

High performance trucks
with low energy consumption

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

Sideways battery removal
with SnapFit

Ergonomic and easily adjustable
operator's environment

Many storage options

Driver assistance systems to
suit any application (optional)



EFG 425–430

Electric four-wheel counterbalance trucks (2500 and 3000 kg)

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

- Maximum throughput with high acceleration, travel and lift speeds.
- Integrated electronic control and wear-free regenerative braking system with energy recovery.
- Maintenance and wear-free enclosed drive motor.

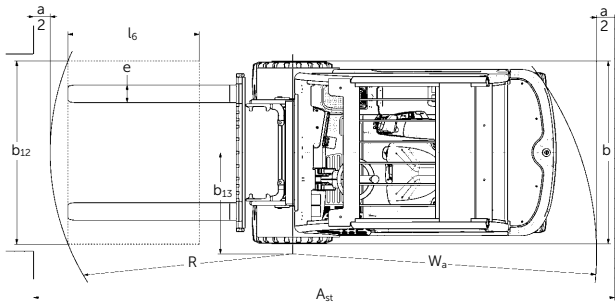
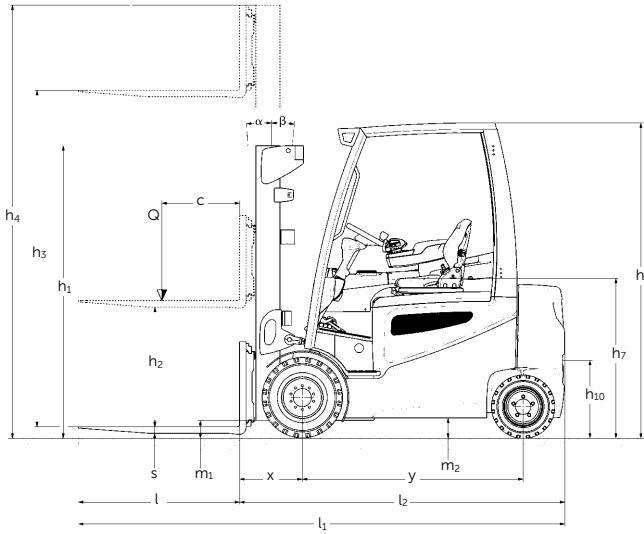
The right configuration for your needs:

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

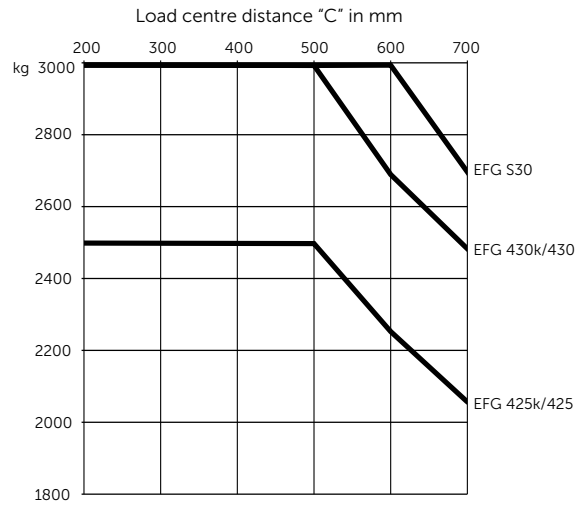
The technical design offers robust, sturdy truck design, ease of servicing and trend-setting technology.

- Sturdy design with steel mud guards, steel covers and protected lighting.
- Enclosed chassis – including under the battery – for increased stability and protection.
- Maintenance-free components (e.g. brakes).
- Improved ease of servicing thanks to modular component design and direct, easy access.

