High performance trucks with low energy consumption

Tailored performance based on application with efficiency and Drive&Lift Plus models

Parameter steering (optional)

Safe sideways battery removal with SnapFit

Ergonomic and easily adjustable operators environment

Driver assistance systems to suit any application

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

Electric four-wheel counterbalance trucks (2,500/3,000 kg)

Our Pure Energy technology concept enables us to achieve the best possible energy efficiency coupled 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. This is verified by tests as per the VDI cycle: At full throughput, our new Series 4 EFG consumes up to 10% less energy than a comparable competitor model.

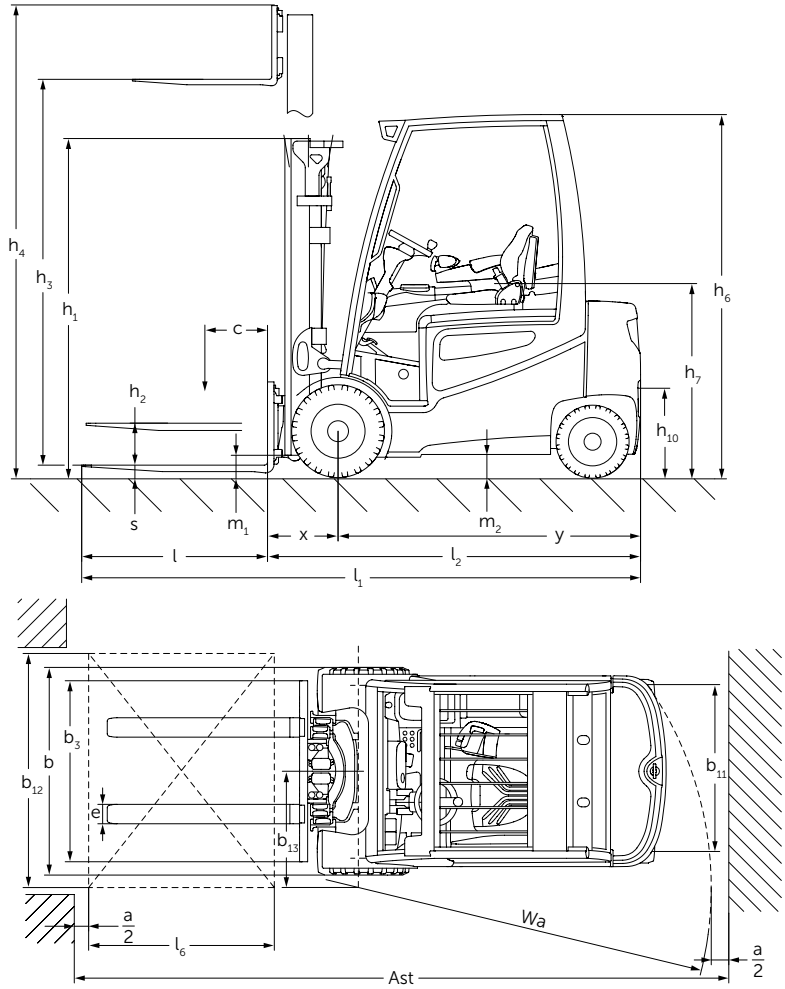
A choice of configuration packages with variable travel/lift speeds from the Efficiency and Drive&Lift Plus modules will complete your transport and stacking operations with maximum energy efficiency.

