



# **FORK LIFT TRUCKS 20–50 TONNES HANDLING POWER FOR HEAVY LOADS**



**Reliable and efficient handling for high productivity. That's what Kalmar heavy fork lift trucks are all about. To get there we are in the frontline of technology, quality and ergonomic development. Always working together with our customers – because that's where performance counts: in ports and terminals, at steel mills, stone and concrete handling and everywhere else where handling power is required.**



# Welcome to efficiency

## Man and machine

We spend extensive resources on developing driver environment. Every aspect of ergonomics is carefully



researched and tested. Behind the steering wheel of a Kalmar, the driver can work efficiently for long hours. Safety and efficiency come together.



## The centre of operations

Spirit Delta is the name of Kalmar's famous driver environment. Based on extensive research, it offers the driver truly instinctive control over the truck. Some of the most striking features are:

- Exceptional all round visibility
- Efficient climate control
- First class ergonomics, everything logically placed and accessible
- Numerous adjustment possibilities
- Exceptional flexibility: no less than 75 options available



## Integrated control system

The Kalmar developed control system helps to produce the best possible safety, efficiency and economy. The monitoring function constantly checks vital components, ensuring they operate correctly to avoid damage. Available functions are for example:

- Efficient monitoring
- Lever steering or mini wheel steering on the armrest
- Automatic and load sensing gear changing
- Electrical servo
- Electronic scale





**All our trucks are developed by us. We use our long experience and development resources to make the most efficient and reliable machines. We work together with leading suppliers to develop the best drive trains, lifting equipment etc to fit each truck. All components are assembled and tested in our own factories before delivery. We know you want the best in quality and performance – so we never compromise.**

# True Kalmar performance

## A rigid base

The Kalmar truck is well known for its strength and durability. It is fully welded for rigidity with strong mounting points.



## Powered by the best

The standard engine is a truly reliable and economical Volvo turbo with intercooler. Adapted to lift truck duty, the engine gives high power and torque directly from low revs. Low exhaust and sound emissions that comply with EU, CARB and EPA regulations. (Optional engines from Cummins and Scania are available.)



## Smooth shifting

Spicer off Highways hydrodynamic transmissions, with integral gearbox and torque converter, give smooth shifting with minimum "clutch slip". Gear changing is electronically controlled with three/four forward and three/four reverse speeds.

## Safe and no-maintenance braking

A Kalmar first – wet disc brakes – offer efficient braking with virtually no maintenance.

Fitted as standard, these oil-cooled discs

can cope with

extreme loads over a long period with no fade, brake adjustments or replacement.



## Going up

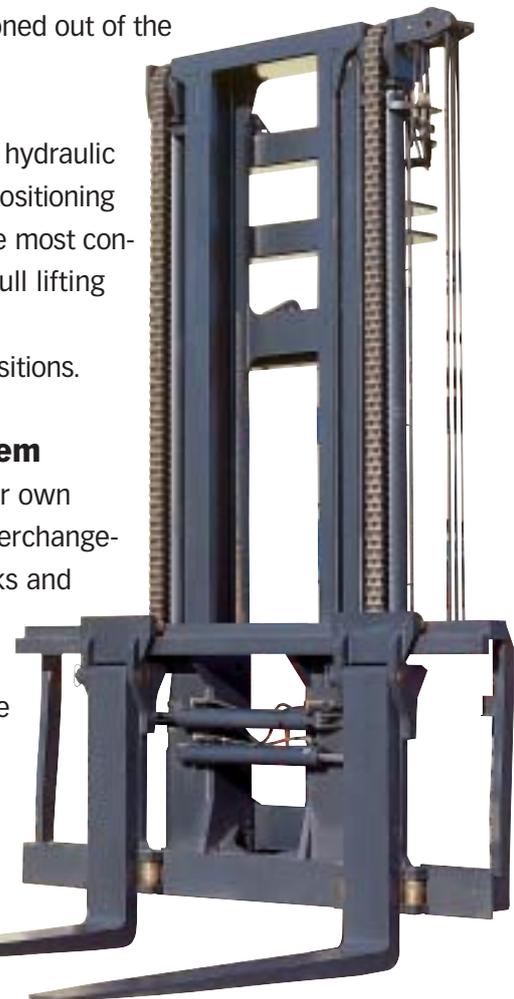
The lifting system is developed by Kalmar and made from high tensile steel for a long life. All the available masts are designed for free visibility and the lift cylinders are positioned out of the operators' eye line.

Fork carriages with hydraulic side shift and fork positioning are standard for the most convenient operation. Full lifting capacity is maintained in all positions.

## Fork shaft system

Terminal West is our own design for quick interchangeability between forks and attachments.

The system allows the driver to change forks quickly on his own during a shift, without the need for any additional equipment.



**We develop our trucks for best possible efficiency. But we are not stopping there. The fact is that over the last few years we have put more resources than ever into developing efficient service, rental and ownership programmes. Obviously, when our customers focus on life cycle cost, so do we.**



# Economy is not by chance

## Easy to service

The basis of an economical operation is the daily service performed by the driver. And the best way to ensure this is by making it easy. Accessible service



points and inspection covers for easy access are a good start. For major overhauls the driveline is easily accessible thanks to the tilting cab.

## Financial services

Standard or tailored financial solutions or rental agreements for each customer's needs. This applies to long or short term rental.

## Total fleet management

A concept for everything from leasing a complete fleet of equipment to providing skilled drivers for



customers' equipment. Total fleet management also includes machines of other manufacturers.

## Contract maintenance

A long-term service commitment which comprises everything: inspections, service planning, repairs, spare parts and more.



## Technical expertise service

Refurbishment and modernisation schemes for existing machines. A process that enhances efficiency and reduces cost for the customer.

## Training and education

A broad range of customised training for the customer's service engineers and truck drivers.

## Field service

A world-wide service network which covers all aspects of service, from on-call repair to complete partnership.

## Spare parts

Fast worldwide delivery. On-line ordering possible.

Contact Information:



Make things easy. These three little words symbolise the Kalmar philosophy.

Making heavy things easier to handle is nothing new for Kalmar. The company has over 100 years of experience in lifting and moving heavy objects with our machines in over 140 countries around the world.

But the three little words "make things easy" also encompass another dimension. Kalmar is more than just a machine supplier. Kalmar offers solutions that make life easier for its customers, everything from driver assistance to contract maintenance and fleet management.

**Kalmar Industries AB**  
SE-341 81 Ljungby  
Tel: +46 372 260 00. Fax: +46 372 263 90  
[www.kalmarind.com](http://www.kalmarind.com)

