



Built on a proven platform.

With 1000s of machines built on our proven G-Generation platform you can expect a reachstacker that is ready to take on any task. There are many additional benefits to a common platform:

A standardised driver control panel: all machines built on this platform have the same operator controls and interface, making it easier to move from one type of machine to another.

Common electrical systems: uses standardised error codes for fast and easy trouble shooting.

Common points of connection: to make it easier for data to pass from your machine to external reporting systems, to Kalmar SmartFleet or your own system.

Increased availability: common platforms, mean more common parts, which has helped us increase parts availability through Kalmar MyParts, our 24/7 parts portal.

A broad range of machines.

Our range of Essential Reachstackers is available with lifting capacities of up to 57 tonnes for containers or industrial applications. There are four different machines to choose from.

Container handlers									
	Wheelbase	1st row	2nd row	3rd row					
		Capa	city (to	nnes)					
DRU450-60S5	6000mm	45	27	13					
DRU450-62S5	6250mm	45	31	15					
DRU450-65S5	6500mm	45	32	16					

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Industrial handlers								
	Wheelbase	LC1	LC2	LC3				
		Capacity (tonnes)						
DRU570-Z (Hook)	6500mm	57	54	41				

With Kalmar quality built in.

With Kalmar you should only expect the best, as our focus is on building a machine that will offer superior safety, driver comfort and be highly reliable.



Each of our machines has been designed to exceed the ISO 22915 standards, so you get a very safe and stable machine to operate.



We go to great lengths to choose and test all the components used to build our reachstackers, which are only supplied from leading manufacturers, to guarantee their quality and performance.



To avoid corrosion we treat all sensitive surfaces, steps, platforms, exhaust pipes, nuts and bolts, with long-life surface coatings or highly corrosion resistant material.







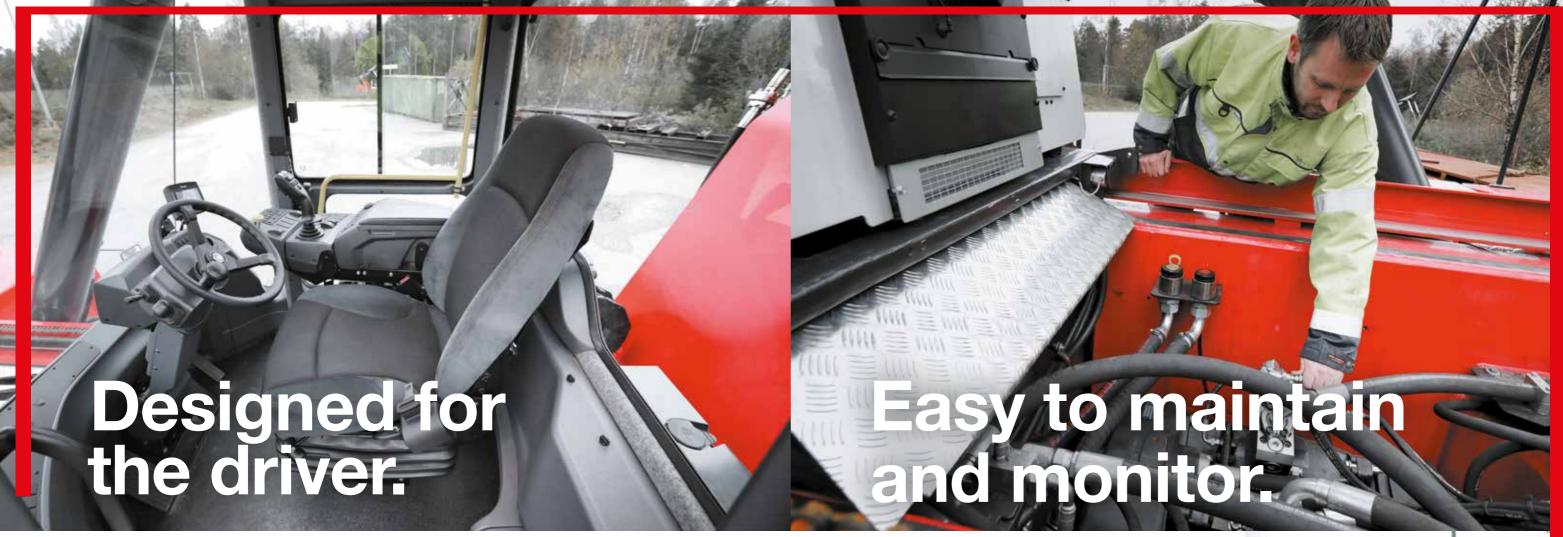
The safety of your drivers is of critical importance, which is why our machines come with many more safety features fitted as standard than other machines available in the market:

