



# i-Series Heavy Terminal Tractors

TT618i, TR618i, TRL618i



# A reliable and robust workhorse

The Kalmar i-Series, Heavy Terminal Tractors, have been designed to take on your heaviest loads. Robust, reliable and highly efficient they are ideal for moving cargo and containers around your terminal, even in the harshest of conditions.

When launched, the Kalmar i-Series, Heavy Terminal Tractors, set a new industry standard with many new features:

#### CAN-BUS controls as standard.

Kalmar was the first supplier to provide terminal tractors with a CAN-BUS system, which integrates all functions into one system and shows all operational and service data on one display screen.

#### EU Stage 3A and Stage 5 compliant engines.

The Cummins QSB6.7 engine complies with EU Stage 5 and is fitted as standard, a Stage 3A engine option is available.

#### New automatic gear control.

Soft and smooth gear changes with continuous traction from the new, stronger transmission Dana RTE14822.

#### Longer service intervals.

Every tractor combines the highest quality components and the latest technical features to give you industry leading service intervals.

Visible differences in efficiency, comfort and safety.

Kalmar has now made the pioneering i-Series even better. By including numerous improvements in durability, productivity and operator comfort. This re-designed series is great to drive and safer to operate.

The Kalmar i-Series gives you:

- higher productivity
- excellent manoeuvrability
- lower operating costs
- easier maintenance
- better life-cycle performance
- non-stop support from Kalmar's global service network.



Robust, reliable and highly efficient, they are ideal for moving cargo and containers, even in the harshest conditions.

# A spacious and well-designed cabin



**The i-Series cabin has been fully re-designed to be more spacious and comfortable for your drivers.**

The cabin now features:

- an ergonomically designed cabin for ease of operation
- more legroom and space for your drivers
- fully adjustable steering wheel
- a swivelling seat and wider doorways for easy access
- seat lock electronically controlled from the steering wheel
- easy access to the rear deck
- streamlined dashboard design
- greater visibility with less glare
- reduced levels of noise in the cabin
- optional air conditioning
- 4 storage compartments, 2 bottle holders, a 12 V power and a glove locker
- room for 2 radio stacks.



# CAN-BUS system as standard

The Kalmar i-Series, Heavy Terminal Tractors, are the first to have a CAN-BUS system as standard. Making operating the tractor faster, safer and simpler which saves you time, effort and money.

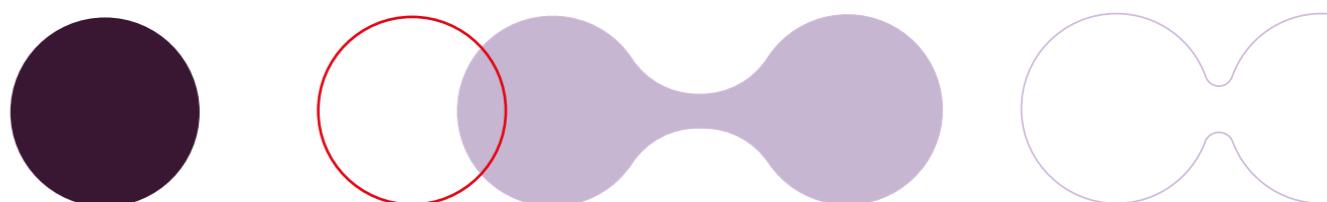
## The benefits of a CAN-BUS system

- all information and diagnostics readily available on driver's display
- troubleshooting in 1/10th of the time
- proportional lift boom control with the auto-revs-up feature
- auto-stop after adjustable idling time
- engine-protecting delay stop
- fewer wire harnesses, no circuit boards
- can connect to remote monitoring.

## The Kalmar i-Series Heavy Terminal Tractor will give you:

- a smarter seating arrangement
- a fully adjustable driver's seat
- a more spacious cabin
- improved visibility
- excellent performance and manoeuvrability
- easier service and maintain access.

