

High performance and high energy efficiency with 3rd generation AC technology

Ergonomic and easily adjustable operator compartment

SOLO- or MULTI-PILOT integrated into the adjustable armrest

Sealed components to help protect against dust and moisture



EFG 535 – 550

Electric Four-Wheel Counterbalanced Trucks (7,000 – 10,00 lbs.)

The advantages of electrics

The newest generation of 3-phase AC technology offers a number of benefits:

- Maximum throughput with high acceleration, travel and lift speeds.
- Minimal energy consumption due to high efficiency and energy recovery.
- Minimal service costs due to the reduction of mechanical and hydraulic components.

The advantage: powerful drive and lift performance levels and the ability to run up to two shifts on a single battery charge in most applications. Combine this with reduced maintenance requirements, and you can significantly reduce your total cost of ownership.

Outdoor applications

Harsh environments are no problem for the EFG 535-550 series of forklifts because major electrical components are sealed, including connectors, controllers, motors and more. The enclosed cabin option provides a comfortable and productive environment for operators – even in wet, cold or extreme conditions.

 **JUNGHEINRICH**
Machines. Ideas. Solutions.

Technical data

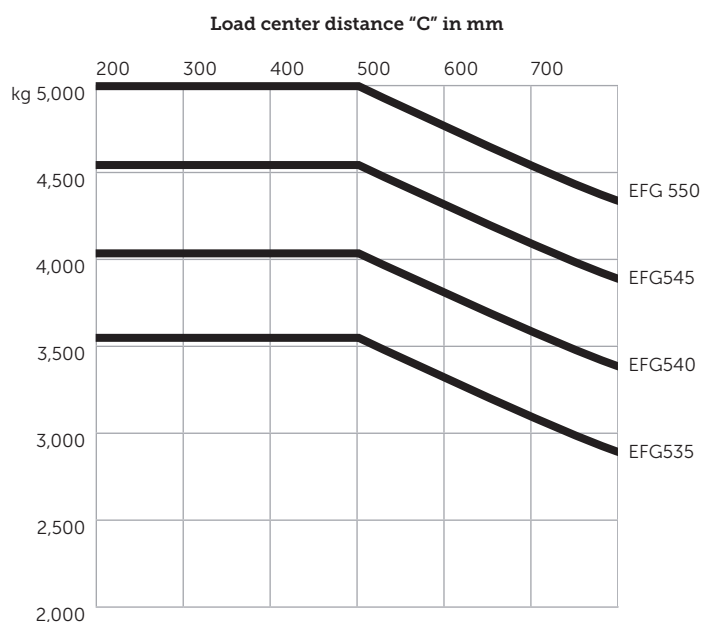
Characteristics	1	Capacity	at rated load center		lb	kg	EFG 535		EFG540		
	2		at load center -- distance		in	mm	6,940	3,500	7,955	4,000	
	3	Power	diesel, gasoline, LP gas, electric				electric		electric		
	4	Tire type	cushion, solid pneumatic				solid pneumatic		solid pneumatic		
	5	Wheels (x=driven)	number front / rear				2x / 2		2x / 2		
Dimensions	11	Lift with standard two-stage mast	maximum fork height		in	mm	122	3,100	118	3,000	
	12		free fork height		in	mm	5.9	150	5.9	150	
	13	Forks	thickness x width x length		in	mm	1.8x4.9x45.3	45x125x1,150	2x4.9x45.3	50x125x1,150	
		Fork spacing	out-to-out minimum / maximum		in	mm	13.75 / 40.5	349 / 1,028	13.75 / 46.5	349 / 1,181	
	14	Tilt	forward / backward		deg		6 / 8		6 / 8		
	15	Overall dimensions	length to fork face		in	mm	105.7	2,685	111.4	2,830	
	16		width	standard	in	mm	52.8	1,340	52.8	1,340	
				wide stance drive wheels	in	mm	not available		not available		
	17		height	lowered mast	in	mm	87.7	2,228	94.7	2,405	
	18			seat height to SIP	in	mm	45.9	1,165	45.9	1,165	
