

High performance and high energy efficiency with 4th 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 425 – S30

Electric Four-Wheel Counterbalanced Trucks (5,000 – 6,500 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: industry-leading 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 425-S30 series of forklifts because major electrical components are highly 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

						EFG 425k		EFG 425		EFG 430k		
						lb	kg					
Characteristics	1	Capacity	at rated load center		lb	kg	4,928	2,500	4,928	2,500	5,917	3,000
	2		at load center - distance		in	mm	24	500	24	500	24	500
	3	Power	diesel, gasoline, LP gas, electric				electric		electric		electric	
	4	Tire type	cushion, solid pneumatic				solid pneumatic		solid pneumatic		solid pneumatic	
	5	Wheels (x=driven)	number front / rear				2x / 2		2x / 2		2x / 2	
Dimensions	11	Lift with standard two-stage mast	maximum fork height		in	mm	122	3,100	122	3,100	122	3,100
	12		free fork height		in	mm	5.9	150	5.9	150	5.9	150
	13	Forks	thickness x width x length		in	mm	1.6x4.7x43	40x120x1,100	1.6x4.7x43	40x120x1,100	1.8x4.9x43	45x125x1,100
		Fork spacing	out-to-out minimum / maximum		in	mm	13.25 / 40.25	335 / 1,022	13.25 / 40.25	335 / 1,022	13.75 / 40.5	349 / 1,028
	14	Tilt	forward / backward		deg		6° / 8°		6° / 8°		6° / 8°	
	15	Overall dimensions	length to fork face		in	mm	90.4	2,295	96.1	2,440	90.6	2,300
	16		width	standard	in	mm	47.2	1,198	47.2	1,198	47.2	1,198
				w/ wide stance drive wheels	in	mm	N/A		N/A		51.2	1,300
	17		height	with lowered mast	in	mm	88.2	2,240	88.2	2,240	88.2	2,240
	18			seat height to SIP	in	mm	46.9	1,190	46.9	1,190	46.9	1,190
	19			to top of overhead guard	in	mm	88.2	2,240	88.2	2,240	88.2	2,240
	20			with extended mast	in	mm	170	4,320	170	4,320	174	4,430
	21	Minimum outside turning radius		in	mm	78.7	2,000	84.7	2,150	78.7	2,000	
	22	Load moment constant		in	mm	16.7	425	16.7	425	16.9	430	
	23	Minimum aisle - 90° stack – zero clearance without load		in	mm	95.5	2,425	101.4	2,575	95.7	2,430	
Performance	24	Speeds	travel speed	loaded	mph	km/h	10.0	16.0	10.0	16.0	10.0	16.0
	empty			mph	km/h	10.6	17.0	10.6	17.0	10.6	17.0	
	lift speed		loaded	fpm	m/s	84.7	0.43	84.7	0.43	78.7	0.40	
			empty	fpm	m/s	108.3	0.55	108.3	0.55	108.3	0.55	
	26	lowering speed	loaded	fpm	m/s	114.2	0.58	114.2	0.58	114.2	0.58	
	empty		fpm	m/s	114.2	0.58	114.2	0.58	114.2	0.58		
	27	Drawbar pull (max.)	60 min. rating	loaded	lb-f	N	809	3,600	787	3,500	1,012	4,500
				empty	lb-f	N	899	4,000	877	3,900	1,124	5,000
			5 min. rating	loaded	lb-f	N	2,810	12,500	2,810	12,500	3,147	14,000
				empty	lb-f	N	2,923	13,000	2,923	13,000	3,260	14,500
	28	Gradeability	maximum gradeability	loaded	%		17		17		15	
		empty		%		25		25		23		
Weight	29	Empty	with minimum weight battery		lb	kg	10,472	4,750	10,311	4,677	11,530	5,230
	30	Axle load	with rated load	front	lb	kg	14,191	6,437	14,321	6,496	16,152	7,327
				rear	lb	kg	1,793	813	1,502	681	1,992	903
			without load	front	lb	kg	5,443	2,469	5,858	2,657	5,558	2,521
				rear	lb	kg	5,029	2,281	4,453	2,020	5,950	2,699
Chassis	31	Tire size	front, standard solid pneumatic tires				225/75-10		225/75-10		250/60-12	
			rear solid pneumatic tires				180/70-8		180/70-8		200/50-10	
	32	Wheelbase			in	mm	62.0	1,575	67.7	1,720	62.0	1,575
	33	Tread width	front, standard solid pneumatic tires		in	mm	39.0	990	39.0	990	37.4	950
	34		rear solid pneumatic tires		in	mm	37.0	940	37.0	940	37.0	940
	35	Ground clearance	at lowest point at mast		in	mm	4.7	120	4.7	120	4.7	120
	36		at center of wheelbase		in	mm	5.3	135	5.3	135	5.3	135
	37	Brakes	service		type		mechanical		mechanical		mechanical	
38	parking		type		electric		electric		electric			
Powertrain	39	Battery	dimensions (length x width x height)		in		27.99x40.47x30.87		33.66x40.47x30.87		27.99x40.47x30.87	
	40		maximum capacity at 6 hr. discharge rate		Ah	kWh	700	54.4	700	54.4	700	54.4
	41		weight, minimum / maximum		lb	kg	3,263 / 4,037	1,480 / 1,831	3,902 / 4,436	1,770 / 2,012	3,263 / 4,037	1,480 / 1,831
	42	Motors	traction output (60 min. rating)		HP	kW	16.1	12.0	16.1	12.0	16.1	12.0
	43		lift output (15% rating)		HP	kW	24.8	18.5	24.8	18.5	24.8	18.5
	44	Controls	drive		type		impulse / AC		impulse / AC		impulse / AC	
	45		hydraulic		type		AC		AC		AC	
	46	Flow rate for attachments		gpm	lpm	6.6	25	6.6	25	6.6	25	
	47	Relief pressure	for attachments at auxiliary		psi	bar	2,900	200	2,900	200	2,900	200
	48	Noise level	mean value at operator's ear		dB(A)		70		70		70	