 **The first to have a CAN-BUS system as standard, making operation faster, safer and simpler.**



# Easier to service and maintain

The Kalmar i-Series, Heavy Terminal Tractors, are quicker and easier to service, minimising downtime and maximising machine availability.

You will benefit from:

- oil and coolant levels are easier to check and maintain
- removable front cover gives easy access to cabin air filters, electrical terminals, heating and air conditioning units
- swivelling seat locking system now under the cabin floor for easier maintenance
- fuses and diagnostics sockets centralised on side dashboard for easier access
- dashboard now hinged for faster access to electronics
- new robust tank design and mountings for easier servicing
- electrical connectors and harnesses are better protected to reduce breakages and interruptions
- quality build materials will last longer and wear less.

## An extensive list of options

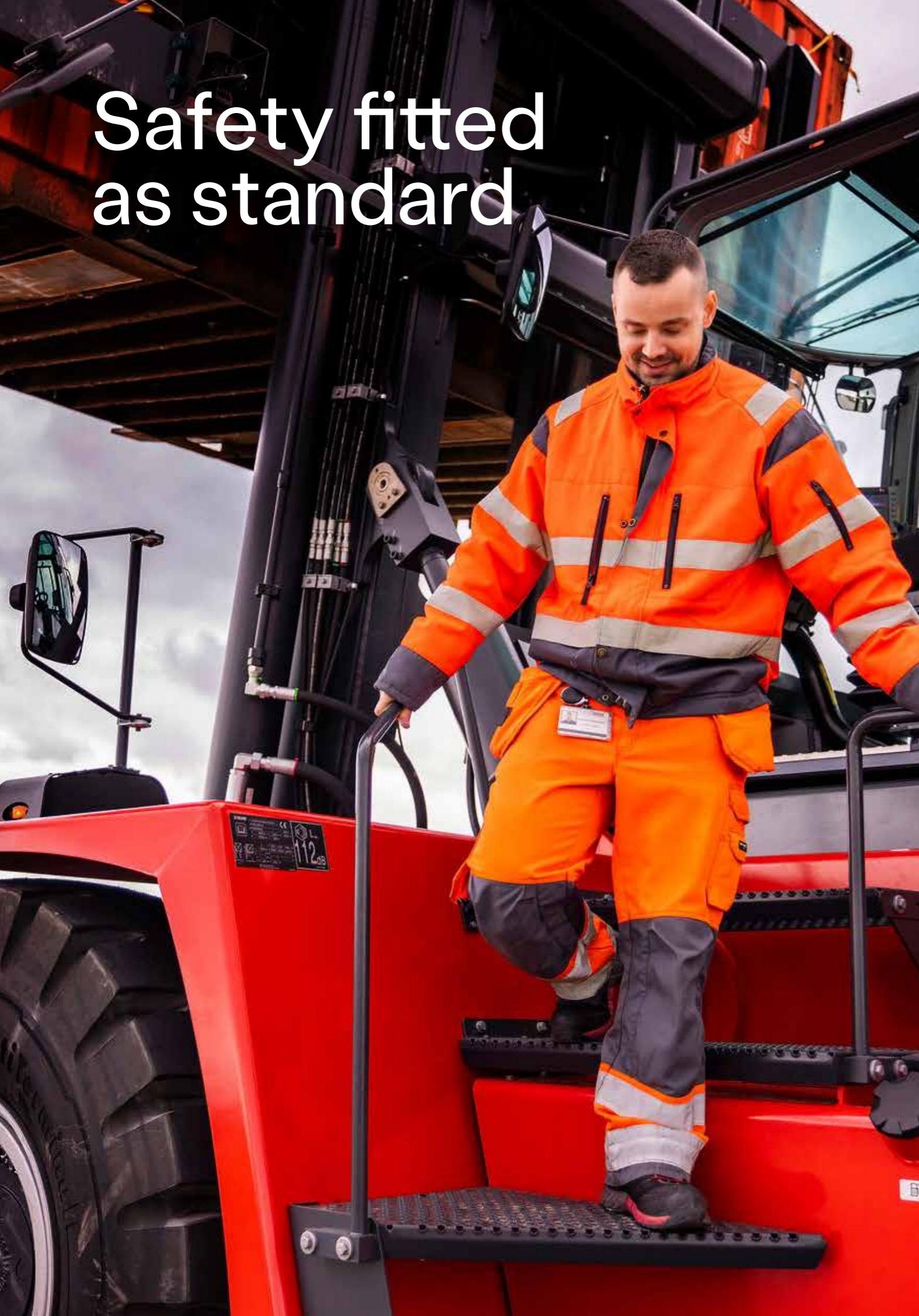
We offer a large range of options, including:

