



You can expect more across

ENTIRE RANGE



Now more safety features and options to customise your machine than ever before. From reverse warning systems to a range of different drive lines and spreaders.



Higher productivity with lower fuel consumption and less emissions means a greener and lower cost per move. Longer servicing intervals with easier access for



Built on our proven G-Generation platform you get a stronger chassis with high and rear mounted cylinder package for improved stability and toughness. You also get upgraded drive axles with oil-cooled wet disc brakes greater stability when lifting





You can choose from either a single stacker with 4 lifting capacities or a double stacker with 2 lifting capacities. There are 4 different cabin offerings, with low or high mounting and the choice of single or dual access stairways. All machines can be equipped with mechanical or hydraulic side tilt or pile slope and there are 6 spreader choices.



Proven, powerful and efficient drive lines in both medium and high performance versions with 3 or 4 speed fully automatic transmissions and a choice of engines that meet current emission standards (EU stage 3-4-5 / EPA Tier 3 and 4F). The added efficiency of standard load sensing hydraulics (power-on-demand) and a choice of options for greater fuel efficiency including Eco Drive Modes, Stop/ Start technology and a Tyre Pressure Monitoring Sytem.



Our EGO cabin with multifunctional joystick or linear lift levers is ergonomically designed and provides a quiet working environment and improved visibility in all directions. Plus, a new tilt cylinder design for greater stability and control.



Kalmar smart controls include several important safety functions as standard. The overload protection system offers safety information with the container weight in the main display, including warnings and pop-up messages. There is also a mechanical mast tilt indicator on the tilt cylinder and a transport position striping in the mast for additional driver and operational safety.



CHOICE

Choose from six different machines depending on your needs. The single stackers are available in 8, 9, 10 and 11 tonne capacities and the double stackers in 10 and 11 tonne models. Both ranges share the same main components and performance.

4 lifting capacities.



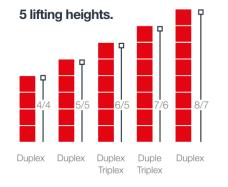




A choice of lifting heights.

We have five different duplex mast heights (2-stage) to choose from, which give you the ability to stack from 4-high up to 8+1-high.

You can choose from 4/4-high up to 8/7-high (stacking heights) for the containers sizes of 8'6" / 9'6" and you can handle one container higher with our double stacker as you are able to carry your containers "1 over 1". Plus, we offer a low-built triplex mast (3-stage) which will allow you to operate in height restricted areas or when you need to drive inside a factory.



2 performance alternatives.



A choice of spreaders.

The first thing you need to do is know what sort of containers you will be handling, then you can decide what sort of lifting head / spreader version you will need on your single or double spreader.

For single stacker toplift spreaders you can choose from lifting heads with either a standard twistlock position (8' wide) for ISO containers or a wide twistlock position (8'6") and / or wide body containers (WBC / 8'6" wide).

For double stacker sidelift spreaders there are four choices:

- 1. Side lift hooks and hydraulic side clamps for single lifting of 20-53' or double lifting of 20-40' containers
- 2. Lift head with hooks-n-clamps including additional safety wedge, that will lock single containers of 45-53' length.
- 3. The C-shaped hook-n-clamp spreader from the DCF series
- 4. ELME 582 spreader with dual sidelift twistlocks, for tight stacking.

A choice of spreader and lift beam levelling.

All machines, mast designs and spreaders come with two different solutions for spreader carriage and lifting heads.

Choose from either:

- 1. A standard mechanical end beam levelling carriage (MPS, mechanical pile slope, stroke 0-250 mm)
- 2. Or the optional combined hydraulic pile slope (HPS \pm 5 deg) and mechanical pile slope functions.

These solutions are ideal for operating

grounds and poor yard conditions or when loading handling containers onto tilting trailers.



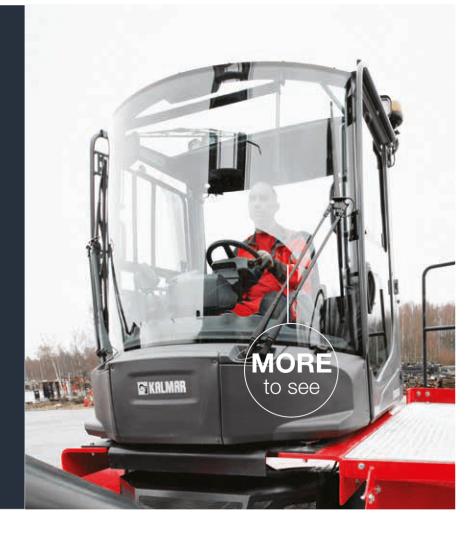




More to see

With A-posts being replaced with slim B-posts you can expect greater visibility in all directions: forward, backward, to the side and upwards.

Our new dual wiper system cleans a bigger area of the front windscreen than before so your forward view will stay extra clean and clear.



Easy to operate.

With a wide choice of joysticks or lifting levers, an electronically adjustable work console and side tilt steering wheel they are designed for ease of operation, making them more efficient to operate.



More comfortable.

With a choice of comfortable driver seats, a fault safe pedal system and powerful Electronic Climate Control (ECC) system with smarter controls your operator will benefit from improved ventilation heating and cooling, plus a cabin with superior comfort and lowest noise level inside and outside.



Extra smart.

Our intuitive user interface combines visibility, sound and touch to create a perfectly balanced operating environment with an intelligent colour display at its heart. Advanced diagnostics and smart settings allow for improved operational control and safety.





More OPTIONS



Kalmar has a range of options that make operating your equipment safer:



Reverse Warning System. Knowing what's going on behind you is critical when other personnel are present. Four rear sensors and a reversing camera relay real-time information to an in-cabin display, alerting the driver to any dangers, increasing personnel and driver safety. You can also add additional cameras on the spreaders or on the front of the machine.



Fire Suppression System. To protect your operator and machine from fire you can fit a FSS to your machine. The system utilises multiple spray nozzles that release a high pressure water mist where the fire has been detected from a re-chargeable water tank. This can be activated manually or automatically through an in-cabin temperature sensor.



Alcolock. To ensure that your driver is at their best when operating your equipment you can install an Alcolock system. This system makes sure that the driver meets alcohol blood level standards before being able to start the machine, much like a breathalyser.



Reverse Beeper System. When your staff are working side by side with moving vehicles there is always a safety risk. Installing a reverse beeper system provides a clear acoustic alert when the machine is reversing so personnel can make sure that they are out of harm's way at all times.



Kalmar has a range of solutions that will help make your equipment more productive:



Tyre Pressure Monitoring System. Helps to reduce wear and tear on tyres which results in reduced fuel consumption. Bluetooth sensors keep the driver advised of the condition of the tyres continually. Active care of your tyres can result in a 10-40% increase in tyre life and up to a 10% decrease in fuel consumption.



