

Electric Four-Wheel Counterbalance Forklift Truck

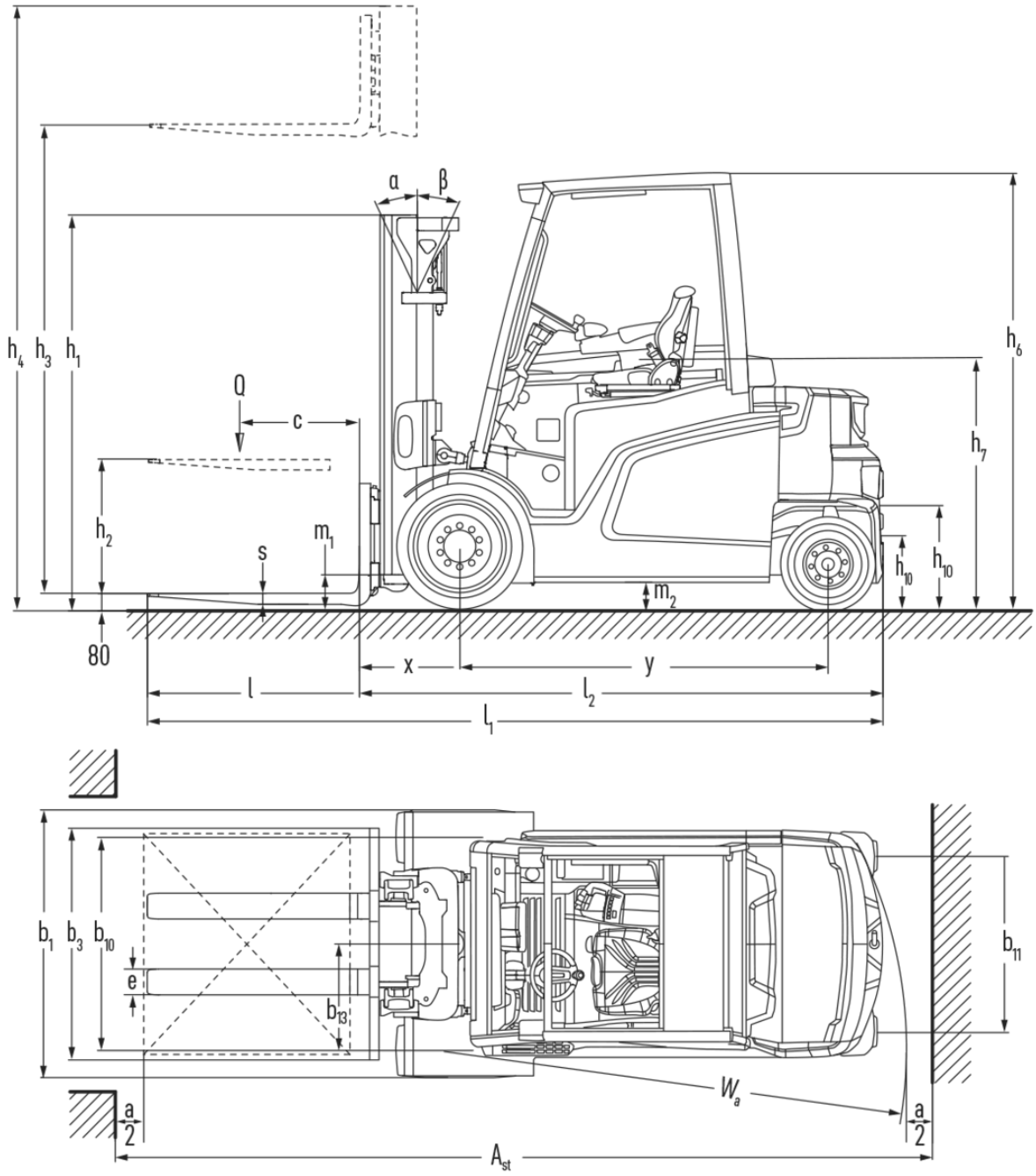
EFG 540k–S50

LI-ION technology

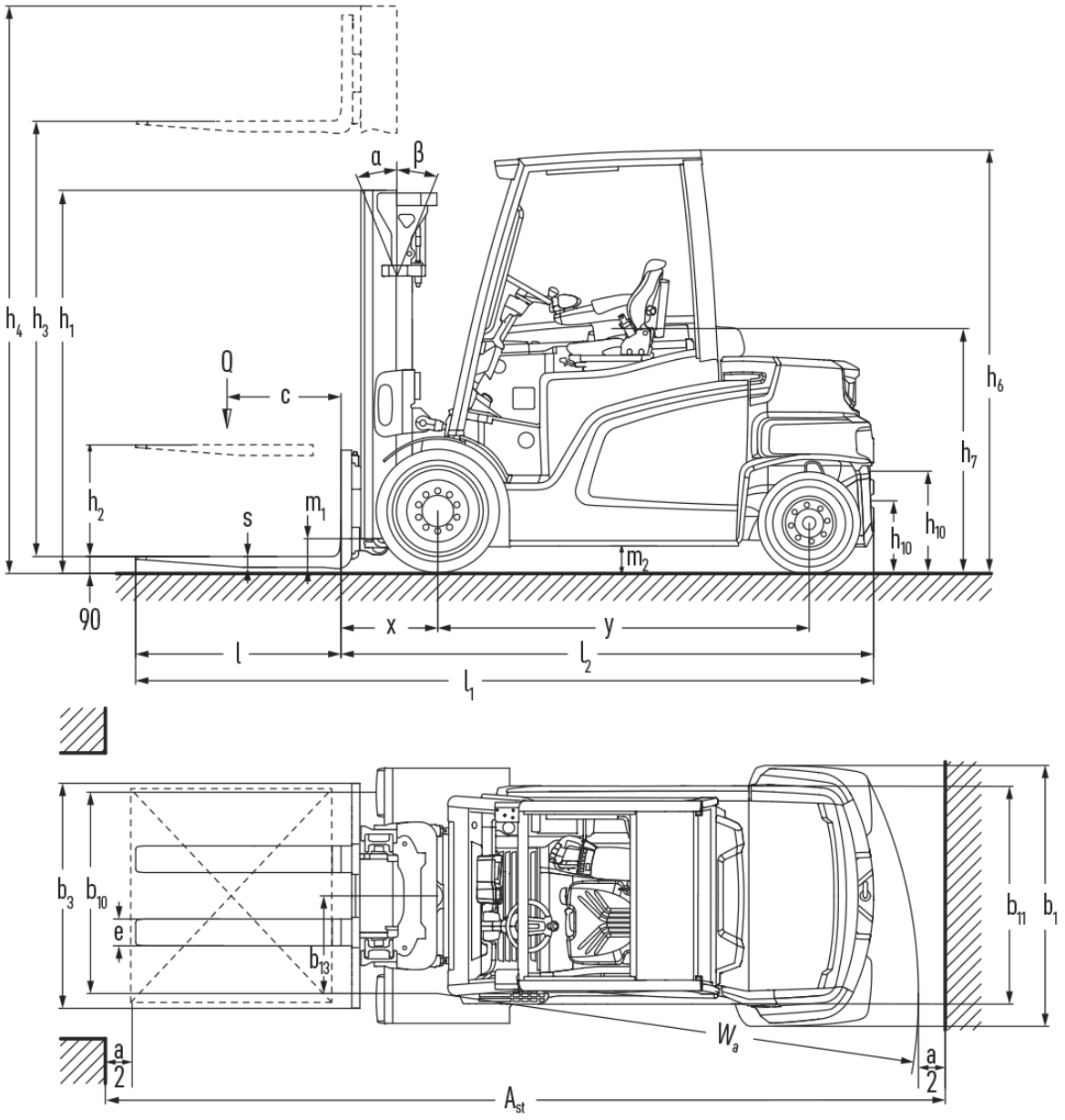
JUNGHEINRICH

EFG 540k–S50

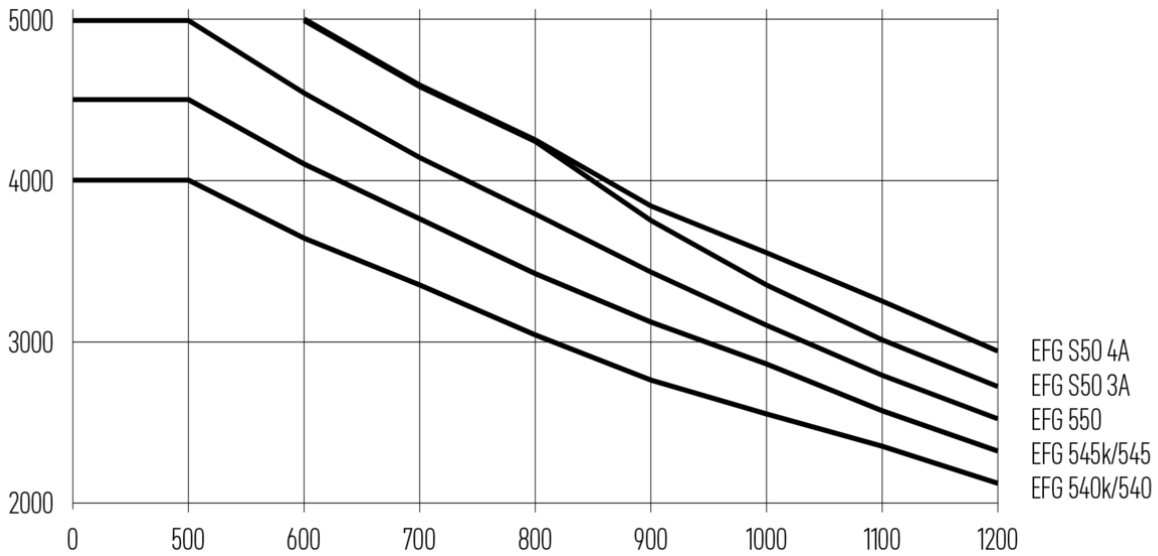
EFG 540k – 550



EFG S50


α
β
h4
h3
h1
Q
c
h2
s
m1
m2
h6
h7
h10
h10
90
x
y
l
l2
l1

b3
b10
e
b13
b11
b1
Wa
a
2
a
2
Ast


5000
4000
3000
2000
0
500
600
700
800
900
1000
1100
1200
EFG S50 4A
EFG S50 3A
EFG 550
EFG 545k/545
EFG 540k/540

EFG 540k–S50

EFG 540k, EFG 540	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)
Duplex mast ZT / Including 3A fork carriage with 4 rollers (standard)	3000 mm	2271 mm	150 mm	3696 mm