- differential lock
- rear axle air suspension
- heated and adjustable mirrors
- radio with USB, MP3 and DAB+
- roof window
- automatic airconditioning
- rubbing strakes
- extra working lights
- central greasing
- gooseneck
- and many more.

In addition, there are many more options to choose from for the Kalmar i-Series Terminal Tractor.



# Safety fitted as standard



For Kalmar, the safety of your drivers and maintenance staff is of critical importance, which is why our machines come with many more safety features fitted as standard than other machines available in the market.

The features listed here come fitted as standard on all Kalmar machines.



**2-point seat belt.** Ensures that your driver is safe and secure while operating our equipment, all Kalmar machines are equipped with an adjustable 2-point seat belt system.



**3-point Contact System.** Makes sure your drivers are safe when entering or exiting our equipment. All machines are fitted with steps and handles to ensure they can always maintain three points of contact with the vehicle, helping to keep them safe and preventing incidental injuries.



**Steps with anti-slip protection.** To reduce the risk of your driver slipping or falling on our equipment, all entering and exiting points are fitted with non-slip surfaces giving them extra grip, so your drivers stay safe.



**Control System.** All our equipment is fitted with an electronic Control System for monitoring the machine's different functions while in operation, helping to keep your driver fully informed at all times with up-to-date Operating, Event Controlled and Error Code information.



**Operating information.** Our equipment's Control System provides several operating information menus, which give your operator and maintenance personnel a great insight into the on-going performance of the machine, allowing them to keep it running optimally.



**Error code information.** Should there be any issue with your equipment while in operation, the electronic control system will immediately alert your driver with the appropriate error code, so they know exactly what is going on and can take appropriate action.



**Display.** Cabins are fitted with a large easy to read display which keeps your drivers fully aware of the machine's on-going performance and any maintenance actions that need to be taken.



**Engine/transmission Protection and Warning Systems.** Warning systems, designed to protect your machine's driveline in case of higher than expected temperatures or a pressure build up, are standard on all equipment, avoiding unnecessary mechanical failures.



**External reverse light.** For the safety of others, all our equipment is equipped with external reversing lights that help the driver keep everyone informed that they are moving backwards.



**LED lights.** These come fitted as standard on all our equipment, providing better visibility when working in reduced light than halogen lights.



**Neutral start switch.** A neutral start switch means your driver can't start his machine while it is in gear, preventing any damage to the driveline and any uncontrolled equipment movements.



**Good visibility.** Kalmar cabins provide your drivers with excellent visibility, forwards, upwards, sideways and behind them to help them stay safe while in operation.



# Keep moving with Kalmar Services

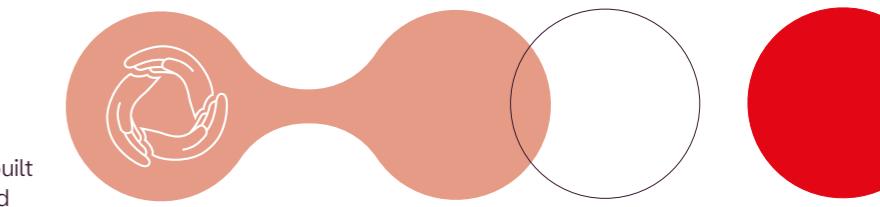
To keep your business moving Kalmar Services offers a range of services that can help you keep your equipment moving optimally.

