Optimum energy efficiency

Efficiency and drive&liftPLUS performance packages

Maximum visibility

Lateral battery exchange

Ergonomic and easily adjustable operating concept

Ergonomic workstation

LI-ION technology

EFG 535k/540k/540/ S40/545k/545/550/S50

Electric four-wheel counterbalanced fork lift trucks (3,500/4,000/4,500/4,990/5,000 kg)

Our Series 5 electric four-wheel counterbalanced fork lift trucks with capacities from 2500 kg to 5000 kg offer the best features for the toughest indoor and outdoor applications as well as the use of a range of attachments. Moreover, our PureEnergy technology concept allows them to achieve best possible energy and cost efficiency combined with maximum performance.

PureEnergy reduces consumption while simultaneously significantly increasing throughput. We achieve this by using the most advanced 3-phase AC technology in combination with the compact controller and the compact hydraulic unit. Measurements as per the VDI cycle document: At maximum throughput, our EFG Series 5 consumes up to 20% 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.

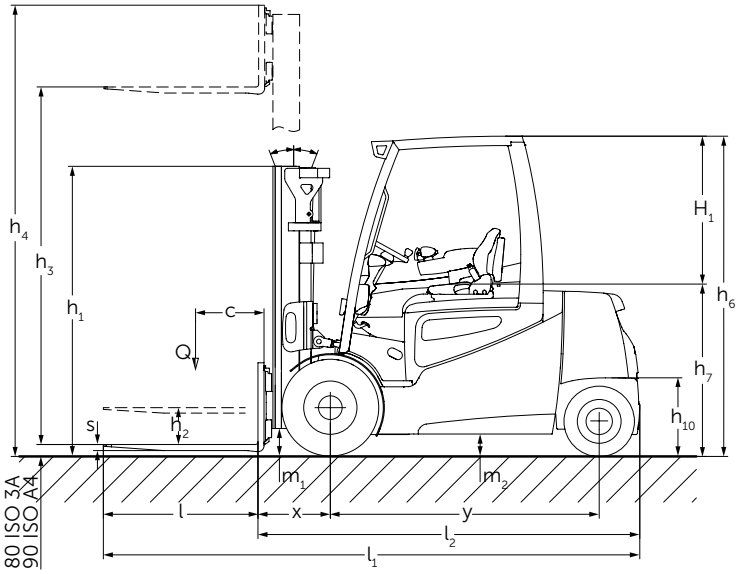
Our EFG Series 5 offers the best visibility on the market thanks to an expanded field of vision. We achieve this thanks to our compact mast, compact profile nesting, an optimised chain and hose guide as well as 2 viewing windows in the cross member.

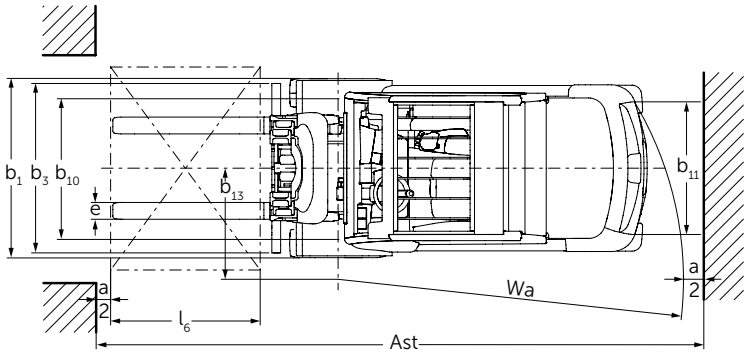
The truck contour is closed on the operator's right side. This guarantees maximum rigidity and stability for the overall design and creates a number of storage options, e.g. for papers and a smartphone.

