

Electric 3-wheel forklift truck

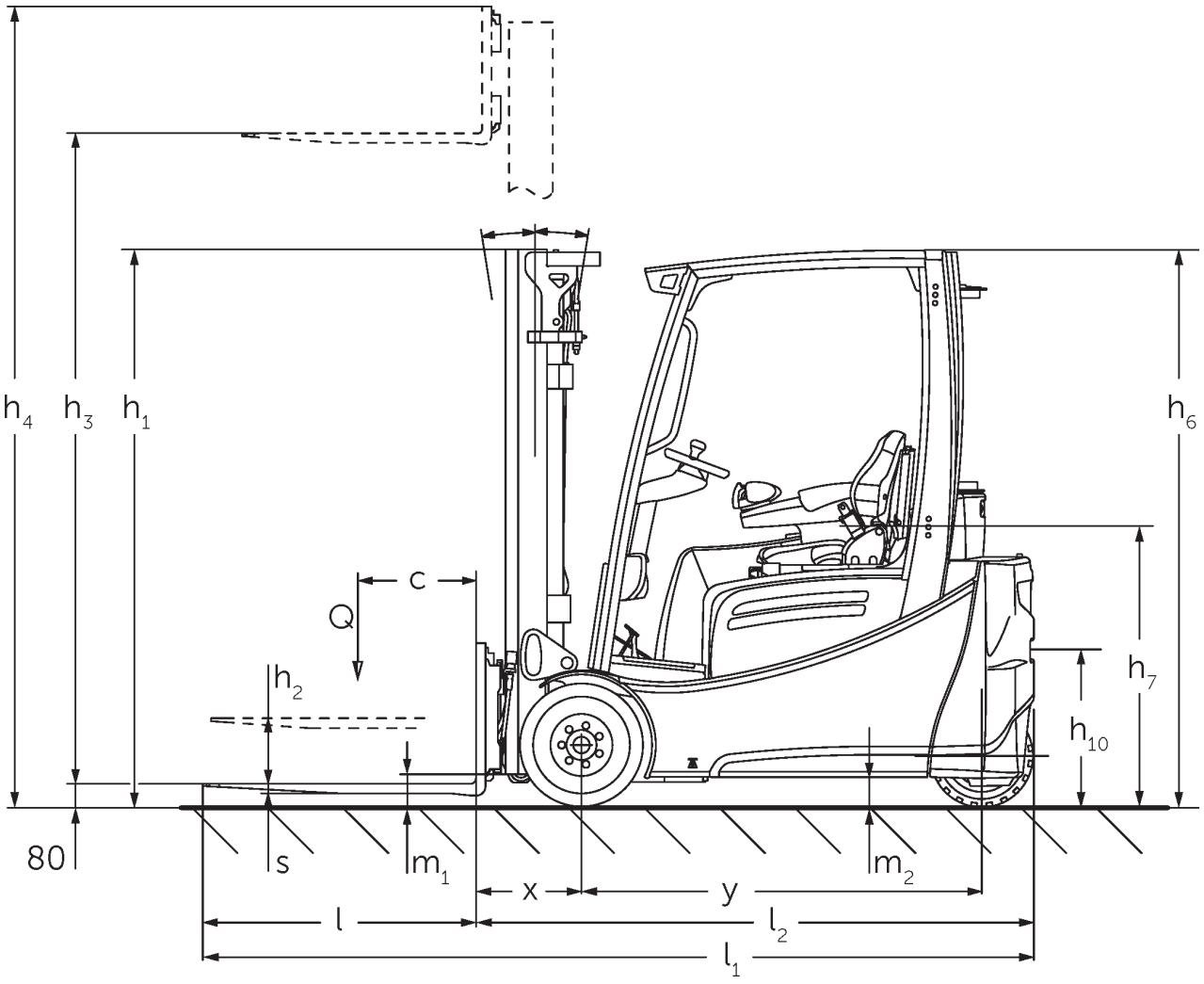
EFG 213–220