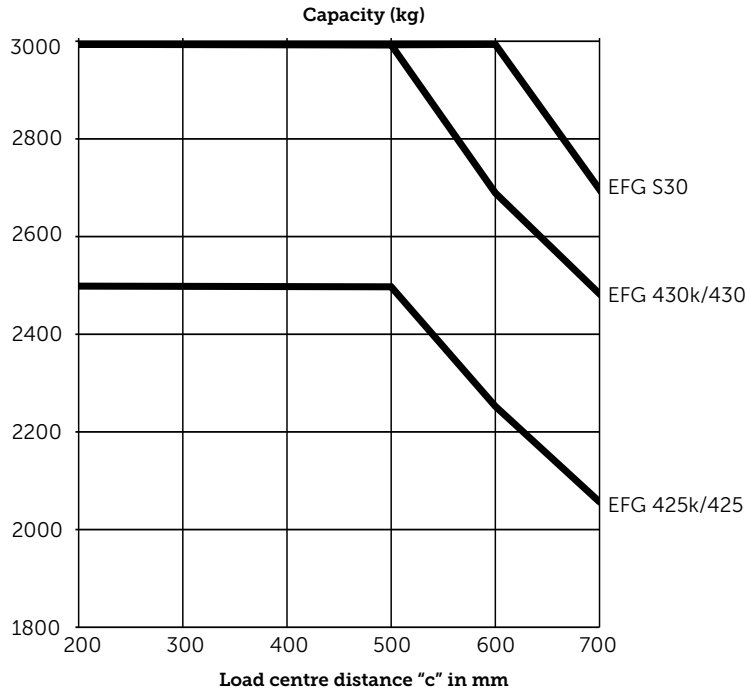
The infinitely adjustable steering column and armrest allow for adjustment to suit all operator sizes. The individual adjustment of the controls is very easy to carry out thanks to the single-point adjustment via two adjustable axes.

The truck chassis is closed on the right side of the operator. This guarantees maximum rigidity and stability for the overall design. It also forms the basis for a number of storage options: From two sizes of cup holder via a clipboard to different sizes of compartments for e.g. papers and a smartphone. There is therefore room for everything that operators need to work efficiently throughout their shifts.

JUNGHEINRICH
Machines. Ideas. Solutions.

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





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

Standard mast types 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 α/β (°)
		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 (short form)			Jungheinrich		
	1.2	Model			**EFG 425k**	**EFG 425**	**EFG 430k**
	1.3	Drive			Electrics		
	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[1)]	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 load, w. load front / rear		kg	6,440 / 830	6,590 / 590	7,360 / 910
	2.3	Axle load w.o. load front / rear		kg	2,450 / 2,320	2,720 / 1,960	2,530 / 2,730
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/8		
	4.2	Mast height (lowered)	h_1	mm	2,225	2,225	2,222
	4.3	Free lift	h_2	mm	150		
	4.4	Lift	h_3	mm	3,100		
	4.5	Extended mast height	h_4	mm	3,702	3,702	3,859
	4.7	Height of overhead guard	h_6	mm	2,240		
	4.8	Seat height/stand height	h_7	mm	1,190		
	4.12	Coupling height	h_{10}	mm	385		
	4.12.1	2nd coupling height		mm	540		
	4.19.4	Total length including fork length	l_1	mm	3,446	3,591	3,467
	4.20	Length incl. back of forks	l_2	mm	2,296	2,441	2,317
	4.21	Total width	b_1/b_2	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_3	mm	1,120		
	4.31	Floor clearance with load under mast	m_1	mm	117		
	4.32	Floor clearance centre wheelbase	m_2	mm	135		
	4.33	Aisle width for pallets 1000 x 1200 sideways	Ast	mm	3,626	3,776	3,647
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	3,826	3,976	3,847
	4.35	Turning radius	W_a	mm	2,000	2,150	2,000
	4.36	Smallest pivot point distance	b_{13}	mm	600		
Performance data	5.1	Travel speed laden/unladen - Efficiency		km/h	16 / 17		
		Travel speed laden/unladen - Drive&Lift Plus		km/h	19 / 20		
	5.2	Lift speed, laden/unladen - Efficiency		m/s	0.43 / 0.55	0.43 / 0.55	0.4 / 0.55
		Lift speed, laden/unladen - Drive&Lift Plus		m/s	0.48 / 0.6	0.48 / 0.6	0.43 / 0.6
	5.3	Lowering speed laden/unladen - Efficiency		m/s	0.58 / 0.58		
		Lowering speed laden/unladen - Drive&Lift Plus		m/s	0.58 / 0.58		
	5.5	Drawbar pull laden/unladen - Efficiency		N	3,600 / 4,000	3,500 / 3,900	4,500 / 5,000
		Drawbar pull laden/unladen - Drive&Lift Plus		N	5,100 / 5,600	4,900 / 5,500	5,000 / 5,800
	5.6	Max. drawbar pull laden/unladen - Efficiency		N	12,500 / 13,000	12,500 / 13,000	14,000 / 14,500
		Max. drawbar pull laden/unladen - Drive&Lift Plus		N	16,000 / 16,300	16,000 / 16,300	15,700 / 16,000
	5.7	Gradeability laden/unladen - Efficiency		%	8.5 / 14	7.5 / 13	7 / 12
		Gradeability laden/unladen - Drive&Lift Plus		%	10 / 16	10 / 16	9 / 15
	5.8	Max. gradeability laden/unladen - Efficiency		%	17 / 25	17 / 25	15 / 23
		Max. gradeability laden/unladen - Drive&Lift Plus		%	19 / 27	19 / 27	17 / 25
	5.9.1	Acceleration time laden/unladen (over 10 m) – Efficiency		S	5 / 4.5		
		Acceleration time laden/unladen (over 10 m) – Drive&Lift Plus		S	4.5 / 4		
	5.10	Service brake			mechanical		
Electrics	6.1	Drive motor, rating S2 60 min. – Efficiency/Drive&Lift Plus		kW	12 / 15		
	6.2	Lift motor, rating at S3 15% – Efficiency/Drive & Lift Plus		kW	18.5 / 22		
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no			A 43536		
	6.4	Battery voltage/nominal capacity K5		V/Ah	560 - 620 80	700 - 775 80	560 - 620 80
	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 according to VDI cycle Efficiency/Drive&Lift Plus		kWh/h	6.4 / 6.4[2)]	6.4 / 6.4[2)]	8 / 8[2)]
	6.7	Efficiency/Drive&Lift Plus throughput		t/h	186 / 196	186 / 196	211 / 225
	6.8	Energy consumption at max. Efficiency/Drive&Lift Plus throughput		kWh/h	7 / 7.9	7 / 7.9	7.2 / 8.6
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 according to EN 12053		dB (A)	70		
	8.5	Trailer coupling, model/type DIN			DIN 15170-H		

