

DRG420-1300





Optimising

UPTIME

With our latest generation of reachstackers, we've managed to boost performance once again with newly designed integrated components and improved operator interfaces. The result? Simplified maintenance, fewer faults, and a major increase in service intervals.

Improved component integration.

Kalmar's G-Generation reachstackers have taken a big leap forward in component integration and construction. For example, our new segmented wiring makes maintenance and replacement simpler and quicker. And with fewer exposed components there is less wear on wiring, hydraulics, and other connectors, improving the reliability and availability of your Kalmar Reachstacker.

Proactive monitoring.

Kalmar was the world's first manufacturer to use Can-bus technology as a standard, as it automatically locates failures, compensating with backup bus wires and connectors before the fault can affect your machine. Since an individual electrical component and its backup very rarely fail together, the result is a highly reliable self-correcting pro-active system.

Easier to service.

With all major service points accessible from the ground and an engine bay with removable top covers, you'll find it quicker and safer to perform routine checks and maintenance tasks on G-Generation reachstackers.

Longer service periods.

Our G-Generation reachstackers have longer service intervals than previous generations, elevating uptime and reducing costs. Combined with Kalmar's global service and after-sales network that is second to none, these improvements make our latest range of reachstackers a frontrunner in non-stop productivity.

tex

515848 B 4261

PART IN

UTAD



Keeping your drivers safe and comfortable is not only good for your drivers, it's also good for business. Which is why each of our G-Generation reachstackers is fitted with our ergonomically designed EGO cabin, giving your drivers a safer and more comfortable work environment. Here are some of the key elements designed to improve safety and comfort.



Improved visibility.

An open cabin design for optimised visibility at all angles. Smart profiles and curved windows combine to give exceptionally strong forward, diagonal, and rearward visibility. A range of optional cameras are availible that can be mounted in different positions on your reachstacker to improve the operator's visibility of their operating environment.



G-Generation joystick.

The G-Generation joystick with built-in gear knob is designed to improve driving efficiency. It is optimised for maximum lifting capacity and is ergonomically enhanced to reduce arm fatigue. There are also other optional joysticks available if required.

Adjustable multi-seat.

Fully integrated Kalmar seats have been carefully developed to ensure the best possible comfort and sitting posture for long shifts and demanding operations for your drivers. There are five seats to choose from so you will be sure to find one that suits your drivers' needs.

High-capacity wipers.

With over 90% curved windscreen drying surface, these wipers provide optimal visibility for higher productivity and safety when operating in the rain.

Comfort pedals.

A flexible and fail-safe pedal system with adjustable pedal angles is fitted as standard to minimise foot strain. It's a floor-based solution with a hanging pedal feel, so your drivers can drive a full shift and experience less foot and leg fatigue.

Climate package.

An electronic climate control system is fitted as standard to keep your operators as comfortable as possible in most conditions. Large air intakes mean easy filter replacement in the front, whilst a well-designed climate control system provides superior interior comfort.

Ergonomic steering wheel.

Our patented steering wheel has been specially engineered to reduce stress and increase productivity through careful testing. It is fully adjustable and can also be tilted at an angle to the side for comfortable manoeuvring in any situation.

Work console.

Your operator will find all the key controls, switches, and indicators within easy reach in our ergonomically designed cabin. Work consoles are also adjustable as we know that no two drivers are the same.

Intuitive interfaces.

Kalmar's colour user interface [HMI] used across the range has been intuitively designed for ease of use, with information displayed clearly and logically to ensure that your drivers are kept fully informed.

Enhanced safety.

To further enhance safety, your reachstacker can be fitted with extra cameras to see what is going on behind, additional lights for operating in limited light or at night, a fire suppression system in case of fire on board, and an alco-lock to make sure your drivers are always in complete control of their machine.



















Meet Gloria's FAMILY

The reliability, robustness and success of Gloria's platform has allowed us to extend our initial offering to meet a variety of material handling needs. Initially designed as a top loader, Gloria now comes in models that have been specifically designed for industrial, intermodal and barge handling applications. Gloria's family has been further expanded with the addition of the Kalmar Eco Reachstacker and the Kalmar Electric Reachstacker.



Including Super Gloria



	Ιοριπι	Daige	intermoual	LIIT HOOK	1001 Carrier
Gloria Range*	DRG450S	DRG450S	DRG450C	DRG570-1300Z	DRG500-650A
Eco Range	DRG450SE	DRG450SE	DRG450CE	DRG570-700ZE	DRG500-600AE
Electric				E	





The Kalmar Eco Reachstacker.

In comparison to older machines, Kalmar's Eco Reachstacker can reduce your fuel consumption by up to 40%, and by up to 25% when compared to more recent machines, cutting your fuel costs and emissions while matching the productivity levels of machines with much larger engines.

Find out how you can cut your fuel bills and emissions by up to 40% here.



The Kalmar Electric Reachstacker.

Kalmar's electrically powered range of reachstackers produce zero emissions at source helping to improve the eco-efficiency of your operations while maintaining the highest levels of productivity and safety. With a choice of lifting capacities, attachments, modular battery options and charging solutions, we can work with you to design a solution that will deliver for your business.

Find out more about our range of Electric Reachstackers here.

CUT COSTS

and lower carbon emissions

Whether you're striving to save on fuel or meet ever tougher emissions standards, your objectives are the same: to reduce costs and lower your carbon emissions. Thanks to our range of smart functions and driver training programmes, operators get all the assistance they need to minimise fuel costs while becoming more eco-efficient.

Use up to 20% less fuel.

Kalmar Eco Drive Modes can cut your fuel costs and emission by up to 20%. Kalmar's Eco Drive Mode solution has three different driving modes, each tailored to meet the needs of your business:

Power Mode:

for maximum performance.

Normal Mode:

Economy

reduces fuel costs and emission by

up to 10%. maximises your

savings with up to a 20% reduction in fuel consumption and carbon emissions.

Cut carbon emissions by up to 90%.

HVO100 fuel is a fossil free diesel substitute made from vegetable oil that can be used across the range, cutting carbon emissions by up to 90%. HVO100 is produced by using sustainably sourced vegetable and animal matter to ensure its production does not have any negative impact on the environment and has a chemical structure like diesel fuel, allowing it to be substituted for diesel without any impact on the efficiency of your equipment. HVO100 that meets the EN15940 standard is seen as the best and easiest paraffinic option available to help reduce your carbon emissions immediately.



Options to cut fuel costs.

There are many small optional things you can do to reduce your fuel consumption and emissions even further.



Start/stop function.

This option can automatically activate and deactivate the machine. In addition to reducing unnecessary emissions and extending the lifespan of components, this makes it possible to achieve up to 10% in fuel savings.



Tyre pressure monitoring.

This option provides an integrated tyre pressure monitoring system that gives your driver constant updates on the pressure of each individually monitored tyre. It's an effective way to prevent blowouts and maintain the optimal tyre pressure, further reducing your fuel consumption and emissions by up to 10%.