EFG 425-430



Capacity



Designation	Mast table EFG 425-430						Capacity table (kg)			
	Lift height h_5 mm	Free lift h_2 mm		Closed height h_1 (mm)	Extended height h_4 mm		Tilt forward/ backward α/β (°)	without sideshift single tyres		
		EFG 425	EFG 430/S30		EFG 425	EFG 430/S30		EFG 425	EFG 430	EFG S30
Two-stage mast ZT	2900	150	150	2115	3490	3600	6/8	2500	3000	3000
	3100	150	150	2215	3690	3800	6/8	2500	3000	3000
	3300	150	150	2315	3890	4000	6/8	2500	3000	3000
	3500	150	150	2415	4090	4200	6/8	2500	3000	3000
	3700	150	150	2515	4290	4400	6/8	2500	3000	3000
	4000	150	150	2665	4590	4700	6/8	2500	3000	3000
	4300	150	150	2865	4890	5000	6/8	2500	3000	3000
	4500	150	150	2965	5090	5200	6/8	2500	3000	3000
	4700	150	150	3065	5290	5400	6/5.5	2500	3000	3000
	5000	150	150	3215	5590	5700	6/5.5	2500	2900	2900
5500	150	150	3515	6090	6200	6/5.5	2300	2650	2650	
5800	150	150	3665	6390	6500	6/5.5	2150	2500	2500	
Two-stage mast ZZ	2900	1500	1350	2080	3480	3630	6/8	2500	3000	3000
	3100	1600	1450	2180	3680	3830	6/8	2500	3000	3000
	3300	1700	1550	2280	3880	4030	6/8	2500	3000	3000
	3500	1800	1650	2380	4080	4230	6/8	2500	3000	3000
	3700	1900	1750	2480	4280	4430	6/8	2500	3000	3000
	4000	2050	1900	2630	4580	4730	6/8	2500	3000	3000
	4300	2250	2100	2830	4880	5030	6/8	2500	3000	3000
4500	2350	2200	2930	5080	5230	6/8	2500	3000	3000	
Three-stage mast DZ	4400	1500	1350	2080	4980	5130	6/8	2500	3000	3000
	4700	1600	1450	2180	5280	5430	6/5.5	2500	3000	3000
	5000	1700	1550	2280	5580	5730	6/5.5	2500	2900	2900
	5500	1900	1750	2480	6080	6230	6/5.5	2250	2600	2600
	6000	2100	1950	2680	6580	6730	6/5.5	2000	2300	2300
	6500	2300	2150	2880	7080	7230	6/3	1800	2100	2100
	7000	2500	2350	3080	7580	7730	6/3	1600	1900	1900