- Extra safe access to the cabin with non-slip surfaces and extra safety rails that allow your operator to meet the 3-point contact rule.
- There are doors on both sides of the cabin in case your operator needs to leave the cabin quickly in case of an emergency.
- Enhanced visibility from the cabin, giving you a much better view forwards and upwards.
- 2-point seat belts fitted to keep your operator secure.
- Openable side window in the cabin for easy communication.
- Rear-view mirrors mounted on the front mudguards so your operator can see behind him easily
- Overload protection system that will warn the driver if the load exceeds the specified limits.
- LED lights as standard, for better visibility when working in reduced light.
- Kalmar designed steering axle with extra wide tracking for increased stability.
- A fail-safe seat switch that will not allow the machine to be started without the operator in the seat.
- An electrically operated hand brake that is automatically applied as soon as your engine is turned off, bringing your machine to complete stop.

You can also enhance your employees' safety further by fitting your machine with an optional Reverse Warning System, Alcolock, Speed Limiter or additional LED lights.







Introducing the new Essential Cabin.

The Kalmar Essential Cabin has everything your drivers need to operate at their best.

The well-designed, spacious cabin offers great visibility both forward and backward. An adjustable seat and steering wheel, power-assisted steering, and a choice of joysticks.



You can choose from our F-Generation joystick or our ergonomically designed G-Generation joystick. Both will help keep your driver in complete control as all operations can be managed from one place.



No matter what the weather, your drivers will be comfortable with our improved electronic climate control package with extra strong fans to remove condensation quickly and to maintain a steady temperature in the cabin. You can keep your operators out of the sun with visors that can be fitted on the front, rear or roof windows of the cabin.



With the Kalmar Essential Range reachstacker you get more features as standard; sliding side windows, colour operator displays, wipers on the front, rear and roof of the cabin.









G-Generation joystick.

F-Generation joystick.

Easy to maintain, with industry leading service intervals.

Performing daily inspections and routine servicing is quick and convenient with all check points easily and safely accessible. The electrical cabinet is convenient to access and when the hatch covers are raised, the hydraulic filters, servicing points and the entire driveline can be reached from one location. With industry-leading service intervals, your machine will spend less time being maintained and regular service tasks can be done quicker and more efficiently, all helping to increase the overall availability of your machine.

Optimise your operations with SmartFleet.

Kalmar SmartFleet can help you understand more about your fleet and your overall operations. It will help you improve your performance, as data is streamed directly from your equipment, analysed and then displayed in an accessible and easy-to-use graphic interface. You will be able to assess the equipment's key performance data and adapt your operational processes to improve both efficiency and productivity. Kalmar SmartFleet enables you to manage your operations more effectively, decrease downtime and improve safety at your site.



Kalmar Training Academy.

For your team to get the most out of their new reachstacker, the Kalmar Training Academy offers a range of courses for both your technicians and operators. Operators will be shown how to optimise their day-to-day operational performance and what needs to be checked daily on the machine before operations begin. Technicians will be given the knowledge needed to keep your new machine in top condition. Courses are a mix of theory and hands-on experience and can be held at Kalmar or at your site.



A range of options.



Rear mounted camera. Knowing what's going on behind you is critical when other personnel are present. A rear mounted camera can provide realtime information to an in-cabin display, helping improve personnel and driver safety.



Speed limiter. Allows you to set a safe speed limit on the machine that your operators cannot exceed.



Additional lighting. Extra LED lighting brings greater operational visibility and safety for personnel working at your site, particularly at night. You can choose from:

- Flashing LED brake lights when reversing
- Additional LED lights on the boom
- Additional LED lights on the cabin roof.