Additional lighting. Extra lighting, particulary if you have to operate your machine at night, as you can bring greater operational visibility and safety for personnel working on the site. You can add up to 18 extra powerful LED working lamps (see Options page).



Safety cage. An additional safety cage can be fitted around the cabin to provide additional safety for your driver from falling cargo.



Cabin options. Depending on your specific needs you can choose from a low or high mounted cabin (+600mm). High cabins provide better visibility for the driver particularly when working with two containers or on high stacks.



Container Checking System. The Kalmar Container Checking System makes it easy, fast and safe to identify and report containers that are not safe to handle. By automatically locking the mast and spreader to ensure a secure inspection position which makes the machine inoperable while in inspection mode, it will keep your team safe. The system ensures that damaged containers will be removed from service and not be filled with goods and shipped on, potentially causing issues at the next handling facility. If an insurance claim needs to be raised then this system can also help provide the documented evidence you need to support your claim.



Start/stop function. An optional start/ stop function can be added to automatically activate and deactivate the machine. In addition to reducing unnecessary emissions and extending the lifespan of your components, this makes it possible to achieve up to 10% in fuel savings.



Being the most reliable and robust range of empty container handlers in the market can give you real advantages, like higher uptime and lower total running costs.

Safer to operate.

With a clearer view forward, backward and upward, a new ergonomically designed cabin, non-slip access surfaces with supporting handrails, plus numerous safety options to choose from including our Reverse Warning System, Alcolock and four overload alerts you can be sure that your operator is working in a safe environment.

Lowering operating costs.

You get longer servicing intervals than before so you can keep your machine hard at work for longer. Plus, with the addition of advanced diagnostic tools and monitoring systems, faults can be dealt with quickly, thereby reducing any downtime.

Higher resale values.

With over 10,000 machines built to the high standard you expect from us - Kalmar Empty Container Handlers are known for their reliability and durability which is why they demand the highest resale values in the market.

Best lifetime value.

- SKALMAR

Higher uptime, improved productivity and lower costs per move coupled with high re-sale values means you can expect one thing; the best lifetime value you can expect of any empty container handler.





MyKalmar.

Keeping your cargo moving.

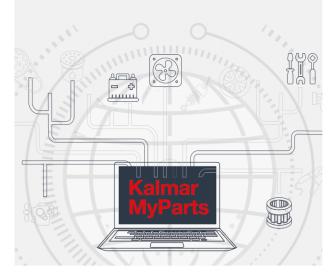
The MyKalmar portal brings together many of Kalmar's digital services into one place. With a single point of access and a user-friendly design you'll benefit from greater visibility and control over your maintenance activities, parts ordering and equipment performance - helping you improve your operational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



Kalmar MyParts.

A smarter way to order your parts.

Kalmar MyParts 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, MyParts 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. MyParts has been designed to make your life easier.

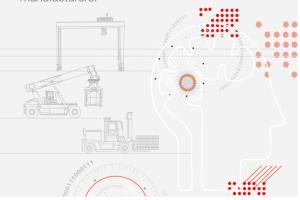


Kalmar Insight.

Optimise your operations with Insight.

Kalmar 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. Kalmar 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.



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.



Standard.

Kalmar DCG80-110

Kalmar DCG80-110, E4-E8 // Empty Container Handlers // 8 - 11 tonnes (EU3 / Tier 3, EU4 / Tier 4 or EU5)

Norms, standards and regulations according to:

- Machinery Directive 2006/42/EC
- Safety Industrial Trucks ISO 3691-1 & EN 16307-1
- Safety Low & High Lift Trucks ANSI/ITSDF B56.1
- Stability of EC-Handlers ISO 22915-9 CE-marking for trucks within EU/EEA
- ANSI/ITSDF-marking for North America trucks

- Strong, durable heavy-duty EC-Handler chassis
- High and rear mounted heavy-duty tilt cylinders
- LHS access stairway, with steps and a wide platform · Low cabin mounting (LCM) at the rear of the truck
- Very good rear end visibility of the truck
- Chassis with full access to the drive line
- Easy-to-open drive line cover plates (low noise)
- Lifting eyes and anchor points (front & rear) Towing pin (rear - incasted)

- Steps with anti-slip protection
- 2x Rear view mirrors rear on front mudguards
- Strong and protective mudguards (front & rear)
- Noise insulation kit for the complete truck

- Kalmar steer axle mounted dual pivot bearings
- Wide track axle with mechanical stops (±3 deg)
- El-servo power steering with double acting cylinder • Steer axle with narrow turning radius

Drive Axle (front)

- Kessler planetary axle with differential drive
- · Wide track axle for high side stability
- Oil-cooled Wet Disc Brakes (WDB)
- High pressure filter (10 my) for the brakes • DCG80ES44-87: D81-ND, width 4,0 m.
- DCG90FS44-87: D81-ND, width 4.1 m.
- DCG100ES44-87: D91-ND, width 4,1 m. • DCG110ES44-87: D91-ND, width 4,1 m.
- DCG100ED44-65: D91-ND, width 4,1 m.
- DCG110ED44-65: D91-ND, width 4,1 m.
- DCG100ED76-87: D91-HD, width 4,6 m.
- DCG110ED76-87: D91-HD, width 4.6 m.

Wheels (tyres & rims)

- DCG80: Tyres 12.00x24" (4+2)DCG90-110: Tyres 14.00x24" (4+2)

- Volvo and Cummins diesel engines 6 cylinder
 Emission approval EU3 / Tier 3, EU4 / Tier 4 or EU5
- High power & torque with low fuel consumption
- Engine with preheater, monitoring and
- protection system Fully automatic transmission DANA TE-14000
- Transmission monitoring and reverse protection
- Declutch function activated by the brake pressure
- Strong radiators for engine, transmission & brakes
- Muffler and exhaust pipe in stainless steel

Load-Sensing Hydraulics

- Load-sensing variable piston pumps (2x)
- Power-on-demand with high lift & lowering speeds
- Pumps for mast, spreader, brakes & steering Vane pumps for brake pressure & oil cooling (2x)
- Return filters for the work hydraulics (2x/10 my)
- Servo filter for the work hydraulics (10 my)
- Pressure filter for hydraulics / brakes (10 my)
- Power steering, power brakes & ORFS-couplings
- Diesel tank 380 litre incl. breather filter

