

The power of choice.

with Kalmar Electric
9-18T Forklift trucks.



Kalmar Electric Forklifts with
Lithium-ion or Lead Acid.



Giving you all the power you need.

The power of experience.

With over 100,000 machines built since the 1940's, our range of electric eco-efficient forklifts will deliver on your expectations, without compromise. They are built on our proven G-Generation platform with an electric driveline and rigorously tested electric and hydraulic systems. They perform as well as diesel models, both indoors and out.



The power of choice.

The Kalmar Electric Forklift range is available with lifting capacities from 9 to 18 tonnes, three different lifting masts and a range of battery solutions to suit the lifting capacity, work cycle and size of the machine. Kalmar Lifetime Services offers a comprehensive range of service, maintenance and spare parts packages, so you can keep your new forklift working at its operational best.

The power of safety.

Kalmar's electric forklifts all offer highly responsive handling and superior visibility from the cabin, helping to keep your driver safe and in complete control at all times. There are a range of options available, including Blue Safety Lights, Reverse Warning System, ECO-drive mode, Adjustment of Brake Power, Speed Adjustment and additional lighting to help keep your operator and by-standers extra safe.

The power of eco-efficiency.

Our range of zero-emission electric forklifts are ISO50001 compliant, which means they meet the highest emissions standards. They are exceedingly quiet and vibrate much less than a standard diesel-powered forklift, making them not only great to operate, but also invaluable for your reputation and environmental credentials.



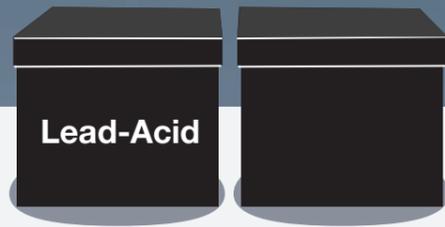
Ready for heavy loads.

With our electric forklifts now being able to lift up to 18 tonnes they can handle much heavier loads, making them ideal for industrial applications. Coupled with a short wheel base where space is limited, they are built to handle heavy loads indoors or out.

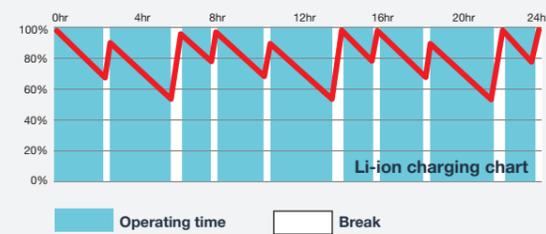
Lead Acid vs Li-ion.

Kalmar offers two types of battery technology to power its forklifts, Lead Acid and Li-ion. Here is a chart that demonstrates the difference between the two battery types so you can decide which is the right solution for your operations.

The Lead-Acid battery is generally removed after a shift and then fully charged prior to being refitted onto the forklift, it can be charged directly in a safe location. The Li-ion battery can be continuously recharged during operational downtime or statutory breaks.



CHARGING PATTERN



FEATURES

- Last for **1,200 to 1,400** cycles
- Battery efficiency **70%**
- Generally removed to be fully charged
- Requires a ventilated charging space
- Requires some regular maintenance
- Additional batteries required for multi-shift operation.

- Last for **4,000** cycles
- Battery efficiency **95%**
- Is charged in-situ
- Does not require a ventilated charging space
- Requires minimal maintenance
- Can be opportunity charged for multi-shift operation.

YOUR OPERATIONS

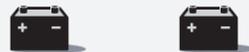
What is your operational cycle?

8 hrs

What is your operational cycle?

2-3hr 2-3hr 2-3hr 2-3hr 2-3hr

Are you operating more than one shift?



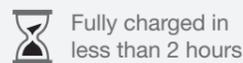
Are you operating more than one shift?



Charging time



Charging time



Good for business, great for the environment.