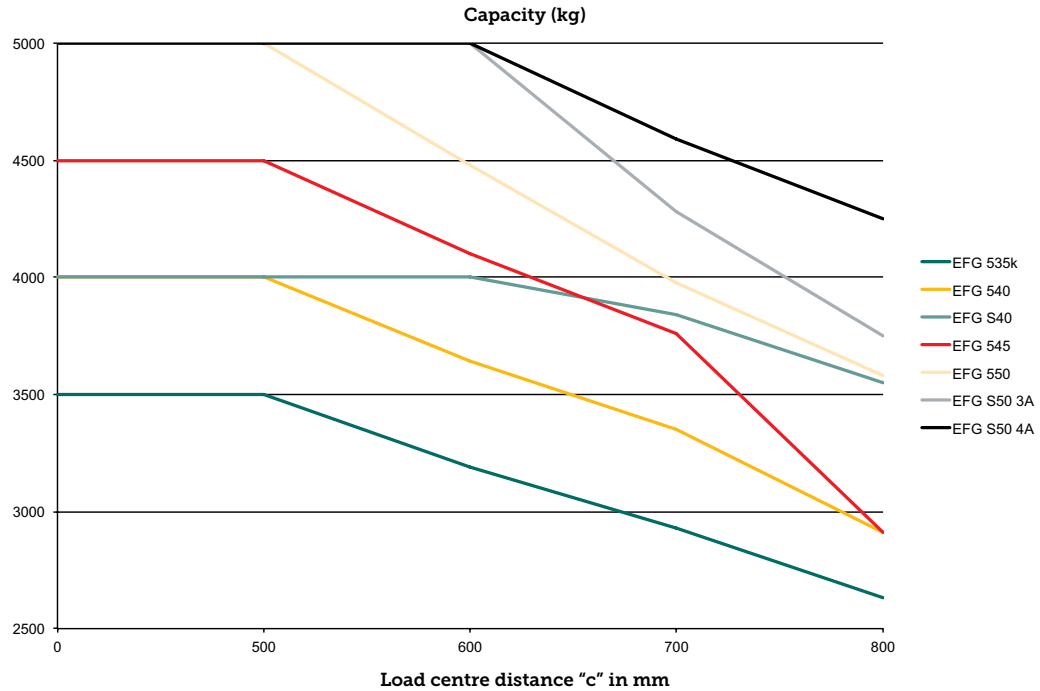
Thanks to proven concepts for demanding, yet energy and cost-saving applications, the EFG Series 5 trucks continue to set benchmarks.