	3300 mm	2421 mm	150 mm	3996 mm
	3500 mm	2529 mm	150 mm	4204 mm
	3700 mm	2621 mm	150 mm	4396 mm
	4000 mm	2776 mm	150 mm	4701 mm
	4300 mm	2921 mm	150 mm	4996 mm
	4500 mm	3021 mm	150 mm	5196 mm
	5000 mm	3271 mm	150 mm	5696 mm
	5500 mm	3521 mm	150 mm	6196 mm
Duplex mast ZT / suitable for integrated sideshift 3A with 6 rollers (option)	3000 mm	2271 mm	150 mm	3839 mm
	3300 mm	2421 mm	150 mm	4139 mm
	3500 mm	2529 mm	150 mm	4339 mm
	3700 mm	2621 mm	150 mm	4539 mm
	4000 mm	2776 mm	150 mm	4839 mm
	4300 mm	2921 mm	1450 mm	5139 mm
	4500 mm	3021 mm	150 mm	5339 mm
	5000 mm	3271 mm	150 mm	5839 mm
	5500 mm	3521 mm	150 mm	6339 mm
Duplex mast ZZ / Including 3A fork carriage with 4 rollers (standard)	3142 mm	2304 mm	1565 mm	3881 mm
	3342 mm	2404 mm	1665 mm	4081 mm
	3542 mm	2504 mm	1765 mm	4281 mm
	4035 mm	2751 mm	2012 mm	4774 mm
Duplex mast ZZ / suitable for integrated sideshift 3A with 6 rollers (option)	3142 mm	2304 mm	1415 mm	4031 mm
	3342 mm	2404 mm	1515 mm	4231 mm
	3542 mm	2504 mm	1615 mm	4431 mm
	4035 mm	2751 mm	1862 mm	4924 mm
Triplex mast DZ / Including 3A fork carriage with 4 rollers (standard)	4150 mm	2121 mm	1382 mm	4889 mm
	4400 mm	2204 mm	1465 mm	5139 mm
	4700 mm	2304 mm	1565 mm	5439 mm
	4850 mm	2354 mm	1615 mm	5589 mm