Automatic engine shutdown.

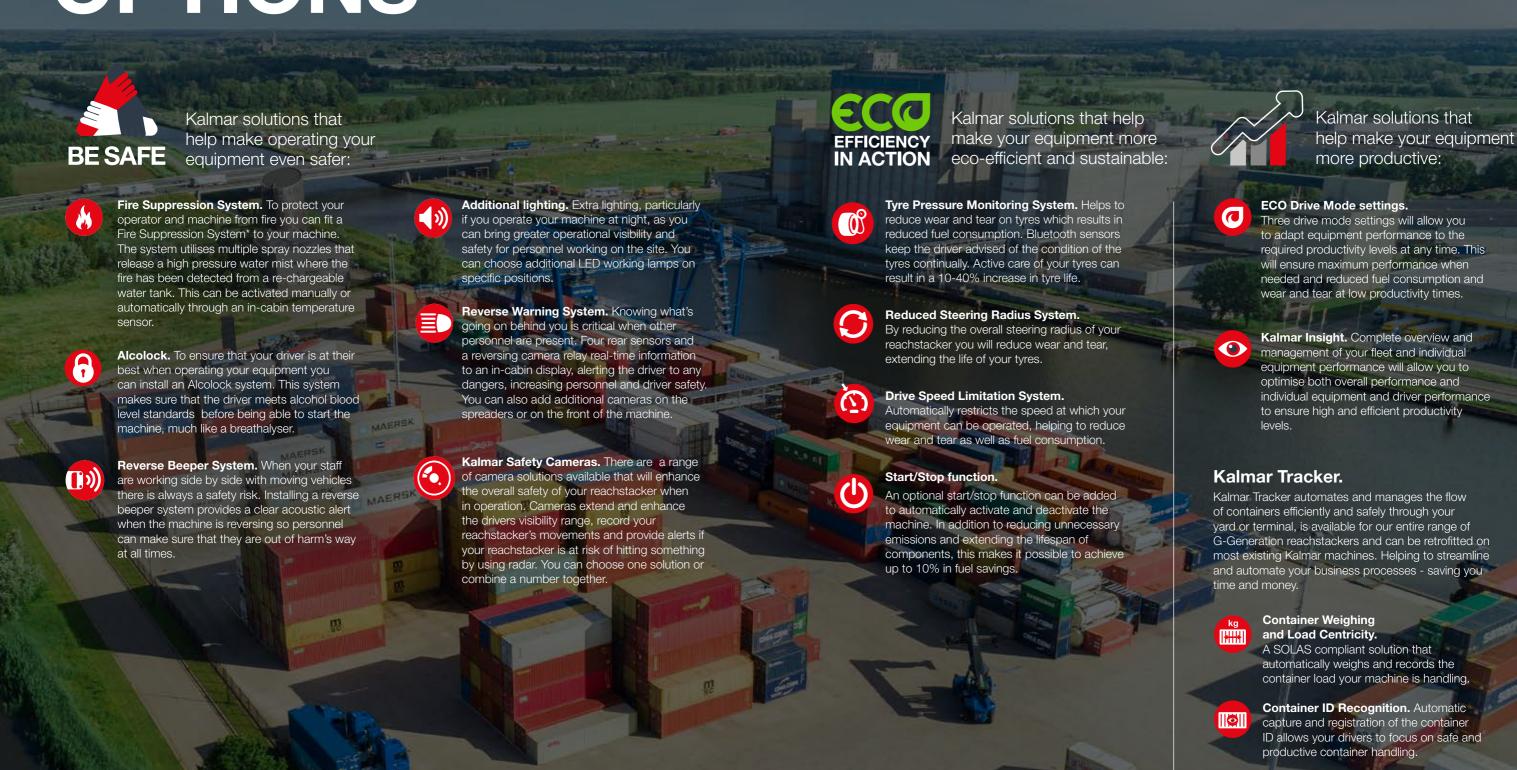
This option, which can be programmed for any time interval you choose, allows you to decide exactly when your vehicle should shut down when not in motion. Set it for ten seconds, for example, and your engine will automatically turn off after ten seconds of idling. This allows you to effortlessly reduce fuel costs, component wear and carbon emissions.





More OPTIONS

Cannot suppress a battery fire



** This option will be available soon.

your yard, at any given time.**

Container Locator. Ensures you always know where each individual container is in

MOVE whatever you need

Based on your specific needs, the G-Generation reachstacker is available with a complete range of standard and customised features, attachments making it suitable for many different applications.

Guaranteed to deliver.

With a choice of:

- wheelbases from 6,0 up to 9,25 metre
- lifting capacities from 42 to 130 tonnes
- powerful and and fuel efficient drivelines combinations to choose from
- attachments which include hooks, magnets, coil rams and a tool carrier which can have a variety of tools fitted.

The G-Generation reachstacker is available for container, intermodal, barge and industrial handling. Whatever your application, our aim is to help adapt your reachstacker for the best possible lifetime utilisation.

Container Handling



Industrial Handling



Intermodal Handling



Trimodal/Barge Handling



When you need to handle really heavy loads.



MyKalmar.

Keeping your cargo moving.

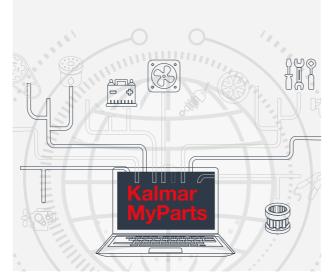
The MyKalmar portal brings together many of Kalmar's digital services into one place. With a single point of access and a user-friendly design you'll benefit from greater visibility and control over your maintenance activities, parts ordering and equipment performance - helping you improve your operational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

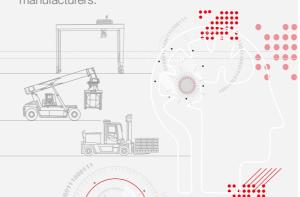


Kalmar Insight.

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.