Technical data in line with VDI 2198

		Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich		
Identification	1.1	Manufacturer (abbreviation)	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich		
	1.2	Manufacturer's type designation	EFG 425k	EFG 425	EFG 430k	EFG 430	EFG S30	
	1.3	Drive	electric	electric	electric	electric	electric	
	1.4	Operator type	seat	seat	seat	seat	seat	
	1.5	Load capacity/rated load	Q (t)	2.5	2.5	3.0	3.0	3.0
	1.6	Load centre distance	c (mm)	500	500	500	500	600
	1.8	Load distance	x (mm)	425	425	430	430	430
	1.9	Wheelbase	y (mm)	1575	1720	1575	1720	1720
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	4810	4770	5290	5220
2.2		Axle loading, laden front/rear	kg	6490/820	6580/690	7380/910	7380/840	7550/920
2.3		Axle loading, unladen front/rear	kg	2500/2310	2710/2060	2550/2730	2700/2520	2710/2760
Wheels, Chassis	3.1	Tyres		Solid	Solid	Solid	Solid	Solid
	3.2	Tyre size, front	mm	225/75-10	225/75-10	250/60-12	250/60-12	315/45-12
	3.3	Tyre size, rear	mm	180/70-8	180/70-8	200/50-10	180/70-8	200/50-10
	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Track width, front	b ₁₀ (mm)	990	990	950	950	1000
	3.7	Track width, rear	b ₁₁ (mm)	940	940	940	940	940
Basic Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/8	6/8	6/8	6/8	6/8
	4.2	Closed mast height	h ₁ (mm)	2215	2215	2215	2215	2215
	4.3	Free lift	h ₂ (mm)	150	150	150	150	150
	4.4	Lift (standard mast)	h ₃ (mm)	3100	3100	3100	3100	3100
	4.5	Height, mast extended	h ₄ (mm)	3690	3690	3800	3800	3800
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2240	2240	2240	2240	2240
	4.8	Seat height/stand height	h ₇ (mm)	1190	1190	1190	1190	1190
	4.12	Coupling height	h ₁₀ (mm)	385/540	385/540	385/540	385/540	385/540
	4.19	Overall length	l ₁ (mm)	3445	3590	3450	3595	3600
	4.20	Length to face of forks ¹⁾	l ₂ (mm)	2295	2440	2300	2445	2450
	4.21	Overall width	b ₁ /b ₂ (mm)	1198/-	1198/-	1198/-	1198/-	1300/-
	4.22	Fork dimensions	s/e/l (mm)	40/120/1150	40/120/1150	45/125/1150	45/125/1150	50/125/1150
	4.23	Fork carriage ISO 2328, class/type A, B		ISO 2A	ISO 2A	ISO 3A	ISO 3A	ISO 3A
	4.24	Fork-carriage width	b ₃ (mm)	1120	1120	1120	1120	1120
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	120	120	120	120	120
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	135	135	135	135	135
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3625	3775	3630	3780	3780
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3825	3975	3830	3980	3980
4.35	Turning radius	Wa (mm)	2000	2150	2000	2150	2150	
4.36	Internal turning radius	b ₁₃ (mm)	600	600	600	600	650	
Performance Data	5.1	Travel speed, laden/unladen ²⁾	km/h	19/20	19/20	19/20	19/20	19/20
	5.2	Lift speed, laden/unladen ²⁾	m/s	0.48/0.60	0.48/0.60	0.43/0.60	0.43/0.60	0.43/0.60
	5.3	Lowering speed, laden/unladen ²⁾	m/s	0.58	0.58	0.58	0.58	0.58
	5.5	Drawbar pull, laden/unladen ²⁾	N	5100/5600	4900/5500	5000/5800	5000/5800	5000/5800
	5.6	Max. drawbar pull, laden/unladen ²⁾	N	16000/16300	16000/16300	15700/16000	15700/16000	15700/16000
	5.7	Gradeability, laden/unladen ²⁾	%	10/16	10/16	9/15	9/15	8/14
	5.8	Max. gradeability, laden/unladen ²⁾	%	19/27	19/27	17/25	18/26	17/25
	5.9	Acceleration time, laden/unladen (over 10 metres ²⁾)	s	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0
	5.10	Service brake		mechanical	mechanical	mechanical	mechanical	mechanical
	E-Motor	6.1	Drive motor rating S ₂ 60 min ³⁾	kW	12/15	12/15	12/15	12/15
6.2		Lift motor rating at S ₃ 15% ³⁾	kW	18,5/22	18,5/22	18,5/22	18,5/22	18,5/22
6.3		Battery acc. to DIN 43531/35/36 A, B, C, no		DIN 43536 A	DIN 43536 A	DIN 43536 A	DIN 43536 A	DIN 43536 A
6.4		Battery voltage, nominal capacity K ₅	V/Ah	80/560-620	80/700-775	80/560-620	80/700-775	80/700-775
6.5		Battery weight	kg	1540	1863	1540	1863	1863
6.6		Energy consumption acc. to VDI cycle	kWh/h	6.4	6.4	8.0	8.0	8.1
Others	8.1	Type of drive control		Impulse/AC	Impulse/AC	Impulse/AC	Impulse/AC	Impulse/AC
	8.2	Operating pressure for attachments	bar	200	200	200	200	200
	8.3	Oil volume for attachments	l/min	25	25	25	25	25
	8.4	Sound level at the driver's ear according to EN 12 053 dB(A)		70	70	70	70	70
	8.5	Towing coupling, type DIN		DIN 15170-H	DIN 15170-H	DIN 15170-H	DIN 15170-H	DIN 15170-H

1) + 25 mm for DZ mast

2) Values for the Drive&Lift Plus and Efficiency packages on the next page

3) Second value for Drive&Lift Plus option

This specification sheet according to VDI regulation 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipment etc. could produce other values. Right reserved for technical changes and improvements.