	5000 mm	2404 mm	1665 mm	5739 mm
	5300 mm	2504 mm	1765 mm	6039 mm
	5500 mm	2571 mm	1832 mm	6239 mm
	6000 mm	2751 mm	2012 mm	6739 mm
	6500 mm	2931 mm	2170 mm	7261 mm
	7000 mm	3101 mm	2350 mm	7751 mm
	7500 mm	3281 mm	2490 mm	8291 mm
Triplex mast DZ / suitable for integrated sideshift 3A with 6 rollers (option)	4150 mm	2121 mm	1232 mm	5039 mm
	4400 mm	2204 mm	1315 mm	5289 mm
	4700 mm	2304 mm	1415 mm	5589 mm
	5000 mm	2404 mm	1515 mm	5889 mm
	5500 mm	2571 mm	1682 mm	6389 mm
	6000 mm	2751 mm	1862 mm	6889 mm
	6500 mm	2931 mm	2042 mm	7389 mm
	7000 mm	3101 mm	2212 mm	7889 mm
	7500 mm	3281 mm	2392 mm	8389 mm
EFG 545k, EFG 545, EFG 550	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT / Including 3A fork carriage with 6 rollers (standard) / suitable for integrated sideshift 3A with 6 rollers (option)	3000 mm	2271 mm	150 mm	3839 mm
	3300 mm	2421 mm	150 mm	4139 mm
	3500 mm	2529 mm	150 mm	4339 mm
	3700 mm	2621 mm	150 mm	4539 mm
	4000 mm	2776 mm	150 mm	4839 mm
	4300 mm	2921 mm	150 mm	5139 mm
	4500 mm	3021 mm	150 mm	5339 mm
	5000 mm	3271 mm	150 mm	5839 mm
	5500 mm	3521 mm	150 mm	6339 mm
Duplex mast ZZ / Including 3A fork carriage with 6 rollers (standard) / suitable for integrated sideshift 3A with 6 rollers (option)	3142 mm	2304 mm	1415 mm	4031 mm
	3342 mm	2404 mm	1515 mm	4231 mm
	3542 mm	2504 mm	1615 mm	4431 mm
	4035 mm	2751 mm	1862 mm	4924 mm
Triplex mast DZ / Including 3A fork carriage with 6 rollers (standard) / suitable for integrated sideshift 3A with 6 rollers (option)	4150 mm	2121 mm	1232 mm	5039 mm

	4400 mm	2204 mm	1315 mm	5289 mm
	4700 mm	2304 mm	1415 mm	5589 mm
	4850 mm	2354 mm	1465 mm	5739 mm
	5000 mm	2404 mm	1515 mm	5889 mm
	5300 mm	2504 mm	1615 mm	6189 mm
	5500 mm	2571 mm	1682 mm	6389 mm
	6000 mm	2751 mm	1862 mm	6889 mm
	6500 mm	2931 mm	2042 mm	7389 mm
EFG S50	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT / Including 4A fork carriage with 6 rollers (standard)	2846 mm	2329 mm	150 mm	3800 mm
	3246 mm	2529 mm	150 mm	4200 mm
	3430 mm	2621 mm	150 mm	4384 mm
	3740 mm	2776 mm	150 mm	4694 mm
	4030 mm	2921 mm	150 mm	4984 mm
	4230 mm	3021 mm	150 mm	5184 mm
	4730 mm	3271 mm	150 mm	5684 mm
	5230 mm	3521 mm	150 mm	6184 mm
Duplex mast ZT / Suitable for 3A fork carriage with 6 rollers (option)	3000 mm	2271 mm	150 mm	3839 mm
	3300 mm	2421 mm	150 mm	4139 mm
	3500 mm	2529 mm	150 mm	4339 mm
	3700 mm	2621 mm	150 mm	4539 mm
	4000 mm	2776 mm	150 mm	4839 mm
	4300 mm	2921 mm	150 mm	5139 mm
	4500 mm	3021 mm	150 mm	5339 mm
	5000 mm	3271 mm	150 mm	5839 mm
	5500 mm	3521 mm	150 mm	6339 mm
Duplex mast ZZ / Including 4A fork carriage with 6 rollers (standard)	2932 mm	2304 mm	1300 mm	3936 mm
	3132 mm	2404 mm	1400 mm	4136 mm
	3332 mm	2504 mm	1500 mm	4336 mm
	3825 mm	2751 mm	1747 mm	4829 mm