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.



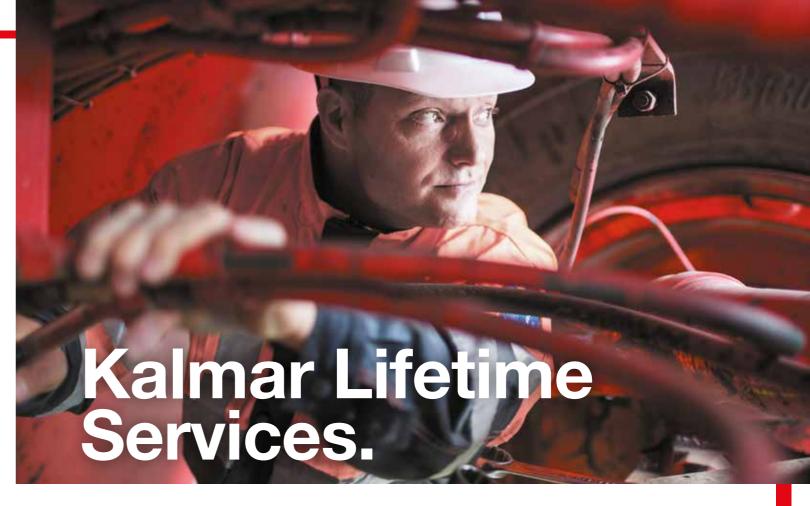
Alcolock. To ensure that your driver is at their best when operating your equipment, you can install an Alcolock system. This system makes sure that the driver meets alcohol blood level standards before being able to start the machine, much like a breathalyser.



Tyre pressure monitoring. 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.



Heavy duty rims. For machines that have to handle really tough conditions, you can fit heavy duty rims that have an extended lifetime.



Making sure your business never stops.

We offer four different types of service and maintenance contracts. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. Each contract type includes a set of standardised service modules to meet your business needs.

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.

Kalmar Genuine Parts, when the right part matters.

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



Financing options for you.

You may choose to buy your new reachstacker outright or consider leasing or renting your equipment. Kalmar offers a range of leasing and rental options that give you the financial predictability you need and the option to upgrade your equipment after a fixed period. With our leasing packages, you can focus on your core operations, while we perform all your service and maintenance needs. Kalmar can also look at you trading-in your old equipment.

Standard.

Kalmar DRU 450S (S = Toplift) Kalmar DRU 570Z (Z = Lift Hook)

Norms, standards and regulations according to:

- Machinery Directive 2006/42/EC
- Safety Variable Reach Trucks EN 1459+A3:2012
- Safety Low & High Lift Trucks ANSI/ITSDF B56.1
- Stability Variable Reach Trucks EN 1459+A3:2012
- CE-marking for trucks within EU/EEA
- ANSI/ITSDF-marking for North America trucks

- Strong, durable heavy-duty chassis for reachstackers
- Safe access steps, platform & handrails (LHS)
- Long bottom access step (on both sides)
- Lifting eyes and anchor points (front & rear)
- Good visibility over rear of truck
- Open chassis with full access to the driveline
- Easy-to-open driveline cover plates (low noise)
- Lifting eyes and anchor points (front & rear)
- Towing pin (rear incasted)

- Steps with anti-slip protection
- Rear view mirrors (2x) positioned on front mudguards
- Strong and protective mudguards (front & rear)

Steer Axle (rear)

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

Drive Axle (front)

- Kessler D102 planetary drive axle
- Durable axle with 2-stage hub reduction and
- Wide axle for high side stability (4150 mm)
- Strong and powerful oil-cooled Wet Disc Brakes (WDB)
- High pressure filter (10 my) for the brakes (WDB)
- Separate brake oil tank (140 lit), cooling & breather filter

Wheels (tyres & rims)

- Drive tyres (4x); 18.00x25"Steer tyres (2x); 18.00x25"
- Standard rim
- Wheel nut protection on steer tyres
- E3 tyres

Driveline (CanBus)

