

**KALMAR 9 – 18 TONNES.
A TOTAL FEELING OF CONTROL.**



Kalmar is part of Cargotec Corporation

Long service intervals.

*Kalmar electronics offer
a wide range of customising
opportunities.*

*Choose from two driver
environments and options
to suit your operating
environment.*

*Masts and carriages
offer better visibility
and reduced service
requirements.*

*Excellent visibility
in all directions.*

Optimum Rev.

Optimum Speed.



A superior range of medium trucks

Kalmar sets the standard for precise operation, sure handling and visibility with its range 9 – 18 tonnes capacity lift trucks. Combine all this with legendary Kalmar quality, durability and easy maintenance and you've got the ultimate in lift truck efficiency and lifetime value.

Advanced electronics are teamed with a unique power train and linked lifting functions that give the operator total control of maneuvering and load handling using simplified, fingertip controls. Plus, you can easily adapt the truck's operation to the needs of your work. It's a total feeling of control in a big lift truck.

*Electronically
controlled gearbox
with several intelligent
functions.*

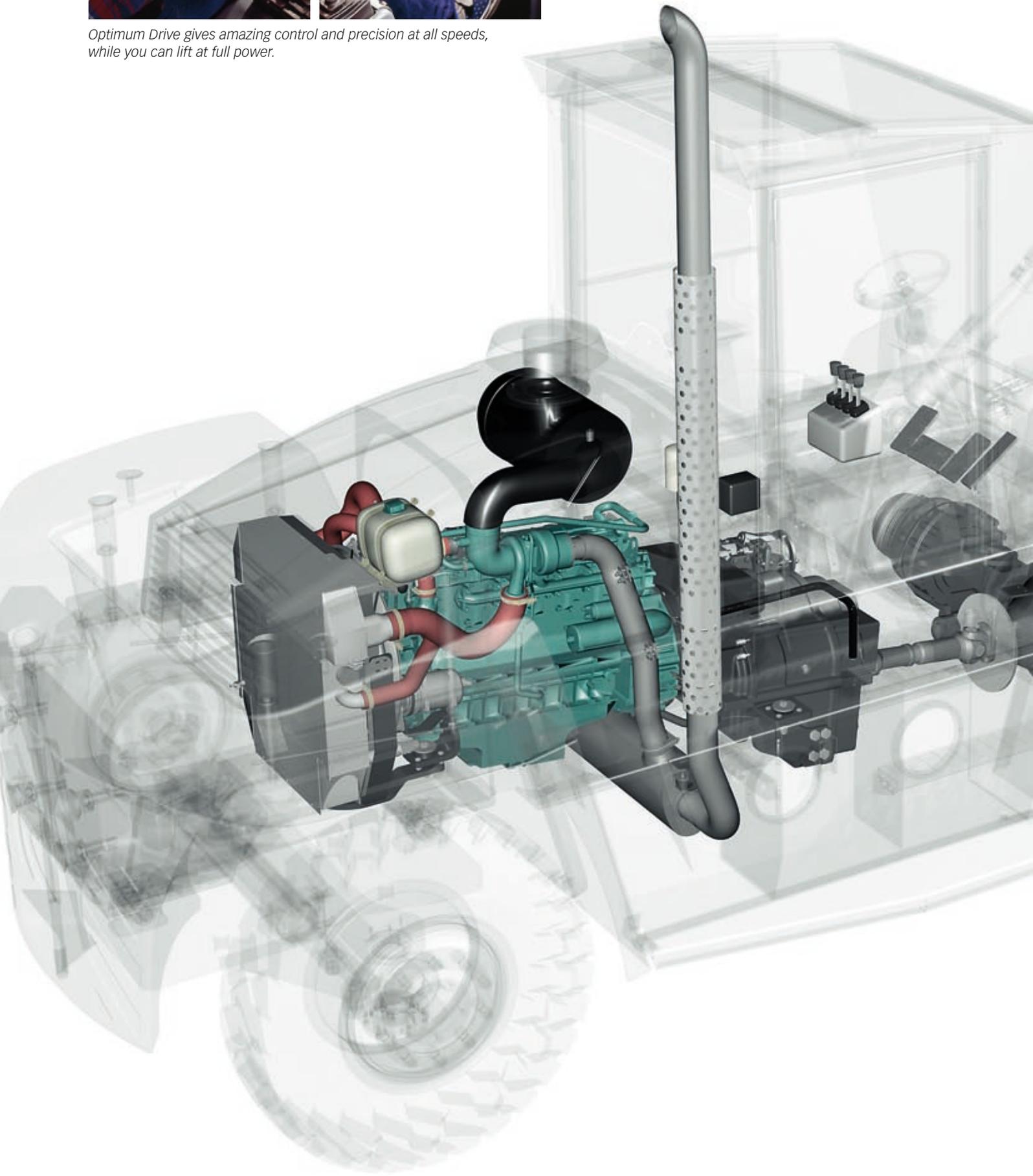
*All engines fulfil the latest
low-emission requirements.*