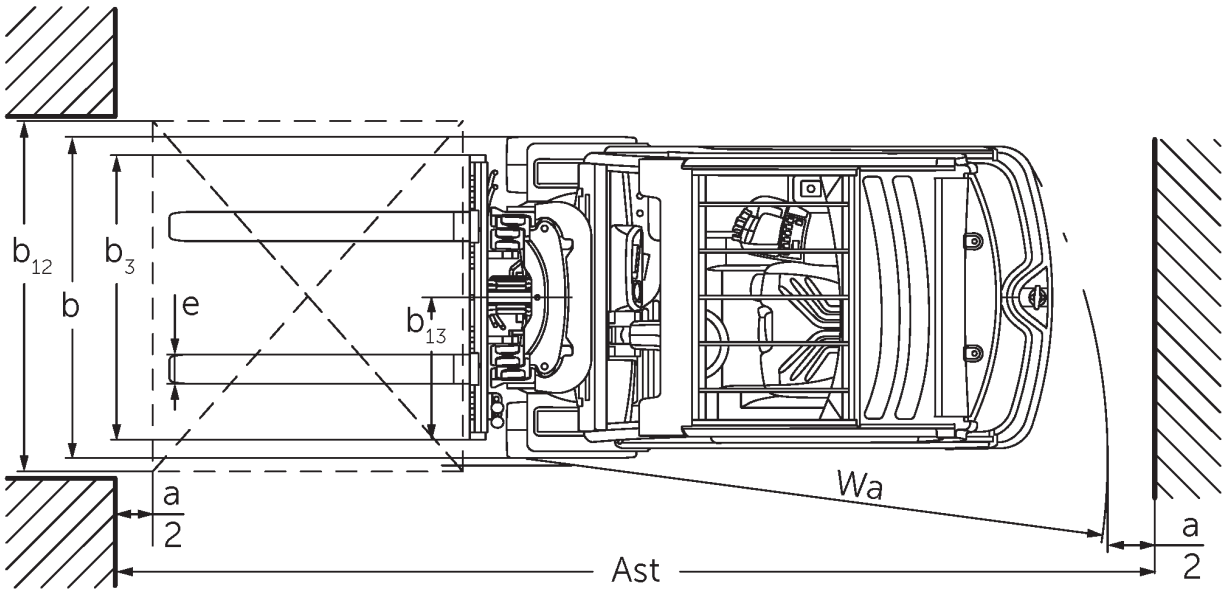
Lift height: 2020-7000 mm / Load capacity: 1300-2000 kg