- Volvo and Cummins diesel engines (6-cylinder)
- Durable and strong engines with pre-heater
- Emission approval EU3 / Tier 3 or EU4 / Tier 4F
- Engine monitoring and protection system
- Fully automatic transmission DANA TE-30500 (5+3)
- Transmission monitoring and reverse protection
- Declutch function activated by brake pressure
- Efficient radiators for engine, transmission & brakes
- Diesel tank (550 l), cooling & breather filter
- Noise efficient muffler and tall exhaust pipe

Efficient Hydraulics

- Load-sensing variable piston pumps
- Power-on-demand with high lift & lowering speeds
- Pumps for boom, spreader, brakes & steering • Gear pumps for brake pressure & oil cooling (2x)
- Return filters for the work hydraulics (2x/10 my)
- Servo filter for the work hydraulics (1x/10 my) Pressure filter for hydraulics / brakes (2x/10 my)
- Regenerative high-speed lifting & extension
- Power steering, power brakes & ORFS-couplings Hydraulic tank (600 l), cooling & breather filter
- Separated dual oil tanks

Lifting boom

- Strong, durable box-type boom with guide pads • Boom with 2 lift cylinders & 1 extension cylinder
- Boom end-damping (in-out/up-down/20-40')
- Lift booms with an extension stroke of 7.0 m.
- Duplex 2-stage S5/5 (H4 = 1.15-15.10 m)
- Duplex 2-stage Z5 (H4 = 1,15-13,0 m)

Attachment Toplift (S)

- Top lift 45 tons, hydraulic extension 20'-40'

 Identify twistlocks & LED-indication lamp panel
- Safety locking, alignment pins & sensors (4x)
- Large sideshift of ±800 mm
- Rotation +195/-105 deg (2 motors & 2 brakes)
- Mechanical Pile Slope (MPS) ±5 deg
- Mechanical Length Tilt ±5 deg (F/B) • Lift hooks for slings on end beams (4x)

Attachment Lift Hook (Z)

- Lift hook, dual hook, free rotation 360 deg (L/R-F/R)
- Lift hooks (4x) for slings on lift hook main frame

Electronic System 24V (G-Generation)

- Fully redundant 24V electrical system
- Battery box 2x12V & main power switch
- Electric service box on chassis (LHS)
- 2 working LED-lights on front mudguards (head beam)
- 2 working LED-lights on boom (lift cylinders 20ft)
- 2 working LED-lights on spreader (twistlocks)
- 2 working LED-lights on counter weight (when reversing)
- 2 position LED-lights on each side of the truck
- 2 tail / brake LED-lights on counter weight (rear)
- 4 blinker LED-lights (front rear / left right)
- Flashing LED-brake lights (when reversing) • 1 rotating warning LED-beacon (on pole / LHS)
- 1 reverse signal / alarm (buzzer when reversing)

Fleet Management

 Kalmar SmartFleet one vear licence included (in available countries only)

Essential Cabin Structure

- Spacious, modern, ergonomically designed cabin
- Large windows, good visibility, in all directions
- In-step handle (left side)
- Sliding window on both sides
- Tinted tempered windows
- Manual moveable cabin (stroke 2375 mm) Comfort
- Comfortable seat, mechanical spring, high back
- Adjustable armrest (RHS) & 2-point safety belt
- Inside rear view convex-type mirror (right side)
- Interior lights with fade away function
- Fully adjustable steering wheel column incl. tilt function
- Electrical adjustable operational console with levers, operational buttons & armrest (RHS)
- Power steering wheel with steer knob Electric horn
- LED background light for buttons & switches
- Joystick for hydraulic functions
- Auto rev-up accelerator at lifting / tilting / spreader Accelerator pedal (floor-mounted)
- Double brake pedals (L + R / floor-mounted)
- Gear lever with electronic hand brake (on/off) Automatic gear shifting (P1)
- Only first gear activated (P2)
- Only second gear activated (P3) Safety override for hydraulic functions (by code)
- Multi-function lever LHS (parking brake and gear/ direction switch)
- Combined horn and blinker lever.
- Warning hand brake (on/off) leaving seat
- Hour meter

