



Guaranteed to save you thousands.

Knowing exactly what your fuel costs are going to be each month gives you a greater level of financial predictability, which is why Kalmar is offering a Fuel Saving Guarantee with each of its Eco Reachstackers.

#### Guaranteed to deliver.

With an agreed and fixed level of fuel consumption, based on a set of agreed metrics, you'll have complete control over your variable fuel costs. Should the fuel usage levels exceed the guaranteed levels of fuel consumption, Kalmar will compensate you for the additional fuel cost with a one off payment.

The fuel saving guarantee also provides your drivers with specialist training so they can get the most out of the machine. You also get connected with Kalmar Insight, giving you the ability to track and monitor your reachstacker and take immediate actions to optimise its operational efficiency. This will substantially help to reduce your cost per move.

#### Guaranteed to cut costs.

Your Eco Reacstacker is guaranteed to use less fuel, cutting your fuel costs substantially. This reduction in fuel costs will also cut your costs per move, helping you to be more competitive in a tough market.

Based on months of real operational data collected through Kalmar Insight, you can see the clear reduction in fuel costs and emissions between older machines and our new Kalmar Eco Reachstacker.



## Quiet and eco-efficient.

Cabooter Group, currently operate one barge and two rail terminals in the Netherlands and have been a long term partner of Kalmar. They turned to Kalmar first, when they were looking for a solution that was both eco-efficient and would significantly reduce operational noise levels, as their terminals are in built up urban areas.

"We chose the Kalmar Eco Reachstacker as we felt it represented the next big step in product innovation. It provides us with a low emission solution that is also significantly quieter. From the start our fuel consumption dropped from 15.7 to 12.9 l/hr, reducing our costs significantly. Our drivers are extremely excited as it is like driving a new Ferrari, not an old Volkswagen. This is a new generation of reachstackers, that are really good."

Peter Pardoel, Business Development and Operational Excellence. Cabooter Group.













#### Increased safety and efficiency.

The Kalmar Eco Reachstacker uses a continuous variable transmission which provides smoother transition in shifts, drive stops and direction changes. This allows the operator to drive more precisely, resulting in increased safety levels.

#### Easier to operate.

Kalmar Eco Reachstackers are much easier to drive than other machines, as their smart programming does a lot of the work for you. Your drivers will no longer need to rev their engines to get the lifting and handling speeds they want, nor will they need to hold the brake pedal continually while lifting and lowering while stationary. This will dramatically reduce the strain and stress on their bodies.

#### Increased comfort.

Kalmar Eco Reachstackers come fitted with our ergonomically designed EGO cabin. With slim line b-pillars, adjustable seating, steering wheel and control panel, your drivers will benefit from a superior operating environment and visibility. The Kalmar Eco Reachstacker, with its unique driveline, is quieter inside and outside the cabin, and vibrates less than traditional reachstackers, further enhancing driver comfort.

## Kalmar Training Academy.

Driving a Kalmar Eco Reachstacker is different than traditional reachstackers and, to get the most out of it, our training academy offers a range of courses for both your technicians and operators. Operators will be shown how to optimise their driving performance and what needs to be checked on the machine every day.

Technicians will be given the knowledge they need to be able to keep your new equipment in top condition. Courses are a mix of theory and hands on experienceand can be held at Kalmar or at your site.

# Making sure your business never stops.

We offer you four different types of service and maintenance contracts, for any brand of equipment. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. The different contract types include a set of standardised service modules that can be tailored to meet your business needs. Opposite is an overview of the four contracts.

## When the right part matters.

When something needs to be replaced you need a spare part that meets your exact needs – urgently. Kalmar offers a rapid delivery service for over 50,000 premium-quality genuine parts to anywhere in the world, with installation support if needed.

You may also want to consider outsourcing all or part of your spare parts management and inventory control, with Kalmar Parts Care. Kalmar Parts Care makes sure that critical spare parts are always on hand so your equipment downtime is kept at a minimum. Each Kalmar Parts Care plan is based on your operational needs, talk to us today and see how we can lift your parts availability, while reducing your inventory costs.

#### The four flexible types of service contracts.

#### **Kalmar Support Care**

We support your maintenance processes on demand.

- Availability of competent people with the right tools and parts
- Provides additional skills to existing maintenance organisation.

#### **Kalmar Essential Care**

We perform your agreed maintenance tasks proactively.

- Availability of competent people with the right tools and parts
- Higher degree of financial predictability
- Reduced operational risk to customer
- Improved availability of machines.

#### Kalmar Complete Care

We meet your complete maintenance requirements.

- Predictive maintenance planning
- Low operational risk to customer
- Reduced equipment downtime
- Reduced total cost of operation
- Increased operational predictability.

#### **Kalmar Optimal Care**

We optimise your business performance.

- Guaranteed availability
- Reduced tied-in capital
- Improved business performance
- Increased peace of mind.



# Optimise your reachstacker with Kalmar Insight.

Kalmar Insight is a performance management tool for cargo and material handling, which gives you a valuable and easy to use overview of your daily operations based on equipment status and performance. Making it quicker for you to take action on relevant information that will help you improve your operations, your equipment's performance and your business.

Kalmar Insight\* comes fitted in all new Kalmar machines and can be retrofitted to existing Kalmar machines or those built by other manufacturers. Kalmar Insight is included when the Eco Reachstacker is chosen with a Fuel Savings Guarantee.



