



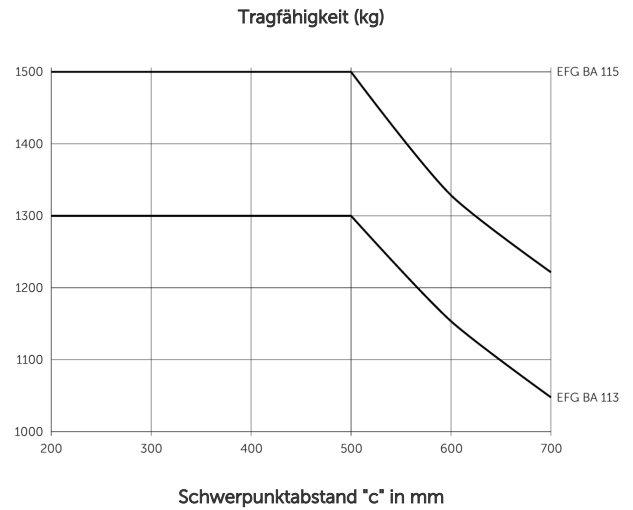
Electric three-wheel counterbalance forklift truck

EFG BA 113/115

Lift height: 3000-6500 mm / Load capacity: 1300-1500 kg

The drawing consists of two views of a forklift:

- Side View (Top):** Shows the forklift from the side. Key dimensions include:
 - Vertical dimensions: h_4 , h_3 , h_1 , h_6 , h_7 , h_{10} , and a ground level of 80.
 - Horizontal dimensions: l (distance from front wheel to load center), x (distance from front wheel to rear wheel), y (distance from rear wheel to rear counterweight), l_2 (distance from front wheel to rear counterweight), and l_1 (total wheelbase).
 - Labels: S (load), α (fork angle), Q (weight), c (load center), h_2 (fork height), m_1 (front wheel mass), and m_2 (rear wheel mass).
 - Other labels: γ , γ_0 , β , β_0 , γ_1 , γ_2 , β_1 , β_2 , γ_3 , γ_4 , β_3 , β_4 , γ_5 , γ_6 , β_5 , β_6 , γ_7 , γ_8 , β_7 , β_8 , γ_9 , γ_{10} , β_9 , β_{10} .
- Top View (Bottom):** Shows the forklift from above. Key dimensions include:
 - Overall width: b_{12} , b_1 , b_{10} .
 - Wheel track: a (distance from centerline to wheel center), $a/2$ (distance from centerline to wheel center).
 - Other dimensions: l_6 (distance from front wheel to rear counterweight), e (distance from centerline to rear counterweight), R (radius of front wheel), W (width of rear counterweight), $a/2$ (distance from centerline to wheel center), and b_{11} (width of rear counterweight).
 - Label: Ast (distance from front wheel to rear counterweight).



EFG BA 113/115

EFG BA 113, EFG BA 115	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)	Forward/backward tilt of fork carriage
Duplex mast ZT	3000 mm	2000 mm	150 mm	3555 mm	7 / 5 °
	3300 mm	2150 mm	150 mm	3855 mm	7 / 5 °
	3600 mm	2300 mm	150 mm	4155 mm	7 / 5 °
	5000 mm	3050 mm	150 mm	5555 mm	7 / 5 °
Duplex mast ZZ	3300 mm	2105 mm	1470 mm	3855 mm	7 / 5 °
	3600 mm	2255 mm	1620 mm	4155 mm	7 / 5 °
Triplex mast DZ	4500 mm	2005 mm	1360 mm	5055 mm	7 / 5 °
	4800 mm	2105 mm	1460 mm	5355 mm	7 / 5 °
	5000 mm	2180 mm	1530 mm	5555 mm	7 / 5 °
	5500 mm	2355 mm	1710 mm	6055 mm	7 / 5 °
	6000 mm	2555 mm	1910 mm	6555 mm	7 / 5 °
	6500 mm	2805 mm	2160 mm	7055 mm	7 / 5 °

