

Versatile performance for both indoor and outdoor applications.

Outstanding driving safety, even at maximum performance levels.

Fully configurable to suit your specific needs.

Exceptionally powerful and efficient.

Heavy duty hydraulic block for efficient operation with large and heavy attachments.



EFG 540k – S50

Electric Four-Wheel Counterbalanced Trucks (8,000 – 11,000 lbs.)

Versatile by design.

Tailored to your operation.

Whether running one shift or three, in automotive supply, the beverage industry, wholesale or retail: our Series 5 electric four wheel counterbalance trucks handle the toughest heavy duty applications with ease, indoors and outdoors alike. With a load capacity of up to 5,000 kg and the ability to accommodate heavy attachments, they are ideally suited for intralogistics transport as well as efficient side loading and unloading of lorries. Maximum legroom, an ergonomically refined operator compartment with outstanding visibility, and a new sound module make operating the Series 5 counterbalance trucks exceptionally comfortable, while ensuring the highest level of safety.

No worries. No compromise.

The Jungheinrich Li-ion Guarantee Plus provides you with a long-term performance promise of up to 8 years on our high-quality lithium-ion batteries. We are certain that the high performance and long service life of our lithium-ion technology will convince you. This is why we guarantee that you can easily and quickly switch back to your original technology at any time within 6 months of delivery.

Use your data to your advantage.

Utilize the data from your trucks to save time, energy and costs and increase efficiency. Our Telematics box (ex works) provides you with a free fleet management starter package that can be flexibly