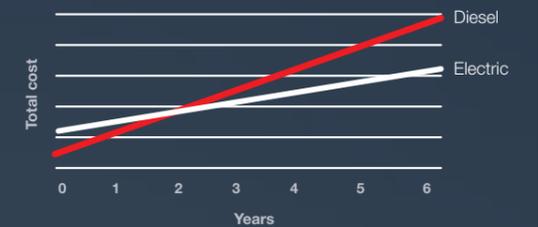
Reducing your emission shouldn't come at a cost, it should be beneficial to both the environment and your bottom line.

Kalmar's eco-efficient forklifts deliver on both accounts. They are just as powerful and efficient as diesel models without producing any harmful emissions. In fact, they produce zero emissions at source, which will help you substantially cut your fuel bills, while improving your environment credentials.

It pays to go green.

With our electric forklifts, you will benefit from reduced fuel costs, spend up to 50% less on servicing - as electric machines have less moving parts - and longer service intervals, both helping to maximise machine availability. Even though electric forklifts cost a little more than diesel models, the payback period is only two years. After this time, the savings really start to add up.

A two year payback period.



Using a Kalmar Electric Forklift truck pays off in the long run. In just 2 years time Kalmar's Electric Forklift truck will break even compared to the equivalent diesel truck.

Eco-efficiency at work.

Reducing the fuel consumption of your equipment also reduces your emissions, which will enhance your environmental reputation and help you meet current and future emissions standards. Together we can shape the future of cargo handling, with safe and eco-efficient solutions that improve your every move.



Electric

ECO-EFFICIENCY AT WORK

A healthier working environment.

Electric forklifts have always been seen as specialist machines for handling sensitive goods, in fact they deliver many additional benefits:



Less vibrations make handling sensitive goods safer and reduce stress and strain on your operator's body.



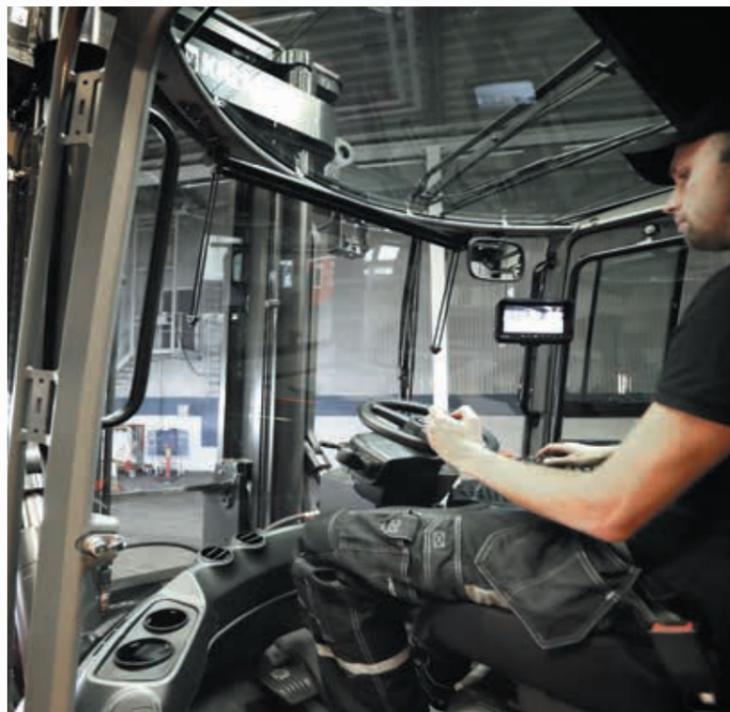
Electric forklifts are extremely quiet, making working indoors less disruptive for both operators and by-standers.



As electric forklifts produce no exhaust fumes they are safe to operate inside and where other staff are working or sensitive goods are stored.

A better driving experience.

All our electric forklifts have our ergonomically designed EGO cabin fitted as standard. This cabin has been built to provide a superior driving experience. With adjustable control panels, steering wheel and seat, which can also be rotated with the push of a button, your driver will be happier and more comfortable. The slim line B-Pillars provide an exceptional level of visibility, making the machine safer to operate, especially in busy environments.