## Kalmar Care

### Care that keeps your business moving.

With Kalmar Care you get a flexible service that's built around your business. Including, the experience and knowledge of Kalmar's dedicated staff, coupled with transparency and increased predictability of costs.

Kalmar Care is available in three different service models: our two customisable contracts – Essential Care and Complete Care – and our flexible solution On Demand Care.



### Service models:



#### Essential Care

A maintenance solution to keep your equipment in an optimal condition.



#### Complete Care

A complete service solution providing piece of mind and maximum equipment uptime.



#### On Demand Care

Top-of-the-line service whenever you need it.

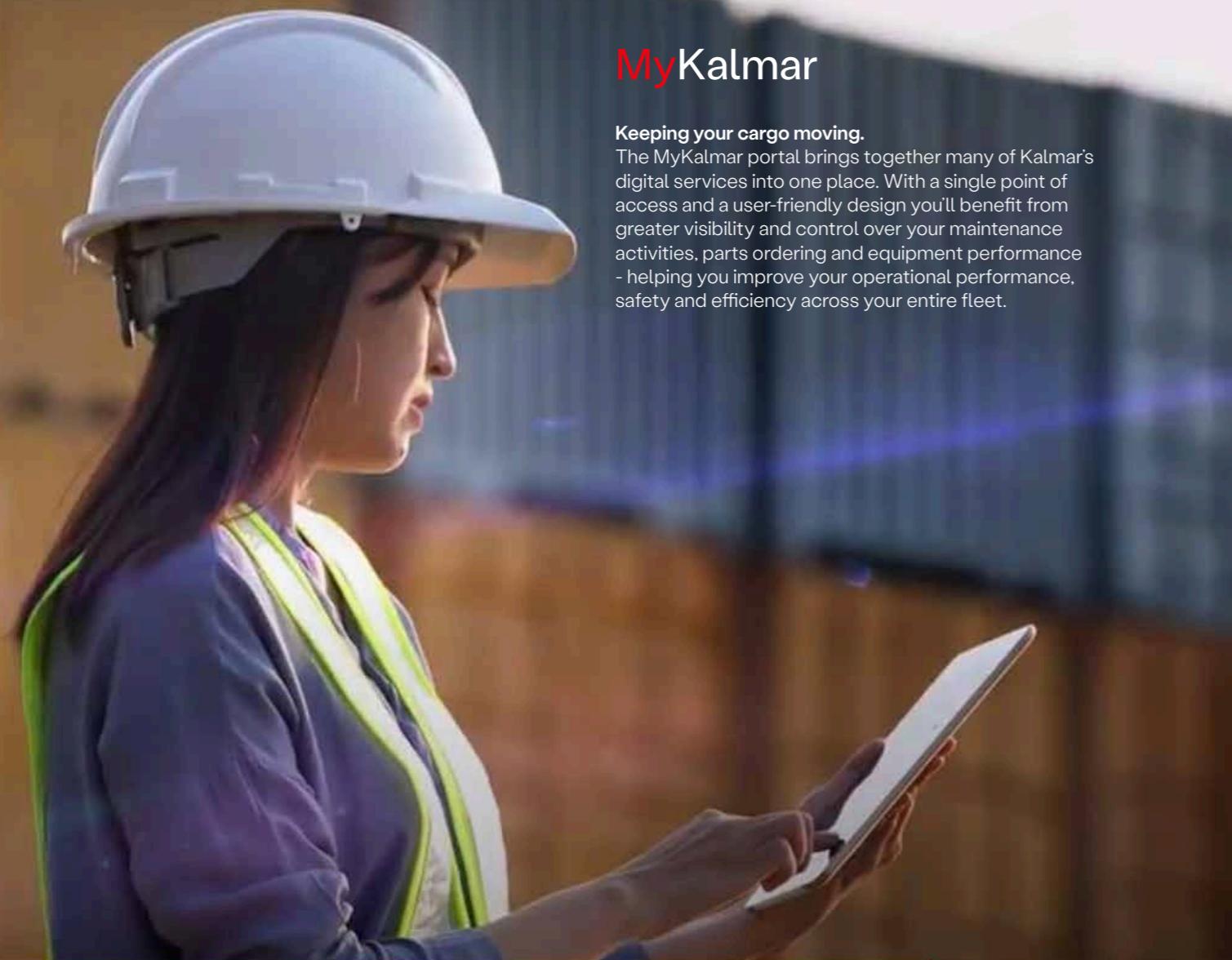
Maintenance Planning	●	●
Preventive Maintenance	●	●
Predictive Maintenance	●	●
Corrective Maintenance	●	●
Preventive Spare Parts	●	●
Corrective Spare Parts	●	●
Lubricants	●	●
MyKalmar	●	●
Kalmar Insight	●	●
Tyre Maintenance	●	●
Battery Maintenance	●	●