				EFG 425k	EFG 425	EFG 430k	EFG 430	EFG S30	
Performance Data Efficiency/Drive&Lift Plus	5.1	Travel speed, laden/unladen	km/h	Efficiency	16/17	16/17	16/17	16/17	16/17
				Drive&Lift Plus	19/20	19/20	19/20	19/20	19/20
	5.2	Lift speed, laden/unladen	m/s	Efficiency	0.43/0.55	0.43/0.55	0.40/0.55	0.40/0.55	0.40/0.55
				Drive&Lift Plus	0.48/0.60	0.48/0.60	0.43/0.60	0.43/0.60	0.43/0.60
	5.3	Lowering speed, laden/unladen	m/s	Efficiency	0.58	0.58	0.58	0.58	0.58
				Drive&Lift Plus	0.58	0.58	0.58	0.58	0.58
	5.5	Drawbar pull, laden/unladen S ₂ 60 min	N	Efficiency	3600/4000	3500/3900	4500/5000	4500/5000	4500/5000
				Drive&Lift Plus	5100/5600	4900/5500	5000/5800	5000/5800	5000/5800
	5.6	Max. drawbar pull, laden/unladen S ₂ 5 min	N	Efficiency	12500/13000	12500/13000	14000/14500	14000/14500	14000/14500
				Drive&Lift Plus	16000/16300	16000/16300	15700/16000	15700/16000	15700/16000
	5.7	Gradeability, laden/unladen S ₂ 30 min	%	Efficiency	8.5/14	7.5/13	7/12	7/13	7/12
				Drive&Lift Plus	10/16	10/16	9/15	9/15	8/14
	5.8	Max. gradeability, laden/unladen S ₂ 5 min	%	Efficiency	17/25	17/25	15/23	15/23	15/23
				Drive&Lift Plus	19/27	19/27	17/25	18/26	17/25
	5.9	Acceleration time, laden/unladen over 10 metres	s	Efficiency	5.0/4.5	5.0/4.5	5.0/4.5	5.0/4.5	5.0/4.5
				Drive&Lift Plus	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0



Make use of the advantages

Options packages

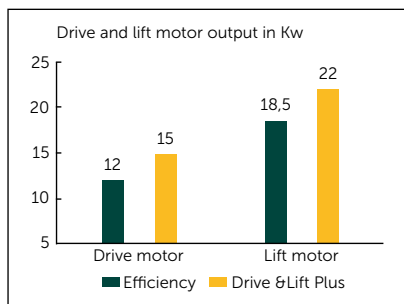
The right truck for every application. The Efficiency and Drive&Lift Plus packages make it possible:

Efficiency:

- Curve Control.
- Standard package.

Drive&Lift Plus:

- High performance package.



Performance packages

Ergonomic workstation

The ergonomics concept guarantees relaxed, fatigue-free work:

- Low entry height with level footwell.
- Slim steering column for maximum knee and legroom.
- Steering column and armrest can be quickly and intuitively adjusted (1-point adjustment).
- Unobstructed view thanks to special overhead guard design and optimised profile and hose configuration.
- Particularly comfortable operation thanks to integration of all relevant controls in the armrest which moves with the operator.
- Limited vibrations as the cab is floating.
- Operator-oriented storage concept for intuitive and easy use.



Storage facilities

Safety

High travel speeds and performance levels also require a high level of safety:

- Reduction in travel speed when cornering with Curve Control.
- No uncontrolled roll back on ramps or inclines thanks to automatic parking brake (optional).
- Maximum stability due to extremely low centre of gravity and high mounted steer axle.

A range of optional driver assistance systems provide additional safety for the operator, the truck and the load:

- Access Control: Only when the correct access code has been entered and the seat switch and belt locked, is the EFG ready for operation.
- 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 the travel speed reduction, also automatically reduces the tilt speed of the mast from a defined lift height. The tilt angle is shown on a separate display.

Intelligent electronics

- Easy tailoring to every application with five individually modifiable travel programmes.
- Fast and cost-effective maintenance thanks to the monitoring of all components and storage of service data.
- Display of steering wheel position and speed (optional).
- Integrated converter allowing the easy fitting of additional truck options.

Sideways battery removal

- Universal battery removal system for all 48 V/80 V trucks.
- Simple, quick and reliable removal systems.



Battery removal with SnapFit

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