- Mast design for up to 8-high single & double stacking • Duplex 2-stage mast with high mounted tilt cylinder
- Strong, durable lift mast, 1 pair of cylinders & chains
- · Heavy-duty mast profiles and strong cross members
- Mast with strong mast wheels, bearings & guide pads Large diameter shafts / bearing for mast / tilt fixations
- Only 2 oil hoses + 1 electrical cable over the mast
- Mast tilt angles +3 / -3 deg (FW / BW)
- · Mechanical tilt indicator on tilt cylinder
- Transport position striping (on lift mast)

- Carriage with strong wheels, bearings & guide pads • Large sideshift of ±600 mm (total stroke 1200 mm)
- 2 fixed twistlocks with indication lamps
- Mechanical Pile Slope by gravity (MPS) 250 mm
- The carriage is connected by the 2 lift chains

Attachment (DCG80-110 Single Stacker)

- Side lift with hydraulic extension 20'-40' • 2 fixed twistlocks with indication lamps
- Large sideshift of ±600 mm (total stroke 1200 mm)
- Spring loaded floating vertical heads (0-250 mm) Safety locking, alignment pins & sensors (2x)
- Lowering interrupt sensors for safe handling

Attachment (DCG80-110 Double Stacker)

- Side lift with hydraulic extension 20'-40'
- 2 mechanical lift hooks with 2 hydraulic side clamps
- The 2 lift hooks connects the bottom container (I)
- The 2 side clamps connect upper & bottom containers • 20'-40' containers are locked by the side clamps
- Indication lamps for alignment / locked container (I+II)
- Large sideshift of ±600 mm (total stroke 1200 mm)
- Spring loaded floating vertical heads (0-250 mm)
- Safety locking, alignment pins & sensors (4x)
- Lowering interrupt sensors for safe handling
- Electronic System
- OLS1, Over Loading System, monitoring lift with speed limit (pop-up)
- Electronic weight scale in main display
- · Speed limit outside drive position (ED)
- Dynamic speed limits on 2 load levels (ED)
- Electrical System 24V • Battery box 2x12V & main power switch
- Electric service box on chassis (LHS)
- 2 working LED-lights on spreader carriage (lift head) • 2 working LED-lights on spreader on end beams
- 2 working LED-lights on mast
- 2 working LED-lights front on fenders (head beam)
- 2 working LED-lights rear below cabin (in reverse)
- 2 position LED-lights on each side of the truck
- 2 tail / brake LED-lights rear in counter weight • 4 blinker LED-lights (front - rear / left - right)
- 2 flashing LED-brake lights (when reversing)
- 1 rotating warning LED-beacon
- Buzzer when reversing (reverse alarm)

Cabin (EGO)

Structure

- Spacious, modern cabin with good ergonomy level
- Large windows, good visibility, in all directions
- Instep handle (left side)
- Sliding window on both sides
- Doors with air damper and key lock (L + R) Tinted laminated windows

Comfort

- Seat Kalmar, mech. spring, high back
 Adjustable armrest (RHS) & 2-point safety belt
- Inside rear view mirror (right side) Interior lights with fade away function
- Fully adjustable steering wheel incl tilt function
- Fully adjustable colour display Electric adjustable operational console with joystick.
- operational buttons & armrest (RHS) Power steering wheel with steer knob
- Electric horn
- LED background light for buttons & switches Controls
- Electronic lift levers for mast & spreader functions
- Button for forward-neutral-reverse on 1st lift lever Auto rev-up accelerator at lifting / tilting / spreader
- Electric accelerator pedal • Double brake pedals (L + R)
- Gear lever with electronic hand brake (on/off)
- Automatic gear shifting (P1)
- Multi-function lever LHS (parking brake and gear/
- direction switch) Combined horn and blinker lever
- Warning hand brake (on/off) leaving seat

• ECH, electronic controlled heating/ventilation

Interval wiper functions on front, rear and roof

- Fresh air and recirculation filter
- · Wipers/washers on front, rear and roof windows
- Tinted windows

Information systems

- CECS 2.0 Kalmar intelligent control system
- HMI based on TFT-display 4,3" (109 mm)

Colour display DM430E (automatic fault analysis) Menu control with toggle wheel & push buttons ECO Drive Modes (EDM):

- Power mode
- Normal mode (default setting)
- Economy mode
- Operator menu: - System voltage
- Actual gear
- Engine rpm
- Travelling speed (km/h or m/h) Combined hydraulic and brake oil temperature
- Transmission oil temperature
- Engine oil pressure (Volvo) Engine oil pressure only (Cummins)
- Engine coolant temperature Clock and date
- Operating time (hours)
- Service time indicator (hours)
- Electronic weight scale functions
- Status of heating system & AC system - Fuel level (diesel and optional AdBlue)
- Est. operating time before empty tank (hour/min)
- Service indicator Container counter with reset function
- Trip computer / statistics Head-Up display for twistlock indication:
 - LED indicators for alignment & container(s)
 - Various warning lights & signals: Charging battery
 - Low brake pressure Failure indicator
 - High engine coolant temperature

- Hydraulic and brake oil temperature

- Low engine coolant level (not on Cummins) - Low engine oil pressure
- Preheating engine
- Transmission oil temperature - Low fuel level (incl AdBlue)
- Low washer fluid level
- Indicator lamps: - Head beam
- Direction indication - Parking brake
- Fleet Management

- Equipped with telemetric hardware for Kalmar Insight

- Cabin: Iron-Grey RAL 7011
- Chassis, tanks & mudguards: Red RAL 3000 Boom, attachment & axles: Black RAL 7021
- Rims: Iron-Grey RAL 7011

Documentation and Decals

Load chart diagram inside cabin

- Machine data sign on chassis incl. load chart
- Warning, tyre pressure & oil pressure stickers Information & levers/joystick stickers
- Fuse diagram
- Instruction manual • Maintenance manual
- · Spare parts catalogue



Optional.

