

Optimum energy efficiency

Efficiency and drive&liftPLUS  
performance packages

Lateral battery exchange

Ergonomic and easily  
adjustable operating concept

Ergonomic workstation



## EFG 425k/425/430k/430/S30

**Electric four-wheel counterbalanced fork lift trucks (2,500/3,000 kg)**

Our Series 4 electric four-wheel counterbalanced fork lift trucks with capacities up to 3000 kg are ideal for a wide range of indoor and outdoor applications, particularly when using attachments. Moreover, our PureEnergy technology concept allows them to achieve best possible energy and cost efficiency combined with maximum performance.

By using the most advanced 3-phase AC technology in combination with our own manufactured electronic controller as well as an efficient and compact hydraulic unit, we have been able to significantly reduce energy consumption – while simultaneously increasing throughput. Measurements as per the VDI cycle document: At maximum throughput, our EFG Series 4 consumes up to 10 % less energy than comparable competitor models.

A choice of configuration packages with variable travel/lift speeds from the Efficiency and drive&liftPLUS modules solves your transport and stacking operations with maximum energy efficiency.

The infinitely adjustable steering column and armrest allow for adjustment to suit all operator sizes. Individual modification of the controls is very easy thanks to the single-point adaptation via 2 adjustable axes.

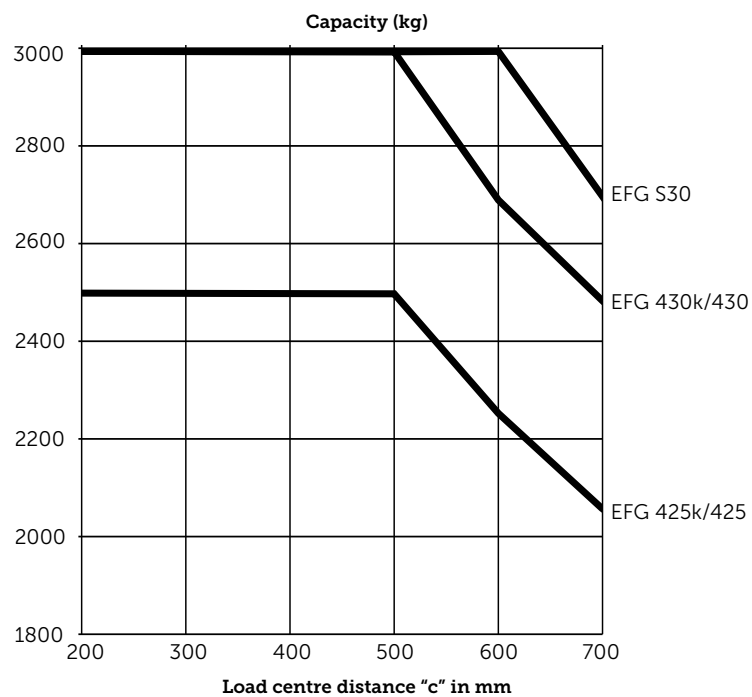
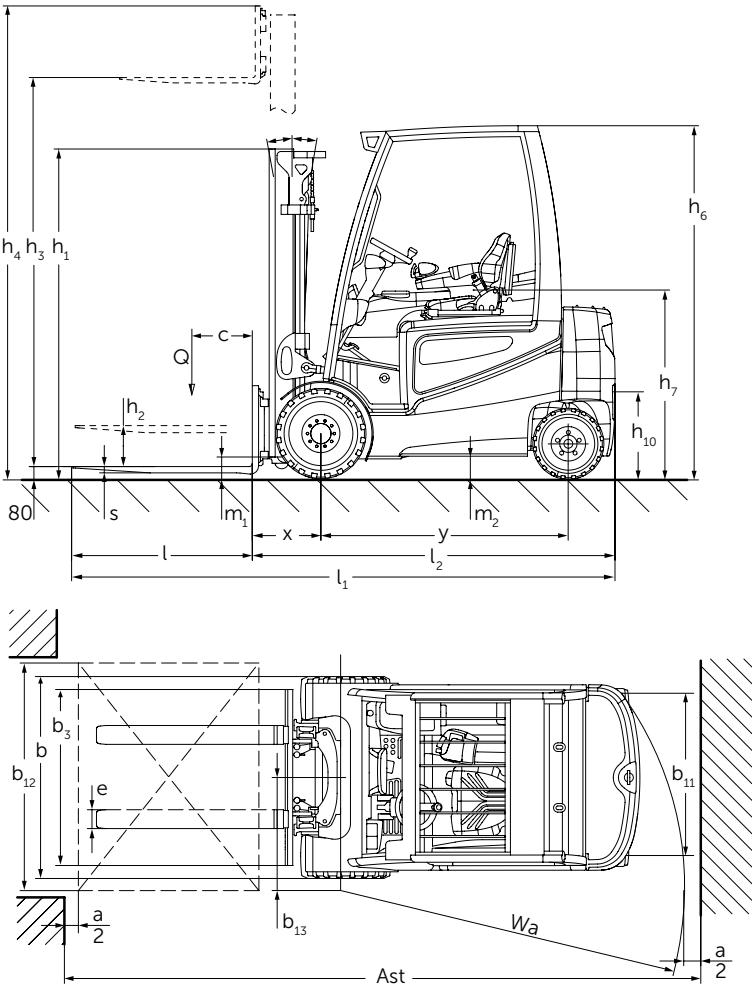
Our EFG Series 4 offers the best visibility in the market thanks to an expanded field of vision. We achieve this thanks to our compact mast, compact profile nesting, an optimised chain and hose guide as well as 2 viewing windows in the cross member.