**JUNGHEINRICH®**

Technical data

as of: 09/2015

Characteristics				EFG540k		EFG540		EFG 545k					EFG 545		EFG 550		EFG S50			
	1	Capacity at rated load center	lb	kg	8,000	4,000	8,000	4,000	9,000	4,500	1	lb	kg	9,000	4,500	10,000	4,990	11,000	5,500	
	2	Rated load center	in	mm	24	500	24	500	24	500	2	in	mm	24	500	24	500	24	600	
	3	Power – diesel, gasoline, LP gas, electric				80V electric		80V electric		80V electric		3			80V electric		80V electric		80V electric	
	4	Tire type – cushion, pneumatic				solid pneumatic		solid pneumatic		solid pneumatic		4			solid pneumatic		solid pneumatic		solid pneumatic	
5	Wheels, number front / rear (x=driven)				2x / 2		2x / 2		2x / 2		5			2x / 2		2x / 2		2x / 2		
Dimensions	6	Maximum fork height	h ₃	in	mm	130	3,300	130	3,300	130	3,300	6	in	mm	130	3,300	130	3,300	135	3,430
	8	Free fork height		in	mm	5.9	150	5.9	150	5.9	150	8	in	mm	5.9	150	5.9	150	5.9	150
	9	Fork dimensions - thickness x width x length		in	mm	2.0x4.9x45	50x120x1,150	2.0x4.9x45	50x120x1,150	2.0x4.9x45	50x120x1,150	9	in	mm	2.0x4.9x45	50x120x1,150	2.0x5.9x45	50x150x1,150	2.4x5.9x45	60x150x1,150
	10	Fork spacing – out-to-out minimum / maximum		in	mm	16.4 / 44.3	415 / 1,125	16.4 / 44.3	415 / 1,125	16.5 / 44.5	420 / 1,130	10	in	mm	16.5 / 44.5	420 / 1,130	16.5 / 44.5	420 / 1,130	16.5 / 44.5	420 / 1,130
	12	Tilt forward / backward		deg		6° / 8°		6° / 8°		6° / 8°		12	deg		6° / 8°		6° / 8°		6° / 8°	
	13	Length to fork face		in	mm	105.7	2,684	111.3	2,828	105.7	2,684	13	in	mm	111.3	2,828	111.3	2,828	117.4	2,982
	14	Standard width		in	mm	57.2	1,453	57.2	1,453	57.2	1,453	14	in	mm	57.2	1,453	57.2	1,453	57.5	1,461
	15	Width with wide stance drive wheels		in	mm	63.8	1,620	63.8	1,620	63.8	1,620	15	in	mm	63.8	1,620	63.8	1,620	63.8	1,620
	16	Height with lowered mast		in	mm	95.3	2,421	95.3	2,421	95.3	2,421	16	in	mm	95.3	2,421	95.3	2,421	103.2	2,621
	17	Seat height to SIP		in	mm	53.0	1,345	53.0	1,345	52.9	1,344	17	in	mm	52.9	1,344	52.9	1,344	52.8	1,342
	18	Height to top of overhead guard		in	mm	92.9	2,360	92.9	2,360	92.9	2,359	18	in	mm	92.9	2,359	92.9	2,359	92.8	2,357
	19	Height with extended mast		in	mm	157.3	3,996	157.3	3,996	163.0	4,139	19	in	mm	163.0	4,139	163.0	4,139	172.6	4,384
	20	Minimum outside turning radius		in	mm	92	2,341	98	2,490	92	2,341	20	in	mm	98	2,490	98	2,490	110	2,796
	21	Load moment constant		in	mm	20.9	532	20.9	532	20.9	532	21	in	mm	20.9	532	20.9	532	21.5	547
22	Minimum aisle (90° stack) - must add load length and clearance		in	mm	111.1	2,823	117.0	2,972	111.1	2,823	22	in	mm	117.0	2,972	117.0	2,972	129.3	3,283	
Performance	23	Travel speed – loaded / empty		mph	km/h	10.6 / 10.6	17 / 17	10.6 / 10.6	17 / 17	10.6 / 10.6	17 / 17	23	mph	km/h	10.6 / 10.6	17 / 17	10.6 / 10.6	17 / 17	10.6 / 10.6	17 / 17
	24	HP travel speed – loaded / empty		mph	km/h	12.4 / 12.4	20 / 20	12.4 / 12.4	20 / 20	12.4 / 12.4	20 / 20	24	mph	km/h	12.4 / 12.4	20 / 20	12.4 / 12.4	20 / 20	10.6 / 11.2	17 / 18
	25	Lift speed – loaded / empty		fpm	m/s	78.7 / 88.6	0.40 / 0.45	78.7 / 88.6	0.40 / 0.45	74.8 / 88.6	0.38 / 0.45	25	fpm	m/s	74.8 / 88.6	0.38 / 0.45	72.8 / 88.6	0.37 / 0.45	72.8 / 88.6	0.37 / 0.45
	26	HP lift speed – loaded / empty		fpm	m/s	78.7 / 100.4	0.40 / 0.51	78.7 / 100.4	0.40 / 0.51	86.6 / 92.5	0.44 / 0.47	26	fpm	m/s	86.6 / 92.5	0.44 / 0.47	86.6 / 98.4	0.44 / 0.50	86.6 / 98.4	0.44 / 0.50
	27	Lowering speed – loaded / empty		fpm	m/s	108.3 / 98.4	0.55 / 0.50	108.3 / 98.4	0.55 / 0.50	108.3 / 98.4	0.55 / 0.50	27	fpm	m/s	108.3 / 98.4	0.55 / 0.50	94.5 / 96.5	0.48 / 0.49	94.5 / 96.5	0.48 / 0.49
	28	HP lowering speed – loaded / empty		fpm	m/s	108.3 / 98.4	0.55 / 0.50	108.3 / 98.4	0.55 / 0.50	108.3 / 98.4	0.55 / 0.50	28	fpm	m/s	108.3 / 98.4	0.55 / 0.50	96.5 / 98.4	0.49 / 0.50	96.5 / 98.4	0.49 / 0.50
	29	"Drawbar pull (max.) – 60 min. rating loaded / empty"		lb-f	N	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	29	lb-f	N	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500
	30	"HP Drawbar pull (max.) – 60 min. rating loaded / empty"		lb-f	N	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	30	lb-f	N	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500	1,461 / 1,461	6,500 / 6,500
