrees	lb	kg
91	2300	65	1650	6	150	114	2885	7	4	4	4	4000	1814
118	3000	79	2000	6	150	141	3585	7	7	7	5	4000	1814
122	3100	81	2050	6	150	145	3685	7	7	7	5	4000	1814
130	3300	85	2150	6	150	153	3885	7	7	7	5	4000	1814
142	3600	91	2300	6	150	165	4185	7	7	7	5	4000	1814
157	4000	98	2500	6	150	181	4585	7	7	7	5	4000	1814
177	4500	110	2800	6	150	200	5085	7	7	7	5	4000	1814
197	5000	120	3050	6	150	220	5585	7	5	5	5	3610	1637
217	5500	134	3400	6	150	240	6085	7	5	5	5	3210	1456
2-stage ZZ													
91	2300	63	1605	39	990	115	2915	7	7	4	4	4000	1814
118	3000	77	1955	53	1340	142	3615	7	7	6	5	4000	1814
122	3100	79	2005	55	1390	146	3715	7	7	6	5	4000	1814
130	3300	83	2105	59	1490	154	3915	7	7	6	5	4000	1814
142	3600	89	2255	65	1640	166	4215	7	7	6	5	4000	1814
157	4000	97	2455	72	1840	182	4615	7	7	6	5	4000	1814
3-stage DZ													
171	4350	77	1955	53	1340	195	4965	7	6	6	5	4000	1814
177	4500	79	2005	55	1390	201	5115	7	6	6	5	4000	1814
189	4800	83	2105	59	1490	213	5415	7	6	6	5	3720	1687
197	5000	86	2180	62	1565	221	5615	7	6	6	5	3520	1597
217	5500	93	2355	69	1740	241	6115	7	5	5	5	3120	1415
236 ⁴⁾	6000	101	2555	76	1940	260	6615	7	5	5	5	2730	1238
256 ⁵⁾	6500	110	2805	86	2190	280	7115	7	5	5	5	2250	1021

¹⁾ With optional extra hydraulic function. ²⁾ With optional front windscreen. ³⁾ Without sidershifter ⁴⁾ Rated capacity 3710 lb ⁵⁾ Rated capacity 3610 lb.

Changes and technical improvements reserved.