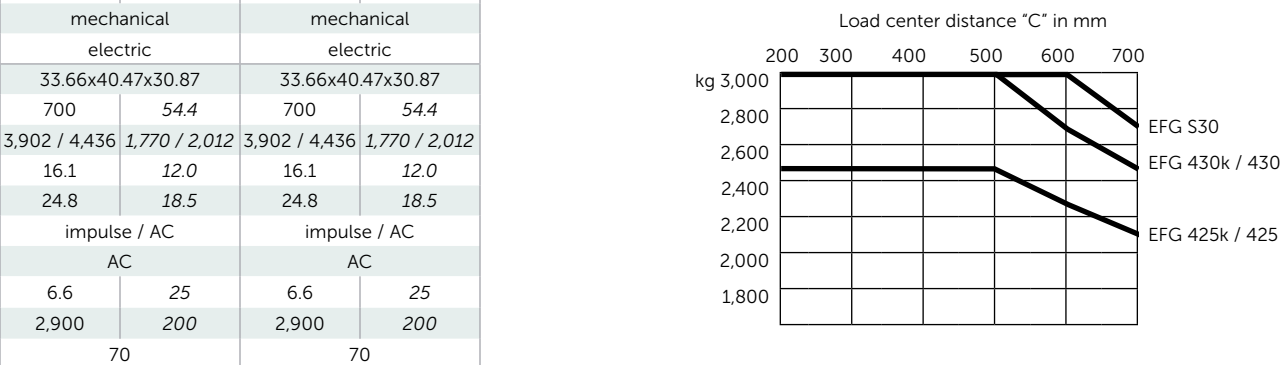
This specification sheet only provides technical values for the standard truck. Non-standard tires, different masts, different axle widths, additional equipment, etc. could produce other values. Rights reserved for technical changes and improvements.