Duplex mast ZZ / Suitable for 3A fork carriage with 6 rollers (option)	3092 mm	2304 mm	1415 mm	3981 mm
	3292 mm	2404 mm	1515 mm	4181 mm
	3492 mm	2504 mm	1615 mm	4381 mm
	3985 mm	2751 mm	1862 mm	4874 mm
Duplex mast ZZ / suitable for integrated sideshift 4A with 6 rollers (option)	3292 mm	2404 mm	1515 mm	4181 mm
	3492 mm	2504 mm	1615 mm	4381 mm
	3985 mm	2751 mm	1862 mm	4874 mm
Triplex mast DZ / Including 4A fork carriage with 6 rollers (standard)	3875 mm	2121 mm	1117 mm	4879 mm
	4120 mm	2204 mm	1200 mm	5124 mm
	5020 mm	2504 mm	1500 mm	6024 mm
	5220 mm	2571 mm	1567 mm	6224 mm
Triplex mast DZ / Suitable for 3A fork carriage with 6 rollers (option)	4050 mm	2121 mm	1232 mm	4939 mm
	4300 mm	2204 mm	1315 mm	5189 mm
	4600 mm	2304 mm	1415 mm	5489 mm
	5200 mm	2504 mm	1615 mm	6089 mm
	5400 mm	2571 mm	1682 mm	6289 mm
	5720 mm	2681 mm	1792 mm	6609 mm
	6460 mm	2931 mm	2042 mm	7349 mm
Triplex mast DZ / suitable for integrated sideshift 4A with 6 rollers (option)	4050 mm	2121 mm	1232 mm	4939 mm
	4300 mm	2204 mm	1315 mm	5189 mm
	4600 mm	2304 mm	1415 mm	5489 mm

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich						
	1.2	Manufacturer's type designation			EFG 540k	EFG 540	EFG 545k	EFG 545	EFG 550	EFG S50	
	1.3	Drive type			electric						
	1.4	Operation			Seat						
	1.5	Load capacity/load	Q	kg	4000		4500		4990	5000	
	1.6	Load centre distance	c	mm	500					600	
	1.8	Load distance, centre of drive axle to fork	x	mm	532					547	
	1.9	Wheelbase	y	mm	1856	2000	1856	2000		2080	
Weights	2.1.1	Service weight (incl. battery)		kg	6931	6854	7305	7290	7700	8248	
	2.2	Axle load laden front/rear		kg	9887 / 1044	9853 / 1000	10691 / 1115	10655 / 1135	11488 / 1212	11881 / 1367	
	2.3	Axle load unladen front/rear		kg	3663 / 3268	3789 / 3064	3688 / 3617	3833 / 3457	3908 / 3792	4124 / 4124	
Wheels/chassis	3.2	Tyre size, front			355/45-15 (28x12,5-15)						
	3.3	Tyre size, rear			200/75-9 (21x8-9)					250/60-12 (23x10-12)	
	3.5	Wheels, number front/back (x=driven)			2x/2						
	3.6	Tread width, front	b10	mm	1155						
	3.7	Tread width, rear	b11	mm	950					1200	
Basic dimensions	4.1	Forward/backward tilt of mast	a/ß	°	6 / 8						
	4.2	Retracted mast height (h1)	h1	mm	2421					2621	
	4.3	Free lift (h2)	h2	mm	150						
	4.4	Lift (h3)	h3	mm	3300					3430	
	4.5	Extended mast height (h4)	h4	mm	3996		4139			4384	
	4.7	Height of overhead guard (cab)	h6	mm	2360		2359			2357	
	4.8	Seat height/stand height	h7	mm	1345		1344			1342	
	4.12	Coupling height	h10	mm	406	407	406	407	406	404	
	4.12.1	2. Coupling height		mm	569	570	569	571	569		
	4.19	Total length	l1	mm	3834	3978	3834	3978		4132	
	4.20	Length including fork shank	l2	mm	2684	2828	2684	2828		2982	
	4.21.1	Total width	b1	mm	1453					1461	
	4.22	Fork dimensions	s/e/l	mm	50 x 125 x 1150				50 x 150 x 1150	60 x 150 x 1150	
	4.24	Fork carriage width	b3	mm	1260						
	4.31	Ground clearance laden under mast	m1	mm	158		156	157	155	156	
	4.32	Ground clearance centre of wheelbase	m2	mm	141			140		137	
	4.34.1	Aisle width (pallet 1000×1200 sideways)	Ast	mm	4073	4222	4073	4222		4543	
	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	4273	4422	4273	4422		4743	
	4.35	Turning radius	Wa	mm	2341	2490	2341	2490		2796	
	4.36	Smallest pivot point distance	b13	mm	653	701	653	701		765	