LI-ION technology

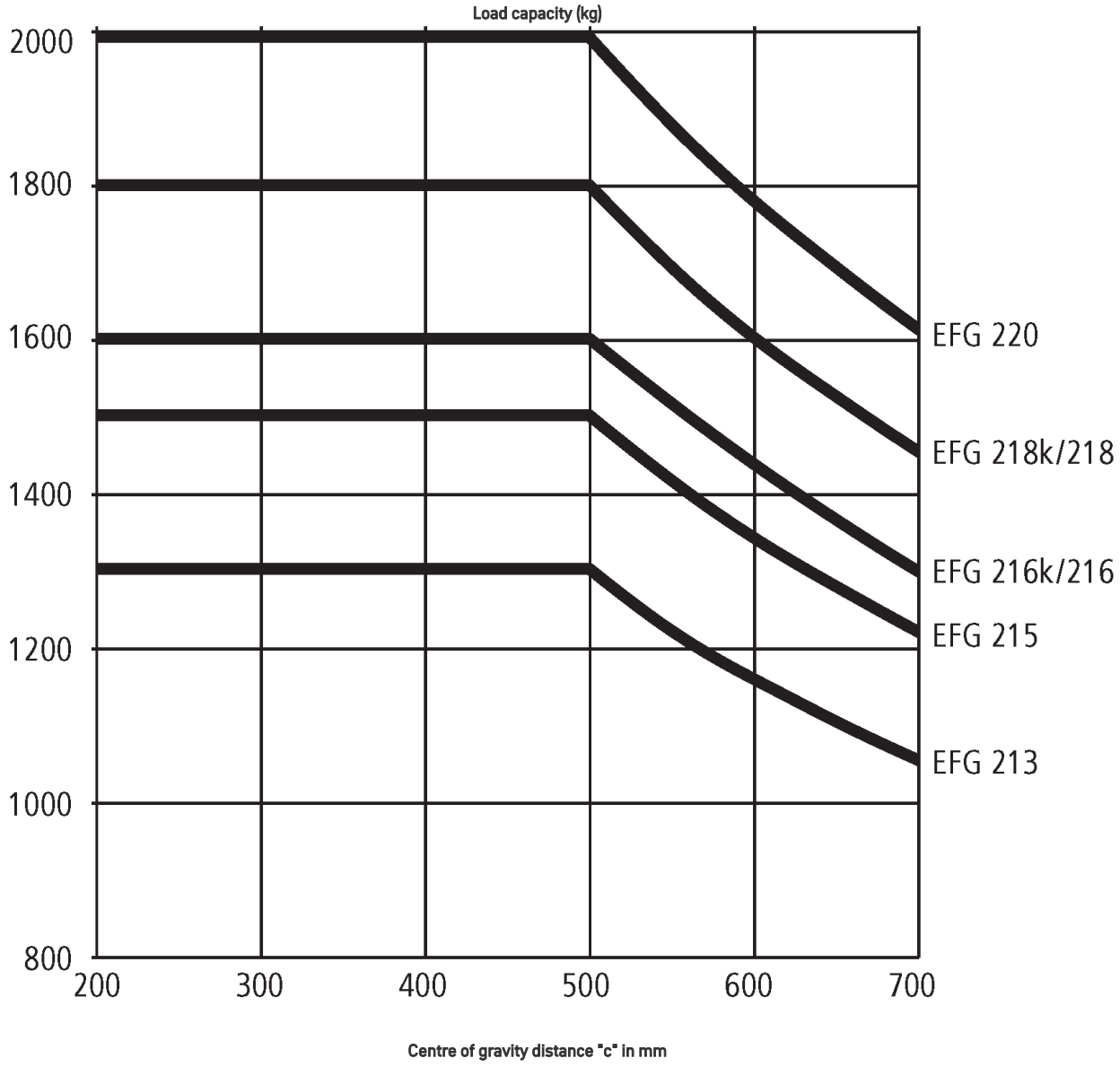
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EFG 213–220





EFG 2 technical drawing 2017


Load capacity (kg)
2000
1800
1600
1400
1200
1000
800
200
300
400
500
600
700
EFG 220
EFG 218k/218
EFG 216k/216
EFG 215
EFG 213
Centre of gravity distance "c" in mm