- Electronically controlled heating/ventilation
- Fresh air and recirculation filter
- Single wiper/washer on front window • Single wiper/washer on roof and rear windows
- Interval wiper functions on front, roof and rear

- Information systems
 HMI based on TFT-display 70 x 52 mm (3.2" x 2.2")
- Colour display (DP-250) with automatic fault analysis
- Menu control with toggle wheel & push buttons • Electronic safety, overload, scale & synchronized lift
- Longitudinal Load Moment Indicator (LLMI) (pop-up menu)
- Longitudinal Load Moment Control (LLMC) (pop-up menu)
- Electronic weight scale in main display (LLMC)

Operator menu:

- System voltage
- Actual gear
- Engine rpm • Travelling speed (km/h or mph)
- · Combined hydraulic and brake oil temperature
- Transmission oil temperature
- Engine oil pressure & oil level (Volvo)
- Engine oil pressure only (Cummins)
- Engine coolant temperature
- Load weight (capacity) & Load distance (LC)
- Boom extension & Boom angle
- Clock and date • Operating time (hours)
- Service time indicator (hours)
- Status of heating system & AC system
- Fuel level (diesel and optional AdBlue) • Estimated operating time before empty tank
- (hour/min)

Service indicator

- Pop-up menu:
- Overload warning in spreader / boom
- Overload warning steering axle (high or low) Various warning lights & signals:
- Charging battery
- Low brake pressure
- Failure indicator
- Safety system disconnected
- High engine coolant temperature • Low engine coolant level (Volvo only)
- Low engine oil pressure
- Preheating engine • Transmission oil temperature
- Low fuel level
- Hydraulic oil temperature Safety system disconnected
- Indicator lamps:
- Head beam Direction indication

Parking brake

- Chassis, tanks & mudguards: Red RAL 3000
- Boom, attachment & axles: Black RAL 7021 • Cabin: Light-Grey RAL 7035
- Rims: Light-Grey RAL 7035

- **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

Options.

Kalmar DRU 570Z (Z = Lift Hook)

Chassis (container handling)

- DRU reachstackers container Toplift (S-range)
- Wheelbase 6,0 / 6,25 / 6,5 m (only 6,25 m available from Kalmar Europe)
- DRU450-60S5 (Cap = 45-27-13 t / L3=6,0 m /
- 5-hiah 9'6") • DRU450-62S5 (Cap = 45-31-15 t / L3=6,25 m /
- 5-high 9'6") • DRU450-65S5 (Cap = 45-32-16 t / L3=6.5 m / 5-high 9'6")

- Chassis (industrial handling)
- DRU reachstackers industrial Lift Hook (Z-range)

LH=1,25-13,0 m)

 Wheelbase 6.5 m • DRU570-65Z5 (Cap = 57 t / L3=6500 mm /

- Anti-slip protection on fenders and tanks
- Mudguards in steel + rubber (front) • Mudguards in rubber (rear)
- Noise insulation kit for the complete truck (-3dB)

Steer Axle (rear) • Steer cylinder spacer (less tyre wear)

- Wheels (tyres & rims)
- Spare tyre, rim or complete wheel of various brands Special packages with 6-to-12 pcs (tyre, rim or wheel)
- Tyre dimension 18.00×25" for standard models

Heavy duty rim

- Auto engine & ignition stop, after 5 min idle • Pre-Cleaner air intake incl. raised air intake • DANA TE-30500 with 5+3 gears
- Cummins QSM-11 (EU3 / Tier 3, 224-256 kW, 1575 Nm, 10.8 l)
- Volvo TAD-1150-VE (EU3 / Tier 3, 235 kW, 1581 Nm, 10.8 l) Volvo TAD-1170-VE (EU4 / Tier 4F,

Good performance drive line optimized.

for 2 100 rpm

235 kW, 1581 Nm, 10.8 l)

Load-Sensing Hydraulics

• Hydraulic longlife fine filter with by-pass (3 my)

- Attachment
- Automatic extension 20ft-40ft incl 30ft stop • Rotations stop spreader ±25 deg + override switch
- Extended twistlocks +300 mm • Additional lifting eyes on spreader (2x or 4x) • Long boom nose 1,0 / 1,6 / 2,0 m