Access on mobile, tablet or traditional screen.



View each machine's movements as they occur.



Plan your maintenance and spare parts needs



View each operator's performance in real time.

# More support.

## Kalmar Load Measurement Solution

The Kalmar load measurement solution automatically weighs the load your equipment is handling. This information is registered so you can monitor and review each load, overloading or load distribution. The solution will save you time as the container is weighed while it is being moved and you can reduce paper work as this solution can automatically update other connected systems.

The Kalmar Load Measurement Solution records the Verified Gross Mass (VGM) of any load your equipment is handling, giving you the ability to monitor and review individual or batched loads and identify any overloading. This information is then available in several different ways, depending on your chosen solution: via your TOS, Kalmar Insight or as a standalone solution with printer.

The accurate and reliable weighing of containers is an important part of safety at sea and is a mandatory requirement of the new SOLAS global weighing standards, from July 2016. The Kalmar load measurement solution is compliant with the SOLAS global standards.

## Financing options for you.

You may choose to buy your new Eco Reachstacker outright or consider leasing or renting your equipment. There are a range of leasing and renting options that give you the financial predictability you need and the option to upgrade your equipment after a fixed period. With our leasing package, you can focus on your core operations, while all your service and maintenance needs are covered. Kalmar can also help you with trading-in your old equipment.

# How you will be benefit from the Kalmar Eco Reachstacker:

- Big reduction in fuel consumption
- Big reduction in exhaust emissions
- Big reduction of noise levels, inside and outside the cabin
- Increased operation precision and control
- Increased driver comfort with less stresses and strains
- Increased driver efficiency and productivity
- Increased ease of operation.

# Eco Reachstacker options.

Kalmar has an extensive list of options available that can help to improve operational safety or lower your fuel consumption. You choose which are right for you.

Kalmar eco-efficiency options.



**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 components, this makes it possible to achieve up to 10% in fuel savings.



#### 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. Active care of your tyres can result in a 10-40% increase in tyre life and up to a 10% decrease in fuel consumption.



### Kalmar Speed Limitation System.

The Kalmar Drive Speed Limitation System automatically restricts the speed at which your equipment can be operated, helping to reduce wear and tear as well as fuel consumption.



### Reduced Steering Radius System.

By reducing the overall steering radius of your reachstacker you will reduce wear and tear, extending the life of your tyres.

Kalmar safety options.



#### Reverse Warning System (RWS).

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 (FSS).

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.



Alco-lock. 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.



Additional lighting. Extra lighting, particularly if you operate your machine at night, as you can bring greater operational visibility and safety for personnel working on the site. You can choose additional LED working lamps on specific positions:

- 2 or 4 on the front mud guards
- 2, 4 or 6 on the lift boom
- 2 or 4 on the spreader
- 2 more on rear counter weight.



## Standard.

Kalmar DRG 420S-450S (S = Container - Top Lift) Kalmar DRG 450C-450C (C = Intermodal - Combi Lift) Kalmar DRG 500A-540A (A = Industrial - Tool Carrier) Kalmar DRG 570Z-700Z (Z = Industrial - 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 complete truck

#### Steer Axle (Rear)

- Kalmar steer axle mounted dual pivot bearings
- Orbitrol power steering with double acting cylinder
- 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)

- Drive and steer tyres 18.00x25"/PR40 (6x)
- Drive and steer tyres 18.00x33"/PR36 (6x), for stronger models with higher lift capacity

### **Drive Train**

- Volvo D8 in EU stage 3A (EPA Tier 3)
- Volvo D8 in EU stage 4 (EPA Tier 4 Final)
- Volvo D8 in EU stage 5
- 6-cylinder diesel engines with pre-heater, displacement 7.70 Lit
- High power & torque with low fuel consumption
- Engine monitoring and protection system
- Automatic CVT transmission, DRTS R2-RS
- Hydrostatic slow-speed / mechanical high-speed Seamless speed shifting and soft directional shifting (FWD - REV)
- Transmission monitoring and reverse protection
- Heavy-duty radiators for engine, transmission, brakes & hydraulics
- Auto stop function, engine shut down after 10 sec, when P-brake is on.

#### **Load-Sensing Hydraulics**

- Load-sensing lift hydraulics, spreader and steering, with variable piston pumps
- Pumps for boom, spreader, brakes & steering
- Vane pumps for brake & oil cooling (2x) • Return filters for the work hydraulics (2x/10 mu)
- Hydraulic long-life fine filter with by-pass (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

- S = Top Lift, 45 tons, 20'-40', MPS, TWL + 4 lift hooks
- C = Combi Lift, 45 tons, 20'-30'-40', HPS, TWL, lift legs, 4 lift hooks, length tilt & tilt lock
- A = Tool Carrier, max 65 tons, MPS, TWL (2,5x0,76 m) & 4 lift eyes
- Z = Lift Hook, max 70 tons, dual hook, free rotation & 4 lift eyes • S-C-A = 4 floating twistlocks, LED indication
- lamps & 4 LED work lamps • S-C-A = Safety locking, alignment pins (4x) &
- sensors (4x) • S-C-A = Rotation +195/-105 deg (2 motors & 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 =  $\pm 800$  mm / A =  $\pm 450$  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 best 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