	31	"Drawbar pull (max.) –5 min. rating loaded / empty"		lb-f	N	4,092 / 4,092	18,200 / 18,200	4,092 / 4,092	18,200 / 18,200	4,092 / 4,092	18,200 / 18,200	31	lb-f	N	4,092 / 4,092	18,200 / 18,200	4,092 / 4,092	18,200 / 18,200	4,092 / 4,092	18,200 / 18,200
	32	"HP Drawbar pull (max.) –5 min. rating loaded / empty"		lb-f	N	4,946 / 4,946	22,000 / 22,000	4,946 / 4,946	22,000 / 22,000	4,946 / 4,946	22,000 / 22,000	32	lb-f	N	4,946 / 4,946	22,000 / 22,000	4,946 / 4,946	22,000 / 22,000	4,946 / 4,946	22,000 / 22,000
		Gradeability – maximum – loaded / empty		%		17.0 / 27.4		17.2 / 27.9		15.6 / 25.6			%		15.7 / 25.8		14.6 / 24.5		14.0 / 22.8	
	HP Gradeability – maximum – loaded / empty		%		18.5 / 31.5		18.5 / 31.5		17.9 / 29.6			%		18.0 / 29.8		16.7 / 28.2		16.0 / 26.0		
Weight	33	Empty with battery		lb	kg	15,280	6,931	15,110	6,854	16,105	7,305	33	lb	kg	16,072	7,290	16,976	7,700	18,184	8,248
	34	Axle load with rated load – front		lb	kg	21,797	9,887	21,722	9,853	23,570	10,691	34	lb	kg	23,490	10,655	25,327	11,488	26,193	11,881
	35	Axle load with rated load – rear		lb	kg	2,302	1,044	2,205	1,000	2,458	1,115	35	lb	kg	2,502	1,135	2,672	1,212	3,014	1,367
		Axle load without load – front		lb	kg	8,076	3,663	8,353	3,789	8,131	3,688		lb	kg	8,450	3,833	8,616	3,908	9,092	4,124
		Axle load without load – rear		lb	kg	7,205	3,268	6,755	3,064	7,974	3,617		lb	kg	7,621	3,457	8,360	3,792	9,092	4,124
Chassis	36	Tire size – front, standard solid pneumatic tires		in		355/45-15 (28x12,5-15)		355/45-15 (28x12,5-15)		355/45-15 (28x12,5-15)		36	in		355/45-15 (28x12,5-15)		355/45-15 (28x12,5-15)		355/45-15 (28x12,5-15)	
	37	Tire size – rear solid pneumatic tires		in		200/75-9 (21x8-9)		200/75-9 (21x8-9)		200/75-9 (21x8-9)		37	in		200/75-9 (21x8-9)		200/75-9 (21x8-9)		250/60-12 (23x10-12)	
	38	Wheelbase		in	mm	73.1	1,856	78.7	2,000	73.1	1,856	38	in	mm	78.7	2,000	78.7	2,000	81.9	2,080
	39	Tread width – front, std. solid pneumatic tires		in	mm	45.5	1,155	45.5	1,155	45.5	1,155	39	in	mm	45.5	1,155	45.5	1,155	45.5	1,155
	40	Tread width – rear solid pneumatic tires		in	mm	37.4	950	37.4	950	37.4	950	40	in	mm	37.4	950	37.4	950	47.2	1,200
	41	Ground clearance – at lowest point at mast		in	mm	6.2	158	6.2	158	6.1	156	41	in	mm	6.2	157	6.1	155	6.1	156
	42	Ground clearance – at center of wheelbase		in	mm	6	141	6	141	6	140	42	in	mm	6	140	6	140	5	137
		Service brakes		type		wet disc mechanical		wet disc mechanical		wet disc mechanical			type		wet disc mechanical		wet disc mechanical		wet disc mechanical	
43	Parking brakes		type		electric		electric		electric		43	type		electric		electric		electric		
Powertrain	44	Battery – dimensions (length x width x height)		in		33.66 x 40.47 x 30.87		39.33 x 40.47 x 30.87		33.66 x 40.47 x 30.87		44	in		39.33 x 40.47 x 30.87		39.33 x 40.47 x 30.87		39.33 x 40.47 x 30.87	
	45	Battery – nominal capacity at 6 hr. discharge rate		Ah	kWh	775	62.0	930	74.4	775	62.0	45	Ah	kWh	930	74.4	930	74.4	930	74.4
	46	Battery – weight, minimum / maximum		lb	kg	3,902 / 4,436	1,770 / 2,012	4,562 / 5,186	2,069 / 2,352	3,902 / 4,436	1,770 / 2,012	46	lb	kg	4,562 / 5,186	2,069 / 2,352	4,562 / 5,186	2,069 / 2,352	4,562 / 5,186	2,069 / 2,352
	47	Motors – traction (x2) output (60 min. rating) / HP		HP	kW	13.8 / 20.4	10.3 / 16.0	13.8 / 20.4	10.3 / 16.0	13.8 / 20.4	10.3 / 16.0	47	HP	kW	13.8 / 20.4	10.3 / 16.0	13.8 / 20.4	10.3 / 16.0	13.8 / 20.4	10.3 / 16.0
	48	Motors – lift output (15% rating) / HP		HP	kW	35.5 / 37.5	26.5 / 28.0	35.5 / 37.5	26.5 / 28.0	35.5 / 37.5	26.5 / 28.0	48	HP	kW	35.5 / 37.5	26.5 / 28.0	35.5 / 37.5	26.5 / 28.0	35.5 / 37.5	26.5 / 28.0
	49	Drive controls		type		impulse / AC		impulse / AC		impulse / AC		49	type		impulse / AC		impulse / AC		impulse / AC	
	50	Hydraulic controls		type		AC		AC		AC		50	type		AC		AC		AC	
	51	Flow rate for attachments		gpm	lpm	11.9	45	11.9	45	11.9	45	51	gpm	lpm	11.9	45	11.9	45	11.9	45
	52	Relief pressure – for attachments at auxiliary		psi	bar	3,481	240	3,481	240	3,481	240	52	psi	bar	3,481	240	3,481	240	3,481	240
	53	Noise level – mean value at operator's ear		dB(A)		consult factory		consult factory		consult factory		53	dB							