The truck contour is closed on the operator's right side. This guarantees maximum rigidity and stability for the overall design and creates a number of storage options, e.g. for papers and a smartphone.

Proven concepts for demanding yet energy and cost-saving applications, make the Series 4 EFG trucks universally suitable for indoor and outdoor operation.

**JUNGHEINRICH**

# EFG 425k/425/430k/430/S30



# EFG 425k/425/430k/430/S30

Standard mast designs EFG 425k/425/430k/430/S30								
	Lift $h_3$  (mm)	Lowered mast height $h_1$  (mm)		Free lift $h_2$  (mm)		Extended mast height $h_4$  (mm)		Mast tilt forward/back $\alpha/\beta$ (°)
		EFG 425k / 425	EFG 430k / 430 / S30	EFG 425k / 425	EFG 430k / 430 / S30	EFG 425k / 425	EFG 430k / 430 / S30	
Duplex ZT	2900	2125	2122	150	150	3502	3659	6/8
	3100	2225	2222	150	150	3702	3859	6/8
	3300	2325	2322	150	150	3902	4059	6/8
	3500	2425	2422	150	150	4102	4259	6/8
	3700	2525	2522	150	150	4302	4459	6/8
	4000	2675	2672	150	150	4602	4759	6/8
	4300	2875	2872	150	150	4902	5059	6/8
	4500	2975	2972	150	150	5102	5259	6/8
Duplex ZZ	3100	2190	2187	1609	1448	3680	3839	6/8
	3300	2290	2287	1709	1548	3880	4039	6/8
	3500	2390	2387	1809	1648	4080	4239	6/8
	3700	2490	2487	1909	1748	4280	4439	6/8
	4000	2640	2637	2059	1898	4580	4739	6/8
Triplex DZ	4400	2090	2087	1509	1348	4980	5139	6/8
	4700	2190	2187	1609	1448	5280	5439	6/5.5
	5000	2290	2287	1709	1548	5580	5739	6/5.5
	5500	2490	2487	1909	1748	6080	6239	6/5.5
	6000	2690	2687	2109	1948	6580	6739	6/5.5
	6500	2890	2887	2309	2148	7080	7239	6/3
	7000	3090	3087	2509	2348	7580	7739	6/3
	7500	3290	3287	2709	2548	8080	8239	6/3

# Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich		
	1.2	Model		EFG 425k	EFG 425	EFG 430k
	1.3	Drive		Electric		
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		seat		
	1.5	Load capacity/rated load	Q t	2.5	2.5	3
	1.6	Load centre distance	c mm	500		
	1.8	Load distance	x mm	425	425 <sup>1)</sup>	447
	1.9	Wheelbase	y mm	1,575	1,720	1,575
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	4,770	4,680	5,260
	2.2	Axle loading, laden front/rear	kg	6,440 / 830	6,590 / 590	7,360 / 910
	2.3	Axle loading, unladen front/rear	kg	2,450 / 2,320	2,720 / 1,960	2,530 / 2,730
Wheels / frame	3.1	Tyres		SE		
	3.2	Tyre size, front	mm	225 / 75-10	225 / 75-10	250 / 60-12
	3.3	Tyre size, rear	mm	180 / 70-8	180 / 70-8	200 / 50-10
	3.5	Wheels, number front/rear (x = driven wheels)		2X / 2		
	3.6	Tread width, front	b <sub>10</sub> mm	990	990	950
	3.7	Tread width, rear	b <sub>11</sub> mm	940		
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$ °	6/8		
	4.2	Mast height (lowered)	h <sub>1</sub> mm	2,225	2,225	2,222
	4.3	Free lift	h <sub>2</sub> mm	150		
	4.4	Lift	h <sub>3</sub> mm	3,100		
	4.5	Extended mast height	h <sub>4</sub> mm	3,702	3,702	3,859
	4.7	Height of overhead guard	h <sub>6</sub> mm	2,240		
	4.8	Seat height/standing height	h <sub>7</sub> mm	1,190		
	4.12	Coupling height	h <sub>10</sub> mm	385		
	4.12.1	2. Coupling height	mm	540		
	4.19.4	Total length including fork length	l <sub>1</sub> mm	3,446	3,591	3,467
	4.20	Length to face of forks	l <sub>2</sub> mm	2,296	2,441	2,317
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> mm	1,198		
	4.22	Fork dimensions	s/e/l mm	40 / 120 / 1,150	40 / 120 / 1,150	45 / 125 / 1,150
	4.23	Fork carriage ISO 2328, class/type A, B		2A	2A	3A
	4.24	Fork carriage width	b <sub>3</sub> mm	1,120		
	4.31	Floor clearance with load under mast	m <sub>1</sub> mm	117		
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> mm	135		
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast mm	3,625	3,775	3,647
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	3,825	3,975	3,847
	4.35	Turning radius	W <sub>a</sub> mm	2,000	2,150	2,000
	4.36	Smallest turning radius	b <sub>13</sub> mm	600		
Performance data	5.1	Travel speed, laden/unladen	km/h	19 / 20 <sup>3)</sup>		
	5.2	Lift speed, laden/unladen	m/s	0.48 / 0.6 <sup>3)</sup>	0.48 / 0.6 <sup>3)</sup>	0.43 / 0.6 <sup>3)</sup>
	5.3	Lowering speed, laden/unladen	m/s	0.58 / 0.58 <sup>3)</sup>		
	5.5	Drawbar pull, laden/unladen	N	5,100 / 5,600 <sup>3)</sup>	4,900 / 5,500 <sup>3)</sup>	5,000 / 5,800 <sup>3)</sup>
	5.6	Max. drawbar pull, laden/unladen	N	16,000 / 16,300 <sup>3)</sup>	16,000 / 16,300 <sup>3)</sup>	15,700 / 16,000 <sup>3)</sup>
	5.7	Gradeability, laden/unladen	%	10 / 16 <sup>3)</sup>	10 / 16 <sup>3)</sup>	9 / 15 <sup>3)</sup>
	5.8	Max. gradeability, laden/unladen	%	19 / 27 <sup>3)</sup>	19 / 27 <sup>3)</sup>	17 / 25 <sup>3)</sup>
	5.9.1	Acceleration time, laden/unladen (to 10 m)	S	4.5 / 4 <sup>3)</sup>		
	5.10	Service brake		mechanical		
Electrics	6.1	Drive motor, output S2 60 min.	kW	15.0 <sup>3)</sup>		
	6.2	Lift motor, output at S3 15%	kW	22.0 <sup>3)</sup>		
	6.3	Battery as per DIN 43531/35/36 A, B, C, no		A 43536		
	6.4	Battery voltage/nominal capacity K5	V/Ah	80 / 620	80 / 775	80 / 620
	6.5	Battery weight	kg	1,540	1,863	1,540
		Battery dimensions L/W/H	mm	1,028 / 711 / 784	1,028 / 855 / 784	1,028 / 711 / 784
	6.6	Energy consumption as per EN 16796	kWh/h	6 <sup>2)3)</sup>	6 <sup>2)3)</sup>	6.9 <sup>2)3)</sup>
		CO <sub>2</sub> - Equivalent as per EN 16796	kg/h	3.2	3.2	3.7
	6.7	Throughput	t/h	196 <sup>3)</sup>	196 <sup>3)</sup>	225 <sup>3)</sup>
	6.8	Energy consumption at max. throughput	kWh/h	7 <sup>4)</sup>	7 <sup>4)</sup>	7.2 <sup>4)</sup>
Misc.	8.1	Type of drive control		Impuls/AC		
	8.2	Working pressure for attachments	bar	200		
	8.3	Oil flow for attachments	l/min	25		
	8.4	Sound pressure level at operator's ear as per EN 12053	dB (A)	70		
	8.5	Trailer coupling, model/type DIN		DIN 15170-H		