Better control.

With all of our electric forklifts you will be able to have greater control over your machine with the speed pedal. Not only will you benefit from instant acceleration, you will also be able to slow down immediately by just taking your foot off the speed pedal.



Efficient and productive.

Buying an electric forklift doesn't mean compromising on power, as electric drivelines provide full torque immediately and are smoother to operate. Making operating cycles shorter, driving up your operational productivity. With extended servicing cycles and improved diagnostic tools your machine will benefit from higher availability rates than the diesel alternatives.

A simpler design.

Electric forklifts have less moving parts than diesel models. Without the need to change the starter motor, turbo or fuel filters, servicing and maintenance on the machine will take less time and cost up to 50% less. As less parts are required, your parts replacement costs and stock levels will also be substantially reduced.

Reduce energy consumption by up to 20%.

Kalmar ECO Drive allows you to optimise your truck's performance with three different modes:

Power Mode: when speed is of the essence. With full engine power, you will be able to move quickly about, lift and lower at full speed, without compromising on safety.

Normal Mode: when you need to retain some speed. With a slightly reduced acceleration you can expect 5-15% lower running and energy costs.

Economy Mode: when you need the lowest running costs. With acceleration reduced even further you can expect 10-20% lower running and energy costs.



Kalmar Lifetime Services.

Kalmar Care, making sure your business never stops.

We offer four different types of service and maintenance contracts. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. Each contract type includes a set of standardized service modules to meet your business needs.

Specialist support.

Kalmar can also offer specialist support for your new electric forklift as working with battery powered drivelines is different from diesel units. We can offer additional batteries if you are working more than one shift, pockets for your batteries so they can easily be removed with a forklift and recommend what sort of charging technology you should consider.

When the right part matters.

When something needs to be replaced you need a quality part that meets your exact needs – urgently. Kalmar Genuine Parts offers a rapid delivery service for over 50,000 premium-quality genuine parts to anywhere in the world, with installation support if needed.

Optimise your fleet with Kalmar Insight.

Kalmar Insight is a performance management tool for cargo and material handling, which gives you a valuable and easy to use overview of your daily operations based on equipment status and performance. Making it quicker for you to take action on relevant information that will help you improve your operations, your equipment's performance and your business.

Kalmar Insight* comes fitted in all new Kalmar machines and can be retrofitted to existing Kalmar machines or those built by other manufacturers.



Kalmar Insight: view each machine's movements as they occur.



All the support you need.

Financing options for you.

You may choose to buy your new forklift outright or consider leasing or renting your equipment. Kalmar offers a range of leasing and renting options that give you the financial predictability you need and the option to upgrade your equipment after a fixed period. With our leasing packages, you can focus on your core operations, while we perform all your service and maintenance needs. Kalmar can also look at you trading-in your old equipment.



Kalmar Insight: view each operator's performance in real time.

*Installation costs and/or an annual subscription fee may apply.



Kalmar Training Academy.

For your team to get the most out of their new forklift the Kalmar Training Academy offers a range of courses for both your technicians and operators. Operators will be shown how to optimise their day-to-day operational performance and what needs to be checked daily before operations begin.

Technicians will be given the knowledge needed to keep your new truck in top condition. Courses are a mix of theory and hands-on experience and can be held at Kalmar or at your site.

Technical information.