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

STANDARD

Kalmar DRG 420S-450S (S = Top Lift) Kalmar DRG 450C-450C (C = Combi Lift) Kalmar DRG 500A-650A (A = Tool Carrier) Kalmar DRG 570Z-1300Z (Z = Lift Hook)

Norms, Standards and Regulations

- Machinery Directive 2006/42/EC
- Safety Variable Reach Trucks EN 1459+A3
- Safety Low & High Lift Trucks ANSI/ B56.1
- Stability Variable Reach Trucks EN 1459+A3
- CE-marking for trucks within EU/EEA ANSI/ITSDF-marking for North America trucks

- Strong and durable heavy-duty chassis
- Safe access steps, platform & hand rails (LHS)
- Long bottom access step (on both sides).
- Lifting eyes and anchor points (front & rear)
- Good rear end visibility of the truck
- Towing pin (rear)

- Steps with anti-slip protection
- Rear view mirrors (2x) rear on front mudguards • Strong and protective mudguards (front & rear)
- Basic noise insulation for the entire truck

Steer Axle (Rear)

- Kalmar steer axle mounted dual pivot bearings
- Orbitrol power steering with double acting cvlinder
- Wheel nut protection on steer tyres

Drive Axle (Front)

- Kessler planetary axle with differential drive
- Wide axle for high side stability (4150 mm)
- Oil-cooled Wet Disc Brakes (WDB)
- High pressure filter (10 mµ) for the brakes • Brake oil tank (140 lit), cooling & breather filter

Wheels (Tyres & Rims)

• Strong wheels (tyres and rims) in 18.00x25", 18.00x33", 21.00x35" and 24.00x35" (6x)

- Volvo D11, EU Stage 3/4/5 (EPA Tier 3 & 4F)
- Cummins QSM-11, EU Stage 3 (EPA Tier 3)
- 6-cylinder diesel engines with pre-heater
- High power & torque with low fuel consumption
- Engine monitoring and protection systems Automatic ZF transmissions 5WG-261/5WG-311
- or Dana TE-30510 • Precise, soft and efficient shifting of both gears
- and directions with 5 + 3 gears (F/R)
- Transmission monitoring and reverse protection
- Heavy-duty radiators for engine, transmission, brakes & hydraulics

Load-Sensing Hydraulics

- Load-sensing variable piston pumps
- Pumps for boom, spreader, brakes & steering Vane pumps for brake & oil cooling (2x)
- Return filters for the work hydraulics (2x/10 mµ)
- Hydraulic long-life fine filter with bypass (5 mµ)
- Servo filter for the work hydraulics (10 mµ)
- Pressure filter for the brakes (10 mμ)
- Regeneration high-speed lifting & extension
- Boom end-damping (in-out/up-down/20-40')
- Hydraulic tank (600 lit), cooling, breather filter & ORFS-couplings

- Strong, durable box-type boom with guide pads
- Boom with 2 lift cylinders & 1 extension cylinder

Attachment

- Top Lift (S), 45 tonnes, 20-40', MPS, TWL, 4 lift hooks, sideshift and rotation
- Combi Lift (C), 45 tonnes, 20-30-40', HPS, TWL, 4 lift legs, 4 hooks, end tilt+lock, sideshift & rotation
- Tool Carrier (A), max 65 tonnes, MPS, TWL (2,50 x 0,76 m), 4 lift eyes, sideshift and rotation
- Lift Hook (Z), max 130 tonnes, dual hook, free pivot, free rotation and 4 lift eyes (no rotation) • S-C-A = 4 floating twistlocks, LED indication
- lamps and 2 LFD work lamps • S-C-A = Safety locking, alignment pins (4x) and
- sensors (4x) • S-C-A = Rotation +195/-105 deg (2 motors and
- 2 brakes)
- S-C-A = Lift hooks for slings on end beams (4x) • S-A = Mechanical Pile Slope MPS ±5 deg
- C = Hydraulic HPS ±5 deg
- Large sideshift (S-C = $\pm 800 \text{ mm} / \text{A} = \pm 450 \text{ mm}$)

Electrical System 24V

- Battery box 2x12V (24V) & main power switch
- Electric service box on chassis (LHS)
- 2 LED head lights on front fenders (one beam)
- 2 LED working lights on boom
- 2 LED working lights on front edge cabin
- 2 LED rear lights on fenders (when reversing)
- 2 LED working lights on attachment (S + C + A)
- 2 LED position lights on each side
- 2 LED tail lights / brake LED-lights
- 4 LED blinker lights (front-rear/left-right)
- 2 LED flashing brake lights (when reversing)
- 1 LED rotating warning beacon
- 1 acoustic signal / reverse alarm (in reverse)

Cabin (EGO)

Structure

- Spacious, modern cabin with good ergonomics
- Large windows, good visibility, in all directions
- Manual moveable cabin (stroke 2375 mm)
- Step for roof access
- Instep handle (left side)
- Sliding window on both sides
- Doors with air damper and key lock (L + R)
- Tinted laminated windows

- Comfort seat Kalmar, mechanical 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

- Joystick for boom, spreader & forward / reverse
- Auto rev-up accelerator at lifting/extension Electric accelerator for driving
- Double brake pedals (L + R)
- Button for electronic hand brake (on/off)
- Safety override for hydraulic functions (by code) • Multi-function lever (LHS) horn, gear/direction switch, high/low beam
- Warning hand brake (on/off) leaving seat
- Hour meter

- ECC, electronic climate control, powerful cooler, heater and ventilator
- · Air-condition incl. fresh air and recirculation filter
- Wipers/washers; dual wipers on front window, single wipers on rear and roof windows
- Interval wiper functions on front, rear and roof

Information Systems

- Colour display & automatic fault analysis
- Menu control with toggle wheel & push buttons
- Electronic safety, overload, scale & synchronized lift functions
- Longitudinal Load Moment Indicator (Pop-Up Menu)
- Longitudinal Load Moment Control (Pop-Up

ECO Drive Modes

- Power mode
- Normal mode Eco mode

Operator menu:

- Svstem voltage Engine rpm
- Travelling speed (km/h or mph)
- Hydraulic oil temperature
- Transmission oil temperature
- Engine oil pressure & coolant level Engine oil level
- Clock and date
- Load info (tonnes) & Load Centre info (mm)
- Boom extension & Boom angle Operating time (hours)
- Service time indicator (hours)
- Boom angle and Boom extension
- Electronic weight scale functions Status of Heating, Ventilation and AC system
- (HVAC)
- Fuel level (diesel and optional AdBlue) • Estimated operating time before empty tank
- (hour/min) Service indicator
- Container counter with reset function
- Trip computer / statistics

Various warning lights & signals:

- Charging battery
- Low brake pressure
- Failure indicator
- Safety system disconnected • High engine coolant temperature
- Low engine coolant level
- Low engine oil pressure
- Preheating engine
- Transmission oil temperature
- Low fuel level • Hydraulic oil temperature

- Indicator lamps:
- 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 & joystick stickers
- Fuse diagram
- Instruction manual Maintenance manual
- Spare parts catalogue Warranty

• 24 months / 4000 hours

OPTIONS

Kalmar DRG 420S-450S (S = Top Lift) Kalmar DRG 450C-450C (C = Combi Lift) Kalmar DRG 500A-650A (A = Tool Carrier) Kalmar DRG 570Z-1300Z (Z = Lift Hook)

Chassis

- DRG ranges in Toplift (S), Intermodal (C), Tool Carrier (A) and Lift Hook (Z)
- Wheelbases; 6,00 7,50 m (Gloria range)
- Wheelbases; 8,25 9,25 m (Super Gloria range)