• Forward tilt +/- 2 degrees

• Electric air pressure horn

- Electrical system 24V
- Extra sockets, 2x24V + 2x12V • Extra sockets, 1x12V + USB 1x5V + 2x24V • Extra sockets, USB 2x5V + 2x24V
- Radio with CD/MP3/USB • 1 NATO starting aid / contact
- 2 extra working LED-lights on mudguard (forward) 4 extra working LED-lights on mudguard (20-40ft)
- 2 extra working LED-lights on cabin roof (forward) 2 extra working LED-lights on middle of boom • 4 extra working LED-lights on front of boom
- 2 extra working LED-lights on spreader (twistlocks)
- 2 extra reverse LED-lights on counter weight (rear) 1 extra warning LED-beacon (on pole / RHS)

• 2 extra warning LED-beacon (on C.W. / LHS+RHS)

Electronic System 24V (G-generation)

Vehicle Data Interface (VDI)

Speed and Lift Settings

- All settings can be changed and are programmable
- A standard default factory setting is supplied
- Boom lift height limit; standard + override button
- Boom load centre limit; standard + override button
- Speed limit: standard (default 15 km/h) • Speed limit; over defined height (10 km/h at 7.5 m)
- Speed limit; with load outside transport position Speed warning: at 15 km/h

Essential Cabin

- Structure • Hydraulic sliding cabin (stroke 2375 mm), anti-collision function to avoid container / trailer hitting cabin
- from the front • Speed limitation relative to cabin position
- Front window in laminated glass (AS1) Comfort
- Seat alternatives (spring or air-cushion)
- · Seat with headrest • Adjustable armrest (LHS)
- 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 convex-type mirror (in cabin / left side) Controls

Climate

- Electronic joystick for hydraulic functions (F-Generation)
- Electronic joystick for hydraulic functions (G-Generation) • Button for forward-neutral-reverse on lever/joystick
- Electronic Climate Control (ECC) incl AC • Sun visor front window (black net) • Sun visor roof window (black net)

• Sun visor rear window (black net)

and statistics

Information system Operator menu • Container counter with reset function, trip computer

Head-Up display for twistlock indication

LED indicators for alignment & container(s)

Additional equipment

- Reverse camera in rear C.W. (1x) including
- display 17 cm/7" Spreader twistlocks cameras LHS / RHS (2x),
- incl display 17 cm/7" Reverse Warning System (sensors, rev camera
- & display)
- Tyre Pressure Monitoring System (Bluetooth)
 Diesel powered cabin heater 5 kW
- Alcolock in cabin
- Automatic Fire Suppression System
- Fire extinguisher 5-6 kg, powder
- Tool kit
- Cabin heater incl 220V outlet
- Engine heater incl cab heater • Engine/hydraulic oil heater incl cab heater
- Central greasing base machine Central greasing spreader

(SOLAS compliant)

(specify RAL no)

printed copy

 Filter kit 2000 hrs Kalmar Load Measurement System

• Other colour than standard - on cabin (specify RAL no) Reinforced anti-corrosion protection (extra primer)

• Other colour than standard - on chassis

- **Documentation and Decals** • Extra documentation set (SPB, MB, IB) -
- Extra documentation set (SPB, MB, IB) digital • Work shop manual - engine (printed or digital)

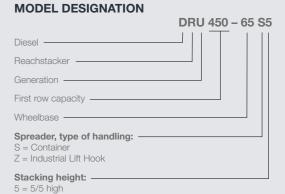
• Work shop manual - all (printed or digital)

programs

Contact Kalmar Training Academy for training

• Work shop manual - transmission (printed or digital)

Work shop manual - drive axle (printed or digital)



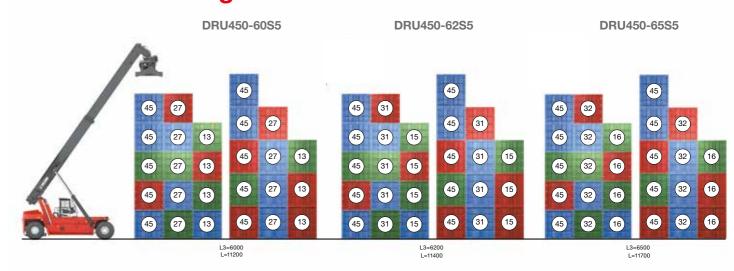
Technical information.