	19			to top of overhead guard	in	mm	91.3	2,320	91.3	2,320	
	20			extended mast	in	mm	170	4,320	166	4,220	
	21	Minimum outside turning radius			in	mm	90.6	2,300	96.5	2,450	
	22	Load moment constant			in	mm	18.9	480	20.1	510	
	23	Minimum aisle - 90º stack – zero clearance without load			in	mm	109.5	2,780	116.6	2,960	
Performance	24	Speeds	travel speed	loaded	mph	km/h	9.9	16	9.3	15	
	empty			mph	km/h	10.6	17	10.6	17		
	lift speed		loaded	fpm	m/s	74.8	0.38	68.9	0.35		
			empty	fpm	m/s	98.4	0.50	92.5	0.47		
	lowering speed		loaded	fpm	m/s	114.2	0.58	108.3	0.55		
			empty	fpm	m/s	108.3	0.55	98.4	0.50		
	27	Drawbar pull (max.)	60 min. rating	loaded / empty		lb-f	N	263 / 288	1,169 / 1,281	258 / 283	1,147 / 1,259
	5 min. rating		loaded / empty		lb-f	N	743 / 753	3,305 / 3,350	738 / 753	3,282 / 3,350	
28	Gradeability	maximum gradeability	loaded	%		15.5		14.0			
			empty	%		25.0		23.5			
Weight	29	Empty	with minimum weight battery		lb	kg	12,582	5,707	14,321	6,496	
	30	Axle load	with rated load	front	lb	kg	17,528	8,267	20,385	9,605	
				rear	lb	kg	1,994	940	1,891	891	
			without load	front	lb	kg	6,508	2,952	8,029	3,642	
				rear	lb	kg	6,074	2,755	6,292	2,854	
Chassis	31	Tire size	front, standard solid pneumatic tires		in		250-15		250-15		
	rear solid pneumatic tires		in		21x8-9		21x8-9				
	32	Wheelbase			in	mm	73.0	1,855	78.7	2,000	
	33	Tread width	front, standard solid pneumatic tires		in	mm	44.1	1,120	44.1	1,120	
	rear solid pneumatic tires		in	mm	37.4	950	37.4	950			
	35	Ground clearance	at lowest point at mast		in	mm	4.7	120.0	4.7	120.0	
	36		at center of wheelbase		in	mm	6.3	160.0	6.3	160.0	
	37	Brakes	service		type		hydraulic		hydraulic		
38	parking		type		hydraulic		hydraulic				
Powertrain	39		dimensions (length x width x height)				33.66 x 40.47 x 30.87		39.33 x 40.47 x 30.87		
	41	Battery	maximum capacity at 6 hour discharge rate		Ah	kWh	700	54.4	840	65.2	
	42		weight, minimum / maximum		lb	kg	3,902 / 4,436	1,770 / 2,012	4,562 / 5,186	2,069 / 2,352	
	43	Motors	traction output (60 minute rating)		HP	kW	24.1	18.0	24.1	18.0	
	44		lift output (15% rating)		HP	kW	31.5	23.5	31.5	23.5	
	45	Controls	drive		type		AC		AC		
	46		hydraulic		type		AC		AC		
	47	Flow rate for attachments			gpm		7.9		7.9		
	48	Relief pressure	for attachments at auxiliary		psi	bar	2,900	200	2,900	200	
	49	Noise level	mean value at operator's ear		dB(A)		75		75		