- 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

#### Controls

- 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

#### Climate

- ECC, electronic climate control, very powerful cooler, heater and ventilator, incl programmable settings
- Air-condition incl. fresh air and recirculation filter • Wipers/washers on front, 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 • Longitudinal Load Moment Indicator
- (Pop-Up Menu)
- Longitudinal Load Moment Control (Pop-Up Menu)
- ECO Drive Modes (EDM) Power mode
- Normal mode (default)
- Eco mode

### Coasting Deceleration Mode (CDM)

- Soft braking
- Medium braking (default)

## Operator menu:

- System voltage
- Engine rpm
- Travelling speed (km/h or m/h)
- Hydraulic oil temperature
- Transmission oil temperature • Engine oil pressure & coolant level
- Engine oil level
- Clock and date
- Load & Load distance (LC)
- 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-Grev 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
- Instruction manual • Maintenance manual

Fuse diagram

• Spare parts catalogue

## **Options.**

Kalmar DRG 420S-450S (S = Container - Top Lift) Kalmar DRG 450C-450C (C = Intermodal - Combi Lift) Kalmar DRG 500A-540A (A = Industrial - Tool Carrier) Kalmar DRG 570Z-700Z (Z = Industrial - Lift Hook)

- DRG range in Toplift (S), Intermodal (C) and Industrial handlings (A + Z)
- Wheelbases in 6,0 7,5 m Duplex 2-stage booms for S+C+A+Z

Noise insulation kit for the complete truck

 Anti slip protection on fenders and tanks Mud flaps (front or/and rear)

(H4 = 13,0-17,8 m)

External rear view mirrors (2x)

Steer Axle (Rear) • Steer cylinder space 14 mm

## (plus 0,50 m radius)

- Wheels (Tyres & Rims) • Spare wheel and rim 18.00x25"/PR40 (6x)
- Spare wheel and rim 18.00x33"/PR36 (6x), for stronger models with higher lift capacity

#### **Drive train** • Volvo TAD-853-VE, 6-inline, 235 kW,

- 1310 Nm (EU 3A / EPA Tier 3) • Volvo TAD-873-VE, 6-inline, 235 kW,
- 1310 Nm (EU 4 / EPA Tier 4F) • Volvo TAD-883-VE, 6-inline, 235 kW,
- Auto Start/Stop function to save fuel • Automatic engine and ignition stop at idle • Pre-cleaner air intake incl raised air intake

### Various programmable speed limitations

#### **Load-Sensing Hydraulics** • High pressure filter

1310 Nm (EU 5)

- 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)

(integral)

(2 x 22.5 ton)

- on one side

- Attachment • Tilt function ±5 deg (FWD/REV), incl tilt lock
- & speed limit 5 km/h Hydraulics Pile Slope HPS ±5 deg (side tilt), incl tilt lock & speed limit 5 km/h
- Rotations stop spreader at ±25 deg (incl override switch)
- Automatic extension 20'-40' incl 30' stop • Overhigh folding legs OFL = 1600 or 2000 mm
- Boom nose extension L = 1000 or 1600 mm • Long boom nose, extension = 1600 mm • 2 extra lift eyes in centre of spreader
- 4 extra lift eyes in middle part of spreader (4 x 11,25 ton)
- Soft landing with ultrasonic sensor Twistlock beam rubber damper, 100 mm extension (noise reduction)
- Extended twistlocks 300 mm
- Side Tilt Spreader 0-55 deg, 45 / 32 tons • Length Tilt Spreader 0-55 deg, 45 / 32 tons Hydraulic door opener - for tilt spreader
- ID / OD = 500 / 3000 mm• Coil ram sub frame, Tool Carrier, 35 tons, ID / OD = 500 / 3000 mm

• Coil ram sub frame, STD, 35 tons,

### **Electrical System 24V**

- Radio with CD/MP3/BT
- Extra sockets 2x24V + 2x12V in cabin door columns
- Extra sockets 2x24V + 2x5V USB's
- in cabin door columns
- Electric air pressure horn • Height limitation system for lifting boom
- Load centre limitation for lifting boom
- Speed limitation, please specify km/h
- Container lights, LED 4x, on front mudguards • Extra working light, LED 2x, on spreader
- Extra working light, LED 2x, on boom • Electric heated mirrors, front fender/std pos • Electric heated & adjustable mirrors, front
- fenders/std pos • TV-camera with monitor in cab direction
- rearward (6-7 m)
- Reverse warning system, incl. 4x sensors, TV-camera & monitor
- Tyre pressure monitoring system (Bluetooth)
- Cabin heater incl 220V outlet • Diesel powered cabin heater 5 kW Alcolock Draeger in cabin

- Structure • Hydraulic sliding cabin (stroke 2375 mm), anti-collision function, avoid container / trailer to
- hit cabin in front position • Speed limitation depending on cabin position
- Seat with air-cushion, heating & 3-point belt Head rest for the seat

• Bracket for terminal and monitor (RHS)

• Hydraulic elevating cab (stroke 2300 mm)

 Armrest with adjustment (LHS) • Horizontal dampening/suspension of seat • Extra trainer seat incl 2-point safety belt (LHS)

#### • Writing pad, A4 paper box and reading lamp (RHS)

- Controls
- Lever steering incl switch for forward/reverse • Mini-wheel steering incl switch for forward/

#### Sun visor roof window (of reflecting film) • Microfilter in additional to std filter

• Post-heating (break heater function)

• AC/ECC switched off when door is open

**Additional Equipment** • Enhanced Safety Package including: - Speed limitation outside transport mode - Reverse warning system including sensors,