EFG 213–220

EFG 213, EFG 216k, EFG 216	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)	Forward/ backward tilt of mast
Duplex mast ZT	3000 mm	2060 mm	150 mm	3590 mm	7 / 6 °
	3100 mm	2110 mm	150 mm	3690 mm	7 / 6 °
	3300 mm	2210 mm	150 mm	3890 mm	7 / 7 °
	3500 mm	2310 mm	150 mm	4090 mm	7 / 7 °
	3700 mm	2410 mm	150 mm	4290 mm	7 / 7 °
	4000 mm	2560 mm	150 mm	4590 mm	7 / 7 °
	4500 mm	2810 mm	150 mm	5090 mm	7 / 7 °
Duplex mast ZZ	2900 mm	1965 mm	1375 mm	3490 mm	7 / 6 °
	3100 mm	2065 mm	1475 mm	3690 mm	7 / 6 °
	3180 mm	2105 mm	1515 mm	3770 mm	7 / 7 °
	3300 mm	2165 mm	1575 mm	3890 mm	7 / 7 °
	3500 mm	2265 mm	1675 mm	4090 mm	7 / 7 °
	3700 mm	2365 mm	1775 mm	4290 mm	7 / 7 °
	4000 mm	2515 mm	1925 mm	4590 mm	7 / 7 °
Triplex mast DZ	4250 mm	1975 mm	1385 mm	4840 mm	7 / 4 °
	4400 mm	2025 mm	1435 mm	4990 mm	7 / 4 °
	4640 mm	2105 mm	1515 mm	5230 mm	7 / 5 °
	4700 mm	2125 mm	1535 mm	5290 mm	7 / 5 °
	4800 mm	2165 mm	1575 mm	5390 mm	7 / 5 °
	5000 mm	2235 mm	1645 mm	5590 mm	7 / 5 °
	5500 mm	2415 mm	1825 mm	6090 mm	7 / 5 °
	6000 mm	2585 mm	1995 mm	6590 mm	7 / 5 °
	6500 mm	2765 mm	2175 mm	7090 mm	7 / 5 °
	7000 mm	2935 mm	2345 mm	7590 mm	7 / 5 °
EFG 218	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**	**Forward/ backward tilt of mast**

Duplex mast ZT	2020 mm	1577 mm	150 mm	2632 mm	7 / 5 °
	3000 mm	2067 mm	150 mm	3612 mm	7 / 6 °
	3100 mm	2117 mm	150 mm	3712 mm	7 / 6 °
	3300 mm	2217 mm	150 mm	3912 mm	7 / 7 °
	3500 mm	2317 mm	150 mm	4112 mm	7 / 7 °
	3700 mm	2417 mm	150 mm	4312 mm	7 / 7 °
	4000 mm	2567 mm	150 mm	4612 mm	7 / 7 °
	4500 mm	2817 mm	150 mm	5112 mm	7 / 7 °
Duplex mast ZZ	2900 mm	1972 mm	1330 mm	3542 mm	7 / 6 °
	3100 mm	2072 mm	1430 mm	3742 mm	7 / 6 °
	3180 mm	2112 mm	1470 mm	3822 mm	7 / 7 °
	3300 mm	2172 mm	1530 mm	3942 mm	7 / 7 °
	3500 mm	2272 mm	1630 mm	4142 mm	7 / 7 °
	3700 mm	2372 mm	1730 mm	4342 mm	7 / 7 °
	4000 mm	2522 mm	1880 mm	4642 mm	7 / 7 °
Triplex mast DZ	4250 mm	1982 mm	1340 mm	4892 mm	7 / 6 °
	4400 mm	2032 mm	1390 mm	5042 mm	7 / 6 °
	4640 mm	2112 mm	1470 mm	5282 mm	7 / 5 °
	4700 mm	2132 mm	1490 mm	5342 mm	7 / 5 °
	4800 mm	2172 mm	1530 mm	5442 mm	7 / 5 °
	5000 mm	2242 mm	1600 mm	5642 mm	7 / 5 °
	5500 mm	2422 mm	1780 mm	6142 mm	7 / 5 °
	6000 mm	2592 mm	1950 mm	6642 mm	7 / 5 °
	6500 mm	2772 mm	2130 mm	7142 mm	7 / 5 °
	7000 mm	2942 mm	2300 mm	7642 mm	7 / 5 °