This specification sheet only provides technical values for the standard truck. Non-standard tires, different masts, different axle widths, additional equipment, etc. could produce other values. Rights reserved for technical changes and improvements.

EFG 545		EFG 550	
8,950	4,500	9,924	5,000
24	500	24	500
electric		electric	
solid pneumatic		solid pneumatic	
2x / 2		2x / 2	
118	3,000	118	3,000
5.9	150	5.9	150
2x5.9x45.3	50x150x1,150	2x5.9x45.3	50x150x1,150
15.75 / 46.5	400 / 1,181	16.5 / 46.5	419 / 1,181
6 / 8		6 / 8	
111.4	2,830	111.4	2,830
52.8	1,340	57.1	1,450
not available		not available	
94.7	2,405	94.7	2,405
45.9	1,165	45.9	1,165
91.3	2,320	91.3	2,320
166	4,220	166	4,220
96.5	2,450	96.5	2,450
20.1	510	20.1	510
116.6	2,960	116.6	2,960
9.3	15	9.3	15
10.3	16.5	9.9	16
65.0	0.33	61.0	0.31
88.6	0.45	88.6	0.45
108.3	0.55	108.3	0.55
98.4	0.50	98.4	0.50
248 / 278	1,102 / 1,236	253 / 293	1,124 / 1,304
733 / 748	3,260 / 3,327	763 / 783	3,395 / 3,485
12.5		12.0	
21.5		21.0	
15,092	6,846	15,864	7,196
21,837	10,305	23,482	11,105
2,205	1,040	2,306	1,091
8,035	3,644	8,040	3,647
7,057	3,201	7,824	3,549
250-15		28x12.5-15	
21x8-9		21x8-9	
78.7	2,000	78.7	2,000
44.1	1,120	45.3	1,150
37.4	950	37.4	950
4.7	120.0	4.7	120.0
6.3	160.0	6.3	160.0
hydraulic		hydraulic	
hydraulic		hydraulic	
39.33 x 40.47 x 30.87		39.33 x 40.47 x 30.87	
840	65.2	840	65.2
4,562 / 5,186	2,069 / 2,352	4,562 / 5,186	2,069 / 2,352
24.1	18.0	24.1	18.0
31.5	23.5	31.5	23.5
AC		AC	
AC		AC	
7.9		7.9	
2,900	200	2,900	200
75		75	

Mast table EFG 535-550						
Designation	Lift h ₃ in/mm	Free lift h ₂ in/mm			Closed height h ₁ in/mm	
		EFG 535	EFG 540 / 545	EFG 550	EFG 535	EFG 540-550
Two-stage mast ZT	108 / 2,750	—	6 / 150	6 / 150	—	90 / 2,280
	118 / 3,000	—	6 / 150	6 / 150	—	95 / 2,405
	122 / 3,100	6 / 150	—	—	88 / 2,228	—
	137 / 3,500	6 / 150	6 / 150	6 / 150	96 / 2,428	106 / 2,655
	157 / 4,000	6 / 150	6 / 150	6 / 150	106 / 2,678	115 / 2,905
	177 / 4,500	6 / 150	6 / 150	6 / 150	118 / 2,978	125 / 3,155
	196 / 5,000	6 / 150	6 / 150	6 / 150	128 / 3,228	135 / 3,405
	216 / 5,500	—	6 / 150	6 / 150	—	144 / 3,655
	236 / 6,000	—	6 / 150	6 / 150	—	154 / 3,905
	255 / 6,500	—	6 / 150	6 / 150	—	164 / 4,155
Two-stage mast ZZ	106 / 2,700	—	54 / 1,376	48 / 1,227	—	82 / 2,080
	116 / 2,950	—	59 / 1,501	53 / 1,352	—	87 / 2,205
	135 / 3,450	—	69 / 1,751	63 / 1,602	—	97 / 2,455
	155 / 3,950	—	79 / 2,001	73 / 1,852	—	107 / 2,705
	175 / 4,450	—	87 / 2,251	83 / 2,102	—	117 / 2,955
	194 / 4,950	—	98 / 2,501	93 / 2,352	—	127 / 3,205
	214 / 5,450	—	108 / 2,751	102 / 2,602	—	137 / 3,455
Three-stage mast DZ	149 / 3,800	—	54 / 1,376	49 / 1,227	—	82 / 2,080
	164 / 4,175	—	59 / 1,501	53 / 1,352	—	87 / 2,205
	185 / 4,700	56 / 1,430	—	—	87 / 2,193	—
	193 / 4,925	—	69 / 1,751	63 / 1,602	—	97 / 2,455
	196 / 5,000	60 / 1,530	—	—	91 / 2,293	—
	208 / 5,300	—	74 / 1,871	68 / 1,727	—	102 / 2,580
	216 / 5,500	68 / 1,730	—	—	99 / 2,493	—
	223 / 5,675	—	79 / 2,001	73 / 1,852	—	107 / 2,705
	236 / 6,000	76 / 1,930	—	—	107 / 2,693	—
	252 / 6,425	—	89 / 2,251	83 / 2,102	—	117 / 2,955
	255 / 6,500	84 / 2,130	—	—	114 / 2,893	—
	282 / 7,175	—	99 / 2,521	93 / 2,352	—	127 / 3,205