				ECG 90-6	ECG 100-6	ECG 120-6	ECG 127-6	ECG 140-6S	ECG 140-6	ECG 100-12S	ECG 100-12	ECG 120-12S	ECG 120-12	ECG 150-6S	ECG 150-6	ECG 150-12	ECG 160-6S	ECG 160-6	ECG 160-9S	ECG 160-9	ECG 160-12	ECG 180-6S	ECG 180-6	ECG 70-35E3	ECG 70-35E4		
LIFTING CAPACITY	Rated		kg	9000	10000	12000	12700	14000	14000	10000	10000	12000	12000	15000	15000	15000	16000	16000	16000	16000	16000	18000	18000	7000	7000		
	Load centre	L4	mm	600	600	600	600	600	600	1200	1200	1200	1200	600	600	1200	600	600	900	900	1200	600	600	1220	1220		
TRUCK DIMENSIONS	Truck length	L	mm	4615	4615	4620	4620	4630	4830	4710	4910	4910	5160	4700	4900	5420	4900	5150	5160	5410	5420	5160	5410	5940	5940		
	Truck width	B	mm	2480	2480	2480	2480	2480	2480	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2900		
	Height, base machine, EGO	H6	mm	2895	2895	2895	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	
	Seat height, EGO	H8	mm	1770	1770	1770	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	
	Distance between centre of front axle – front face fork arm	L2	mm	895	895	900	900	910	910	910	990	990	990	990	980	980	1000	980	980	990	990	1000	990	990	1265	1265	
	Wheelbase	L3	mm	2800	2800	2800	2800	2800	3000	2800	2800	3000	3000	3250	2800	3000	3500	3000	3250	3250	3500	3500	3250	3500	3500	3500	
	Track (c-c), front – rear	S	mm	1840 / 1960	1840 / 1960	1840 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	2210 / 1960	
	Turning radius, outer	R1	mm	4180	4180	4180	4180	4180	4360	4180	4360	4360	4360	4785	4180	4360	5175	4360	4785	4785	4785	5175	4785	4785	4785	4785	
	Turning radius, inner	R2	mm	75	75	75	75	75	125	75	125	125	125	420	75	125	600	125	420	420	420	600	420	420	420	420	
	Ground clearance, min.		mm	330	330	330	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	
	Height when tilting cab, max. EGO	T1	mm	3370	3370	3370	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	3390	
	Width when tilting cab, max EGO	T2	mm	3350	3350	3350	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	
	Min. aisle width for 90° stacking with forks	A1	mm	6470	6470	6475	6475	6475	6665	6475	7945	7945	7945	8370	6475	6735	8770	6735	7160	7770	8160	8770	7160	8160	9300/14000	9300/14000	
	Standard duplex mast	Lifting height	H4	mm	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	7000	10000	
	Mast height, min	H3	mm	4015	4015	4015	4040	4040	4040	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	5575	7075
	Mast height, max	H5	mm	6515	6515	6515	6540	6540	6540	6695	6535	6535	6535	6535	6695	6535	6535	6535	6535	6535	6535	6535	6535	6535	6535	9075	12075
	Mast tilting, forward – reverse	a – β	°	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	3 / 5	3 / 5
	Ground clearance, min.		mm	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	
	Forks	Width	b	mm	200	200	200	200	200	200	220	220	220	220	200	200	250	200	200	220	220	250	220	220	N/A	N/A	
	Thickness	a	mm	65	65	70	70	80	80	90	90	90	90	90	80	80	100	80	80	90	90	100	90	90	N/A	N/A	
Length of fork arm	l	mm	1200	1200	1200	1200	1200	1200	2400	2400	2400	2400	2400	1200	1200	2400	1200	1200	1800	1800	2400	1200	1200	N/A	N/A		
Width across fork arms, max.	V	mm	2330	2330	2330	2330	2330	2330	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	2360	N/A		
Width across fork arms, min.	V	mm	570	570	570	570	570	570	640	640	640	640	640	600	600	700	600	600	640	640	700	640	640	N/A	N/A		
Sideshift, ± at width across fork arms	V1 – V	mm	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1450	430 / 1500	430 / 1500	430 / 1500	430 / 1500	440 / 1480	440 / 1480	415 / 1530	440 / 1480	440 / 1480	430 / 1500	430 / 1500	415 / 1530	430 / 1500	430 / 1500	140	140		
Weight	With battery		kg	18700	18700	18800	18800	18900	20400	20300	21600	22200	23000	20900	21500	24400	21700	22800	23500	24200	25000	22900	24000	27700	29700		
WEIGHT	Axle load front	Unloaded	kg	8500	8500	8600	8600	8700	9400	10200	10900	10900	11500	10000	10700	12100	10700	11200	11400	11800	12100	11300	11600	16200	17800		
	At rated load		kg	22300	23800	27000	28100	30300	30500	28000	28200	31700	31600	33500	33600	36500	35100	35000	36700	36500	38100	38100	37800	28200	29700		
	Axle load rear	Unloaded	kg	10200	10200	10200	10200	10200	11000	10100	10700	11300	11500	10900	10800	12300	11000	11600	12100	12400	12900	11600	12400	11500	11900		
	At rated load		kg	5400	4900	3800	3400	2600	3900	2300	3400	2500	3400	2400	2900	2900	2600	3800	2800	3700	2900	2800	4200	6500	7000		
WHEELS	Wheels/tyres	Type, front – rear		Pneumatic								Pneumatic															
	Dimensions, front – rear	tum		11,00x20/16PR				12,00x20/20PR				12,00x20/20PR															
	Number of wheels, front – rear (*driven)			4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2		
	Pressure	MPa		0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	1,0	1,0	1,0	1,0	1,0	1,0	0,9	0,9		
STEERING	Steering system	Type – manoeuvring		Hydraulic Servo – Steering wheel								Hydraulic Servo – Steering wheel															
BRAKES	Service brake system	Type – affected wheels	tum	Oil cooled disc brakes – Drive wheels								Oil cooled disc brakes – Drive wheels															
	Parking brake system	Type – affected wheels		Dry, spring activated disc brakes – Drive wheels								Dry, spring activated disc brakes – Drive wheels															
MISC.	Hydraulic Pressure		MPa	16,0	17,0	17,5	18,0	19,0	19,0	12,5	12,5	15,0	15,0	16,5	16,5	17,0	17,0	17,0	17,5	17,5	18,0	19,0	19,0	20	20		
	Hydraulic fluid volume		l	215	215	215	215	215	220	215	220	220	220	215	220	220	220	220	220	220	220	220	220	220	220		