EFG 430		EFG S30	
5,917	3,000	6,608	3,000
24	500	24	600
electric		electric	
solid pneumatic		solid pneumatic	
2x / 2		2x / 2	
122	3,100	122	3,100
5.9	150	5.9	150
1.8x4.9x43	45x125x1,100	2.0x4.9x45	50x125x1,150
13.75 / 40.5	349 / 1,028	13.75 / 40.5	349 / 1,028
6° / 8°		6° / 8°	
96.3	2,445	96.5	2,450
47.2	1,198	51.2	1,300
51.2	1,300	N/A	
88.2	2,240	88.2	2,240
46.9	1,190	46.9	1,190
88.2	2,240	88.2	2,240
174	4,430	174	4,430
84.7	2,150	84.7	2,150
16.9	430	16.9	430
101.6	2,580	101.6	2,580
10.0	16.0	10.0	16.0
10.6	17.0	10.6	17.0
78.7	0.40	78.7	0.40
108.3	0.55	108.3	0.55
114.2	0.58	114.2	0.58
114.2	0.58	114.2	0.58
1,012	4,500	1,012	4,500
1,124	5,000	1,124	5,000
3,147	14,000	3,147	14,000
3,260	14,500	3,260	14,500
15		15	
23		23	
11,303	5,127	11,876	5,387
16,086	7,297	16,462	7,467
1,831	830	2,005	910
5,846	2,652	5,876	2,665
5,457	2,475	5,985	2,715
250/60-12		315/45-12	
180/70-8		200/50-10	
67.7	1,720	67.7	1,720
37.4	950	39.4	1,000
37.0	940	37.0	940
4.7	120	4.7	120
5.3	135	5.3	135
mechanical		mechanical	
electric		electric	
33.66x40.47x30.87		33.66x40.47x30.87	
700	54.4	700	54.4
3,902 / 4,436	1,770 / 2,012	3,902 / 4,436	1,770 / 2,012
16.1	12.0	16.1	12.0
24.8	18.5	24.8	18.5
impulse / AC		impulse / AC	
AC		AC	
6.6	25	6.6	25
2,900	200	2,900	200
70		70	

Mast table EFG 425 – 430							
Designation	Lift height h ₃		Free lift h ₂				Closed height h ₁ in
			in		mm		
	in	mm	EFG 425		EFG 430/S30		
Two-stage mast ZT	114	2,900	6	150	6	150	84
	122	3,100	6	150	6	150	88
	130	3,300	6	150	6	150	92
	137	3,500	6	150	6	150	95
	145	3,700	6	150	6	150	99
	157	4,000	6	150	6	150	105
	169	4,300	6	150	6	150	113
	177	4,500	6	150	6	150	117
	185	4,700	6	150	6	150	121
	196	5,000	6	150	6	150	127
	216	5,500	6	150	6	150	139
	228	5,800	6	150	6	150	145
Two-stage mast ZZ	114	2,900	59	1,500	53	1,350	82
	122	3,100	63	1,600	57	1,450	86
	130	3,300	67	1,700	61	1,550	90
	137	3,500	71	1,800	65	1,650	94
	145	3,700	75	1,900	69	1,750	98
	157	4,000	81	2,050	75	1,900	104
	169	4,300	89	2,250	83	2,100	112
	177	4,500	93	2,350	87	2,200	116
Three-stage mast DZ	173	4,400	59	1,500	53	1,350	82
	185	4,700	63	1,600	57	1,450	86
	196	5,000	67	1,700	61	1,550	90
	216	5,500	75	1,900	69	1,750	98
	236	6,000	83	2,100	77	1,950	106
	256	6,500	91	2,300	85	2,150	114
	275	7,000	98	2,500	93	2,350	122

					EFG 425k High Performance	
Speeds	travel speed,	loaded	mph	km/h	11.8	19.0
		empty	mph	km/h	12.4	20.0
	lift speed,	loaded	fpm	m/s	94.5	0.48
		empty	fpm	m/s	118.1	0.60
	lowering speed,	loaded	fpm	m/s	114.2	0.58
		empty	fpm	m/s	114.2	0.58
Drawbar pull (maximum)	60 minute rating	loaded	lb-f	N	1,147	5,100
		empty			1,259	5,600
	5 minute rating	loaded	lb-ft	N	3,597	16,000
		empty			3,664	16,300
Gradeability	maximum gradeability	loaded	%		19	
		empty	%		27	
Motors	traction output (60 min. rating)		HP	kW	20.1	15.0
	lift output (15% rating)		HP	kW	29.5	22.0