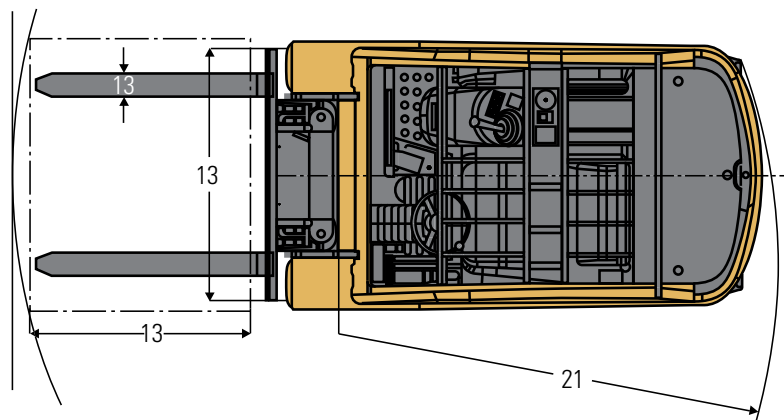
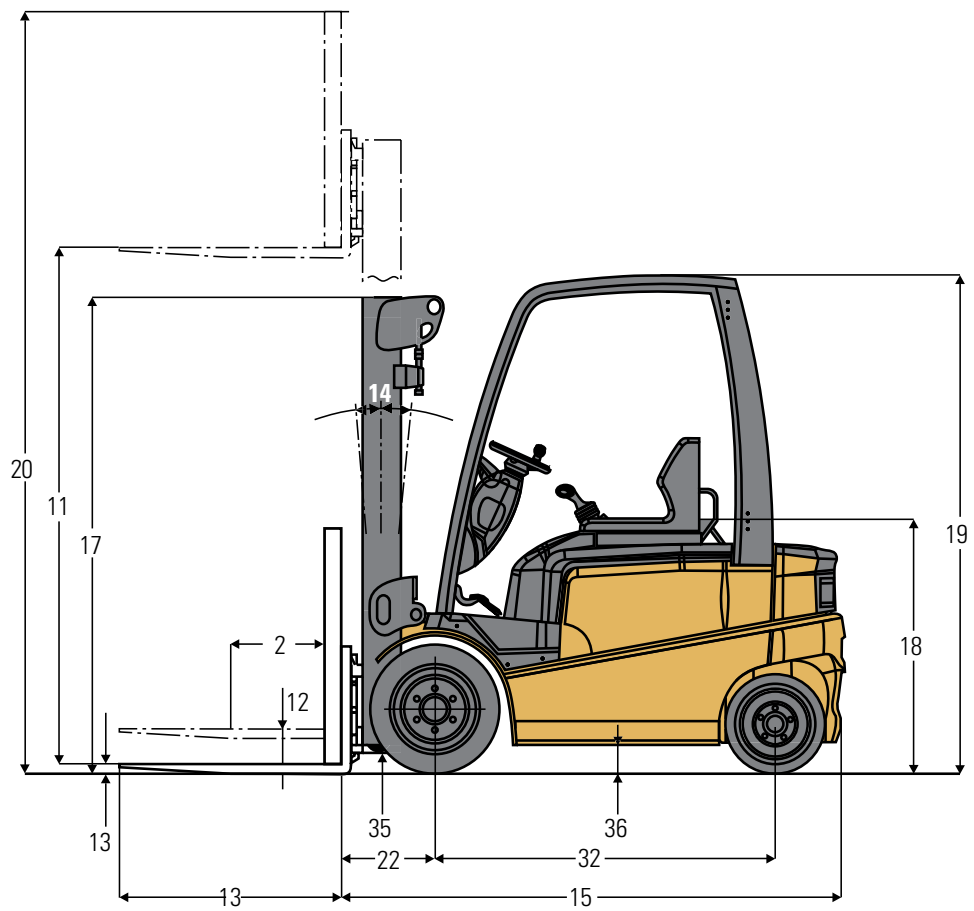
Capacity