● Included      ● Optional

## MyKalmar

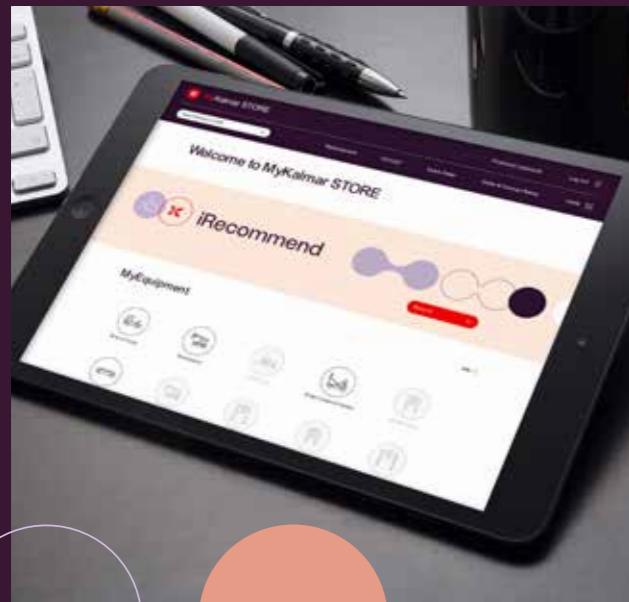
### Keeping your cargo moving.

The MyKalmar portal brings together many of Kalmar's digital services into one place. With a single point of access and a user-friendly design you'll benefit from greater visibility and control over your maintenance activities, parts ordering and equipment performance - helping you improve your operational performance, safety and efficiency across your entire fleet.



## MyKalmar STORE

MyKalmar STORE is your one stop shop for all the parts you need which is accessible through MyKalmar. Open 24/7, accessible on any screen and available in different languages, MyKalmar STORE stocks 100s of thousands of Kalmar Genuine Parts at any given time and we can have them delivered quickly to you, no matter where you are in the world. You can search, order and then track your order all through the same application. MyKalmar STORE has been designed to make your life easier.



## MyKalmar INSIGHT

### Optimise your operations with Insight.

MyKalmar INSIGHT\* is a performance management tool for cargo handling, which gives you an easy to use overview of your fleet operations, by aggregating data from multiple sources, including equipment built by other manufacturers. Review your entire fleet activities, schedule maintenance activities and

order the required parts automatically. All enabling you to take action on real-time information, that will help improve your overall operations immediately. MyKalmar INSIGHT comes fitted and ready to be activated in all new Kalmar equipment, it can also be retrofitted into existing Kalmar equipment or those built by other manufacturers.



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

## Kalmar Training

### Enhance your skills.

To get the most out of your new machine our training centre offers a range of courses for both your technicians and operators. Operators can be taught how to drive the machine for optimum performance and minimum waste, and to learn what needs to be checked daily for optimal safety. Technicians can be educated with the knowledge they need to keep your new equipment in top condition in a safe way. Courses are a mix of theory and hands-on experience.