JUNGHEINRICH

EFG 535k/540k/540/S40/545k/545/550/S50







EFG 535k/540k/540/545k/545/550/S40/S50

Standard mast designs EFG 535k/540k/540/S40/545k/545/550/S50																	
	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 535k	EFG 540k / 540 / 545k / 545	EFG S40 / 550	EFG S50	EFG 535k	EFG 540k / 540 / 545k / 545	EFG S40 / 550	EFG S50	EFG 535k	EFG 540k / 540 / 545k / 545	EFG S40 / 550	EFG S50	EFG 535k	EFG 540k / 540 / 545k / 545	EFG S40 / 550	EFG S50
Duplex ZT	2846	-	-	-	2348	-	-	-	150	-	-	-	3819	-	-	-	6/8
	2900	2200	-	-	-	150	-	-	-	3689	-	-	-	6/8	-	-	-
	3000	-	2290	2290	-	-	150	150	-	-	3715	3858	-	-	6/8	6/8	-
	3030	-	-	-	2440	-	-	-	150	-	-	-	4003	-	-	-	6/8
	3100	2300	2348	2348	-	150	150	150	-	3889	3823	3958	-	6/8	6/8	6/8	-
	3300	2400	-	-	-	150	-	-	-	4089	-	-	-	6/8	-	-	-
	3430	-	-	-	2640	-	-	-	150	-	-	-	4403	-	-	-	6/8
	3500	2500	2548	2548	-	150	150	150	-	4289	4223	4358	-	6/8	6/8	6/8	-
	3700	2600	-	-	-	150	-	-	-	4489	-	-	-	6/8	-	-	-
	3740	-	-	-	2795	-	-	-	150	-	-	-	4713	-	-	-	6/8
	4000	2750	2795	2795	-	150	150	150	-	4789	4720	4858	-	6/8	6/8	6/8	-
	4230	-	-	-	3040	-	-	-	150	-	-	-	5203	-	-	-	6/8
	4300	2950	-	-	-	150	-	-	-	5089	-	-	-	6/8	-	-	-
	4500	3050	3040	3040	-	150	150	150	-	5289	5215	5358	-	6/8	6/8	6/8	-
	4730	-	-	-	3290	-	-	-	150	-	-	-	5703	-	-	-	6/8
	5000	-	3290	3290	-	-	150	150	-	-	5715	5858	-	-	6/8	6/8	-
	5230	-	-	-	3540	-	-	-	150	-	-	-	6203	-	-	-	6/5
	5500	-	3540	3540	-	-	150	150	-	-	6215	6358	-	-	6/5	6/5	-
	5730	-	-	-	3790	-	-	-	150	-	-	-	6703	-	-	-	6/5
	6000	-	3790	3790	-	-	150	150	-	-	6715	6858	-	-	6/5	6/5	-
Duplex ZZ	2932	-	-	-	2323	-	-	-	1300	-	-	-	3955	-	-	-	6/8
	3100	2265	-	-	-	1496	-	-	-	3669	-	-	-	6/8	-	-	-
	3132	-	-	-	2423	-	-	-	1400	-	-	-	4155	-	-	-	6/8