• Sun visor front-roof-rear windows (of black net)

- Tire pressure monitoring system in cab HMI - Adjustable speed limiter (default 15 km/h) - Seat belt interlock, will not go in gear unless
- seatbelt is on • Semi-automatic fire suppression system

camera and displays in cab

- Fire extinguisher 6 kg, powder Tool kit • Extra sound insulation - reduction 3 dB(A)
- Central greasing (base truck / spreader) • Filter kit 2000 hrs

Lockable fuel cap

- Kalmar Insight licence (only in certified countries) • Kalmar Insight Driver Monitor (RFID reader +
- 10 unique driver tags) Kalmar Insight extra driver tags
- (10 unique driver tags)

- Kalmar Insight 3 year license • Guaranteed level of fuel consumption
- Eco Reachstacker driver training Kalmar Speed Limitation System

#### Automatic engine stop when idling

- **Kalmar Load Measurement System** Automatically measures and records
- equipment load SOLAS compliant

- Other colour than standard, chassis

### • Reinforced anti-corrosion protection

- **Documentation and Decals**
- Extra set of documentation Workshop manuals
- Volvo trouble shooting and repair kit • Load chart lbs/inch in cab & sign "no riders"

#### • Documentation on cd or memory stick

programs

- Eco Reachstacker driver training Contact Kalmar Training Centre for training

### Fuel Saving Guarantee (see pp 4-5)

# **Drivelines.**

### Eco Reachstacker

Engine emission approvals		EU3 / Tier 3	EU4 / Tier 4F	EU5					
Engine emission brand / series		Volvo D8	Volvo D8	Volvo D8					
Engine model		TAD-853-VE	TAD-873-VE	TAD-883-VE					
Engine after treatment type		No SCR / AdBlue	With SCR / AdBlue	With SCR / AdBlue					
		No particle filter	No particle filter	With particle filter					
Engine fuel / type		Diesel / 4-stroke	Diesel / 4-stroke	Diesel / 4-stroke					
Engine design / cylinders		6-inline / common rail	6-inline / common rail	6-inline / common rail					
Engine displacement	(dm3)	7.70	7.70	7.70					
Max power	(kW)	235	235	235					
Max torque	(Nm)	1310	1310	1310					
Fuel consumption – average diesel	(l/h)	10-15	10-15	10-15					
Fuel consumption – average AdBlue	(%)	-	1 - 5	3 - 7					
Transmission model		Dana Rexroth R2-RS							
Transmission gear shift type		Hyd	rostatic + Mechanical (power s	split)					
Transmission clutch type		CVT	(Continuous Variable Transmis	sion)					
Transmission speed range (FWD - REV)			3 - 2						
Drive axle brand / series			Kessler D-102 (WDB)						
Service brake / cooling		V	Vet Disc Brakes with oil cooling	g					
Alternator, power	(W)	AC, 3640 (28 x 130)	AC, 3640 (28 x 130)	AC, 3640 (28 x 130)					

## Attachments.

There are a range of attachments that can be fitted onto your reachstacker, which one depends of your handling needs.



Container Handling -Top Lift (S)



Intermodal Handling - Industrial Handling - Top Lift and Trailer Tool Carrier (A)

Lift (C)





Industrial Handling -Lift Hook (Z)