* Mast tilting Duplex: H4 2035-5250 mm = 6 – 9° 5500-6000 mm = 4 – 4°
Mast tilting Triplex: H4 3060-5250 mm = 6 – 5° 5500-6450 mm = 4 – 5°

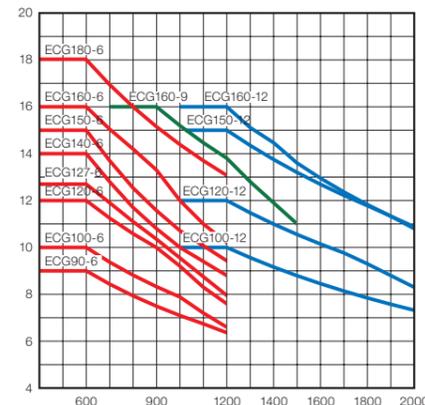
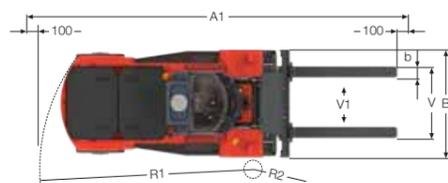
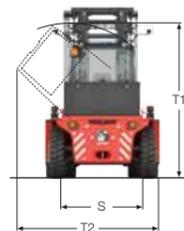
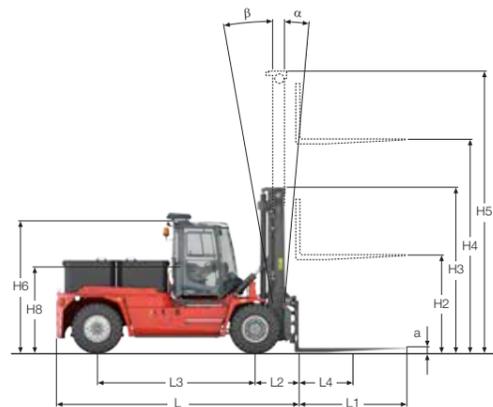
Performance.

				ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	
				90-6	100-6	120-6	127-6	140-6S	140-6	100-12S	100-12	120-12S	120-12	150-6S	150-6	150-12	160-6S	160-6	160-9S	160-9	160-12	180-6S	180-6	70-35E3	70-35E4	
PERFORMANCE	Lifting speed @ 70%	Unloaded	m/s	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,50	0,50	
		At rated load	m/s	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,50	0,50
	Lowering speed	Unloaded	m/s	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45
		At rated load	m/s	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50
	Traveling speed, F/R	Unloaded	km/h	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		At rated load	km/h	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	Gradeability, max	Unloaded	%	32	32	32	30	30	27	28	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
		At rated load	%	21	20	19	17	17	16	18	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	Gradeability, at 5 km/h	Unloaded	%	28	28	28	26	26	24	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
		At rated load	%	18	18	17	15	15	14	16	13	12	11	10	9	8	7	6	5	4	3	2	1	0	0	0
Drawbar pull		kN	56	56	56	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Noise level, inside*	LpAZ, EGO Cabin	dB(A)	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
	LpAZ, EGO Cabin OHG	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Noise level, outside**	LwAZ	dB(A)	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	

* According to EN12053
** According to 2000/14/EG

Driveline.

			ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG	ECG
			90-6	100-6	120-6	127-6	140-6S	140-6	100-12S	100-12	120-12S	120-12	150-6S	150-6	150-12	160-6S	160-6	160-9S	160-9	160-12	180-6S	180-6	70-35E3	70-35E4	
DRIVELINE	Drive axle - type		Differential and hub reduction										Differential and hub reduction												
	Drive motor, hourly capacity	kW	2 x 37 kW										2 x 37 kW												
	Speed control, principle - number of steps		High frequency MOSFET, AC - Stepless										High frequency MOSFET, AC - Stepless												
	Pump motor hydraulics, intermittent capacity – duty factor		2 x 50 kW - S3 15%										2 x 50 kW - S3 15%												
	Pump motor brakes, intermittent capacity – duty factor		1 x 5,1 kW - S3 15%										1 x 5,1 kW - S3 15%												
	Pump control, principle - number of steps		High frequency MOSFET, AC - Stepless										High frequency MOSFET, AC - Stepless												
BATTERY LEAD ACID	Number of batteries		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Dimensions (WxHxL)	mm	1638x 718x780	1638x 718x780	1638x 718x780	1638x 718x780	1638x 718x780	1638x 862x780	1638x 718x780	1638x 862x780	1638x 1150x780	1638x 862x780	1638x 998x780	1638x 998x780	1638x 1150x780	1638x 1150x780	1638x 998x780	1638x 1150x780	1638x 1150x780	1638x 998x780	1638x 1150x780				
	Capacity at 5h discharging - voltage	Ah - V	2x 620 - 120	2x 620 - 120	2x 620 - 120	2x 620 - 120	2x 620 - 120	2x 775 - 120	2x 620 - 120	2x 775 - 120	2x 1085 - 120	2x 775 - 120	2x 930 - 120	2x 930 - 120	2x 1085 - 120	2x 1085 - 120	2x 930 - 120	2x 1085 - 120	2x 1085 - 120	2x 930 - 120	2x 1085 - 120				
	Max charging current	A - V	125 - 120	125 - 120	125 - 120	125 - 120	125 - 120	150 - 120	125 - 120	150 - 120	215 - 120	150 - 120	185 - 120	185 - 120	215 - 120	215 - 120	185 - 120	215 - 120	215 - 120	185 - 120	215 - 120	215 - 120	215 - 120	215 - 120	215 - 120
	Battery weight (1 battery)	kg	2410	2410	2410	2410	2410	2870	2410	2870	3920	2870	3390	3390	3920	3920	3390	3920	3920	3390	3920	3920	3920	3920	3920
BATTERY LI-ION	Number of batteries		N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	1	1	N/A	1	1	N/A	1	1	1	1	1	
	Battery Capacity	Ah - V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1296-128	N/A	N/A	N/A	1296-128	1296-128	N/A	1296-128	1296-128	N/A	1296-128	1296-128	1296-128	1296-128	1296-128	



Lifting data.