	3142	-	2323	2323	-	-	1565	1415	-	-	3900	4050	-	-	6/8	6/8	-
	3465	-	-	-	2590	-	-	-	1567	-	-	-	4488	-	-	-	6/8
	3500	2465	-	-	-	1696	-	-	-	4069	-	-	-	6/8	-	-	-
	3542	-	2523	2523	-	-	1765	1615	-	-	4300	4450	-	-	6/8	6/8	-
	3675	-	2590	2590	-	-	1832	1682	-	-	4433	4583	-	-	6/8	6/8	-
	3700	2565	-	-	-	1796	-	-	-	4269	-	-	-	6/8	-	-	-
	3825	-	-	-	2770	-	-	-	1747	-	-	-	4848	-	-	-	6/8
	4000	2715	-	-	-	1946	-	-	-	4469	-	-	-	6/8	-	-	-
	4035	-	2770	2770	-	-	2012	1862	-	-	4793	4943	-	-	6/8	6/8	-
	4885	-	-	-	3300	-	-	-	2277	-	-	-	5908	-	-	-	6/8
	5095	-	3300	3300	-	-	2542	2392	-	-	5853	6003	-	-	6/8	6/8	-
	5314	-	-	-	3515	-	-	-	2492	-	-	-	6337	-	-	-	6/5
	5524	-	3515	3515	-	-	2757	2607	-	-	6282	6432	-	-	6/5	6/5	-
Triplex DZ	4120	-	-	-	2223	-	-	-	1200	-	-	-	5143	-	-	-	6/8
	4150	-	2140	2140	-	-	1382	1232	-	-	4908	5058	-	-	6/8	6/8	-
	4400	2165	-	-	-	1396	-	-	-	5169	-	-	-	6/8	-	-	-
	4420	-	-	-	2323	-	-	-	1300	-	-	-	5443	-	-	-	6/8
	4700	2265	2323	-	-	1496	1565	-	-	5469	5458	-	-	6/8	6/8	-	-
	4850	-	2373	2373	-	-	1615	1465	-	-	5608	5758	-	-	6/5	6/5	-
	5000	2365	-	-	-	1596	-	-	-	5769	-	-	-	6/8	-	-	-
	5020	-	-	-	2523	-	-	-	1500	-	-	-	6043	-	-	-	6/5
	5220	-	-	-	2590	-	-	-	1567	-	-	-	6243	-	-	-	6/5
	5300	-	2523	2523	-	-	1765	1615	-	-	6058	6208	-	-	6/5	6/5	-
	5500	2565	2590	2590	-	1796	1832	1682	-	6269	6258	6408	-	6/5	6/5	6/5	-
	5750	-	-	-	2770	-	-	-	1747	-	-	-	6773	-	-	-	6/5
	6000	2765	2770	2770	-	1996	2012	1862	-	6769	6758	6908	-	6/5	6/5	6/5	-
	6280	-	-	-	2950	-	-	-	1927	-	-	-	7303	-	-	-	6/5
	6500	2965	2950	2950	-	2196	2170	2042	-	7269	7280	7408	-	6/5	6/3	6/3	-
	7000	3165	3120	3120	-	2396	2350	2212	-	7769	7770	7908	-	6/3	6/3	6/3	-
	7320	-	-	-	3300	-	-	-	2277	-	-	-	8343	-	-	-	6/5