- Anti slip protection on fenders and tanks
- External rear view mirrors (2x)
- Noise insulation kit for the entire truck
- Storage boxes (2x) left and right tank
- Steer Axle (Rear) • Steer cylinder spacer (less tyre wear)

Wheels (Tyres & Rims) • Spare wheels, tires and rims for 18.00x25", 18.00x33", 21.00x35" and 24.00x35"

Drivetrain

- ZF 5WG-261 (lock-up)*
- Volvo TAD-1171-VE (265 kW, EU4)
- ZF 5WG-261 (lock-up)* / Dana TE-30510
- (no lock-up) · Volvo TAD-1151-VE (265 kW, EU3)
- Volvo TAD-1181-VE (265 kW. EU5)
- Dana TE-30510 (no lock-up) - Cummins QSM11-330 (246 kW, EU3)
- Volvo TAD-1181-VE (265 kW, KMOE5) • ZF 5WG-311 (lock-up)
- Volvo TAD-1152-VE (285 kW, EU3) - Volvo TAD-1172-VE (285 kW, EU4)

- Volvo TAD-1182-VE (285 kW, EU5)

Load-Sensing Hydraulics • High pressure filter

- Lifting boom
- Duplex 2-stage S5 (5/5, H4 = 15,1-15,2 m)
- Duplex 2-stage S6 (6/5, H4 = 16.1-16.2 m)
- Duplex 2-stage S6H (6/6, H4 = 17,7-17,8 m) • Duplex 2-stage C5 (5/5, H4 = 14,9-15,0 m)
- Duplex 2-stage A5 (5/5, H4 = 15,0-15,1 m) • Duplex 2-stage Z (-/-, H4 = 13,0 m) Lifting boom outreach cylinder stroke.

S5=7,00, S6=7,70 and S6H=8,50 m.

- Tilt function F/R ±5 dea. tilt lock, speed 5 km/h • Hydraulics Pile Slope, HPS ±5 deg (side tilt), incl tilt lock and speed 5 km/h
- Rotation stop at ±25 deg (incl override switch) • Automatic extension 20'-40' incl 30' stop
- Barge: Overhigh Folding Legs (L=1.6/2.0 m) • Barge: extended boom nose (L=1.0/1.6/2.0 m)
- 2 extra lift eyes, centre of spreader (2 x 22.5 T) • 4 extra lift eyes, middle of spreader (4 x 11.2 T) • Soft landing with ultrasonic sensor (less noise)
- Twistlock rubber damper (100 mm longer) • Extended twistlocks 300 mm (250 mm longer) • Cylinder extension 20'-40' on standard/Tilt/HPS
- WTP Top Lift (Wide Twl Pos), HPS ±5 deg, 30'-35' stop, TWL = 2260-2448 mm • Big Tilt 0-55 deg, 45 / 32 tonnes, sideways
- Big Tilt 0-55 deg, 45 / 32 tonnes, lengthways • Big Tilt with hydraulic door opener • Coil ram, 35 tonnes, coil ID/OD = 500/3000 mm, slave attachment for 20ft or Tool Carrier

• Lift hook (1x) + lift eyes (4x), max 50 tonnes,

slave attachment for 20ft or Tool Carrier Various industrial lift units, mounted in slave attachments for 20ft or Tool Carrier

Electrical System 24V

- Radio with CD / MP3 / Bluetooth
- Extra sockets 2x24V+2x12V (in door columns)
- Extra sockets 2x24V+2x5V USB (door columns) • Electric air pressure horn
- Height limitation system for lifting boom
- Load centre limitation for lifting boom
- Speed limitation, please specify km/h
- Various speed limitations (with/without load) • Speed warning at 15km/h
- Speed limitation outside transport mode
- Extra working light, LED 2x, on front mudguards • Extra working light, LED 4x, on front mudguards
- Extra working light, LED 2x, on spreader • Extra working light, LED 2x, middle of boom
- Extra working light, LED 4x, front of boom
- Extra reverse light, LED 2x, on rear light bracket • Extra rotating beacon, LED, in boom nose front
- Extra rotating beacon, LED, right side on CW • Extra rotating beacon, LED, left side on CW
- (flash light replacing STD beacon on boom) Nato starter socket 24V (1x)
- Colour display TFT-7" (17 cm), inside cabin choose type of camera(s) below:
- Reverse camera. 1x. rear on counter weight - Front chassis camera, 1x, above drive axle - Front of outer boom, 1x, facing forward
- Below inner boom, 1x, facing forward - Twistlock cameras, 2x, in spreader end beams - Combi legs camera, 2x, facing down on trailer
- Reverse warning system, TFT-7" display, reverse camera, 4 rear sensors • Forward warning system, TFT-7" display, reverse
- Electric heated mirrors, front fender/standard position
- Electric heated and adjustable mirrors, on front fenders (standard position)
- Remote control unit for spreader and boom • Tyre pressure monitoring system (Bluetooth)
- Cabin heater incl 220V outlet • Diesel powered cabin heater 5 kW

camera, 4 rear sensors

• Alcolock Draeger in cabin

Structure

Speed limitation depending on cabin position

- Hydraulic sliding cabin (stroke 2375 mm), anti-collision function, avoid load hitting cabin Hydraulic elevating cab (stroke 2300 mm)
- position forward on right side
- Extended rear cabin window 100mm
- Comfort • Seat with air-cushion, heating & 3-p belt Seat cover in vinvl
- Head rest for the seat • Armrest with adjustment (LHS)
- Horizontal dampening/suspension of seat • Grammer Actimo XL, air-cushion, heat, 3-p belt • Isringhausen 6830KA/870, air-cush, heat,
- Extra trainer seat incl 2-p safety belt (LHS) Bracket for terminal and monitor (RHS)

• Extra rear-view mirror inside cabin

Override key switch

• Lever steering incl switch for forward/reverse

• Write pad, A4 paper box & reading lamp (RHS)

- Mini-wheel steering incl F-N-R switch • Joystick Caldaro Cobra (model F/T generation)
- Sun visor front-roof-rear windows (of black net) • Sun visor roof window (of reflecting film) Microfilter in additional to standard filter
- AC/ECC switched off when door is open Post-heating (break heater function)

Additional Equipment

- Enhanced Safety Package including:
- Speed limitation outside transport mode - Reverse warning system including sensors,
- camera and displays in cab
- Tyre pressure monitoring system - Adjustable speed limiter (default 15 km/h)
- Seat belt interlock (machine will not go in gear if seat belt is off)
- · Semi-automatic fire suppression system • Fire extinguisher 6 kg, powder
- Tool kit
- Extra sound insulation reduction 3 dB(A) • Lockable fuel cap
- Central greasing (base truck + steering)
- Central greasing (entire spreader) • Filter kit 2000 - 4000 hrs