Performance data	5.1	Travel speed laden/unladen (Efficiency | drivePLUS)	km/h	17 / 17 | 20 / 20					17 / 17 | 17 / 18
	5.2	Lift speed laden/unladen (Efficiency | liftPLUS)	m/s	0.4 / 0.45 | 0.4 / 0.51		0.38 / 0.45 | 0.44 / 0.47		0.37 / 0.45 | 0.44 / 0.5	
	5.3	Lowering speed laden/unladen (Efficiency | liftPLUS)	m/s	0.55 / 0.5 | 0.55 / 0.5				0.48 / 0.54 | 0.48 / 0.54	0.48 / 0.49 | 0.49 / 0.5
	5.5	Drawbar pull laden/unladen (Efficiency | drivePLUS)	N	6500 / 6500 | 6500 / 6500					
	5.6	Max. drawbar pull laden/unladen (Efficiency | drivePLUS)	N	18200 / 18200 | 22000 / 22000					
	5.7	Gradeability laden/unladen (Efficiency | drivePLUS)	%	8.5 / 13.5 | 10.9 / 17.3	8.6 / 13.7 | 11 / 17.6	7.8 / 12.6 | 10 / 16.2	8.1 / 12.8 | 10 / 16.3	7.3 / 12.1 | 9.4 / 15.6	7 / 11.3 | 9 / 15
	5.8	Max. gradeability laden/unladen (Efficiency | drivePLUS)	%	17 / 27.4 | 18.5 / 31.5	17.2 / 27.9 | 18.5 / 31.5	15.6 / 25.6 | 17.9 / 29.6	15.7 / 25.8 | 18 / 29.8	14.6 / 24.5 | 16.7 / 28.2	14 / 22.8 | 16 / 26
	5.9	Acceleration time laden/unladen (Efficiency | drivePLUS)	s	6.6 / 6.2 | 6 / 5.3		6.8 / 6.4 | 6.2 / 5.5		7 / 6.6 | 6.2 / 5.5	7.2 / 6.8 | 6.3 / 5.6
	5.10	Service brake		Friction brake (hydraulically operated)					
Electric motor/electronics	6.1	Drive motor, performance S2 60 min (Efficiency | drivePLUS)	kW	10.3 | 16					
	6.1.1	2. Drive motor, performance S2 60 min (Efficiency | drivePLUS)	kW	10.3 | 16					
	6.2	Lift motor, performance with S3 (Efficiency | liftPLUS)	kW	26.5 | 28					
	6.4	Battery voltage/nominal capacity	V / Ah	80 / 775	80 / 930	80 / 775	80 / 930		
	6.5	Battery weight	kg	1863	2178	1863	2178		
	6.6.1	Energy consumption according to EN cycle (Efficiency | PLUS)	kWh/h	10.1 | 10.5	10.1 | 10.4	11 | 11.3		11.6 | 12.1	12.5 | 12.5
	6.6.2	CO2 equivalent according to EN ISO 23308 (Efficiency | PLUS)	kg/h	5.46 | 5.7	5.46 | 5.6	5.94 | 6.1		6.27 | 6.5	6.75 | 6.8
	6.7	Throughput (Efficiency | PLUS)	t/h	248 | 264		266 | 288		315 | 330	295 | 320
	6.8	Turnover efficiency according to VDI 2198 (Efficiency | PLUS)	t/kWh	23.3 | 21.5		24.9 | 23.1		27.1 | 25.3	26 | 24
Other	10.1	Operating pressure for attachment	bar	240					
	10.2	Oil flow for attachments	l/min	45					

- 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.

CE

JUNGHEINRICH