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)			Jungheinrich			
	1.2	Model			**EFG 535k**	**EFG 540k**	**EFG 540**	**EFG 545k**
	1.3	Drive			Electric			
	1.4	Manual, pedestrian, stand-on, seated, order picker operation			seat			
	1.5	Load capacity/rated load	Q	t	3.5	4	4	4.5
	1.6	Load centre distance	c	mm	500			
	1.8	Load distance	x	mm	519	532	532	532
	1.9	Wheelbase	y	mm	1,856	1,856	2,000	1,856
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	5,830	6,726	6,701	7,186
	2.2	Axle loading, laden front/rear		kg	8,310 / 1,020	9,730 / 996	9,726 / 975	10,608 / 1,078
	2.3	Axle loading, unladen front/rear		kg	2,960 / 2,870	3,553 / 3,173	3,706 / 2,995	3,659 / 3,527
Wheels / frame	3.1	Tyres			SE			
	3.2	Tyre size, front		mm	250-15	250-15	250-15	28 x 12, 5-15
	3.3	Tyre size, rear		mm	21 x 8-9			
	3.5	Wheels, number front/rear (x = driven wheels)			2x/2			
	3.6	Tread width, front	b_{10}	mm	1,115	1,115	1,115	1,155
	3.7	Tread width, rear	b_{11}	mm	950			
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/8			
	4.2	Mast height (lowered)	h_1	mm	2,300	2,290	2,290	2,290
	4.3	Free lift	h_2	mm	150			
	4.4	Lift	h_3	mm	3,100	3,000	3,000	3,000
	4.5	Extended mast height	h_4	mm	3,889	3,715	3,715	3,715
	4.7	Height of overhead guard	h_6	mm	2,365	2,365	2,365	2,350
	4.8	Seat height/standing height	h_7	mm	1,313	1,313	1,313	1,303
	4.12	Coupling height	h_{10}	mm	396			
	4.12.1	2. Coupling height		mm	566			
	4.19	Overall length	l_1	mm	3,805	3,818	3,962	3,818
	4.20	Length to face of forks	l_2	mm	2,655	2,668	2,812	2,668
	4.21	Overall width	b_1/b_2	mm	1,340	1,340	1,340	1,450
	4.22	Fork dimensions	s/e/l	mm	45 / 125 / 1,150	50 / 125 / 1,150	50 / 125 / 1,150	50 / 150 / 1,150
	4.23	Fork carriage ISO 2328, class/type A, B			3A			
	4.24	Fork carriage width	b_3	mm	1,120	1,260	1,260	1,260
	4.31	Floor clearance with load under mast	m_1	mm	143	179	179	166
	4.32	Ground clearance, centre of wheelbase	m_2	mm	150			
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	4,003	4,092	4,222	4,092
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	4,203	4,292	4,422	4,292
	4.35	Turning radius	W_a	mm	2,284	2,360	2,490	2,360
	4.36	Smallest turning radius	b_{13}	mm	660	660	721	660
Performance data	5.1	Travel speed, laden/unladen		km/h	17 / 18[2]	15 / 17[2]	15 / 17[2]	15 / 17[2]
	5.2	Lift speed, laden/unladen		m/s	0.43 / 0.55[2]	0.35 / 0.5[2]	0.35 / 0.5[2]	0.33 / 0.45[2]
	5.3	Lowering speed, laden/unladen		m/s	0.56 / 0.56[2]	0.55 / 0.5[2]	0.55 / 0.5[2]	0.55 / 0.5[2]
	5.5	Drawbar pull, laden/unladen		N	5,300 / 5,800[2]	5,100 / 5,600[2]	5,100 / 5,600[2]	4,900 / 5,500[2]
	5.6	Max. drawbar pull, laden/unladen		N	14,700 / 15,000[2]	14,600 / 14,900[2]	14,600 / 14,900[2]	14,500 / 14,800[2]
	5.7	Gradeability, laden/unladen		%	11.5 / 19[2]	10.8 / 17.7[2]	10.8 / 17.7[2]	9.4 / 15.8[2]
	5.8	Max. gradeability, laden/unladen		%	17 / 27.8[2]	15.4 / 26.1[2]	15.4 / 26.1[2]	13.7 / 23.9[2]
	5.9.1	Acceleration time, laden/unladen (to 10 m)		S	4.9 / 4.3[2]	5 / 4.4[2]	5 / 4.4[2]	5.5 / 4.8[2]
	5.10	Service brake			mechanical			
Electrics	6.1	Drive motor, output S2 60 min.		kW	18.0[2]			
	6.2	Lift motor, output at S3 15%		kW	24.0[2]			
	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	80 / 775	80 / 930	80 / 775
	6.5	Battery weight		kg	1,863	1,863	2,178	1,863
		Battery dimensions L/W/H		mm	1,028 / 855 / 784	1,028 / 855 / 784	1,028 / 999 / 784	1,028 / 855 / 784
	6.6	Energy consumption as per EN 16796		kWh/h	9.4[1][2]	10.6[1][3]	10.6[1][3]	11.1[1][3]
		CO- Equivalent as per EN 16796		kg/h	5.1	5.7	5.7	6
	6.7	Throughput		t/h	238[2]	260[2]	260[2]	288[2]
	6.8	Energy consumption at max. throughput		kWh/h	8.5[3]	8.5[3]	8.5[3]	8.9[3]
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	30			
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	69			
	8.5	Trailer coupling, model/type DIN			DIN 15170 H			