1	Truck Model				DRU450 S		DRU570 Z
2	Stacking model and height			DRU450-60S5	DRU450-62S5	DRU450-65S5	DRU570-65Z5
_	Type of handling				Container handling		Industrial handling
4	Lift capacity, row 1-2-3			45 / 27 / 13	45 / 31 / 15	45 / 32 / 16	57 / 54 / 41
5	Load centre, from front face of tyres		(mm)		1965 / 3815 / 6315	5/5 - 5/4 - 4/3	1000 / 1500 / 2000
6	Stacking capacity in container row 1-2-3 of 8'6" / 9'6"			5/5 - 5/4 - 4/3	5/5 - 5/4 - 4/3	-	
7	Spreader type, extension stops, locking		(ft)		Pile Slope (MPS) by 4 oft and 40 ft / 4 Twis	-	
8	Attachment				-	Dual lift hook (free rotation) / 4 fixed lift eye	
9	Wheelbase	L3	(mm)	6000	6250	6500	6500
10	Service weight		(kgs)	67400	69500	69500	60500
11	Axle load front at load centre L4, unloaded – at rated load		(kgs)	34600 - 100600	34700 - 99900	35000 - 99400	34600 - 100600
11 12 13	Axle load rear at load centre L4, unloaded – at rated load		(kgs)	32800 - 11800	34800 - 14600	34500 - 15100	32800 - 11800
13	Axle load front of driving position according to EN 1459 - at rated load		(kgs)	88800	88500	88500	88800
14	Axle load rear at driving position according to EN 1459 - at rated load		(kgs)	23600	26000	26000	23600
15	Tyres, type - thread			Diagon	al / Pneumatic / Tub	peless	Diagonal / Pneumatic / Tubeless
16	Tyre dimensions, front & rear		(in)	18.00x	(25 - 18.00x25, PR4	10 E3	18.00x25 - 18.00x25, PR40 E3
17	Rim dimensions, front & rear		(in)	1:	3.00x25 - 13.00x25	i	13.00x25 - 13.00x25
17 18	Number of wheels, front - rear (*driven)				4* - 2		4* - 2
	Pressure		(MPa)		1.0		1,0
20	Track (c-c), front - rear	S1 - S2	(mm)		3030-2600	3030 - 2600	
21	Boom type - cylinder design				tage boom with 2 lift at 1 extension cylind		Duplex 2-stage boom with 2 lift cylinders and 1 extension cylinder
22	Boom angle, min - max	alfa-beta	(deg)		0 - 60		0 - 60
23	Boom height, min - max	H3 - H5	(mm)		4600 - 18200	4600 - 18200	
24	Boom reach stroke, max		(mm)		7000	7000	
25	Attachment/hook rotation, CW - CCW		(deg)		195 - 105	360	
26	Sideshift ±		(mm)		±800	-	
27	Number of rotation motors and rotation brakes				2 + 2		
28	Spreader lifting hooks/eyes				4	4	
29 30 31	Mechanical Pile slope stroke (MPS), side tilt in spreader		(deg)		±5	-	
30	Lift height, min-max	H4	(mm)		1150 - 15100	1250 - 13000	
31	Truck height / seat height	H6 - H8	(mm)	3650 / 2575			2575
32	Overall truck length, without and with boom	H6 - H8	(mm)	8015 - 11200	8265 - 11450	8515 - 11700	8515 - 11700
33	Sideshift	L	(mm)		±800		-
34	Ground clearance, min.	V1	(mm)		250		250
35	Width of truck	В	(mm)		4150		4150
36	Width over attachment, min-max	B1 - B2	(mm)		6085 - 12220		-
37	Aisle width for 90° stacking, 20ft container - 40ft container	A1 - A2	(mm)	11200 - 13600	11400 - 13600	11600 - 13600	-
38	Turning radius, inner / outer 20ft / outer 40ft	R1-R2-R3	(mm)	8100 / 1200 / 9400	8300 / 1200 / 9400	8500 / 1200 / 9400	8500 / 1200 / -
39	Distance front axle – front of attachment MPS	L2	(mm)	9400	835	9400	835
			()				
40	Type of engine			Die	esel / 4-stroke / Turb	00	Diesel / 4-stroke / Turbo
41	Drive axle			Kessler D-102,	WDB, differential &	hub reduction	Kessler D-102, WDB, differential & hub reduction
42	Travelling speed forward, unloaded – at rated load		(km/h)		26 - 21		& hub reduction
43	Travelling speed backward, unloaded – at rated load		(km/h)		18 - 16		18 - 5
11	Gradeability max., unloaded – at rated load		(%)	26 - 17			30 - 18
45 46	Gradeability at 2 km/h, unloaded – at rated load		(%)	35 - 30			26 - 16
46	Lifting speed, unloaded – at 70% of rated load		(m/s)	0,40 - 0,24			0,40 - 0,24
47	Lowering speed, unloaded – at rated load		(m/s)	0,36 - 0,36			0,25 - 0,36
48	Starting battery, voltage – capacity		(V - Ah)		2×12 - 135-145	2×12 - 135-145	
49	Steering system, type – maneuvering		. , ,	Servo	assisted - Steering	Servo assisted - Steering wheel	
50	Service brake system, type – affected wheels				lisc brakes - Drive w	Wet disc brakes - Drive wheel	
51					ng brake - Drive wh		Spring brake - Drive wheel
				-1	-		
	Tank volumes, diesel - AdBlue - oil		(dm3)	550) / 35 / 740 (600+14	10)	550 / 35 / 740 (600+140)