DUPLEX STANDARD, CLEAR VIEW	Lift height	Mast height		Free lift	Mast height		Free lift
	H4	H3 min	H5 max	H2	H3 min	H5 max	H2
	ECG90-140*			ECG100-180**			
3000	3015	4515	-	3195	4695	-	
3250	3140	4765	-	3320	4945	-	
3500	3265	5015	-	3445	5195	-	
3750	3390	5265	-	3570	5445	-	
4000	3515	5515	-	3695	5695	-	
4500	3765	6015	-	3945	6195	-	
5000	4015	6515	-	4195	6695	-	
5500	4265	7015	-	4445	7195	-	
6000	4515	7515	-	4695	7695	-	
6500	4765	8015	-	4945	8195	-	
7000	5015	8515	-	5195	8695	-	

DUPLEX FULL FREE LIFT, CLEAR VIEW	Lift height	Mast height		Free lift	Mast height		Free lift
	H4	H3 min	H5 max	H2	H3 min	H5 max	H2
	ECG90-140*			ECG100-180**			
3000	3015	4515	1500	3195	4695	1500	
3250	3140	4765	1625	3320	4945	1625	
3500	3265	5015	1750	3445	5195	1750	
3750	3390	5265	1875	3570	5445	1875	
4000	3515	5515	2000	3695	5695	2000	
4500	3765	6015	2250	3945	6195	2250	
5000	4015	6515	2500	4195	6695	2500	
5500	4265	7015	2750	4445	7195	2750	
6000	4515	7515	3000	4695	7695	3000	
6500	4765	8015	3250	4945	8195	3250	
7000	5015	8515	3500	5195	8695	3500	

TRIPLEX FFL, CW	Lift height	Mast height		Free lift	Mast height		Free lift
	H4	H3 min	H5 max	H2	H3 min	H5 max	H2
	ECG90-140*			ECG100-180**			
4500	2950	5950	1500	3130	6190	1500	
5000	3117	6450	1667	3297	6690	1667	
5500	3283	6950	1833	3463	7190	1833	
6000	3450	7450	2000	3630	7690	2000	
6500	3617	7950	2167	3797	8190	2167	
7000	3783	8450	2333	3963	8690	2333	

+25 mm on H3 and H5 on the ECG140
 * ECG90-140-6
 ** ECG150-180-6, ECG160-9, ECG100-160-12

Mast options.

Duplex mast:
3000-7000 mm



Duplex full free mast:
3000-7000 mm



Triplex full free mast:
4500-7000 mm



Standard.

Cabin, EGO

- Machinery Directive 2006/42/EC
- Standard seat including 2-point belt.
- Clear windows including sliding windows in left and right door.
- Complete doors with locks left and right side.
- Complete manoeuvre system right hand console including standard display (electric adjustable).
- Multi function level left side including horn, direction indicator, high and low beam.
- Brake system with pedal left and right side.
- Internal comfort including mirrors, handles, interior lighting etc.
- Wiper and washers front/rear and roof window.
- Hydraulic steering system including steering wheel with steering wheel knob.
- External reverse lights.
- Cab tilting
- Heat and ventilation ECH with fresh air inlet filter.
- Speed control pedal right side.
- Kalmar standard key system.
- Reverse camera with monitor in cab.