# Technical information

## Kalmar 2-wheel Drive TT618i Terminal Tractor

### Engine

- Cummins QSB6.7 (Stage 5)  
Power: 168 kW @ 2200 rpm  
Torque: 1186 Nm @ 1300 rpm  
Transmission: Dana RTE14822 (4+4 gears), torque converter CFL331368

### Optional:

- Cummins QSB6.7 (Stage 3A)  
Power: 194 kW @ 2200 rpm  
Torque: 987 Nm @ 1500 rpm  
Transmission: Dana RTE14822 (4+4 gears), torque converter CFL331368

### Axles

- Front axle SISU SSNP
- Rear axle SISU SRDP with hub reduction by 4 planet pinions
- Axle ratio 20.57:1 as standard and 16.41:1 as option

### Chassis

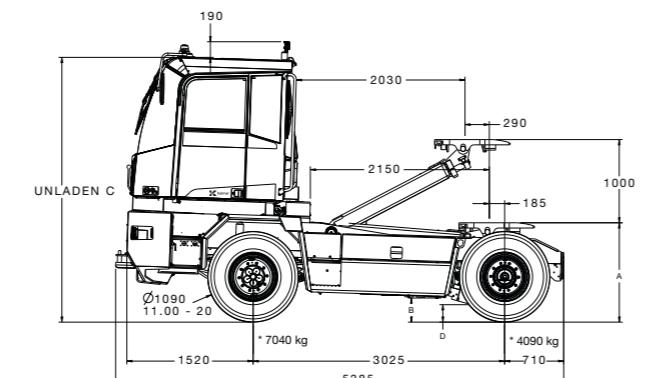
- All-welded steel chassis
- High-resistance side bumpers for good protection of accessories
- Standard colour RAL 7021 (Kalmar black)

### Cabin

- Designed and tested according to strict safety (ROPS, ISO 3471:1994) standards
- Excellent visibility to all directions and superb comfort for the driver
- Tiltable 60 degrees
- Standard colour RAL 3000 (Kalmar red)

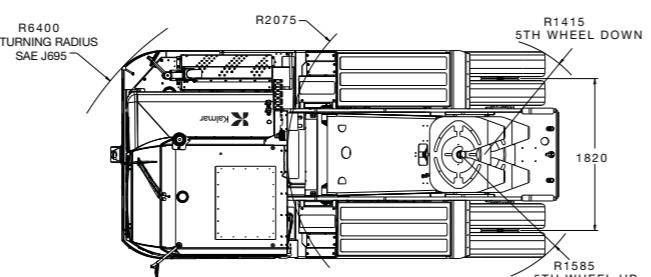
### Lift boom

- The lifting height is 1,000 mm with two single-acting telescopic cylinders
- Lifting capacity on the fifth wheel is 25,000 kg as standard and 32,000 kg with double-acting cylinders as option



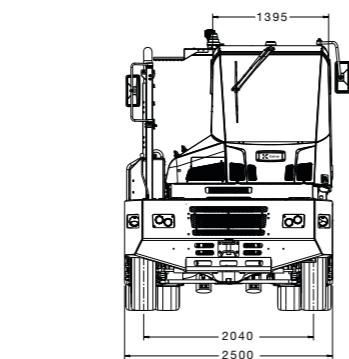
### Hydraulic system

- Variable displacement pump capacity 125 dm<sup>3</sup>/min, pressure 200 bar
- Hydrostatic steering by orbitrol with emergency function and two double-acting steering cylinders fitted on the front axle



### Pneumatic system

- One-cylinder compressor, 8 bar working pressure
- The brake system operates with two independent circuits



### Electric system

- 24 V, negative ground, batteries 2 x 170 Ah with main switch
- CAN-BUS (Controller Area Network) - interface

### Turning radius

- Front fender, left: 6.40 m
- Front fender, right: 6.40 m

### Weight

- Own weight\*: 9,600 kg
- Front axle\*: 6,600 kg
- Rear axle\*: 3,000 kg

### Optional equipment

- Wide selection of optional equipment available.