Heavy duty radiator.





Optimum Drive gives amazing control and precision at all speeds, while you can lift at full power.





Unique driving sensation

The feeling of driving the Kalmar 9 – 18 tonnes is an experience all on its own. The visibility, the comfort and the very low centre of gravity form the basis. The electronically controlled gearbox, developed in co-operation with Dana, offers totally unique opportunities. You can drive gently and precisely at all speeds, while operating the lifting equipment with the same high precision. A monitoring system increases reliability, and the program controlling gear changes is optimised for each individual truck.

There are many different settings, and you can choose exactly the driving sensation you want.

Stepless automatic gearbox

Allows comfortable, efficient, safe driving with better ergonomics. The extremely gentle up and down gear changes are almost completely stepless, and it's equally smooth changing from forward to reverse.

Optimum Drive

A unique solution that offers extremely high precision driving and handling of the lifting equipment. You can inch along at an even speed while lifting at full power. The accelerator controls the speed, and the hoist lever governs engine power – completely independently of each other.

Electronic inching

Electronic inching enables you to precision drive while maintaining high engine revs for the hydraulic functions. Slip control means you can steplessly regulate the speed with the brake pedal while lifting at full power.



Advanced Kalmar electronics offer unique possibilities for smart handling.



Intelligent Optimum Rev reduces fuel consumption, emissions and noise levels.



The engines fulfil the latest low-emission requirements.



ORFS couplings provide safe, completely secure hydraulic connections.





Smart handling

The Kalmar 9 – 18 tonnes is built for fast, safe handling in every way. The drive line, lifting equipment, chassis and driver environment are all finely tuned to one another. All parts work together, and modern modular manufacturing guarantees consistently high quality. Smart functions unique to Kalmar help further increase efficiency.

Optimum Speed

An intelligent solution that increases unladen lifting speed by up to 50%. When you activate the lifting function Optimum Speed senses the weight of the load and the engine revs, and produces the maximum lifting speed based on those parameters.

Optimum Rev

A system that takes full advantage of the engine power at every rev, producing the lowest possible fuel consumption, exhaust emissions and noise level. Optimum Rev is an intelligent solution that takes account of the engine revs, the position of the hoist lever and the weight of the load. A variable pump delivers the exact flow needed for any given situation.

Load-sensitive piston pump

A mechanically controlled function which regulates the pressure and flow of the hydraulic oil in relation to the weight of the load. As with Optimum Rev, this produces lower fuel consumption and reduced exhaust emissions.

Build your own driver environment!

The demands on driver environment vary and depend on many different factors, such as the type of business, the work area and the individual driver. Kalmar's medium range of trucks let you build your own completely customised driver environment, based on two different concepts:

Spirit Delta offers first-class comfort and ergonomics. Simply add the extras that best suit your requirements, from the basic cab design to various accessories for even better ergonomics.

FlexCab can be adapted from a complete cab to an open safety cage. A simpler, more robust alternative that easily fulfils requirements on visibility, safety and ergonomics.

FlexCab

FlexCab is what you make it. A covered cab, an open safety cage or just a windscreen – but all with excellent all round visibility. The beams in the cage frame have been profiled to eliminate blind spots, and the cab offers excellent close view to the front. FlexCab can be adapted to the local climate – windows and doors are completely optional.



FlexCab has profiled beams for maximum visibility.



The interior is spacious and robust, with excellent close view to the front.



Open safety cage which can be fitted with windows and doors, even after delivery.



The steering wheel is vertically and horizontally adjustable.