Driveline

- Steering axle: Kalmar
- Drive axle: Kessler hub end with wet disc brakes
- Motor: Drive motor, 2x37 kW
- Hydraulics pump motor, 2 x 50kW
- Accumulator pump motor, 5,1 kW
- Power electrics: 120V AC-technology

Hydraulics

- Electric servo
- 2 functions
- Environment-friendly breather filter, hydraulic tank

Body

- Tilttable cab
- Steps with anti-slip protection
- Tilt angles standard 5/10.
- Lifting eyes in mast

Electrical system

- Electrical system 24 V
- Rear lights and brake lights, LED
- Working light front fenders 2 pieces, LED
- Working light mast 2 pieces, LED
- Flashing brake lights when reversing
- Indicator lamps including hazard lights, LED
- Main power switch
- Battery for 8 hours normal intensity operating time and central water topping system

Wheels

- ECG90-120: 11,00x20/16PR
- ECG100-180: 12,00x20/20PR

Fleet management

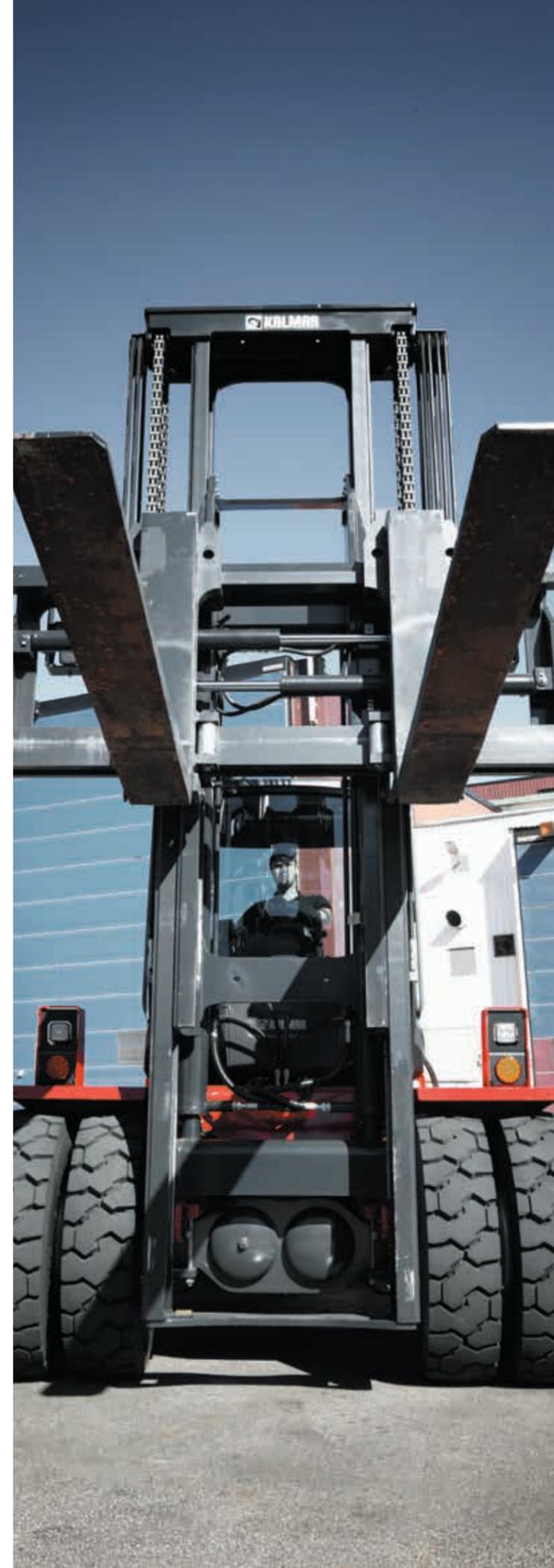
- Equipped with telemetric hardware for Kalmar Insight.

Colour

- Cabin: Kalmar Grey (Base ref RAL 7037/75)
- Chassis: Kalmar Red 2012 (Base ref RAL 3000/75)
- Lifting equipment: Kalmar Black (Base ref RAL 7021/30)

Documentation and decals

- Operators manual (electronic)
- Maintenance manual (electronic)
- Parts catalogue (electronic)
- Load diagram in cabin
- Warning decals
- Information decals
- Diagram, fuses
- Sound plate (legal requirement in EU/EEC)





KALMAR

Making your every move count

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