Information Systems

- VDI Vehicle Data Interface
- Fleet Management Kalmar Insight licence (only certified countries) Kalmar Insight Driver Monitor
- (RFID reader + 10 unique driver tags) • Kalmar Insight extra driver tags (10 tags)
- **Kalmar Load Measurement System** • Semi-automatic weight checking and recording

system including time, date and load

• Special and multiple colours, chassis

• SOLAS compliant (VGM - Verified Gross Mass)

- Other RAL colour than standard, chassis
- Other colour than standard, striping foil Reinforced anti-corrosion protection
- **Documentation and Decals**

maintenance, software etc

• Extra set of documentation Workshop manuals Volvo trouble shooting and repair kit

• Load chart lbs/inch in cab & sign "no riders"

• Various training packages, for drivers, service,

• Documentation on CD or memory stick **Training**

• Contact Kalmar Training Centre for more information and planning

• Extended warranty packages available - please

contact your local Kalmar Sales representative

End of delivery of ZF 5WG-261 as of 31

December 2022 for 6.0-7.5 m wheelbase

SPECIFICATIONS

				DRG420- 60S5	DRG450- 60S5	DRG450- 60S5M
	Type of handling				Container Handling	l
	Lift capacity, row 1-2-3-4	Q1 - Q2 - Q3 - Q4	(t)	42 - 25 - 12	45- 27 - 13	45 - 30 - 15
MAIN DATA	Lift capacity, row 1-2-3-4 (with support jacks)	Q1 - Q2 - Q3 - Q4	(t)	-	-	-
길	Load centre, from front face of tyres, row 1-2-3-4	L4 - L5 - L6 - L7	(mm)	1965 - 3815 - 6315	1965 - 3815 - 6315	1965 - 3815 - 6315
ΜĀ	Stacking capacity, in container row 1-2-3-4 of 8'6" / 9'6"			5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3
	Lost load centre, to front face of tyres	X	(mm)	835	835	835
	Wheelbase	L3	(mm)	6000	6000	6000
	Service weight, standard truck		(kgs)	65500	67400	69400
TS	Axle load, front at load centre L4, unloaded - loaded	(without support jacks)	(kgs)	34500 - 96100	34600 - 100600	34600 - 100600
WEIGHTS	Axle load, front at load centre L5, unloaded - loaded	(without support jacks)	(kgs)	38900 - 83300	39000 - 86900	39000 - 92200
>	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	31000 - 11400	32800 - 11800	34800 - 13800
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	26600 - 7200	28400 - 7500	30400 - 7200
င္ခ	Tyres, dimension, PLY rating, star rating ¹			18 x 25", PR40, E4	18 x 25", PR40, E4	18 x 25", PR40, E4
WHEELS	Tyre pressure (front - rear)		(MPa)	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
	Track width (front - rear)	S1 - S2	(mm)	3030 - 2600	3030 - 2600	3030 - 2600
	Boom angle, min - max		(deg)	0 - 60	0 - 60	0 - 60
	Boom height, min - max	H3 - H5	(mm)	4600 - 18200	4600 - 18200	4600 - 18200
	Chassis height - top of boom fixation, max	H2	(mm)	3925	3925	3925
	Lift height, max	H4	(mm)	15100	15100	15100
(0	Boom reach stroke		(mm)	7000	7000	7000
MENSIONS	Truck height - seat height	H6 - H8	(mm)	4600 - 2575	4600 - 2575	4600 - 2575
SNII	Overall truck length, with boom	L	(mm)	11200	11200	11200
DIM	Truck width over drive axle	В	(mm)	4150	4150	4150
_	Spreader sideshift	V1	(mm)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
	Spreader rotation		(deg)	+195/-105	+195/-105	+195/-105
	Ground clearance		(mm)	250	250	250
	Aisle width with 20'-40' container	A1 - A2	(mm)	11200 - 13600	11200 - 13600	11200 - 13600
	Turning radius, outer with 20'-40' container (at 90 degree turn)	R1 - R3	(mm)	8100 - 9400	8100 - 9400	8100 - 9400
POWERTRAIN	Max travel speed, fw unloaded - rated load / rw unloaded - rated load		(km/h)	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18
RTF	Lifting speed, unloaded - 70% of rated load		(m/s)	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25
DWE	Lowering speed, unloaded - rated load		(m/s)	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36
<u>q</u>	Drawbar pull / towing capacity		(kN)	295	295	295
~	Tank volumes of working oil & brake oil		(1)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)
отнев	Working hydraulic pressure boom / spreader, max		(MPa)	23 / 16	23 / 16	23 / 16
Ъ	Noise level LpAZ (EN12053), inside cabin²		(dB(A))	69 - 71	69 - 71	69 - 71
	Noise level LWAZ (EN12053), outside cabin ²		(dB(A))	105 - 108	105 - 108	105 - 108

DRG450- 60S5X	DRG450- 65S5	DRG450- 65S5X	DRG450-65S5XS	DRG450- 65S6	DRG420- 65S6X	DRG450- 65S6H
			Container Handling			
45 - 35 - 18	45 - 32 - 16	45 - 38 - 21	45 - 38 - 21	45 - 32 - 16 - 9	45 - 38 - 21 - 12	45 - 33 - 18 - 10
-	-	-	45 - 41 - 29	-	-	-
1865 - 3815 - 6315	1965 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	2265 - 3815 - 6315 - 8815	2165 - 3815 - 6315	2965 - 3815 - 6315 - 8815
5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	6/5 - 5/5 - 4/4 - 2/2	- 8815 6/5 - 5/5 - 4/4 - 2/2	6/6 - 6/5 - 5/4 - 4/3
935	835	935	935	835	935	835
6000	6500	6500	6500	6500	6500	6500
77500	69500	77300	80300	70500	77500	73500
35600 - 101600	35000 - 99400	36000 - 100400	38500 - 102900	36000 - 102500	36500 - 103000	39000 - 110300
40200 - 102900	39000 - 93900	40300 - 106000	42800 - 108600	39500 - 94400	40200 - 105900	41000 - 97600
41900 - 20900	34500 - 15100	41300 - 21900	41800 - 22400	34500 - 13000	41000 - 19500	34500 - 8200
37300 - 9600	30500 - 7600	37100 - 9300	37500 - 9700	31000 - 8100	37300 - 9600	32500 - 8900
18 x 33", PR36, E4	18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 33", PR36, E4	18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 25", PR40, E4
1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
3030 - 2800	3030 - 2600	3030 - 2800	3030 - 2800	3030 - 2600	3030 - 2800	3030 - 2600
0 - 60	0 - 60	0 - 60	0 - 60	0 - 62	0 - 62	0 - 63
4700 - 18300	4600 - 18200	4700 - 18300	4700 - 18300	4500 - 19250	4600 - 19350	4600 - 20800
4025	3925	4025	4025	3925	4025	3925
15200	15100	15200	15100	16200	16300	17700
7000	7000	7000	7000	7700	7700	8500
4700 - 2675	4600 - 2575	4700 - 2675	4700 - 2675	4500 - 2575	4600 - 2675	4600 - 2575
11200	11700	11700	11700	12000	12000	12700
4150	4150	4150	4150	4150	4150	4150
+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105
300	250	300	300	250	300	250
11200 - 13600	11600 - 13600	11600 - 13600	11600 - 13600	11900 - 13900	11900 - 13900	12200 - 14200
8100 - 9400	8500 - 9400	8500 - 9400	8500 - 9400	8500 - 9450	8500 - 9450	8500 - 9450
26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18
0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25
0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36
295	295	295	295	295	295	295
740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)
23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16
69 - 71	69 - 71	69 - 71	69 - 71	69 - 71	69 - 71	69 - 71
105 - 108	105 - 108	105 - 108	105 - 108	105 - 108	105 - 108	105 - 108

 ^{4 + 2} pnematic / diagonal tyres.
 Depending on ECO Drive Mode setting.