Kalmar DCG80-110

Kalmar DCG80-110, E4-E8 // Empty Container Handlers // 8 - 11 tonnes (EU3 / Tier 3, EU4 / Tier 4 or EU5)

- Chassis ES Empty Single Stacker
- DCG 80-45 ES (L3=4550 mm)
 DCG 90-45 ES (L3=4550 mm)
- DCG 100-45 FS (L3=4550 mm)
- DCG 110-45 ES (L3=4550 mm) Chassis - ED Empty Double Stacker
- DCG 110-45 ED (L3=4550 mm)

- Lift Mast
- Duplex E4 (4-high 8'6" / 4-high 9'6") • Duplex E5 (5-high 8'6" / 5-high 9'6")
- Duplex E6 (6-high 8'6" / 5-high 9'6" • Duplex E7 (7-high 8'6" / 6-high 9'6"
- Duplex E8 (8-high 8'6" / 7-high 9'6" • Triplex E6 (6 of 8'6" / 5 of 9'6") max 10 T
- Triplex F7 (7 of 8'6" / 6 of 9'6") max 10 T Container checker device in carriage

- Structure • Low mounted cabin (LCM) with dual access stair-
- ways & upper platforms High mounted cabin (HCM), +600 mm, improved
- visibility, dual access stairways & upper platforms Hydraulic tilting cabin (stroke 10 degrees)

• Globetrotter cabin, +200 mm, ledge mount windows Safety cage to protect cabin from falling cargo

Controls

- Comfort Various seat alternatives
- Head rest for the seat
- Armrest with adjustment (LHS) • Horizontal dampening/suspension of seat
- Extra trainer seat incl 2-p safety belt (LHS) Bracket for terminal and monitor (RHS)
- Writing pad, A4 paper box and reading lamp (RHS) Extra rear view mirror (inside cabin / left side)
- Lever steering incl switch for forward/reverse Mini-wheel steering incl switch for forward/reverse
- Only second gear activated (P3) • Safety override for hydraulic functions (by code)
- Climate Flectronic Climate Control (ECC)
- Microfilter in additional to std filter • AC/ECC switched off when door is open
- Sun visor front window (black net) • Sun visor roof window (black net) • Sun visor rear window (black net) Sun visor roof window (reflective film)

Extra cabin heater (incl. 1 x 220V outlet)

Medium Performance (MP)

- DANA TE-14300 (3+3 gears) for all MP drive lines • Cummins QSB-6.7-C220 (EU3 / Tier 3, 164 kW,
- 949 Nm. 6.70 L 6-cvl) Volvo TAD-850-VE (EU3 / Tier 3, 160 kW.
- 1060 Nm, 7.70 I, 6-cyl)
- High Performance (HP) • DANA LTE-14400 (4+4 gears + Lock-Up) for all HP drive lines

 • Volvo TAD-851-VE (EU3 / Tier 3, 185 kW,
- 1160 Nm, 7.70 l, 6-cyl)

 Volvo TAD-871-VE (EU4 / Tier 4F, 185 kW,
- 1160 Nm, 7.70 I, 6-cyl) • Volvo TAD-881-VE (EU5, 185 kW,
- 1160 Nm, 7.70 I, 6-cyl)
- Auto engine & ignition stop, after 5 min idle

Air intake filter, with Pre-Cleaner, raised air intake Start/stop function (for Volvo engine only)

- Stronger/wider drive axle, Kessler D91, 4500 mm
- Hvdraulic mast accumulator (shock dampening) Mast tilt angles +3 / -6 deg (FW / BW) • Mast tilt angles +2 / -3 deg (FW / BW)

Hydraulic longlife fine filter with by-pass (3 my) Block valve mounted on lift cylinders

- Anti slip protection on fenders and tanks
- Mud flaps in rubber (rear) • Noise insulation kit for complete truck (1-3 dB)

Mud flaps in steel + rubber (front)

- **Electronic System and Settings**
- OLS3, Over Loading System, cut lift with speed limit (pop-up) Lift height limitation

• Speed limit over defined lift height (specify height)

- Lift height warning over defined height (specify height) • Speed limitation (specify speed)
- Speed limit outside drive position (ES) • Dynamic speed limit depending of lift height
- Dvnamic speed limit on 2 load levels (ES)
- **Electrical System 24V** • 2 extra working LED-lights on mudguard

• 2 extra working LED-lights on mast

Electric air pressure horn

- 4 extra working LED-lights on mudguard • 2 extra working LED-lights on cabin roof · 4 extra working LED-lights on cabin roof
- 6 extra working LED-lights on cabin roof 8 extra working LED-lights on cabin roof
- 2 extra working LED-lights on carriage • 2 extra reverse LED-lights on counter weight
- 1 extra warning LED-beacon the top of the mast 1 extra entrance LED-lights on left stairway + buttor • 2 el. heated mirrors on front mudguards (std pos.) • 2 el. heated & adjustable mirrors on front mudguards

• 2 x 24V sockets and 2 x 5V / USB sockets in cabin

 Radio with MP3, Bluetooth, speakers (24V) • DAB-Radio with CD, MP3, Bluetooth, speakers (24V) • 2 x 24V sockets and 2 x 12V sockets in cabin

- Automatic extension 20'-30'-40' stop
- Soft landing by inductive sensor (on twistlocks only)
- Hydraulic Pile Slope by cylinders (HPS ±5 deg), the MPS with 0-250 mm end beam levelling is included
- All trucks has full lifting capacity with MPS & HPS Available for both single and double stackers

- Attachment (Single Stacker) • Twistlock spreader for wide body (TWL-WTP)
- Spreader standard / wide body container
- Standard / wide body containers are 8' / 8,5' wide 2 lift heads with Wide Twistlock Position (WTP) Hydraulic moveable twistlocks (stroke 76 mm/3")

Attachment (Double Stacker)

- Hook, clamp & safety wedge double spreader Lift heads with lift hook and hydraulic side clamp
- Hydraulic safety wedge for bottom container lock Active safety locking of 45'-53' single containers

• 45'-53' containers are locked by safety wedge (SW)

- C-hook spreader with optimised visibility • Dedicated Hydraulic Pile Slope (HPS) is included,
- no mechanical end-beam leveling is included Side lift with hydraulic extension 20'-40' • 20'-40' containers are locked by the side clamps
- Indication lamps for alignment / locked container (I+II) • Large sideshift of ±600 mm (total stroke 1200 mm)
- Safety locking, alignment pins & sensors (4x) Lowering interrupt sensors for safe handling
- Steer Axle (rear) Wheel nut protection on steer tires Steer cylinder spacer
- Spare wheel & rim 12.00×24" of various brands
- Spare wheel & rim 14.00×24" of various brands
- **Additional equipment** • Reverse display inside cabin (7"/17 cm) • Reverse camera connected to display in cabin
- Spreader cameras (2x) connected to display in cabin • Reverse warning system (camera, display & sensors)
- Tyre pressure monitoring system (Bluetooth) Diesel powered cabin heater 5 kW Alcolock Draeger in cabin
- Semi-automatic fire suppression system (DAFO) • Fire extinguisher 5-6 kg, powder
- Lockable fuel cap Cabin heater incl 220V outlet
- Engine heater incl cab heater • Engine/hydraulic oil heater incl cab heater • Central greasing base machine Central greasing spreader
- Chain greaser with replaceable cartridge Kalmar Insight solutions Tool kit or filter kit 2000 hrs

Fleet Management

 Soft landing function with ultrasonic sensor (only for single stacking spreader)

• Kalmar Insight licence (only in certified countries)