# **Container Handling.**

				DRG420-60S5E	DRG450-60S5E	DRG450-60S5ME	DRG450-60S5XE	DRG450-65S5E	DRG450-65S5XE	DRG450-65S5XSE	DRG450-65S6E	DRG450-65S6XE			
	Type of handling				Container handling		Container handling								
	Lift capacity, row 1-2-3-4	Q1 - Q2 - Q3 - Q4	(tons)	42 - 25 - 12	45 - 27 - 13	45 - 30 - 15	45 - 35 - 18	45 - 32 - 16	45 - 38 - 21	45 - 38 - 21	45 - 32 - 16 - 9	45 - 38 - 21 - 12			
ATA	Lift capacity, row 1-2-3-4 (including jacks)	Q1 - Q2 - Q3 - Q4	(tons)	-	-	-	-	-	-	45 - 41 - 29	-	-			
<u>N</u>	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	5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	6/5 - 5/5 - 4/4 - 2/2	6/5 - 5/5 - 4/4 - 2/2			
MA	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	1865 - 3815 - 6315	1965 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	2265-3815-6315-8815	2165-3815-6315-8815			
	Lost load centre, to front face of tyres	X	(mm)	835	835	835	935	835	935	935	835	935			
	Wheelbase	L3	(mm)		6000		6000	6500	6500	6500	6500	6500			
	Service weight, standard truck	e weight, standard truck (kgs)		65500	67400	69400	77500	69500	77300	80300	70500	77500			
13	Axle load, front at load centre L4, unloaded - loaded		(kgs)	34500 - 96100	34600 - 100600	34600 - 100600	35600 - 101600	35000 - 99400	36000 - 100400	38500 - 102900	36000 - 102500	36500 - 103000			
EIGH	Axle load, front at load centre L5, unloaded - loaded		(kgs)	38900 - 83300	39000 - 86900	39000 - 92200	40200 - 102900	39000 - 939000	40300 - 106000	42800 - 108600	39500 - 94400	40200 - 105900			
>	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	31000 - 11400	32800 - 11800	34800 - 13800	41900 - 20900	34500 - 15100	41300 - 21900	41800 - 22400	34500 - 13000	41000 - 19500			
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	26600 - 7200	28400 - 7500	30400 - 7200	37300 - 9600	30500 - 7600	37100 - 9300	37500 - 9700	31000 - 8100	37300 - 9600			
EELS	Tyres, dimension, PLY rating, star rating <sup>1</sup>	Tyres, dimension, PLY rating, star rating <sup>1</sup>			18 x 25", PR40, E4		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 25", PR36, E4			
풀	Tyre pressure (front - rear)		(MPa)		1,0 / 1,0				1,0	/ 1,0					
>	Track width (front - rear)	S1 - S2	(mm)		3030 - 2600		3030 - 2800	3030 - 2600	3030 - 2800	3030 - 2800	3030 - 2600	3030 - 2800			
	Boom angle, min - max		(deg)		0 - 60		0 - 60	0 - 60	0 - 60	0 - 60	0 - 62	0 - 63			
	Boom height, min - max	H3 - H5	(mm)		4600 - 18200		4700 - 18300	4600 - 18200	4700 - 18300	4700 - 18300	4500 - 19250	4600 - 19350			
	Chassis height - top of boom fixation, max	H2	(mm)		3925		4025	3925	4025	4025	3925	4025			
	Lift height, min-max in twistlocks, row 1	H4	(mm)		15100		15200	15100	15200	15100	16200	16300			
w	Boom reach stroke		(mm)		7000		7000	7000	7000	7000	7700	7700			
NO NO	Truck height - seat height	H6 - H8	(mm)		4600 - 2575		4700 - 2675	4600 - 2575	4700 - 2675	4700 - 2575	4500 - 2575	4600 - 2675			
MEN	Overall truck length, without - with boom	L	(mm)		11200		11200	11700	11700	11700	12000	12000			
5	Truck width over drive axle	В	(mm)		4150		4150								
	Spreader sideshift	V1	(mm)		+/-800 (1600)		+/-800 (1600) +195/-105								
	Spreader rotation		(deg)		+195/-105		000	050			050	200			
	Ground clearance	A1 - A2	(mm)		250		300	250	300 11600 - 13600	300 11600 - 13600	250	300			
	Aisle width with 20'-40' container  Turning radius, outer with 20'-40' container	R1 - R3	(mm)		11200 - 13600 8100 - 9400		11200 - 13600 8100 - 9400	11600 - 13600 8500 - 9400	8500 - 9400	8500 - 9400	11900 - 13900 8500 - 9450	11900 - 13900 8500 - 9450			
	Turning radius, outer with 20 -40 Container	ni - no	(mm)		8100 - 9400		8100 - 9400	0300 - 9400	0300 - 9400	0300 - 9400	8300 - 9430	6500 - 9450			
	Travel speed, fw unloaded		(1 (1-)		00 00 /10 10				00.00	/40 40					
밀	- rated load / rw unloaded - rated load, max		(km/h)	28 - 22 / 18 - 18			28 - 22 / 18 - 18								
VEL	Lifting speed, unloaded - 70% of rated load		(m/s)		0,42 - 0,25		0,42 - 0,25								
B	Lowering speed, unloaded - rated load		(m/s)	0,36 - 0,36			0,36 - 0,36								
	Drawbar pull / towing capacity, max		(kN)	250					28	DU .					
	Tank volumes of working oil & brake oil		(1)		740 (600 + 140)				740 (60)	0 + 140)					
荒	Working pressure boom/spreader, max		(MPa)		23 / 16				23 /	/ 16					
OTH	Noise level LpAZ (EN12053), inside cabin <sup>2</sup>		(dB(A))		68 - 70				68 -	- 70					
	Noise level LpAZ (2000/14/EC), outside cabin² (dB(A))				103 - 106		103 - 106								