The design of the instrument panel is curved for optimum ergonomics.



The high-comfort seat has 70% better wear resistance.



The electronics are well protected yet easily accessible.

Spirit Delta

Kalmar has long been a leader in ergonomics and efficient driver environments. Spirit Delta is based on extensive research and offers superior ergonomics with intuitive control over all the truck's functions. Everything is logically positioned and within easy reach. The climate system is effective and there are a host of possible individual settings and optional extras. Quite simply, Spirit Delta makes for efficient driving.





The bonnet, counterweight and mast have been optimised for the best possible visibility.

Visibility is safety

The Kalmar 9 – 18 tonnes offers excellent visibility. It does of course fulfil all current and known future requirements and yet it goes further than that. However, it goes further than that. We have paid particular attention to visibility in our development, as it is absolutely crucial to safe, fast handling. Everything that could possibly obstruct the driver's view has been tucked out of the way. The sound insulation is underneath the machine, and the air filter under the bonnet – away from the field of vision. Take a test drive and you'll notice the difference!



The cross-head in the mast is shaped to present a narrower profile – yet still as strong – for better forward visibility.

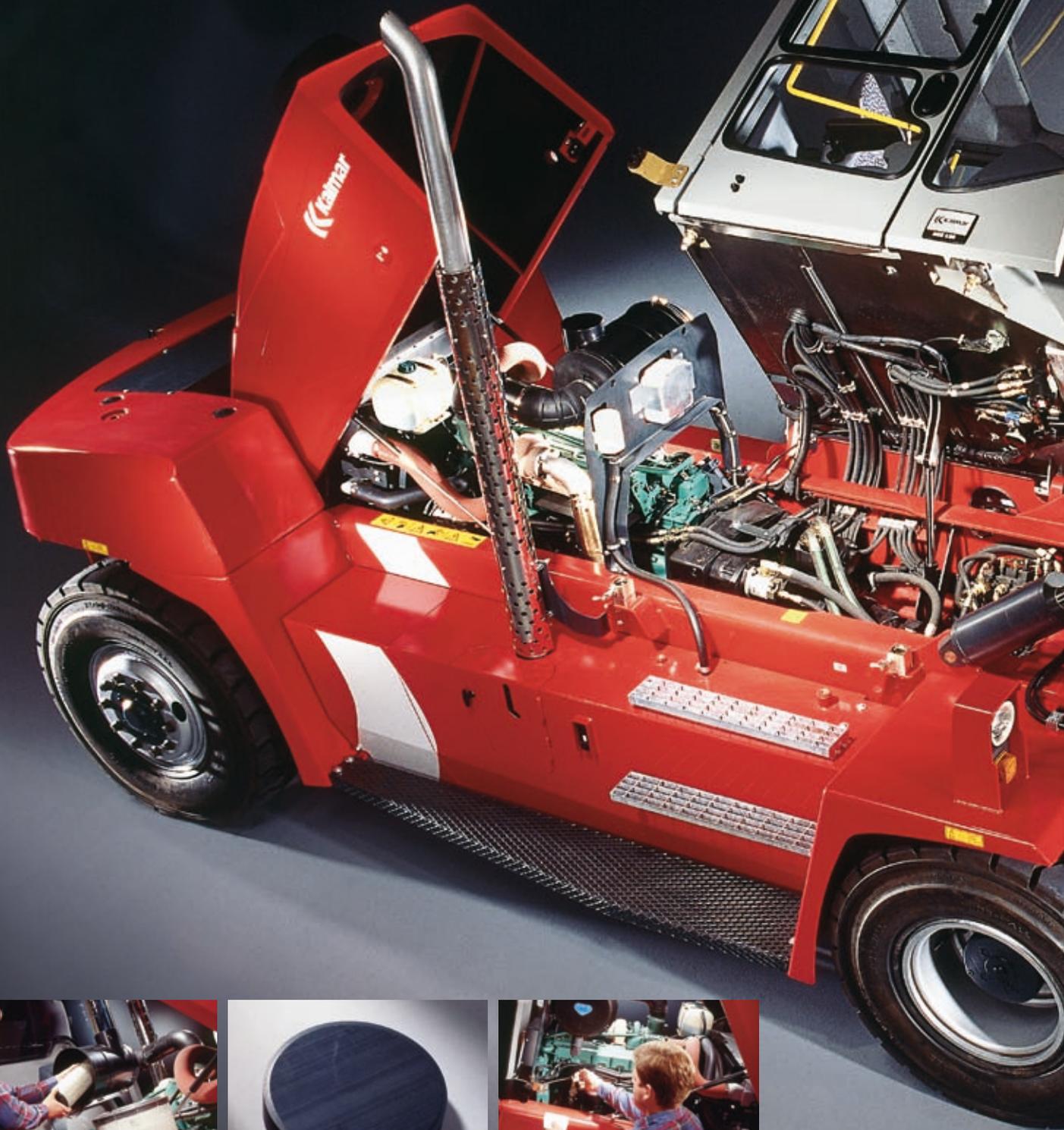


The air filter is totally concealed under the cab, and the exhaust pipe is positioned for minimum interference.



In the way – but not. Smart positioning of hydraulic cylinders, hoses and chains optimises visibility for the driver.

Standard service intervals are now 500 hours, which means a full 15% lower running costs.



The effective new air filter is easily accessible, and cartridges are simple to replace.



Sliding plastic in the carriage and mast means fewer lubrication points, lower servicing requirement, a longer life and increased stability.



Daily inspection is simple with all service points easily accessible.



Quality for economy

A vehicle standing in the garage is not a profitable machine. A well-built vehicle requires less servicing. This is the simple logic that reduces running costs on the new Kalmar 9 – 18 tonnes by 15%.

Simple inspection and servicing

Daily inspection is very simple with all service points accessible. For larger operations, the entire drive line can easily be made accessible as the complete cab can be tilted sideways.