- Kalmar Insight Driver Monitor (RFID reader + 10 unique driver tags) Kalmar Insight extra monitoring tags
- Colour (specify RAL number) • Other colour than standard - on chassis

Other colour than standard - on cabin

• Other colour than standard - on rims

Contact Kalmar Training Centre for training programs

• Reinforced anti-corrosion protection (extra primer)

TECHNICAL INFORMATION

1	Truck Model					DCG80-45ES			
2	Stacking model and height			ES4/4	ES5/5	ES6/5	ES7/6	ES8/7	
	Type of handling					Single Stackers			
4	Lifting capacity, with MPS or with HPS (1*)	Q1	(kgs)	8000	8000	8000	8000	8000	
5	Stacking height, no. of containers (8'6" / 9'6")			4/4	5/5	6/5	7/6	8/7	
MANDATES 9 6	Spreader locking type, standard / optional			Standard: Twistlocks / optional: Twistlocks + WTP (76 mm)					
7	Spreader type, extension stops, sensors							•	
8	Wheelbase	L3	(mm)		,	4550			
9	Load centre, front of tyres, with MPS or HPS (2*)	L2	(mm)	1210 to 1280					
10	Lost load centre, to front face of tyres	X	(mm)	700					
_			. ,						
_	Service weight, with MPS or HPS (2*)		(kgs)	33300/34400	34700/35800	35300/36400	36800/37900	38300/39400	
o 12	Axle load, front unloaded - rated load MPS		(kgs)	20900/33100	22400/34700	23100/35300	24700/37000	26400/38600	
12 13 14	Axle load, front unloaded - rated load HPS (2*)		(kgs)	22200/34400	23700/36000	24400/36700	26100/38400	27700/40000	
≤ 14	Axle load, rear unloaded - rated load MPS		(kgs)	12400/8200	12300/8000	12200/7900	12100/7800	11900/7600	
15	Axle load, rear unloaded - rated load HPS (2*)		(kgs)	12200/7900	12100/7700	12000/7600	11800/7500	11700/7300	
16	Tyres, type, design, thread depth				Pne	umatic / Diagona	I / E4		
17	Tyres, dimension (front + rear)		(in)	Standard: 12.00x24" / Optional: 14.00x24"					
₀ 18	Rims, dimension (front + rear)		(in)	Standard: 8.50x24" / Optional: 10.00x24"					
19	No. of wheels, front - rear (*driven), pressure		(MPa)	4* - 2	4* - 2	4* - 2	1	.0	
20	Track width (front - rear)				Standard: 3270	0 - 2450 / Option	al: 3270 - 2400		
21	Truck width drive axle, standard / optional	В/В	(mm)	Standard: 4050 (12.00x24") / Optional 4100 (14.				24")	
22	Drive axle (ND = Normal Duty / HD = Heavy Duty)					D81-ND			
- 00	Life was to the state of the law and all also				Duralas / O as	to an A O and in allows	/ O lift abains		
_	Lift mast, type, stage, cylinders and chains		Duplex / 2-stage / 2 cylinders / 2 lift chains Standard: 3-3 / optional: 3-6 or 2-3						
	Mast tilt, forward – backward,standard / optional	alfa-beta	(deg)	== 40 40040					
25	Lift mast height, min - max	H3 - H5	(mm)	7040 - 12040	8540 - 15040		10290 - 18540		
26	Lift height, min - max in twistlocks / lift hooks	H10 - H4	(mm)	2240 - 12240		2240 - 16240		2240 - 21240	
_	Height cabin roof, standard / optional	H6	(mm)	Standard: 3940 / optional: 4540					
28	Seat index point (height)	H8	(mm)	Standard: 2800 / optional: 3400					
28 29 30	Truck length with spreader, MPS / HPS	L	(mm)	6900/6950					
30	Spreader width, twistlocks / hooks, (min - max))	Va - Vb	(mm)	6085-12220					
31	Spreader sideshift, stroke both directions (total)	V1	(mm)	± 600 (1200)					
32	Spreader levelling, MPS / HPS, standard / optional		(mm/deg)	Standard: 0 - 250 / optional: HPS: ± 5 (incl MPS)					
33	Ground clearance		(mm)	250					
34	Aisle width, with 20' - 40' container	A1 - A2	(mm)	10600/14200					
35	Turning radius, inner / outer 20' / outer 40'	R1-R2-R3	(mm)	1150 / 6750 / 9350					
36	Engine type, design				Diesel / 4	-stroke / turbo /	ntercooler		
37	Drive line - performance levels			MP	Medium Perform	ance	HP High P	erformance	
38	Engine, power / torque, (min - max)		(kW/Nm)		164 / 949		185 /	1160	
39	Fuel consumption, average diesel / AdBlue (3*)		(L/h-%)		5 - 15 / 1 - 5			/1-5	
40	Travel speed, fwd / rev (unloaded - at rated load)		(km/h)	24 - 24 / 22 - 22 25 - 25 / 25					
_	Gradeability, max / 2 km/h (unloaded - at rated load)		(%)		29 - 22 / 24 - 19			/ 33 - 27	
42	Lifting speed, unloaded - at 70% of rated load		(m/s)		0,55 - 0,50			0,65 - 0,60	
⋛	Lowering speed, unloaded - at rated load		(m/s)					,55 - 0,60 with Lock-Up	
44	Transmission, gears forward / reverse		(1100)						
45	Transmission type, function, safety					oowershift / revers			
46	Drive axle type, service brakes (drive wheels)			D			led wet disc brak	es	
	Drive axle, parking brake, brake release					dry disc / hydrai			
	Steer axle type, design, function				= =				
40	and type, design, function			Heavy-duty / single cylinder / power steering					
_	Hydraulic system, type			Load	d-sensing (power	-on-demand) / w	orking & brake oil	tank	
50	Tank volumes, diesel - AdBlue (3*) - oil		(dm³)			380 / 153 / 320			
50 51	Noise, inside LpAZ / outside LwAZ (EDM's)		(dB(A))	63 - 67 / 103 - 107					
	Overload System with warning OLS1 + OLS3			Standard: OLS1 (lift monitor) / Optional: OLS3 (lift cut-off + tilt monitor)					