The Jungheinrich Advantage



Efficiency

More power from available energy.

Thanks to our advanced and durable lithium-ion technology, you benefit from maximum performance with minimal energy consumption – delivering best-in-class travel and lifting speeds as well as maximum productivity in your operations.

Enhanced Energy Efficiency

- Impressive throughput efficiency.
- Energy recovery through regenerative braking.
- Highly efficient synchronous reluctance lift motor with permanent magnets.
- Powerful travel and lifting speeds.
- efficiencyPLUS performance package for energy-efficient truck operation.
- drive&liftPLUS performance package with enhanced travel and lift speeds.
- Available with lithium-ion or leadacid technology.
- 33% increase in oil flow volume for large attachments.

Advanced Lithium-Ion Technology

- High availability thanks to short charging times.
- Maintenance-free operation and up to three times longer service life compared to lead-acid batteries.
- Ideal for multi-shift operations with excellent intermediate and fast-charging capabilities.
- Enables 10–20% lower CO₂ emissions across the entire lifecycle.
- Up to 20% lower charging energy consumption compared to lead-acid batteries, thanks to higher overall system efficiency.



Control

Comprehensive protection for people and machines.

In addition to our proven and trusted safety features, our Series 5 counterbalance trucks offer a range of optional assistance systems – for maximum protection in all application scenarios.

Maximum Operational Safety

- Superior visibility thanks to slim B-pillars and an unobstructed panoramic roof design.
- curveCONTROL dynamically adjusts cornering speed based on load weight.
- Automatic parking brake ensures secure stopping on ramps and gradients, preventing rollback.

Optional Assistance Systems and Safety Concepts

- Truck safety check prior to operation via Pre-Op Check.
- accessCONTROL: access control system that enables truck operation only after a defined safety sequence is completed: 1. valid access code, 2. closed seat switch, 3. fastened seat belt.
- driveCONTROL: speed control system that automatically reduces travel speed in corners
- (curveCONTROL) and above a defined lift height.
- liftCONTROL: lift speed control system that, in addition to reducing travel speed above a defined lift height, also reduces mast tilt speed and displays the tilt angle in the main display.
- Assistance systems: zoneCONTROL (stationary and mobile zone monitoring) and addedVIEW (rear view, fork, and person detection camera system).



Individuality

A forklift designed around your needs.

Intuitive controls, user centric design, and an ergonomic workstation make our Series 5 counterbalance trucks indispensable in daily operations.

Individually Customizable Control Concept:

- Select from five configurable driving programs.
- Infinitely adjustable armrest and steering column, independently configurable in two axes.
- Choice of three ergonomic control interfaces.
- Freely configurable assignment of control functions to levers and axes.
- Single or dual pedal operation.

Ergonomic Operator Workplace

- Low, accentuated entry with a flat footwell for easy access.
- Slim steering column providing generous knee and legroom.
- Full-colour TFT display with an intuitive, self-explanatory user interface.
- Compact mast profiles for excellent all-round visibility.
- New glass door concept and narrower B-pillars for improved visibility and openness.
- Driver-oriented storage concept for intuitive workflow and efficient operation.
- Large, adjustable armrest with multiple upholstery options and integrated spacious storage compartment.
- External power supply via optional USB ports in the armrest and/or side storage compartment.
- Reduced vibration levels and lower noise exposure for the operator thanks to optimized cab decoupling.

Parts when you need them

- Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 PM of all Jungheinrich parts in the United States, or they're free, including freight. For customers in Canada and Mexico, the guarantee ensures shipping of parts within 24 hours from the time the order was placed by the dealer. See your local Jungheinrich dealer for program details.

*Forklifts shown in the images may not represent the final configuration of your truck based on market requirements

1-877-JH-FORKS

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 **JUNGHEINRICH®**