[1)] + 10 mm for DZ mast
[2)] 60 VDI work cycles/h

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

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (short form)			Jungheinrich		
	1.2	Model			**EFG 430**		**EFG S30**
	1.3	Drive			Electrics		
	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 load, w. load front / rear		kg	7,450 / 630		7,620 / 710
	2.3	Axle load w.o. load front / rear		kg	2,770 / 2,310		2,780 / 2,550
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/8		
	4.2	Mast height (lowered)	h_1	mm	2,222		
	4.3	Free lift	h_2	mm	150		
	4.4	Lift	h_3	mm	3,100		
	4.5	Extended mast height	h_4	mm	3,859		
	4.7	Height of overhead guard	h_6	mm	2,240		
	4.8	Seat height/stand height	h_7	mm	1,190		
	4.12	Coupling height	h_{10}	mm	385		
	4.12.1	2nd coupling height		mm	540		
	4.19.4	Total length including fork length	l_1	mm	3,612		3,617
	4.20	Length incl. back of forks	l_2	mm	2,462		2,467
	4.21	Total width	b_1/b_2	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_3	mm	1,120		
	4.31	Floor clearance with load under mast	m_1	mm	117		
	4.32	Floor clearance centre wheelbase	m_2	mm	135		
	4.33	Aisle width for pallets 1000 x 1200 sideways	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_a	mm	2,150		
	4.36	Smallest pivot point distance	b_{13}	mm	600		650
Performance data	5.1	Travel speed laden/unladen - Efficiency		km/h	16 / 17		
		Travel speed laden/unladen - Drive&Lift Plus		km/h	19 / 20		
	5.2	Lift speed, laden/unladen - Efficiency		m/s	0.4 / 0.55		
		Lift speed, laden/unladen - Drive&Lift Plus		m/s	0.43 / 0.6		
	5.3	Lowering speed laden/unladen - Efficiency		m/s	0.58 / 0.58		
		Lowering speed laden/unladen - Drive&Lift Plus		m/s	0.58 / 0.58		
	5.5	Drawbar pull laden/unladen - Efficiency		N	4,500 / 5,000		
		Drawbar pull laden/unladen - Drive&Lift Plus		N	5,000 / 5,800		
	5.6	Max. drawbar pull laden/unladen - Efficiency		N	14,000 / 14,500		
		Max. drawbar pull laden/unladen - Drive&Lift Plus		N	15,700 / 16,000		
	5.7	Gradeability laden/unladen - Efficiency		%	7 / 13		7 / 12
		Gradeability laden/unladen - Drive&Lift Plus		%	9 / 15		8 / 14
	5.8	Max. gradeability laden/unladen - Efficiency		%	15 / 23		
		Max. gradeability laden/unladen - Drive&Lift Plus		%	18 / 26		17 / 25
	5.9.1	Acceleration time laden/unladen (over 10 m) – Efficiency		S	5 / 4.5		
		Acceleration time laden/unladen (over 10 m) – Drive&Lift Plus		S	4.5 / 4		
	5.10	Service brake			mechanical		
Electrics	6.1	Drive motor, rating S2 60 min. – Efficiency/Drive&Lift Plus		kW	12 / 15		
	6.2	Lift motor, rating at S3 15% – Efficiency/Drive & Lift Plus		kW	18.5 / 22		
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no			A 43536		
	6.4	Battery voltage/nominal capacity K5		V/Ah	700 - 775 80		
	6.5	Battery weight		kg	1,863		
		Battery dimensions L/W/H		mm	1,028 / 855 / 784		
	6.6	Energy consumption according to VDI cycle Efficiency/Drive&Lift Plus		kWh/h	8 / 8[1)]		8.1 / 8.1[1)]
	6.7	Efficiency/Drive&Lift Plus throughput		t/h	211 / 225		207 / 220
	6.8	Energy consumption at max. Efficiency/Drive&Lift Plus throughput		kWh/h	7.2 / 8.6		8.1 / 9.5
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 according to EN 12053		dB (A)	70		
	8.5	Trailer coupling, model/type DIN			DIN 15170-H		