as of: 09/2012

				Capacity table lbs/kg c=500 mm			
Extended height h ₄ in/mm			Tilt forward / backward α/β (°)	without sideshift, single tires			
EFG 535	EFG 540 / 545	EFG 550		EFG 535	EFG 540	EFG 545	EFG 550
—	141 / 3,580	141 / 3,580	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	151 / 3,830	151 / 3,830	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
153 / 3,883	—	—	6 / 8	7,716 / 3,500	—	—	—
169 / 4,283	171 / 4,330	171 / 4,330	6 / 8	7,716 / 3,500	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
189 / 4,783	191 / 4,830	191 / 4,830	6 / 8	7,716 / 3,500	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
208 / 5,283	210 / 5,330	210 / 5,330	6 / 8	7,716 / 3,500	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
228 / 5,783	230 / 5,830	230 / 5,830	6 / 8	7,605 / 3,450	8,818 / 4,000	9,920 / 4,500	10,802 / 4,900
—	250 / 6,330	250 / 6,330	6 / 5	—	8,487 / 3,850	9,038 / 4,100	10,582 / 4,800
—	269 / 6,830	269 / 6,830	6 / 5	—	8,157 / 3,700	—	10,141 / 4,600
—	289 / 7,330	289 / 7,330	6 / 5	—	—	—	—
—	135 / 3,404	140 / 3,553	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	144 / 3,654	150 / 3,803	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	164 / 4,154	170 / 4,303	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	184 / 4,654	190 / 4,803	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	203 / 5,154	209 / 5,303	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	223 / 5,654	229 / 5,803	6 / 8	—	8,818 / 4,000	—	11,001 / 4,990
—	243 / 6,154	249 / 6,303	6 / 5	—	—	—	—
—	178 / 4,504	184 / 4,653	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
—	193 / 4,879	198 / 5,023	6 / 8	—	8,818 / 4,000	9,920 / 4,500	11,001 / 4,990
216 / 5,463	—	—	6 / 8	7,716 / 3,500	—	—	—
—	222 / 5,629	228 / 5,773	6 / 8	—	8,642 / 3,920	9,744 / 4,420	10,471 / 4,750
227 / 5,763	—	—	6 / 8	7,716 / 3,500	—	—	—
—	237 / 6,004	243 / 6,153	6 / 5	—	8,575 / 3,890	9,479 / 4,300	10,361 / 4,700
247 / 6,263	—	—	6 / 5	6,834 / 3,100	—	—	—
—	252 / 6,379	257 / 6,523	6 / 5	—	8,267 / 3,750	9,259 / 4,200	10,163 / 4,610
267 / 6,763	—	—	6 / 5	6,393 / 2,900	—	—	—
—	281 / 7,129	287 / 7,273	6 / 3	—	7,826 / 3,550	8,818 / 4,000	9,479 / 4,300
286 / 7,263	—	—	6 / 5	6,172 / 2,800	—	—	—
—	311 / 7,879	316 / 8,023	6 / 3	—	7,054 / 3,200	7,054 / 3,200	8,818 / 4,000

EFG 535-550



The Jungheinrich Advantage

Superior operator comfort

The ergonomic operator compartment allows for relaxed and productive operation, particularly beneficial at the end of long shifts:

- Low, wide step with slip resistant tread.
- Ability to tilt the narrow steering column to suit the operator's needs.
- All essential controls are located on the highly-adjustable armrest, allowing for easy, intuitive operator control.
- Operators will experience an extremely comfortable ride on rough or uneven floors with the combination of solid pneumatic tires, a full-suspension seat and floating cabin.
- Outstanding view thanks to an innovative overhead guard design and optimized mast channel nesting and hose routing.

Maintenance-free braking system

- Regenerative braking with the traction motor, allows for smooth, energy efficient deceleration.
- Automatically engaging parking brake for secure stopping, even on ramps.
- Multiple wet disc brakes are highly sealed for extreme durability in harsh environments.

Maintenance-free motors

The new generation of 3-phase AC motors will impress – providing quiet and precise operation at all speeds.

- High torque for faster operation cycles.



A smooth ride even in outdoor applications

- Lifetime lubrication of main components.
- Motor, brake and gears are integrated into the sealed drive axle.
- Dust and water protection to IP54.

Control systems

High performance also requires a high degree of control. That's why the EFG series includes a comprehensive range of equipment for more secure operation:

- Deactivation of all hydraulic functions when the operator seat is not occupied.
- No roll-back on ramps or inclines with the automatic parking brake, even when the vehicle is switched off.
- Automatic progressive reduction of the driving speed during cornering with Jungheinrich Curve Control.



Optimized visibility

Intelligent electronics

- Smooth travel / reversing and precise positioning.
- Optimally adapts to any situation using five individual work programs.
- Efficient communication between the truck and operator / technician with the highly informative, interactive display.