 <sup>4 + 2</sup> pneumatic / diagonal tyres
 Depending on ECO Drive Mode setting

# **Container Handling.**

				DRG450-65S6HE	DRG450-65S6HXE	DRG450-65S6HXSE	DRG450-70S5XE	DRG450-70S5XSE	DRG450-70S6HXSE	DRG450-75S5XSE	DRG450-75S6HXSE
	Type of handling				Container handling				Container handling		
	Lift capacity, row 1-2-3-4	Q1 - Q2 - Q3 - Q4	(tons)	45 - 33 - 18 - 10	45 - 39 - 21 - 13	45 - 39 - 21 - 13	45 - 41 - 23	45 - 41 - 23	45 - 41 - 23 -14	45 - 45 - 26	45 - 45 - 27 - 17
<b>₹</b>	Lift capacity, row 1-2-3-4 (including jacks)	Q1 - Q2 - Q3 - Q4	(tons)	-	-	45 - 41 - 29 - 18	-	45 - 41 - 31	45 - 41 - 31 -19	45 - 45 - 34	45 - 45 - 35 - 23
Q Z	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	6/6 - 6/5 - 5/4 - 4/3	5/5 - 5/	4 - 4/3	6/6 - 6/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	6/6 - 6/5 - 5/4 - 4/3
¥	Load centre, from front face of tyres, row 1-2-3-4	L4 - L5 - L6 - L7	(mm)	2965 - 3815 - 6315 - 8815	2865-3815-6315-8815	2865 - 3815 - 6315 - 8815	1865 - 38	15 - 6315	2865 - 3815 - 6315 - 8815	1865 - 3815 - 6315	2865 - 3815 - 6315 - 8815
	Lost load centre, to front face of tyres	X	(mm)	835	935	935			935		
	Wheelbase	L3	(mm)		6500		7000	7000	7000	7500	7500
	Service weight, standard truck		(kgs)	73500	82500	83500	78800	80300	84400	82400	86400
2	Axle load, front at load centre L4, unloaded - loaded		(kgs)	39000 - 110300	41500 - 112800	42500 - 113800	37500 - 100500	39000 - 102000	42600-112000	40000 - 101800	43900 - 111700
WEIGH	Axle load, front at load centre L5, unloaded - loaded		(kgs)	41000 - 97600	43800 - 111300	44800 - 112300	41500 - 110300	43000 - 111800	44700-113500	43800 - 117300	46000 - 119500
፟	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	34500 - 8200	41000 - 14700	41000 - 14700	41300 - 23300	41300 - 23300	41800-17400	42400 - 25600	43300 - 20500
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	32500 - 8900	38700 - 10200	38700 - 10200	37300 - 9500	37300 - 9500	39700-11900	38600 - 10100	41300 - 12800
_											
LS	Tyres, dimension, PLY rating, star rating <sup>1</sup>			18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 33", PR36, E4			18x33",PR36/E4		
WHEELS	Tyre pressure (front - rear)		(MPa)		1,0 - 1,0				1,0 - 1,0		
>	Track width (front - rear)	S1 - S2	(mm)	3030 - 2600	3030 - 2800	3030 - 2800			3030 - 2800		
_											
	Boom angle, min - max		(deg)	0 - 62	0 - 62	0 - 63	0 - 60	0 - 60	0 - 63	0 - 58	0 - 61
	Boom height, min - max	H3 - H5	(mm)	4600 - 20800	4700 - 20900	4700 - 20900	4700 - 18300	4700 - 18300	4700 - 20900	4750 - 18400	4750 - 21000
	Chassis height - top of boom fixation, max	H2	(mm)	3925	4025	4025			4025		
	Lift height, min-max in twistlocks, row 1	H4	(mm)	17700	17800	17800	15100	15100	17800	15200	17800
(0	Boom reach stroke		(mm)		8500		7000	7000	8500	7000	8500
NO	Truck height - seat height	H6 - H8	(mm)	4600 - 2575	4700 - 2675	4700 - 2675			2675		
MENS	Overall truck length, without - with boom	L	(mm)		12700		12200	12200	13200	12700	13700
	Truck width over drive axle	В	(mm)		4150				4150		
	Spreader sideshift	V1	(mm)		+/-800 (1600)				+/-800 (1600)		
	Spreader rotation		(deg)		+195/-105				+195/-105		
	Ground clearance		(mm)	250	300	300			300		
	Aisle width with 20'-40' container	A1 - A2	(mm)	12200 - 14200	12200 - 14200	12200 - 14200	12100 - 13600	12100 - 13600	12700 - 14200	12500 - 13600	13100 - 14200
	Turning radius, outer with 20'-40' container	R1 - R3	(mm)	8500 - 9450	8500 - 9450	8500 - 9450	9000 - 9400	9000 - 9400	9000 - 9450	9400 - 9400	9400 - 9450
	Travel speed, fw unloaded										
LINE	- rated load / rw unloaded - rated load, max		(km/h)		28 - 22 / 18 - 18				28 - 22 / 18 - 18		
M I	Lifting speed, unloaded - 70% of rated load		(m/s)		0,42 - 0,25				0,42 - 0,25		
DRIVE	Lowering speed, unloaded - rated load		(m/s)		0,36 - 0,36				0,36 - 0,36		
	Drawbar pull / towing capacity, max		(kN)		250				250		
	Tank volumes of working oil & brake oil		(l)		740 (600 + 140)				740 (600 + 140)		
OTHER	Working pressure boom/spreader, max		(MPa)		23 / 16				23 / 16		
P	Noise level LpAZ (EN12053), inside cabin <sup>2</sup>		(dB(A))		68 - 70				68 - 70		
	Noise level LpAZ (2000/14/EC), outside cabin <sup>2</sup>		(dB(A))		103 - 106				103 - 106		