		DCG90-45ES			DCG100-45ES						
ES4/4	ES5/5	ES6/5	ES7/6	ES8/7	ES4/4	ES5/5	ES6/5	ES7/6	ES8/7		
	Single Stackers						Single Stackers				
9000	9000	9000	9000	9000	10000	10000	10000	10000	10000		
4/4	5/5	6/5	7/6	8/7	4/4	5/5	6/5	7/6	8/7		
St	andard: Twistlock	s / optional: Twistle	ocks + WTP (76 m	ım)	St	andard: Twistlock:	s / optional: Twistle	ocks + WTP (76 m	ım)		
Sidelift, 20' + 40' stops, alignment & interrupt sensors						Sidelift, 20' + 40' stops, alignment & interrupt sensors					
4550							4550				
1210 to 1280							1210 to 1280				
700					700						
35300/36400	36700/37800	37300/38400	38800/39900	40300/41400	38000/39100	39400/40500	40000/41100	41500/42600	43000/4410		
21400/35200	22900/36700	23600/37400	25200/39000	26900/40700	22300/37700	23800/39200	24500/39900	26200/41500	27800/4320		
22700/36600	24200/38100	24900/38800	26500/40300	28200/42000	23600/39100	25100/40600	25800/41200	27500/42900	29100/4450		
13900/9100	13800/9000	13700/8600	13600/8800	13400/8600	15700/10400	15600/10200	15500/10200	15400/10000	15200/9900		
13700/8800	13600/8700	13500/8600	13400/8600	13200/8400	15500/10100	15400/9900	15300/9900	15100/9700	15000/9600		
	Pne	eumatic / Diagonal	/ F4			Pne	umatic / Diagonal	/ F4			
	1110	14,00x24"	,			1110	14,00x24"	,, ,,			
		10,00x24"					10,00x24"				
4* - 2	4* - 2	4* - 2	1	.0	4* - 2	4* - 2	4* - 2	1	.0		
		'0 - 2450 / Option:					0 - 2450 / Option				
		ard: 4100 / Option					ard: 4100 / Option				
		D81-ND / Option			Standard: 41007 Optional: 4000						
						D / 0	t / O !'	/ O I'M - In - I'm			
		stage / 2 cylinders			Duplex / 2-stage / 2 cylinders / 2 lift chains Standard: 3-3 / optional: 3-6 or 2-3						
7400 40400		ard: 3-3 / OPT: 3-6		11000 01100	7100 10100				11600 0110		
7100 - 12100	8600 - 15100	9100 - 16100	10350 - 18600	11600 - 21100	7100 - 12100 2300 - 12300	8600 - 15100 2300 - 15300	9100 - 16100 2300 - 16300	10350 - 18600 2300 - 18800	11600 - 2110 2300 - 2130		
2300 - 12300	2300 - 15300 Standa	2300 - 16300	2300 - 18800	2300 - 21300	2300 - 12300		ard: 4000 / optiona		2300 - 21300		
		ard: 4000 / options				Standard: 2860 / optional: 3460					
	Starius	ard: 2860 / optiona 6900/6950	ai. 3400		6900/6950						
		6085-12220			6085-12220 ± 600 (1200) Standard: 0 - 250 / optional: HPS: ± 5 (incl MPS) 300 10850/14350 1250 / 7000 / 9700						
		± 600 (1200)									
	Standard: 0 - 2	250 / optional: HPS	S: + 5 (incl MPS)								
	otaridard. 0 2	300	5. ± 5 (ii loi lvii 6)								
		10850/14350									
		1250 / 7000 / 970	0								
					Diesel / 4-stroke / turbo / intercooler						
MD		4-stroke / turbo / ii			MP Medium Performance MP High Performance HP High Performance						
MP	Medium Performa	ance	_	erformance	O						
	164 / 949			1160	164 / 949 185 / 1						
	5 - 15 / 1 - 5 24 - 24 / 22 - 22			/ 1 - 5 / 25 - 25	5 - 15 / 1 - 5 5 - 15 / 1 - 24 - 24 / 22 - 22 25 - 25 / 25 -						
	29 - 22 / 24 - 19			/ 33 - 27					/ 33 - 27		
	0,55 - 0,50			- 0,60							
	0,50 - 0,60			- 0,60	0,50 - 0,60				0,65 - 0,60 0,55 - 0,60		
	3+3			Lock-Up	3+3 4+4 with Lock						
		powershift / revers		r Look op	Automatic powershift / reverse protection						
			•	3	Differential / hub reduction /oil-cooled wet disc brakes						
Differential / hub reduction / oil-cooled wet disc brakes Single big dry disc / hydraulic release					Single big dry disc / hydraulic release						
Heavy-duty / single cylinder / power steering							single cylinder / p				
				1-	1				onle		
Lo	au-sensing (powe		orking & brake oil t	ank	Load-sensing (power-on-demand) / working & brake oil tank						
		380 / 15 ³ / 320	7		380 / 15³ / 320 63 - 67 / 103 - 107						
		63 - 67 / 103 - 10									
Standar	d: OLS1 (lift monit	tor) / Optional: OL:	S3 (lift cut-off + tilt	monitor)	Standard: OLS1 (lift monitor) / Optional: OLS3 (lift cut-off + tilt monitor)						

Notes:

1) MPS = Full lifting capacity with MPS (8-9-10-11 tons).

HPS = Full lifting capacity with HPS incl MPS (8-9-10-11 tons).

Except DCG110-45ED87, 10 tons at 8/7-high.

2) MPS = Mechanical Pile Slope in end beams - by gravity.

HPS = Hydratulic Pile Slope by 2 cylinders incl. MPS.

3) On EU3 (EPA T3) engines there is no AdBlue/DEF package included.

On EU4 (EPA T4F) engines AdBlue/DEF package is included.

On EU5 (EPA T4F) engines AdBlue/DEF package is included.