<sup>1)</sup> +10 mm with DZ mast

<sup>2)</sup> 60 VDI work cycles/h

<sup>3)</sup> With drive&liftPLUS options package

<sup>4)</sup> With Efficiency options package

# Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich	
	1.2	Model		EFG 430	EFG S30
	1.3	Drive		Electric	
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		seat	
	1.5	Load capacity/rated load	Q t	3	
	1.6	Load centre distance	c mm	500	600
	1.8	Load distance	x mm	447	452
	1.9	Wheelbase	y mm	1,720	
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	5,080	5,330
	2.2	Axle loading, laden front/rear	kg	7,450 / 630	7,620 / 710
	2.3	Axle loading, unladen front/rear	kg	2,770 / 2,310	2,780 / 2,550
Wheels / frame	3.1	Tyres		SE	
	3.2	Tyre size, front	mm	250 / 60-12	315 / 45-12
	3.3	Tyre size, rear	mm	180 / 70-8	200 / 50-10
	3.5	Wheels, number front/rear (x = driven wheels)		2X / 2	
	3.6	Tread width, front	b <sub>10</sub> mm	950	1,000
	3.7	Tread width, rear	b <sub>11</sub> mm	940	
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$ °	6/8	
	4.2	Mast height (lowered)	h <sub>1</sub> mm	2,222	
	4.3	Free lift	h <sub>2</sub> mm	150	
	4.4	Lift	h <sub>3</sub> mm	3,100	
	4.5	Extended mast height	h <sub>4</sub> mm	3,859	
	4.7	Height of overhead guard	h <sub>6</sub> mm	2,240	
	4.8	Seat height/standing height	h <sub>7</sub> mm	1,190	
	4.12	Coupling height	h <sub>10</sub> mm	385	
	4.12.1	2. Coupling height	mm	540	
	4.19.4	Total length including fork length	l <sub>1</sub> mm	3,612	3,617
	4.20	Length to face of forks	l <sub>2</sub> mm	2,462	2,467
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> mm	1,198	1,300
	4.22	Fork dimensions	s/e/l mm	45 / 125 / 1,150	50 / 125 / 1,150
	4.23	Fork carriage ISO 2328, class/type A, B		3A	
	4.24	Fork carriage width	b <sub>3</sub> mm	1,120	
	4.31	Floor clearance with load under mast	m <sub>1</sub> mm	117	
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> mm	135	
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast mm	3,797	3,802
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	3,997	4,002
	4.35	Turning radius	W <sub>a</sub> mm	2,150	
	4.36	Smallest turning radius	b <sub>13</sub> mm	600	650
Performance data	5.1	Travel speed, laden/unladen	km/h	19 / 20 <sup>2)</sup>	
	5.2	Lift speed, laden/unladen	m/s	0.43 / 0.6 <sup>2)</sup>	
	5.3	Lowering speed, laden/unladen	m/s	0.58 / 0.58 <sup>2)</sup>	
	5.5	Drawbar pull, laden/unladen	N	5,000 / 5,800 <sup>2)</sup>	
	5.6	Max. drawbar pull, laden/unladen	N	15,700 / 16,000 <sup>2)</sup>	
	5.7	Gradeability, laden/unladen	%	9 / 15 <sup>2)</sup>	8 / 14 <sup>2)</sup>
	5.8	Max. gradeability, laden/unladen	%	18 / 26 <sup>2)</sup>	17 / 25 <sup>2)</sup>
	5.9.1	Acceleration time, laden/unladen (to 10 m)	S	4.5 / 4 <sup>2)</sup>	
	5.10	Service brake		mechanical	
Electrics	6.1	Drive motor, output S2 60 min.	kW	15.0 <sup>2)</sup>	
	6.2	Lift motor, output at S3 15%	kW	22.0 <sup>2)</sup>	
	6.3	Battery as per DIN 43531/35/36 A, B, C, no		A 43536	
	6.4	Battery voltage/nominal capacity K5	V/Ah	80 / 775	
	6.5	Battery weight	kg	1,863	
		Battery dimensions L/W/H	mm	1,028 / 855 / 784	
	6.6	Energy consumption as per EN 16796	kWh/h	6.9 <sup>1)2)</sup>	7.8 <sup>1)2)</sup>
		CO <sub>2</sub> - Equivalent as per EN 16796	kg/h	3.7	4.2
	6.7	Throughput	t/h	225 <sup>2)</sup>	220 <sup>2)</sup>
	6.8	Energy consumption at max. throughput	kWh/h	7.2 <sup>3)</sup>	8.1 <sup>3)</sup>
Misc.	8.1	Type of drive control		Impuls/AC	
	8.2	Working pressure for attachments	bar	200	
	8.3	Oil flow for attachments	l/min	25	
	8.4	Sound pressure level at operator's ear as per EN 12053	dB (A)	70	
	8.5	Trailer coupling, model/type DIN		DIN 15170-H	