Drivelines.

Truck Model	DRU450 S			DRU570 Z				
Engine emission approvals		EU3 / Tier 3	EU4 / Tier 4F	EU3 / Tier 3	EU3 / Tier 3	EU4 / Tier 4F	EU3 / Tier 3	
Engine emission brand/series		Volvo	Volvo	Cummins	Volvo	Volvo	Cummins	
Engine model		TAD-1150-VE	TAD-1170-VE	QSM-11-C300	TAD-1150-VE TAD-1170-VE QSM-11-0			
Engine after treatment type		No SCR / no AdBlue	SCR / AdBlue	No SCR / no AdBlue	No SCR / no AdBlue SCR / AdBlue No SCR / no		No SCR / no AdBlue	
Engine design / cylinders		6-inline / common rail	6-inline / common rail	6-inline / common rail	6-inline / common rail	6-inline / common rail	6-inline / common rail	
Engine displacement	(dm3)	10.840	10.840	10.800	10.840	10.840	10.800	
Max power @ engine speed	(kW)	235 @ 1450 - 2000	235 @ 1450 - 2000	224 (256) @ 2000 (1800)	235 @ 1450 - 2000	235 @ 1450 - 2000	224 (256) @ 2000 (1800)	
Max torque @ engine speed	(Nm)	1581 @ 950-1450	1581 @ 950-1450	1575 @ 1400	1581 @ 950-1450	1581 @ 950-1450	1575 @ 1400	
Drawbar pull, max	(kN)		300		300			
Fuel consumption - average diesel	(l/h)		14 - 18		14 - 18			
Fuel consumption - average AdBlue	%	-	1-5	=	- 1-5 -			
Transmission model (gears FWD + RVS)			Dana TE-30500 (5+3))	Dana TE-30500 (5+3)			
Transmission gear shift type		Automatic powershift Automatic powershift						
Transmission clutch type		Torque converter Torque converter						
Drive axle brand / series		Kessler D-102 (WDB) Kessler D-102 (WDB)						
Service brake / cooling		Wet Disc Brakes with oil cooling			Wet Disc Brakes with oil cooling			
Alternator, power	(V/A)	AC, 4200 (28 x 150)	AC, 4200 (28 x 150)	AC, 2800 (28 x 100)	AC, 4200 (28 x 150) AC, 4200 (28 x 150) AC, 2800 (28 x 10		AC, 2800 (28 x 100)	

Lifting capacity - container handling.







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