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)		Jungheinrich	
	1.2	Manufacturer's type designation		EFG BA 113	EFG BA 115
	1.3	Drive type		electric	
	1.4	Operation		Seat	
	1.5	Load capacity/load	Q kg	1300	1500
	1.6	Load centre distance	c mm	500	
	1.8	Load distance, centre of drive axle to fork	x mm	387	392
	1.9	Wheelbase	y mm	1156	1249
Weights	2.1.1	Service weight (incl. battery)	kg	3045	3221
	2.2	Axle load laden front/rear	kg	3753 / 592	3974 / 747
	2.3	Axle load unladen front/rear	kg	1422 / 1623	1482 / 1739
Wheels/chassis	3.1	Tyres		Super-elastic (SE)	
	3.2	Tyre size, front		18x6-12/1/8	
	3.3	Tyre size, rear		140/55-9	
	3.5	Wheels, number front/back (x=driven)		2x / 2	
	3.6	Tread width, front	b10 mm	838	
	3.7	Tread width, rear	b11 mm	211	
Basic dimensions	4.1	Forward/backward tilt of mast	a/β °	7 / 5	
	4.2	Retracted mast height (h1)	h1 mm	2000	
	4.2.1	Total height	h15 mm	2080	
	4.3	Free lift (h2)	h2 mm	150	
	4.4	Lift (h3)	h3 mm	3000	
	4.5	Extended mast height (h4)	h4 mm	3555	
	4.7	Height of overhead guard (cab)	h6 mm	2080	
	4.8	Seat height/stand height	h7 mm	1030	
	4.12	Coupling height	h10 mm	560	
	4.19	Total length	l1 mm	2732	2830
	4.20	Length including fork shank	l2 mm	1732	1830
	4.21.1	total width	b1 mm	990	
	4.22	Fork dimensions	s/e/l mm	35 x 100 x 1000	40 x 100 x 1000
	4.23	Fork carriage connection class		2A	
	4.24	Fork carriage width	b3 mm	950	
	4.31	Ground clearance laden under mast	m1 mm	97	
	4.32	Ground clearance centre of wheelbase	m2 mm	88	
	4.34.1	Aisle width (pallet 1000x1200 sideways)	Ast mm	3056	3154
	4.34.2	Aisle width (pallet 800x1200 length)	Ast mm	3182	3279
	4.35	Turning radius	Wa mm	1345	1438
	4.36	Smallest pivot point distance	b13 mm	0	

Performance data	5.1	Travel speed laden/unladen	km/h	12.5 / 12.5	
	5.2	Lift speed laden/unladen	m/s	0.25 / 0.53	0.24 / 0.53
	5.3	Lowering speed laden/unladen	m/s	0.55 / 0.54	
	5.5	Drawbar pull laden	N	716	886
	5.6	Max. drawbar pull laden/unladen	N	8752 / 8480	8675 / 9149
	5.7	Gradeability laden/unladen	%	8 / 12	8 / 11
	5.8	Max. gradeability laden/unladen	%	15 / 20	14 / 19
	5.9	Acceleration time laden/unladen	s	7.1 / 6.1	7.1 / 6.5
	5.10	Service brake		mechanical/hydraulic	
	Electric motor/electronics	6.1	Drive motor, performance S2 60 min	kW	3.7
6.1.1		2. Drive motor, performance S2 60 min	kW	3.7	
6.2		Lift motor, performance with S3	kW	10	
6.3		Battery according to DIN 43531/35/36		DIN 43531 A	
6.4		Battery voltage/nominal capacity	V / Ah	48 / 375	48 / 500
6.5		Battery weight	kg	560	708
6.6.1		Energy consumption according to EN cycle	kWh/h	3.33	3.64
6.6.2		CO2 equivalent as per EN 16796	kg/h	1.8	1.9
6.7		Throughput	t/h	86	97
6.8.1		Energy consumption with max. throughput	kWh/h	3.38	3.92
Other	8.1	Type of drive control		Impulse/AC	
	10.1	Operating pressure for attachment	bar	230	
	10.2	Oil flow for attachments	l/min	17	
	10.7	Sound pressure level according to EN12053	dB (A)	72	
	10.8	Trailer coupling, model/type DIN		Bolts	
- This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values.					

The German production facilities in
Norderstedt, Moosburg and Landsberg
are certified as well as our Genuine Parts
Center in Kaltenkirchen.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet
European safety requirements.



 **JUNGHEINRICH**