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich			
	1.2	Manufacturer's type designation			EFG 213-220			
	1.3	Drive			electric			
	1.4	Operation			Seat			
	1.5	Load capacity/load	Q	kg	1300	1600		1800
	1.6	Load centre distance	c	mm	500			
	1.8	Load distance, centre of drive axle to fork	x	mm	344			364
	1.9	Wheelbase	y	mm	1249	1357	1465	
Weights	2.1.1	Service weight (incl. battery)		kg	2692	2959	3018	3191
	2.2	Axle load laden front/rear		kg	3534 / 458	4043 / 516	4050 / 566	4477 / 514
	2.3	Axle load unladen front/rear		kg	1307 / 1385	1392 / 1567	1479 / 1539	1534 / 1657
Wheels/suspension system	3.1	Tyres			Super-elastic (SE)			
	3.2	Tyre size, front			18 x 7-8			200 / 50-10
	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	904			914
	3.7	Tread width, rear	b11	mm	176			
Basic dimensions	4.1	Forward/backward tilt of mast	a/ß	°	7 / 6			
	4.2	Retracted mast height (h1)	h1	mm	2060			2067
	4.3	Free lift (h2)	h2	mm	150			
	4.4	Lift (h3)	h3	mm	3000			
	4.5	Extended mast height (h4)	h4	mm	3590			3612
	4.7	Height of overhead guard (cab)	h6	mm	2040			
	4.8	Seat height/stand height	h7	mm	920			
	4.12	Coupling height	h10	mm	560			
	4.19	total length	l1	mm	2933	3041	3149	3169
	4.20	Length including fork shank	l2	mm	1783	1891	1999	2019
	4.21.1	total width	b1	mm	1060			1120
	4.22	Fork dimensions	s/e/l	mm	40 x 80 x 1150			
	4.23	Fork carriage connection class			2A			
	4.24	Fork carriage width	b3	mm	980			
	4.31	Ground clearance laden under mast	m1	mm	97			105
	4.32	Ground clearance centre of wheelbase	m2	mm	100			
	4.34.1	Aisle width (pallet 1000×1200 sideways)	Ast	mm	3112	3220	3327	3345
	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	3235	3343	3450	3469
	4.35	Turning radius	Wa	mm	1440	1548	1655	
	4.36	Smallest pivot point distance	b13	mm	0			

Performance data	5.1	Travel speed laden/unladen	km/h	16 / 16			
	5.2	Lift speed laden/unladen	m/s	0.51 / 0.74			0.46 / 0.74
	5.3	Lowering speed laden/unladen	m/s	0.55 / 0.55			
	5.5	Drawbar pull laden/unladen	N	2300 / 2450	2150 / 2450	2100 / 2450	2000 / 2300
	5.6	Max. drawbar pull laden/unladen	N	13000 / 11100	13000 / 12000	13000 / 12600	12500 / 12500
	5.7	Gradeability laden/unladen	%	7.6 / 12.5	7.3 / 12.3	7 / 11.5	5.9 / 10.5
	5.8	Max. gradeability laden/unladen	%	28 / 31	27 / 31	27 / 33	25 / 31
	5.9	Acceleration time laden/unladen	s	5.5 / 5.1	5.7 / 5.2		5.8 / 5.3
	5.10	Service brake		Friction brake (mechanically operated)			
E-motor/Electronics	6.1	Drive motor, performance S2 60 min	kW	4.5			
	6.1.1	2. Drive motor, performance S2 60 min	kW	4.5			
	6.2	Lift motor, performance with S3	kW	11.5			
	6.3	Battery according to DIN 43531/35/36		DIN 43531 A			
	6.4	Battery voltage/nominal capacity	V / Ah	48 / 500	48 / 625	48 / 750	
	6.5	Battery weight	kg	715	855	1025	
	6.6.1	Energy consumption according to EN cycle	kWh/h	3.5	3.9		4.1
	6.6.2	CO2 equivalent according to EN ISO 23308	kg/h	1.89	2.11		2.22
	6.7	Throughput	t/h	105	113		126
	6.8	Turnover efficiency according to VDI 2198	t/kWh	22.3	23.1		23.3
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	27			
	10.7	Sound pressure level according to EN12053	dB (A)	67			
	10.8	Trailer coupling, model/type DIN		DIN 15170 H			

- 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.

- 6.6.1: 60 working cycles / h

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.

CE

JUNGHEINRICH