[1] 60 VDI working cycles / h
[2] With drive&liftPLUS options package
[3] 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.

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)			Jungheinrich			
	1.2	Model			**EFG 545**	**EFG 550**	**EFG S40**	**EFG S50**
	1.3	Drive			Electric			
	1.4	Manual, pedestrian, stand-on, seated, order picker operation			seat			
	1.5	Load capacity/rated load	Q	t	4.5	4.99	4	5
	1.6	Load centre distance	c	mm	500	500	600	600
	1.8	Load distance	x	mm	532	532	532	547
	1.9	Wheelbase	y	mm	2,000	2,000	2,080	2,080
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	7,161	7,549	7,176	8,036
	2.2	Axle loading, laden front/rear		kg	10,549 / 1,112	11,282 / 1,257	10,025 / 1,151	11,677 / 1,359
	2.3	Axle loading, unladen front/rear		kg	3,777 / 3,385	3,772 / 3,777	3,891 / 3,285	3,932 / 4,104
Wheels / frame	3.1	Tyres			SE			
	3.2	Tyre size, front		mm	28 x 12, 5-15	28 x 12, 5-15	28x12,5-15	28 x 12, 5-15
	3.3	Tyre size, rear		mm	21 x 8-9	21 x 8-9	23x10-12	23x10-12
	3.5	Wheels, number front/rear (x = driven wheels)			2x/2			
	3.6	Tread width, front	b_{10}	mm	1,155			
	3.7	Tread width, rear	b_{11}	mm	950	950	1,200	1,200
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/8			
	4.2	Mast height (lowered)	h_1	mm	2,290	2,290	2,290	2,440
	4.3	Free lift	h_2	mm	150			
	4.4	Lift	h_3	mm	3,000	3,000	3,000	3,030
	4.5	Extended mast height	h_4	mm	3,715	3,858	3,858	4,003
	4.7	Height of overhead guard	h_6	mm	2,350			
	4.8	Seat height/standing height	h_7	mm	1,303			
	4.12	Coupling height	h_{10}	mm	396			
	4.12.1	2. Coupling height		mm	566			
	4.19	Overall length	l_1	mm	3,962	3,962	4,102	4,102
	4.20	Length to face of forks	l_2	mm	2,812	2,812	2,952	2,952
	4.21	Overall width	b_1/b_2	mm	1,450			
	4.22	Fork dimensions	s/e/l	mm	50 / 150 / 1,150	50 / 150 / 1,150	50 / 150 / 1,150	60 / 150 / 1,150
	4.23	Fork carriage ISO 2328, class/type A, B			3A	3A	3A	4A
	4.24	Fork carriage width	b_3	mm	1,260			
	4.31	Floor clearance with load under mast	m_1	mm	166			
	4.32	Ground clearance, centre of wheelbase	m_2	mm	150			
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	4,222	4,222	4,412	4,427
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	4,422	4,422	4,612	4,627
	4.35	Turning radius	W_a	mm	2,490	2,490	2,680	2,680
	4.36	Smallest turning radius	b_{13}	mm	721	721	673	673
Performance data	5.1	Travel speed, laden/unladen		km/h	15 / 17[2]			
	5.2	Lift speed, laden/unladen		m/s	0.33 / 0.45[2]	0.33 / 0.45[2]	0.33 / 0.45[2]	0.31 / 0.45[2]
	5.3	Lowering speed, laden/unladen		m/s	0.55 / 0.5[2]			
	5.5	Drawbar pull, laden/unladen		N	4,900 / 5,500[2]	4,800 / 5,400[2]	4,900 / 5,500[2]	4,700 / 5,300[2]
	5.6	Max. drawbar pull, laden/unladen		N	14,500 / 14,800[2]	14,400 / 14,700[2]	14,500 / 14,800[2]	14,400 / 14,700[2]
	5.7	Gradeability, laden/unladen		%	9.4 / 15.8[2]	8.8 / 15.8[2]	9.4 / 15.8[2]	8.4 / 15[2]
	5.8	Max. gradeability, laden/unladen		%	13.7 / 23.9[2]	13.2 / 23.4[2]	13.7 / 23.4[2]	12.5 / 22.2[2]
	5.9.1	Acceleration time, laden/unladen (to 10 m)		S	5.5 / 4.8[2]	5.8 / 5.2[2]	5.5 / 4.8[2]	6.1 / 5.5[2]
	5.10	Service brake			mechanical	mechanical	mechanical	electric/mech-anical
Electrics	6.1	Drive motor, output S2 60 min.		kW	18.0[2]			
	6.2	Lift motor, output at S3 15%		kW	24.0[2]			
	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 / 930			
	6.5	Battery weight		kg	2,178			
		Battery dimensions L/W/H		mm	1,028 / 999 / 784			
	6.6	Energy consumption as per EN 16796		kWh/h	11.1[1][3]	11.4[1][3]	10.8[1][3]	11.6[1][3]
		CO- Equivalent as per EN 16796		kg/h	6	6.2	5.8	6.3
	6.7	Throughput		t/h	288[2]	315[2]	260[2]	315[2]
	6.8	Energy consumption at max. throughput		kWh/h	8.9[3]	9.3[3]	9.3[3]	9.3[3]
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	30			
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	69			
	8.5	Trailer coupling, model/type DIN			DIN 15170 H			

[1] 60 VDI working cycles / h
[2] With drive&liftPLUS options package
[3] 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 535k/540k/540/545k/545/550/S40/S50

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. CE

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