Reduced servicing requirement

The lifting equipment has been made more efficient with a reduced servicing requirement. Sliding plastic has replaced support rollers in the carriage and mast, which means fewer lubrication points, longer service intervals and a longer life span. Double seals in the cylinders and new hydraulic couplings mean minimum leakage. The intervals between standard services are now a full 500 hours.

Everything you need

Kalmar has a truly comprehensive programme of services for ownership, rental, servicing and much more. We focus on offering the lowest possible ownership cost thanks to simple working solutions tailored to your requirements.

Kalmar is represented worldwide by an increasing number of well-trained dealers. The network has expanded dramatically in recent years, especially in Europe and the USA.

You can find information about your nearest dealer at www.kalmarind.com



The medium range of Kalmar lift trucks

Model	Capacity (kg)	Load center (mm)	Wheelbase (mm)	Lifting height, classified load (mm)	Weight (kg)	Tyres (4/2) (in.)
DCE90-6	9.000	600	2750	5000	15.200	11.00×20
DCE100-6	10.000	600	3000	5000	15.600	11.00×20
DCE120-6	12.000	600	3000	5000	16.200	11.00×20
DCE140-6	14.000	600	3250	5000	16.900	12.00×20
DCE150-6	15.000	600	3250	5000	19.800	12.00×20
DCE100-12	10.000	1200	3250	5000	18.600	12.00×20
DCE120-12	12.000	1200	3500	5000	19.700	12.00×20
DCE150-12	15.000	1200	3500	5000	21.400	12.00×20
DCE160-6	16.000	600	3500	5000	19.200	12.00×20
DCE160-9	16.000	900	3500	5000	20.600	12.00×20
DCE160-12	16.000	1200	3750	5000	22.400	12.00×20
DCE180-6	18.000	600	3250	5000	21.100	12.00×20HD

FOUR REASONS TO CHOOSE KALMAR.

1 / COST OVER LIFETIME

Kalmar offers the best cost over lifetime for its customers. Modern and innovative technology together with lasting equipment and comprehensive service ensures Kalmar increases its customers' productivity. Every day.



2 / GLOBAL NETWORK

Kalmar invests in its sales and service network. Thus Kalmar is a reliable and trustworthy supplier with ability to serve demanding customers.



3 / LOCAL SERVICE

Kalmar practises innovative service development. Because of Kalmar's local customer service strategy, Kalmar knows its customers' local conditions, and can provide efficient and effective service in every location.



4 / CONTINUOUS DEVELOPMENT

Kalmar has not stopped at the top, but continuously improves its offering. New services as well as investments in automation and environmentally friendly solutions work for our customers benefit.



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