SPECIFICATIONS

				DRG450- 65S6HX	DRG450- 65S6HXS	DRG450- 70S5X
	Type of handling				Container Handling	
	Lift capacity, row 1-2-3-4	Q1 - Q2 - Q3 - Q4	(t)	45 - 39 - 21 - 13	45 - 39 - 21 - 13	45 - 41 - 23
¥	Lift capacity, row 1-2-3-4 (with support jacks)	Q1 - Q2 - Q3 - Q4	(t)	-	45 - 41 - 29 - 18	-
MAIN DATA	Load centre, from front face of tyres, row 1-2-3-4	L4 - L5 - L6 - L7	(mm)	2865 - 3815 - 6315 - 8815	2865 - 3815 - 6315 - 8815	1865 - 3815 - 6315
Σ	Stacking capacity, in container row 1-2-3-4 of 8'6" / 9'6"			6/6 - 6/5 - 5/4 - 4/3	6/6 - 6/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3
	Lost load centre, to front face of tyres	X	(mm)	935	935	935
	Wheelbase	L3	(mm)	6500	6500	7000
	Service weight, standard truck		(kgs)	82500	83500	78800
2	Axle load, front at load centre L4, unloaded - loaded	(without support jacks)	(kgs)	41500 - 112800	42500 - 113800	37500 - 100500
WEIGHIO	Axle load, front at load centre L5, unloaded - loaded	(without support jacks)	(kgs)	43800 - 111300	44800 - 112300	41500 - 110300
Š	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	41000 - 14700	41000 - 14700	41300 - 23300
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	38700 - 10200	38700 - 10200	37300 - 9500
2	Tyres, dimension, PLY rating, star rating ¹			18 x 33", PR36, E4	18 x 33", PR36, E4	18 x 33", PR36, E4
WHEELS	Tyre pressure (front - rear)		(MPa)	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
3	Track width (front - rear)	S1 - S2	(mm)	3030 - 2800	3030 - 2800	3030 - 2800
_						
	Boom angle, min - max		(deg)	0 - 63	0 - 63	0 - 60
	Boom height, min - max	H3 - H5	(mm)	4700 - 20900	4700 - 20900	4700 - 18300
	Chassis height - top of boom fixation, max	H2	(mm)	4025	4025	4025
	Lift height, max	H4	(mm)	17800	17800	15100
	Boom reach stroke		(mm)	8500	8500	7000
DIMENSIONS	Truck height - seat height	H6 - H8	(mm)	47000 - 2675	4700 - 2675	4700 - 2675
2	Overall truck length, with boom	L	(mm)	12700	12700	12200
ME CONTRACT	Truck width over drive axle	В	(mm)	4150	4150	4150
	Spreader sideshift	V1	(mm)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
	Spreader rotation		(deg)	+195/-105	+195/-105	+195/-105
	Ground clearance		(mm)	250	300	250
	Aisle width with 20'-40' container	A1 - A2	(mm)	12200 - 14200	12200 - 14200	12100 - 13600
	Turning radius, outer with 20'-40' container (at 90 degree turn)	R1 - R3	(mm)	8500 - 9450	8500 - 9450	9000 - 9400
Z	Max travel speed, fw unloaded - rated load / rw unloaded - rated load		(km/h)	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18
POWERTRAIN	Lifting speed, unloaded - 70% of rated load		(m/s)	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25
W E	Lowering speed, unloaded - rated load		(m/s)	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36
я П	Drawbar pull / towing capacity		(kN)	295	295	295
	Tank volumes of working oil & brake oil		(1)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)
OTHER	Working hydraulic pressure boom / spreader, max		(MPa)	23 / 16	23 / 16	23 / 16
6	Noise level LpAZ (EN12053), inside cabin ²		(dB(A))	69 - 71	69 - 71	69 - 71
	Noise level LWAZ (EN12053), outside cabin ²		(dB(A))	105 - 108	105 - 108	

DRG450-	DRG450-	DRG450-	DRG420-	DRG450-	DRG450-	DRG450-
70S5XS	70S6HXS	75S5SX	75S6HXS	82S5X	82S5XS	92S5XS
			Container Handling			
45 - 41 - 23	45 - 41 - 23 -14	45 - 45 - 26	45 - 45 - 27 - 17	45 - 45 - 37 - 24	45 - 45 - 37 - 24	45 - 45 - 41 - 28
45 - 41 - 31	45 - 41 - 31 -19	45 - 45 - 34	45 - 45 - 35 - 23	-	45 - 45 - 45 - 32	45 - 45 - 45 - 35
1865 - 3815 - 6315	2865 - 3815 - 6315 - 8815	1865 - 3815 - 6315	2865 - 3815 - 6315 - 8815	2765 - 3915 - 6415 - 8915	2765 - 3915 - 6415 - 8915	2765 - 3915 - 6415 - 8915
5/5 - 5/4 - 4/3	6/6 - 6/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	6/6 - 6/5 - 5/4 - 4/3	5/5 - 5/5 - 5/5 - 4/4	5/5 - 5/5 - 5/5 - 4/4	5/5 - 5/5 - 5/5 - 4/4
935	935	935	935	1035	1035	1035
7000	7000	7500	7500	8250	8250	9250
80300	84400	82400	86400	104200	105200	107200
39000 - 102000	42600-112000	40000 - 101800	43900 - 111700	52600 - 118300	53600 - 119300	54600 - 120300
43000 - 111800	44700-113500	43800 - 117300	46000 - 119500	54900 - 126900	55900 - 127900	56900 - 128900
41300 - 23300	41800-17400	42400 - 25600	43300 - 20500	51600 - 30900	51600 - 30900	51600 - 33100
37300 - 9500	39700-11900	38600 - 10100	41300 - 12800	49500 - 22300	49500 - 22300	49500 - 25400
18 x 33", PR36, E4	18 x 33", PR36, E4	18 x 33", PR36, E4	18 x 33", PR36, E4	21 x 35", PR40, E3	21 x 35", PR40, E3	21 x 35", PR40, E3
1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3245 - 3300	3245 - 3300	3245 - 3300
0 - 60	0 - 63	0 - 58	0 - 61	0 - 47	0 - 47	0 - 47
4700 - 18300	4700 - 20900	4750 - 18400	4750 - 21000	5250 - 19400	5250 - 19400	5250 - 19400
4025	4025	4025	4025	4300	4300	4300
15100	17800	15200	17800	15800	15800	15800
7000	8500	7000	8500	8500	8500	8500
4700 - 2675	4700 - 2675	4750 - 2675	4750 - 2675	5250 - 2950	5250 - 2950	5250 - 2950
12200	13200	12700	13700	14700	14700	15700
4150	4150	4150	4150	4600	4600	4600
+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105
300	300	300	300	350	300	300
12100 - 13600	12700 - 14200	12500 - 13600	13100 - 14200	15100	15100	16150
9000 - 9400	9000 - 9450	9400 - 9400	9400 - 9450	11400	11400	12450
26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	28 - 26 / 19 - 18	28 - 26 / 19 - 18	28 - 26 / 19 - 18
0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,40 - 0,20	0,40 - 0,20	0,40 - 0,20
0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,35 - 0,35	0,35 - 0,35	0,35 - 0,35
295	295	295	295	330	330	330
740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	840 (700 + 140)	840 (700 + 140)	740 (600 + 140)
23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16
69 - 71	69 - 71	69 - 71	69 - 71	66 - 67	66 - 67	66 - 67
105 109	105 109	105 109	105 100	105 109	105 109	105 109