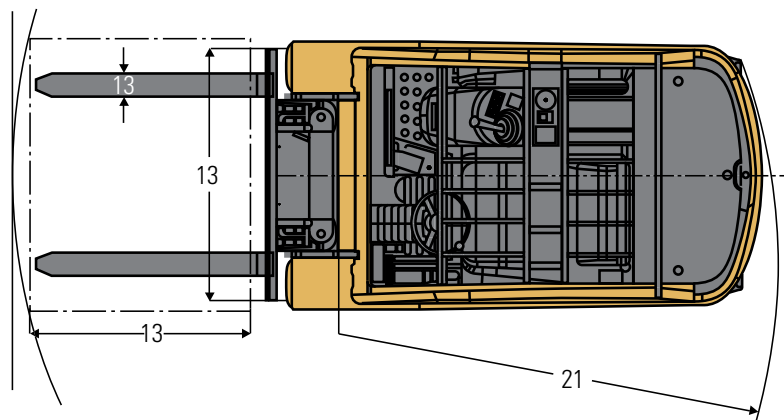
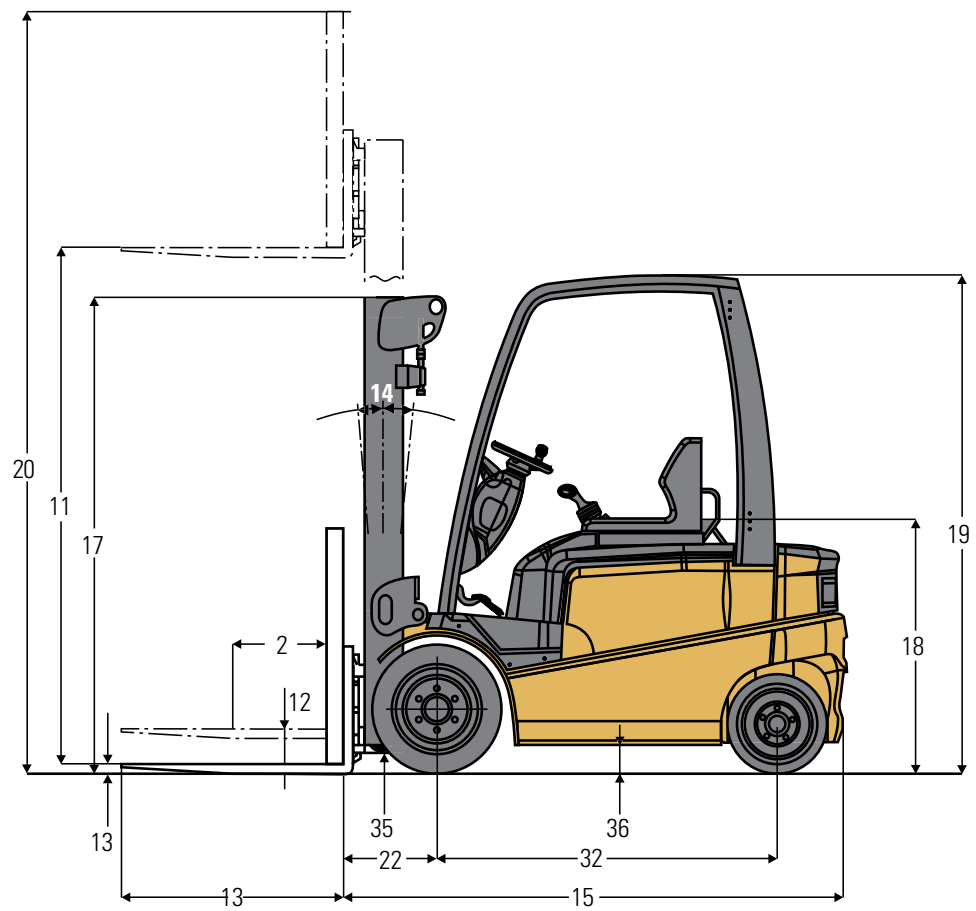
Capacity