[1)] 60 VDI work cycles/h

In accordance with VDI Guideline 2198 this specification 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


Sideways battery removal


DUO-PILOT


Ergonomic workstation


Storage facilities

Pure Energy
Our Pure Energy technology concept enables you to achieve the best possible energy efficiency coupled with maximum throughput:
- Most advanced 3-phase AC technology.
- Compact controller.
- Compact hydraulic unit.
- Demands-oriented control of the hydraulics/motors.

Options packages
The right truck for every customer application. The Efficiency and Drive&Lift Plus packages make it possible:
Efficiency package:
- Jungheinrich Curve Control.

Drive&Lift Plus package:
- Performance package with greater travel/lift speeds.

Parameter steering
Electric steering with dynamic response dependent on the travel program selected.
- Minimises unwanted steering changes.
- Slim steering column creates more legroom.
- Further improved energy efficiency.
- Further optimised throughput.

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

Individually adjustable operating concept
- A choice of five parameterised travel programmes.
- Stepless single-point adjustment of the armrest and steering column in two axises.
- A choice of three different operating controls.
- Adjustable lever and controls.
- Single or double pedal operation.

Operator-oriented 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 self-explanatory symbols.
- Unobstructed view thanks to special overhead guard design, optimised chain and hose configuration.
- Operator-oriented storage concept for intuitive working
- Large, adjustable armrest with different upholstery fabrics and spacious storage compartment
- USB port for external power supply
- Low vibrations as the cab floats on special mountings

Safety
High drive dynamics and performance levels also require a high level of safety:
- Reduction in speed when cornering thanks to Jungheinrich Curve Control.
- No uncontrolled roll-back on ramps or inclines due to automatic parking brake (optional).
- Excellent stability due to extremely low centre of gravity and high pivot steer axle.

A range of optional operator assistance systems (optional) provides additional safety for the operator, truck and load:
- Access Control: The access control system releases the truck only after a sequence of safety checks:

1. Valid access code.
2. Closed seat switch.
3. Seatbelt is secured.

- Drive Control: The speed control which automatically reduces the speed of travel when cornering and from a defined lift height.

- Lift Control: The lift speed control which, in addition to reducing travel speed, also automatically reduces the tilt speed of the mast from a defined lift height. The tilt angle is shown on a separate display.

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

Jungheinrich fork lift trucks meet European safety requirements. CE

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