TECHNICAL INFORMATION

1	Truck Model					DCG100-45ED			
2	Stacking model and height			ED4/4	ED5/5	ED6/5	ED7/6	ED8/7	
3	Type of handling					Double Stackers			
4	Lifting capacity, with MPS or with HPS (1*)	Q1	(kgs)	10000	10000	10000	10000	10000	
5	Stacking height, no. of containers (8'6" / 9'6")			4+1/4+1	5+1/5+1	6+1/5+1	7+1/6+1	8+1/7+1	
6	Spreader locking type, standard / optional			Star	dard: Hooks + C	Clamps / optional:	STD + Safety We	edge	
7	Spreader type, extension stops, sensors		S	idelift, 20' + 40'	stops, alignment	& interrupt sensor	rs		
8	Wheelbase	L3	(mm)			4550			
9	Load centre, front of tyres, with MPS or HPS (2*)	L2	(mm)			1210 to 1280			
10	Lost load centre, to front face of tyres	X	(mm)			700			
11	Service weight, with MPS or HPS (2*)		(kgs)	38400/39500	39800/40900	40400/41500	41900/43000	43400/4450	
	Axle load, front unloaded - rated load MPS		(kgs)	22800/38100	24300/39700	25000/40300	26600/42000	28300/4380	
	Axle load, front unloaded - rated load HPS (2*)		(kgs)	24100/39500	25600/41100	26300/40800	27900/43400	29600/4510	
	Axle load, rear unloaded - rated load MPS		(kgs)	15600/10300	15500/10100	15400/10100	15300/9900	15100/9700	
	Axle load, rear unloaded - rated load HPS (2*)			15400/10000	15300/10100	15200/9700	15100/9600	14900/9400	
13	Axie load, real dilloaded - fated load Fir 3 (2)		(kgs)	13400/10000				14900/9400	
16	Tyres, type, design, thread depth				Pne	umatic / Diagonal	/ E4		
17	Tyres, dimension (front + rear)		(in)			14,00x24"			
18	Rims, dimension (front + rear)		(in)	10,00x24"					
19	No. of wheels, front - rear (*driven), pressure		(MPa)	4* - 2			1.0		
20	Track width (front - rear)	ack width (front - rear) S1 - S2 (mm) Standard: 3270 - 2400 / Op				nal: 3780 - 2400	3780-2400		
21	Truck width drive axle, standard / optional	B/B	(mm)	Standard: 4100 / Optional: 4600			Standard: 4600		
22	Drive axle (ND = Normal Duty / HD = Heavy Duty)			D91-HD		D91	-HD		
23	Lift mast, type, stage, cylinders and chains				Duplex / 2-s	tage / 2 cylinders	/ 2 lift chains		
24	Mast tilt, forward – backward, standard / optional	alfa-beta	(deg)		Standard	d: 3-3 / optional: 3	3-6 or 2-3		
25	Lift mast height, min - max	H3 - H5	(mm)	7040 - 12040	8600 - 15100	9100 - 16100	10350 - 18600	11600 - 2110	
1000000000	Lift height, min - max in twistlocks / lift hooks	H10 - H4	(mm)	2240 - 12240	2300 - 15300	2300 - 16300	2300 - 18800	2300 - 2130	
	Height cabin roof, standard / optional	H6	(mm)		Standa	ırd: 4000 / option:	al: 4600		
28	Seat index point (height)	H8	(mm)	Standard: 2860 / optional: 3460					
29	Truck length with spreader, MPS / HPS	L	(mm)	6900/6950 6615-12750 ± 600 (1200)					
30	Spreader width, twistlocks / hooks, min - max	Va - Vb	(mm)						
	Spreader sideshift, stroke both directions (total)	V1	(mm)						
	Spreader levelling, MPS / HPS, standard / optional		(mm/deg)	` '					
	Ground clearance		(mm)	300					
	Aisle width, with 20' - 40' container	A1 - A2	(mm)	10850/14350					
35		R1-R2-R3	(mm)	1250 / 7000 / 9700					
-	Tarring radias, initial 7 Sator 25 7 Sator 45	TTTTLETTO	(1111)						
36	Engine type, design					-stroke / turbo / i			
37	F			MP	Medium Perform	ance		erformance	
38	Engine, power - torque, min / max		(kW/Nm)		164 / 949		185 / 1160		
39	Fuel consumption, average diesel / AdBlue (3*)		(L/h-%)	5 - 15 / 1 - 5 5 -			5 - 15	/1-5	
40	Travel speed, fwd / rev (unloaded - at rated load)		(km/h)		24 - 24 / 22 - 22	2	25 - 25 / 25		
41	Gradeability, max / 2 km/h (unloaded - at rated load)		(%)		29 - 22 / 24 - 19	9		37 - 30 / 33 - 27	
42	Lifting speed, unloaded - at 70% of rated load		(m/s)		0,55 - 0,50		0,65	0,65 - 0,60	
43	Lowering speed, unloaded - at rated load		(m/s)		0,50 - 0,60		0,55 - 0,60		
44	Transmission, gears forward / reverse				3 + 3		4 + 4 with Lock-Up		
45	Transmission type, function, safety				Automatic p	oowershift / revers	se protection		
46	Drive axle type, service brakes (drive wheels)			D	ifferential / hub re	eduction /oil-cool	ed wet disc brake	es	
47	Drive axle, parking brake, brake release				Single big	g dry disc / hydrau	ulic release		
48	Steer axle type, design, function				Heavy-duty /	single cylinder / p	ower steering		
49	Hydraulic system, type			Load-sensing (power-on-demand) / working & brake oil tank					
	Tank volumes, diesel - AdBlue (3*) - oil		(dm³)	380 / 15 ³ / 320					
	Noise, inside LpAZ / outside LwAZ (EDM's)		(dB(A))	63 - 67 / 103 - 107					
อา	,		/ A A)	Standard: OLS1 (lift monitor) / Optional: OLS3 (lift cut-off + tilt monitor)					