105 - 108

105 - 108

105 - 108

 ^{4 + 2} pnematic / diagonal tyres.
 Depending on ECO Drive Mode setting.

SPECIFICATIONS

_				DRG450- 60CS	DRG450- 60C5X	DRG450- 65C5
	Type of handling				Intermodal Handling	9
	Lift capacity, row 1-2-3-4	Q1 - Q2 - Q3 - Q4	(t)	45 - 25 - 10	45 - 32 - 15	45 - 28 - 13
ΑŦ	Lift capacity, row 1-2-3-4 (with support jacks)	Q1 - Q2 - Q3 - Q4	(t)	-	-	-
MAIN DATA	Load centre, from front face of tyres, row 1-2-3-4	L4 - L5 - L6 - L7	(mm)	1965 - 3815 - 6315	1865 - 3815 - 6315	1965 - 3815 - 6315
MAI	Stacking capacity, in container row 1-2-3-4 of 8'6" / 9'6"			5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3
	Lost load centre, to front face of tyres	X	(mm)	835	935	835
	Wheelbase	L3	(mm)	6000	6000	6500
	Service weight, standard truck		(kgs)	73500	81800	74100
ST	Axle load, front at load centre L4, unloaded - loaded	(without support jacks)	(kgs)	41000 - 107000	42000 - 108000	41600 - 106000
WEIGHTS	Axle load, front at load centre L5, unloaded - loaded	(without support jacks)	(kgs)	46700 - 91100	48000 - 105400	46900 - 94900
>	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	32500 - 11500	39800 - 18800	32500 - 13100
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	26800 - 7400	33800 - 8400	27200 - 7200
S.	Tyres, dimension, PLY rating, star rating ¹			18 x 25", PR40, E4	18 x 33", PR40, E4	18 x 25", PR40, E4
WHEELS	Tyre pressure (front - rear)		(MPa)	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
3	Track width (front - rear)	S1 - S2	(mm)	3030 - 2600	3030 - 2800	3030 - 2600
	Boom angle, min - max		(deg)	0 - 60	0 - 60	0 - 60
	Boom height, min - max	H3 - H5	(mm)	4600 - 18200	4700 - 18300	4600 - 18200
	Chassis height - top of boom fixation, max	H2	(mm)	3925	4025	3925
	Lift height, max	H4	(mm)	14900	15000	14900
w	Boom reach stroke		(mm)	7000	7000	7000
IMENSIONS	Truck height - seat height	H6 - H8	(mm)	4600 - 2575	4700 - 2675	4600 - 2575
ENS	Overall truck length, with boom	L	(mm)	11200	11200	11700
DIM	Truck width over drive axle	В	(mm)	4150	4150	4150
	Spreader sideshift	V1	(mm)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
	Spreader rotation		(deg)	+195/-105	+195/-105	+195/-105
	Ground clearance		(mm)	250	300	250
	Aisle width with 20'-40' container	A1 - A2	(mm)	11200 - 13600	11200 - 13600	11600 - 13600
	Turning radius, outer with 20'-40' container (at 90 degree turn)	R1 - R3	(mm)	8100 - 9400	8100 - 9400	8500 - 9400
ZIZ	Max travel speed, fw unloaded - rated load / rw unloaded - rated load		(km/h)	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18
POWERTRAIN	Lifting speed, unloaded - 70% of rated load		(m/s)	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25
OWE	Lowering speed, unloaded - rated load		(m/s)	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36
<u> </u>	Drawbar pull / towing capacity		(kN)	295	295	295
	Tank volumes of working oil & brake oil		(1)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)
Ħ	Working hydraulic pressure boom / spreader, max		(MPa)	23 / 16	23 / 16	23 / 16
ОТНЕВ	Noise level LpAZ (EN12053), inside cabin²		(dB(A))	69 - 71	69 - 71	69 - 71