 <sup>4 + 2</sup> pneumatic / diagonal tyres
 Depending on ECO Drive Mode setting

# Intermodal Handling.

				DRG450-60C5E	DRG450-60C5XE		DRG450-65C5E	DRG450-65C5XE	DRG450-65C5XSE	DRG450-70C5XE	DRG450-70C5XSE	DRG450-75C5XSE			
	Type of handling			Intermod	al handling		Intermodal handling								
	Lift capacity, row 1-2-3 / load center L4-L81	Q1 - Q2 - Q3 - Q4 - Q5	(tons)	45 - 25 - 10	45 - 32 - 15		45 - 28 - 13	45 - 34 - 17	45 - 34 - 17	45 - 38 - 20	45 - 38 - 20	45 - 43 - 24			
DATA	Lift capacity, row 1-2-3 / load center L4-L8 <sup>1</sup>	Q1 - Q2 - Q3 - Q4 - Q5	(tons)	-	-		-	-	45 - 38 - 24	-	45 - 38 - 27	45 - 45 - 32			
N	Stacking capacity, in container row 1-2-3 of 8'6" / 9'6"			5/5 - 5	5/4 - 4/3				5/5 - 5/	/4 - 4/3					
MA	Load centre, from front face of tyres	L4 - L5 - L6 - L7 - L8 including jacks	(mm)	1965 - 3815 - 6315	1865 - 3815 - 6315		1965 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	1865 - 3815 - 6315	2765 - 3915 - 6415 - 8915	2765 - 3915 - 6415 - 8915			
	Lost load centre, to front face of tyres	Χ	(mm)	835	935		835	935	935	935	935	935			
	Wheelbase	L3	(mm)	6000	6000		6500	6500	6500	7000	7000	7500			
	Service weight, standard truck		(kgs)	73500	81800		74100	81300	83500	83300	84800	88400			
TS	Axle load, front at load centre L4, unloaded - loaded		(kgs)	41000 - 107000	42000 - 108000		41600 - 106000	42400 - 106800	44500 - 108900	43500 - 106500	45000 - 108000	46000 - 107800			
EIGH	Axle load, front at load centre L5, unloaded - loaded		(kgs)	46700 - 91100	48000 - 105400		46900 - 94900	48000 - 106800	50200 - 109000	48800 - 112600	50300 - 114100	51000 - 121200			
>	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	32500 - 11500	39800 - 18800		35200 - 13100	38900 - 19500	39000 - 19600	39800 - 21800	39800 - 21800	42400 - 25600			
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)	26800 - 7400	33800 - 8400		27200 - 7200	33300 - 8500	33300 - 8500	34500 - 8700	34500 - 8700	37400 - 10200			
SILS	Tyres, dimension, PLY rating, star rating <sup>2</sup>			18 x 25", PR40, E4	18 x 33", PR36, E4		18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 33", PR36, E4	18x33",PR40/E4	18x33",PR40/E4	18x33",PR40/E4			
Æ	Tyre pressure (front - rear)		(MPa)	1,0	/ 1,0					1,0 / 1,0					
>	Track width (front - rear)	S1 - S2	(mm)	3030 - 2600	3030 - 2800		3030 - 2600	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800			
	Boom angle, min - max		(deg)	0	- 60		0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 58			
	Boom height, min - max	H3 - H5	(mm)	4600 - 18200	4700 - 18300		4600 - 18200	4700 - 18300	4700 - 18300	4700 - 18300	4700 - 18300	4750 - 18400			
	Chassis height - top of boom fixation, max	H2	(mm)	3925	4025		3925	4025	4025	4025	4025	4025			
	Lift height, min-max in twistlocks, row 1	H4	(mm)	14900	15000		14900	15000	14900	14900	14900	15000			
	Boom reach stroke		(mm)	7000						7000	7000	7000			
IONS	Truck height - seat height	H6 - H8	(mm)	4600 - 2575	4700 - 2675		4600 - 2575	4700 - 2675	4700 - 2675	2675	2675	2675			
ENS	Overall truck length, without - with boom	L	(mm)	11200	11200		11700	11700	11700	12200	12200	12700			
	Truck width over drive axle	В	(mm)	4	150		4150								
	Spreader sideshift	V1	(mm)	+/-80	0 (1600)				+/-800	(1600)					
	Spreader rotation		(deg)	+195	5 / -105				+195	/ -105					
	Ground clearance		(mm)	250	300		250	300	300	300	300	300			
	Aisle width with 20'-40' container	A1 - A2	(mm)	11200 - 13600	11200 - 13600		11600 - 13600	11600 - 13600	11600 - 13600	12100 - 13600	12100 - 13600	12500 - 13600			
	Turning radius, outer with 20'-40' container	R1 - R3	(mm)	8100 - 9400	8100 - 9400		8500 - 9400	8500 - 9400	8500 - 9400	9000 - 9400	9000 - 9400	9400 - 9400			
	Travel speed, fw unloaded														
ш	- rated load / rw unloaded - rated load, max		(km/h)	28 - 22	/ 18 - 18		28-22 / 18-16								
N I	Lifting speed, unloaded - 70% of rated load		(m/s)	0,42	- 0,25		0,42 - 0,25								
DRIVE	Lowering speed, unloaded - rated load		(m/s)	0,36	- 0,36		0,36 - 0,36								
	Drawbar pull / towing capacity, max		(kN)	250			250								
	Tank volumes of working oil & brake oil		(1)	740 (60	740 (600 + 140)				740 (60	0 + 140)					
8	Working pressure boom/spreader, max		(MPa)	23	/ 16				23	/ 16					
OTHER	Noise level LpAZ (EN12053), inside cabin <sup>3</sup>		(dB(A))	68	- 70				68	- 70					
	Noise level LpAZ (2000/14/EC), outside cabin <sup>3</sup>		(dB(A))	103	- 106				103	- 106					
	, , , , , , , , , , , , , , , , , , ,		(- ( //												

Rows for Intermodal handling / Load center for Industrial handling
 4 + 2 pneumatic / diagonal tyres
 Depending on ECO Drive Mode setting