Tyre*	A±15	B±5	C±15	D±5
300/80 R22.5	1170	260	3110	180
310/80 R22.5	1190	280	3130	200
315/80 R22.5	1190	280	3130	200
315/60 R22.5	1120	210	3060	130
11.00 - 20	1195	290	3135	210
12.00 - 20	1215	310	3155	230

Subject to change without notice. Drawing not to scale.  
\* Depending on specification.

## Kalmar 4-wheel Drive TRL618i Terminal Tractor

### Engine

- Cummins QSB6.7 (Stage 5)  
Power: 168 kW @ 2200 rpm  
Torque: 1186 Nm @ 1300 rpm  
Transmission: Dana RTE14822 (8+8 gears), torque converter CFL301368

### Optional:

- Cummins QSB6.7 (Stage 3A)  
Power: 194 kW @ 2200 rpm  
Torque: 987 Nm @ 1500 rpm  
Transmission: RTE14822 (8+8 gears), torque converter CFL301368

### Axles

- Front axle: Sisu SSDP12S
- Rear axle: Sisu SRDP30S
- Axle Ratio 16.41:1

### Chassis

- All-welded steel chassis
- High-resistance side bumpers for good protection of the accessories
- Standard colour RAL 7021 (Kalmar black)

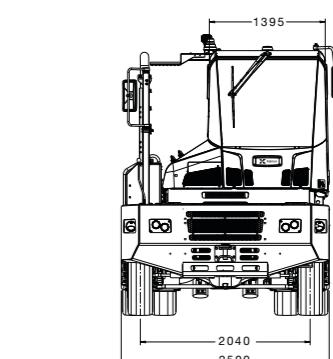
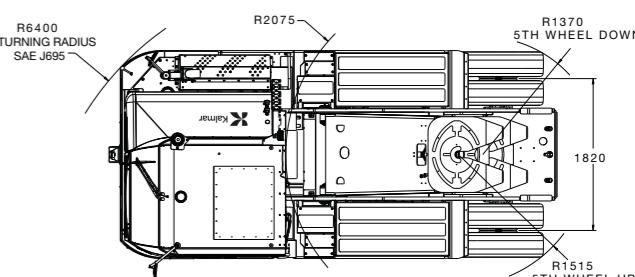
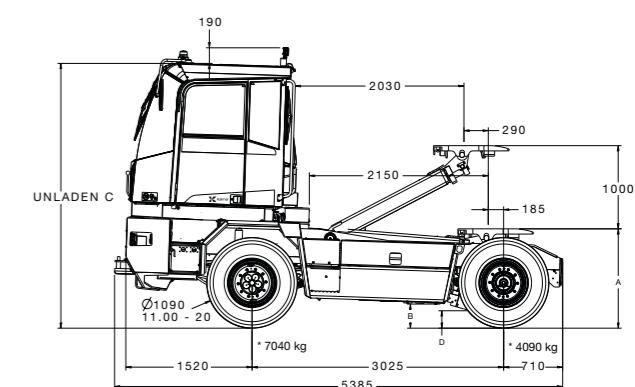
### Cabin

- Designed and tested according to strict safety (ROPS, ISO 2471:1994) standards
- Excellent visibility to all directions and superb comfort for the driver
- Tiltable 60 degrees
- Standard colour RAL 3000 (Kalmar red)

### Lift boom

- The lifting height is 1,000 mm with two double-acting telescopic cylinders
- Lifting capacity on the fifth wheel is 25,000 kg as standard and 32,000 kg optional

Tyre*	A±15	B±5	C±15	D±5
300/80 R22.5	1010	250	3200	225
310/80 R22.5	1025	265	3215	240
315/80 R22.5	1025	265	3215	240
315/60 R22.5	955	195	3145	170
11.00 - 20	1030	275	3220	250
12.00 - 20	1050	295	3240	270



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\* Depending on specification.