<sup>1)</sup> 60 VDI work cycles/h

<sup>2)</sup> With drive&liftPLUS options package

<sup>3)</sup> With Efficiency options package

In accordance with VDI Guideline 2198 this data sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.



## EFG 425k/425/430k/430/S30



# Benefit from the advantages



Lateral battery exchange



duoPILOT



soloPILOT



multiPILOT

## PureEnergy

Our PureEnergy technology concept enables you to achieve optimum energy efficiency coupled with maximum throughput:

- Advanced 3-phase AC technology.
- Compact controller.
- Compact hydraulic unit.
- Needs-oriented control of the hydraulics/motors.

## Options packages

The right truck for every customer application thanks to individually selectable packages:

- Efficiency package with curveCONTROL.
- drive&liftPLUS package with greater travel/lift speeds.

## Parameter steering

Electric steering with dynamic response depending on the travel program selected:

- Minimises unnecessary steering changes.
- Slim steering column creates more legroom.
- Improved energy efficiency.
- Optimised throughput.

## Lateral battery exchange

- Universal battery exchange system for all 48 V and 80 V trucks.
- Simple, rapid and reliable exchange system.

## Ergonomic and easily adjustable operating concept

- Selection from 5 freely adjustable travel programs.
- Stepless single-point adjustment of the armrest and steering column in 2 axes.
- A choice of 3 different controls.
- Adjustable lever and controls angle.
- Single or double pedal operation.

## Ergonomic workstation

The ergonomics of the operator's workstation guarantee relaxed, fatigue-free work:

- Low, highlighted entry step with level foot-well.
- Slim steering column for maximum knee and legroom.
- High-resolution, contrast-rich, full-colour TFT display with intuitive user interface.
- Compact nested profile package with excellent visibility.
- Unobstructed view thanks to special overhead guard design, optimised chain and hose configuration.
- Operator-oriented storage concept for intuitive operation.
- Large, adjustable armrest with different upholstery fabrics and spacious storage compartment.
- External power supply via optional USB port.
- Low vibrations as the cab floats on special mountings.

## Safety

Comprehensive safety equipment for high drive dynamics and performance:

- Reduction of travel speed when cornering due to curveCONTROL.
- No uncontrolled roll-back on ramps or inclines due to automatic wheel stop (optional).
- Excellent stability due to extremely low centre of gravity and high pivot steer axle.

Additional safety for the operator, truck and load due to a range of optional operator assistance systems:

- accessCONTROL: Access control system which only unlocks the truck once a sequence of safety checks has been completed:
  1. Valid access code.
  2. Closed seat switch.
  3. Seatbelt is secured.
- driveCONTROL: Speed control, which automatically reduces the speed both when cornering and from a defined lift height.
- liftCONTROL: Lift speed control, which reduces the travel speed as well as the tilt speed of the mast beginning at a defined lift height. The tilt angle is shown on a separate display.

## Lithium-ion technology

- High degree of availability thanks to extremely short charging times.
- No battery exchange required.
- Cost savings due to longer service life and low maintenance compared with lead-acid batteries.
- No charging rooms and ventilation required as there is no build up of gas.
- Longer service life with 5-year Jungheinrich guarantee.

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The German production  
facilities in Norderstedt,  
Moosburg and Landsberg  
are certified. **ISO 9001**  
**ISO 14001**

Jungheinrich fork lift  
trucks meet European  
safety requirements.



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