# **Industrial Handling.**

				DRG500-60A5E	DRG540-60A5XE	DRG540-65A5XE	DRG540-65A5XSI	DRG600-75A5XE	DRG600-75A5XSE	DRG570-65ZE	DRG600-65ZXE	DRG600-65ZXSE	DRG700-75ZXE	DRG700-75ZXSE
	Type of handling				Tool carrier			Tool carrier				Lifting hook		
	Lift capacity, row 1-2-3 / load center L4-L81	Q1 - Q2 - Q3 - Q4 - Q5	(tons)	50 - 27 - 16 - 11	54 - 33 - 20 - 14	54 - 38 - 25 - 17	54-38-25-17	60-45-29-21	60-45-29-21	57-54-31-19-14	60-60-38-25-18	60-60-38-25-18	70-60-45-30-22	70-60-45-30-22
≰	Lift capacity, row 1-2-3 / load center L4-L8 <sup>1</sup>	Q1 - Q2 - Q3 - Q4 - Q5	(tons)	-	-	-	54-45-34-23	-	60-50-38-27	-	-	60-60-45-34-24	-	70-60-50-39-28
NDA	Stacking capacity, in container row 1-2-3 of 8'6" / 9'6"			-						-				
MAI	Load centre, from front face of tyres	L4 - L5 - L6 - L7 - L8 including jacks	(mm)	2000	- 4000 - 6000 - 8000 - 1	10000	2000	- 4000 - 6000 - 8000	- 10000		1500	- 2000 - 4000 - 6000	- 8000	
	Lost load centre, to front face of tyres	X	(mm)	835	935	935		935		835	935	935	935	935
	Wheelbase	L3	(mm)	6000	6000	6500	6500	7500	7500	6500	6500	6500	7500	7500
	Service weight, standard truck		(kgs)	63000	72600	74000	76200	77000	78000	61100	70900	72100	74000	75000
2	Axle load, front at load centre L4, unloaded - loaded		(kgs)	29500 - 102800	29600 - 108800	31000 - 109600	33200 - 111800	34200-118700	35200-118700	26000 - 103500	27300 - 114600	28300 - 115600	30600-123300	31600-124300
EGH	Axle load, front at load centre L5, unloaded - loaded		(kgs)		-			-				-		
₹	Axle load, rear at load centre L4, unloaded - loaded		(kgs)	33500 - 10200	43000 - 16300	43000 -18400	43000 -18400	42800-19300	42800-19300	35100 - 14600	43600 - 16300	43600 - 16300	43400-20700	43400-20700
	Axle load, rear at load centre L5, unloaded - loaded		(kgs)		-			-				-		
တ္ခ	Tyres, dimension, PLY rating, star rating <sup>2</sup>			18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 33", PR36, E4		18 x 33", PR36, E4		18 x 25", PR40, E4	18 x 33", PR36, E4	18 x 33", PR36, E4	18x33",PR36/E4	18x33",PR36/E4
핖	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 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2600	3030 - 2800	3030 - 2800	3030 - 2800	3030 - 2800
	Boom angle, min - max		(deg)		0 - 60		0 - 60	0 - 58	0 - 58		0 - 60		0 - 58	0 - 58
	Boom height, min - max	H3 - H5	(mm)	4600 - 18200	4700 - 18300	4700 - 18300	4700 - 18300	4750 - 18400	4750 - 18400	4600 - 18200	4700 - 18300	4700 - 18300	4750 - 18400	4750 - 18400
	Chassis height - top of boom fixation, max	H2	(mm)	15150	15250	15250	15250	4025	4025	15300	15400	15400	4025	4025
	Lift height, min-max in twistlocks, row 1	H4	(mm)		-			15250				15400		
	Boom reach stroke		(mm)		7000			7000				7000		
ONS	Truck height - seat height	H6 - H8	(mm)	4600 - 2575	4700 - 2675	4700 - 2675	4700 - 2675	2675	2675	4600 - 2575	4700 - 2675	4700 - 2675	2675	2675
ENSI	Overall truck length, without - with boom	L	(mm)	10800	10800	11300	11300	12300	12300	10900	10900	10900	11900	11900
M	Truck width over drive axle	В	(mm)		4150			4150				4150		
	Spreader sideshift	V1	(mm)		+/-450			+/-450		-			-	-
	Spreader rotation		(deg)		+195 / -105			+195/-105				360 endless		
	Ground clearance		(mm)		300			300			300		300	300
	Aisle width with 20'-40' container	A1 - A2	(mm)		-					-				
	Turning radius, outer with 20'-40' container	R1 - R3	(mm)	8100	8100	8500	8500	9400	9400	9400	12450	12450	9400	9400
ш	Travel speed, fw unloaded - rated load / rw unloaded - rated load , max		(km/h)		28 - 22 / 18 - 18			28-22 / 18-18				28 - 5 / 18 - 5		
II.	Lifting speed, unloaded - 70% of rated load		(m/s)		0,42 - 0,24			0,42 - 0,24				0,42 - 0,22		
BINE	Lowering speed, unloaded - rated load		(m/s)		0,36 - 0,36			0,36 - 0,36				0,20 - 0,36		
	Drawbar pull / towing capacity, max		(kN)		250			250				250		
	Tank volumes of working oil & brake oil		(1)		740 (600 + 140)			740 (600 + 140)				740 (600 + 140)		
毌	Working pressure boom/spreader, max		(MPa)		23 / -			23				23		
OT.	Noise level LpAZ (EN12053), inside cabin <sup>3</sup>		(dB(A))		68 - 70			68 - 70				68 - 70		
	Noise level LpAZ (2000/14/EC), outside cabin <sup>3</sup>		(dB(A))		107 - 110			107 - 110				107 - 110		

Rows for Intermodal handling / Load center for Industrial handling
 4 + 2 pneumatic / diagonal tyres
 Depending on ECO Drive Mode setting



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