DRG450-	DRG450-	DRG450-	DRG450-	DRG450-	DRG450-	DRG450-	DRG450-
65C5X	65C5XS	70C5X	70C5XS	75C5XS	82CSX	82C5XS	92C5XS
				al Handling			
45 - 34 - 17	45 - 34 - 17	45 - 38 - 20	45 - 38 - 20	45 - 43 - 24	45 - 45 - 34 - 21	45 - 45 - 34 - 21	45 - 45 - 38 - 25
-	45 - 38 - 24	-	45 - 38 - 27	45 - 45 - 32	- 0705 0015 0415	45 - 45 - 45 - 29	45 - 45 - 45 - 33
1865 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	2765 - 3915 - 6415 - 8915	- 8915	2765 - 3915 - 6415 - 8915	2765 - 3915 - 6415 - 8915
5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	5/5 - 5/5 - 5/5 - 4/4	5/5 - 5/5 - 5/5 - 4/4	5/5 - 5/5 - 5/5 - 4/4
935	935	935	935	935	1035	1035	1035
6500	6500	7000	7000	7500	8250	8250	9250
81300	83500	83300	84800	88400	110000	111000	111000
42400 - 106800	44500 - 108900	43500 - 106500	45000 - 108000	46000 - 107800	59000 - 124700	60000 - 125700	61000 - 126700
48000 - 106800	50200 - 109000	48800 - 112600	50300 - 114100	51000 - 121200	62000 - 134000	63000 - 135000	64000 - 136000
38900 - 19500	39000 - 19600	39800 - 21800	39800 - 21800	42400 - 25600	51000 - 30300	51000 - 30300	51000 - 32500
33300 - 8500	33300 - 8500	34500 - 8700	34500 - 8700	37400 - 10200	48000 - 21000	48000 - 21000	48000 - 24300
18 x 33", PR40, E4	21 x 35", PR40, E3	21 x 35", PR40, E3	21 x 35", PR40, E3				
1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0	1,0 - 1,0
3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3245 - 3300	3245 - 3300	3245 - 3300
0 - 60	0 - 60	0 - 60	0 - 60	0 - 58	0 - 47	0 - 47	0 - 47
4700 - 18300	4700 - 18300	4700 - 18300	4700 - 18300	4750 - 18400	5250 - 19400	5250 - 19400	5250 - 19400
4025	4025	4025	4025	4025	4300	4300	4300
15000	14900	14900	14900	15000	15600	15600	15600
7000	7000	7000	7000	7000	8500	8500	8500
4700 - 2675	4700 - 2675	4700 - 2675	4700 - 2675	4750 - 2675	5250 - 2950	5250 - 2950	5250 - 2950
11700	11700	12200	12200	12700	14700	14700	15700
4150	4150	4150	4150	4150	4600	4600	4600
+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)	+/-800 (1600)
+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105	+195/-105
300	300	300	300	300	400	300	300
11600 - 13600	11600 - 13600	12100 - 13600	12100 - 13600	12500 - 13600	15100	15100	16150
8500 - 9400	8500 - 9400	9000 - 9400	9000 - 9400	9400 - 9400	11400	11400	12450
26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	26 - 24 / 20 - 18	28 - 26 / 19 - 18	28 - 26 / 19 - 18	28 - 26 / 19 - 18
0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,42 - 0,25	0,40 - 0,20	0,40 - 0,20	0,40 - 0,20
0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,36 - 0,36	0,35 - 0,35	0,35 - 0,35	0,35 - 0,35
295	295	295	295	295	330	330	330
740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	740 (600 + 140)	840 (700 + 140)	840 (700 + 140)	840 (700 + 140)
23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16	23 / 16
69 - 71	69 - 71	69 - 71	69 - 71	69 - 71	66 - 67	66 - 67	66 - 67
405 400						405 400	

105 - 108

105 - 108

 ^{4 + 2} pnematic / diagonal tyres.
 Depending on ECO Drive Mode setting.

DRIVETRAIN

DRG420-1300

		EU3 / Tier 3	EU3 / Tier 3	EU3 / Tier 3
Engine emission brand		Cummins	Volvo	Volvo
Engine model		QSM-11-C330	TAD-1151-VE	TAD-1152-VE
Engine after treatment type		-	-	-
AdBlue/DEF/Urea		-	-	-
Particle filter		-	-	-
HVO100 (EN15940) compatible		Yes	Yes	Yes
Engine type		6-inline	6-inline	6-inline
Engine displacement	(dm3)	10,80	10,84	10,84
Rated and max power (Dana / ZF)	(kW)	248 / 277	265 / 265	285 / 285
Max torque (Dana / ZF)	(Nm)	1674 / 1830	1785 / 1785	1938 / 1938
Max engine speed (Dana / ZF)	(rpm)	1900 / 2000	1900 / 2000	1900 / 2000
Fuel consumption - average diesel	(I/h)	14 - 20	14 - 20	14 - 20
Fuel consumption - average AdBlue	%	-	-	-
ECO Drive Modes (EDM) / modes			3 modes / Power - Normal - Eco	
Transmission brand / shift type / gears		o o	er / Automatic powershift / fw 5 + Automatic powershift / fw 5 + rv	0
Transmission clutch type			Torque converter	
Transmission model		Dana TE-30510	ZF 5WG-261-LU**	ZF 5WG-311-LU
Transmission clutch type			ZF: Lock-up Dana: No lock-up	
Drive axle brand / series			Kessler D102 / D111 (WDB)***	
Service brake / cooling			Wet Disc Brakes with oil cooling	
Steer axle brand / series		k	Kalmar / single cylinder / extra wid	le
Alternator, power	(W)	AC - 2800	AC - 4200	AC - 4200
Alternator, voltage x current	(V x Amp)	28 x 100	28 x 150	28 x 150

DRG420-1300

EU4 / Tier 4F	EU4 / Tier 4F	EU5	EU5	Korea Stage V
Volvo	Volvo	Volvo	Volvo	Volvo
TAD-1171-VE*	TAD-1172-VE*	TAD-1181-VE	TAD-1182-VE	TAD-1181-VE
SCR	SCR	DOC, DPF, SCR, ASC	DOC, DPF, SCR, ASC	DOC, DPF, SCR, ASC
Yes	Yes	Yes	Yes	Yes
-	-	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
6-inline	6-inline	6-inline	6-inline	6-inline
10,84	10,84	10,84	10,84	10,84
265 / 265	285 / 285	265 / 265	285 / 285	265 / 265
1785 / 1785	1938 / 1938	1795 / 1795	1938 / 1938	1795 / 1795
1900 / 2000	1900 / 2000	1900 / 2000	1900 / 2000	1900 / 2000
14 - 20	14 - 20	14 - 20	14 - 20	14 - 20
1 - 5	1 - 5	3 - 7	3 - 7	3 - 7
		3 modes / Power - Normal - Eco		
		ver / Automatic powershift / fw 5 + / Automatic powershift / fw 5 + rv 3		
		Torque converter		
ZF 5WG-261-LU**	ZF 5WG-311-LU	Dana TE-30510	ZF 5WG-311-LU	Dana TE-30510
		ZF: Lock-up Dana: No lock-up		
		Kessler D102 / D111 (WDB)***		
		Wet Disc Brakes with oil cooling		
	I	Kalmar / single cylinder / extra wid	е	
AC - 4200	AC - 4200	AC - 4200	AC - 4200	AC - 4200
28 x 150	28 x 150	28 x 150	28 x 150	28 x 150

Top Lifter











Magnet for thick slabs

Pipe Handler

Gripper

Barge handler

CombiLift

Lift Hook

Tool Carrier

^{*} Will not be offered with Dana transmission
** End of delivery of ZF 5WG-261 as of 31 December 2022 for 6,0-7,5 m wheelbase
*** Wheelbases 6,00-7,50 m have D102, wheelbases 8,25-9,25 m have D111



Published by Kalmar, part of Cargotec. Copyright © Cargotec 2022. All rights reserved. No part of this publication may be copied or reproduced without permission of the copyright owner. The content of this document is provided "as is", without warranties of any kind with regards to its accuracy or reliability and excluding all implied warranties. We reserve the rights to make changes to any of the items described in this document without prior notice. The content of each service and availability of particular services may vary.

www.kalmarglobal.com