		DCG110-45ES			DCG110-45ED						
ES4/4	ES5/5	ES6/5	ES7/6	ES8/7	ED4/4	ED5/5	ED6/5	ED7/6	ED8/7		
		Single Stackers			Double Stackers						
11000	11000	11000	11000	11000	11000	11000	11000	11000	11000		
4/4	5/5	6/5	7/6	8/7	4+1/4+1	5+1/5+1	6+1/5+1	7+1/6+1	8+1/7+1		
St	tandard: Twistlocks	s / optional: Twistl	ocks + WTP (76 m	nm)	Standard: Hooks + Clamps / optional: STD + Safety Wedge						
	Sidelift, 20' + 40'	stops, alignment	& interrupt sensors	3	Sidelift, 20' + 40' stops, alignment & interrupt sensors						
		4550					4550				
		1210 to 1280			1210 to 1280						
		700					700				
39700/40800	41200/42200	41700/42800	43200/44300	44700/45600	40100/41200	41500/42600	42100/43200	43600/44700	45100/46200		
22200/39100	23800/40600	24400/41300	26100/42900	27700/44600	22700/39600	24200/41100	24900/41800	26500/43400	28200/45100		
23500/40500	25100/42000	25700/42700	27400/44300	29000/46000	24000/41000	25500/42500	26200/43200	27900/44800	29500/46500		
17500/11600	17400/11500	17300/11400	17100/11300	17000/11100	17400/11500	17300/11400	17200/11300	17100/11200	16900/11100		
17300/11300	17100/11200	17100/11000	17100/11000	16800/11100	17200/11200	17100/11100	17000/11000	16800/10900	16700/10700		
	Pne	umatic / Diagona	I / E4			Pne	eumatic / Diagonal	/ E4			
	1110	14,00x24"				1110	14,00x24"	, L			
		10,00x24"					10,00x24"				
	4* - 2	10,00224	1	.0		4* - 2	10,00024	1	.0		
		0 - 2400 / Option		.0	Standard: 327	0 - 2400 / Optiona	al: 3780 - 2400		3780-2400		
		rd: 4100 / Option							d: 4600		
		Standard: D91-H			Standard: 4100 / Optional: 4600 Standard: D91-HD D91-H						
									110		
	•	tage / 2 cylinders			Duplex / 2-stage / 2 cylinders / 2 lift chains						
		d: 3-3 / optional: 3					d: 3-3 / optional: 3				
7100 - 12100	8600 - 15100	9100 - 16100	10350 - 18600	11600 - 21100	7040-12040	8600-15100	9100-16100	10350-18600	11600-21100		
2300 - 12300	2300 - 15300	2300 - 16300	2300 - 18800	2300 - 21300	2240-12240	2300-15300	2300-16300	2300-18800	2300-21300		
		ard: 4000 / option				Standard: 4000 / optional: 4600 Standard: 2860 / optional: 3460					
	Standa	ard: 2860 / option	al: 3460			Standa		al: 3460			
		6900/6950			6900/6950						
		6085-12220			6615-12750						
	04	± 600 (1200)	O F (51 MDO)		± 600 (1200)						
	Standard: 0 - 2	50 / optional: HP	5; ± 5 (INCLIVIPS)		Standard: 0 - 250 / optional: HPS: ± 5 (incl MPS) 300						
		300			10850/14350						
		10850/14350 1250 / 7000 / 970	00		1250 / 7000 / 9700						
		1230770007970	,0								
	Diesel / 4	1-stroke / turbo / i	ntercooler		Diesel / 4-stroke / turbo / intercooler						
	Н	P High Performar	nce		HP High Performance						
		185 / 1160			185 / 1160						
		5 - 15 / 1 - 5			5 - 15 / 1 - 5						
		25 - 25 / 25 - 25			25 - 25 / 25 - 25						
		37 - 30 / 33 - 27			37 - 30 / 33 - 27						
		0,56 - 0,56			0,56 - 0,56						
		0,55 - 0,55			0,55 - 0,55						
		4 + 4 with Lock-U	•		4 + 4 with Lock-Up						
	•	oowershift / revers			Automatic powershift / reverse protection						
			ed wet disc brakes		Differential / hub reduction /oil-cooled wet disc brakes						
		g dry disc / hydrau single cylinder / r			Single big dry disc / hydraulic release						
	neavy-duty /	single cylinder / p	ower steering		Heavy-duty / single cylinder / power steering						
Loa	ad-sensing (power	r-on-demand) / w	orking & brake oil t	ank	Load-sensing (power-on-demand) / working & brake oil tank						
		380 / 153 / 320			380 / 15 ³ / 320						
	(63 - 67 / 103 - 10)7		63 - 67 / 103 - 107						
Standar	rd: OLS1 (lift monit	or) / Optional: OL	S3 (lift cut-off + tilt	monitor)	Standard: OLS1 (lift monitor) / Optional: OLS3 (lift cut-off + tilt monitor)						

Notes:

1) MPS = Full lifting capacity with MPS (8-9-10-11 tons).

HPS = Full lifting capacity with HPS incl MPS (8-9-10-11 tons).

Except DCG110-45ED87, 10 tons at 8/7-high.

2) MPS = Mechanical Pile Slope in end beams - by gravity.

HPS = Hydraulic Pile Slope by 2 cylinders incl. MPS.

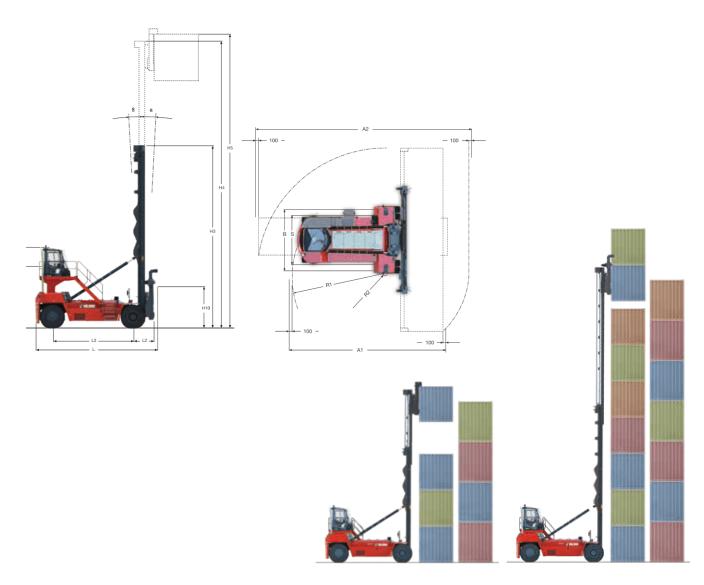
3) On EU3 (EPA T3) englines there is no AdBlue/DEF package included.

On EU4 (EPA T4F) englines AdBlue/DEF package is included.

On EU5 (EPA T4F) englines AdBlue/DEF and DPF filter package is included.

DRIVE LINES

Truck Models		Medium Performance (MP)	High Performance (HP)				
Engine emission approvals		EU3 / Tier 3	EU3 / Tier 3	EU4 / Tier 4F	EU5		
Engine emission brand/series		Cummins QSB	Volvo / D8	Volvo / D8	Volvo / D8		
Engine model		QSB-6.7-C220	TAD-851-VE	TAD-871-VE	TAD-881-VE		
Engine after treatment type		No SCR / no AdBlue	No SCR / no AdBlue	With SCR / with AdBlue	With SCR / with AdBlue		
		No particle filter	No particle filter	No particle filter	With particle filter		
Engine design / cylinders		6-inline / common rail		6-inline / common rail			
Engine displacement	(dm3)	6.700	7.700				
Max power @ engine speed (k		164 @ 2.000	185 @ 1.500-2.100				
Max torque @ engine speed (Nm)		949	1.160				
Max engine speed	(rpm)	2.100	1.800				
Fuel consumption – average diesel	(I/h)	5-15		5-15			
Fuel consumption – average adblue	(%)	-	-	1 - 5	1 - 5		
Transmission model (gears FWD + RVS)		Dana TE-14300 (3+3)	Da	na TE-14400-L (4+4) with loo	ck-up		
Transmission gear shift type		Automatic powershift		Automatic powershift			
Transmission clutch type		Torque converter		Torque converter with Lock-	Up		
Drive axle brand / series		Kessler / D81 - D91 (WDB)	Kessler / D81 - D91 (WDB)				
Service brake / cooling	Service brake / cooling		1	ing			
Steer axle brand / series		Kalmar / single cylinder / extra wide	Kalmar / single cylinder / extra wide				
Alternator, power	(W, V * A)	AC, 1680 (28 x 60)	AC, 3640 (28 x 130)				



Information correct at time of publication and is subject to change.





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