# Technical information

## Kalmar 4-wheel Drive TR618i Terminal Tractor

### Engine

- Cummins QSB6.7 (Stage 5)  
Power: 168 kW @ 2200 rpm  
Torque: 1186 Nm @ 1300 rpm  
Transmission: Dana RTE14822 (8+8 gears), torque converter  
CFL331368

### Optional:

- Cummins QSB6.7 (Stage 3A)  
Power: 194 kW@2200 rpm  
Torque: 987 Nm@1500 rpm  
Transmission: Dana RTE14822 (8+8 gears), torque converter  
CFL331368

### Axles

- Front axle Sisu SSDP12S
- Rear axle Sisu SRDP30S
- Axle ratio 20.57:1 as standard and 16.41:1 as option

### Chassis

- All-welded steel chassis
- High-resistance side bumpers for good protection of accessories
- Standard colour RAL 7021 (Kalmar black)

### Cabin

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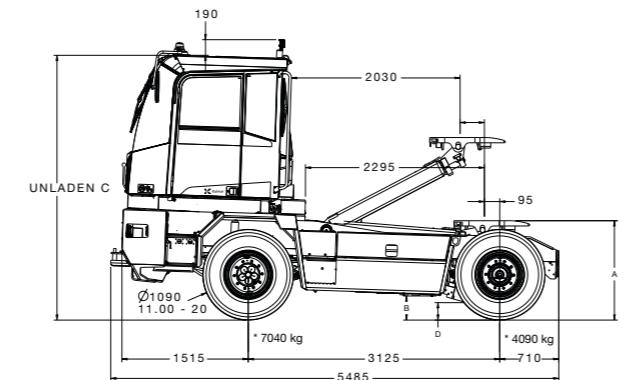
### Lift boom

- The lifting height is 1,000 mm with two double-acting telescopic cylinders

- Lifting capacity on the fifth wheel is 32,000 kg as standard
- The fifth wheel has  $\pm 10^\circ$  lateral tilting
- Driver can control the tilting angle by hydraulic valve

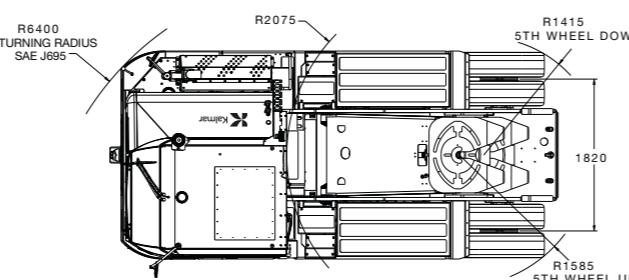
### Hydraulic system

- Variable displacement pump capacity 125 dm<sup>3</sup>/min, pressure 200 bar
- Hydrostatic steering by orbitrol with emergency function and two double-acting steering cylinders fitted on front axle



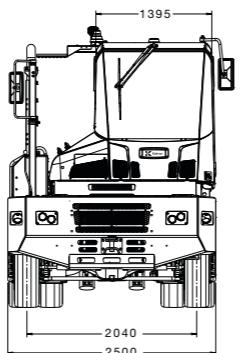
### Pneumatic system

- One-cylinder compressor, 8 bar working pressure
- The brake system operates with two independent circuits



### Electric system

- 24 V, negative ground, batteries 2 x 170Ah with main switch
- CAN-BUS (Controller Area Network) - interface



### Turning radius

- Front fender, left: 6.40 m
- Front fender, right: 6.40 m

### Weight

- Own weight\*: 11,130 kg
- Front axle\*: 7,040 kg
- Rear axle\*: 4,090 kg

### Optional equipment

- Wide selection of optional equipment available.

Tyre*	A±15	B±5	C±15	D±5
300/80 R22.5	1170	260	3110	180
310/80 R22.5	1190	280	3130	200
315/80 R22.5	1190	280	3130	200
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\* Depending on specification.





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