						Capacity table (kg)					
						c=500				c=600	
Closed height h ₁ mm	Extended height h ₄				Tilt forward/backward α/β(°)	without sideshift single tires					
	in mm		in mm			lbs kg		lbs kg		lbs kg	
	EFG 425		EFG 430/S30			EFG 425		EFG 430		EFG S30	
2,115	138	3,490	142	3,600	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,215	146	3,690	150	3,800	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,315	154	3,890	158	4,000	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,415	161	4,090	166	4,200	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,515	169	4,290	174	4,400	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,665	181	4,590	185	4,700	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,865	193	4,890	197	5,000	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,965	201	5,090	205	5,200	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
3,065	209	5,290	213	5,400	6 / 5.5	5,420	2,500	6,510	3,000	6,510	3,000
3,215	220	5,590	225	5,700	6 / 5.5	5,420	2,500	6,290	2,900	6,290	2,900
3,515	240	6,090	245	6,200	6 / 5.5	4,990	2,300	5,750	2,650	5,750	2,650
3,665	252	6,390	256	6,500	6 / 5.5	4,670	2,150	5,420	2,500	5,420	2,500
2,080	137	3,480	143	3,630	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,180	145	3,680	151	3,830	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,280	153	3,880	159	4,030	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,380	161	4,080	167	4,230	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,480	169	4,280	175	4,430	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,630	181	4,580	187	4,730	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,830	193	4,880	198	5,030	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,930	200	5,080	206	5,230	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,080	196	4,980	202	5,130	6 / 8	5,420	2,500	6,510	3,000	6,510	3,000
2,180	208	5,280	214	5,430	6 / 5.5	5,420	2,500	6,510	3,000	6,510	3,000
2,280	220	5,580	226	5,730	6 / 5.5	5,420	2,500	6,290	2,900	6,290	2,900
2,480	240	6,080	246	6,230	6 / 5.5	4,880	2,250	5,640	2,600	5,640	2,600
2,680	259	6,580	265	6,730	6 / 5.5	4,340	2,000	4,990	2,300	4,990	2,300
2,880	279	7,080	285	7,230	6 / 3	3,910	1,800	4,560	2,100	4,560	2,100
3,080	299	7,580	305	7,730	6 / 3	3,470	1,600	4,120	1,900	4,120	1,900

EFG 425 High Performance		EFG 430k High Performance		EFG 430 High Performance		EFG S30 High Performance	
11.8	19.0	11.8	19.0	11.8	19.0	11.8	19.0
12.4	20.0	12.4	20.0	12.4	20.0	12.4	20.0
94.5	0.48	84.7	0.43	84.7	0.43	84.7	0.43
118.1	0.60	118.1	0.60	118.1	0.60	118.1	0.60
114.2	0.58	114.2	0.58	114.2	0.58	114.2	0.58
114.2	0.58	114.2	0.58	114.2	0.58	114.2	0.58
1,102	4,900	1,124	5,000	1,124	5,000	1,124	5,000
1,237	5,500	1,304	5,800	1,304	5,800	1,304	5,800
3,597	16,000	3,530	15,700	3,530	15,700	3,530	15,700
3,664	16,300	3,597	16,000	3,597	16,000	3,597	16,000
19		17		18		17	
27		25		26		25	
20.1	15.0	20.1	15.0	20.1	15.0	20.1	15.0
29.5	22.0	29.5	22.0	29.5	22.0	29.5	22.0

EFG 425-S30



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.
- Slim steering column for maximum knee and legroom.
- Ability to tilt and telescope the 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.



Ergonomic operator compartment

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.
- 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.



Speed reduction during cornering

- 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.

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.



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