Kalmar Reachstacker DRG100



Loaded with productive versatility.

We are proud to present a new Gloria family member: the Kalmar DRG100. With this reachstacker for empty and semi-laden container handling you get it all. The ability to handle all sorts of containers, flat racks and slinged loads up to 10 tonnes precisely and safely. The rotation necessary for efficient action in confined spaces. And the quality that makes your business prosper, both in the short and long term. We offer two models: the DRG100-S6 stacks 6 containers high in the first row and the DRG100-S8 stacks 8 high in the second row.

Everything within container handling

The Kalmar DRG100 has the capacity to handle all types of containers (standard ISO, reefers, tanks, specials and flat racks) and slinged loads up to 10 tonnes.

All common spaces

A reachstacker like the Kalmar DRG100 adds another dimension to empty container handling. Containers can be transported at full width, turned 45° or lengthwise at 90°, making it possible to deliver "endon" into and through low workshop doors, port sheds and other tight openings. Operators don't have to pick up containers right-angled, and can increase efficiency and handling speed during yard stacking, loading of road trucks or container repairs.

Rotate, lift at a 45° angle, drive forwards or reverse with a full tilt stroke, reach 6 or 8 containers high and work in second or third row. All this is possible – and easy. You can even do a unique 1,000 mm side shift and rotate the container so the door is on the right side. The Kalmar DRG100 is the only reachstacker for empty and semi-laden container handling on the market that can offer all of these smart functions.

Fully equipped – safe and sound

Our Generation G reachstackers are safe machines and the Kalmar DRG100 is no exception. Extremely stable – it's the only reachstacker on the market with the high-capacity 5.4 m wheelbase. It has the best combined lift capacity in rows 1-2-3, a spreader with the biggest side shift and 4 extra lift hooks, front and reverse tilts, twistlock status indicators, dual rotation motors and brakes, and a complete LED lamp kit as a standard.

Options include a Reverse Aid Warning System with a detection range from 0,5 up to 9 m, a Kalmar Personal Proximity System that covers up to 20 m and Kalmar TLX (Tyre Life eXtension), which allows tyres to move independently for better manoeuvrability, reduced tyre wear and increased fuel savings. Plus it offers the benchmark of the world's best driver's cabin, providing a working environment that keeps the operator comfortable, alert and in full control over all kinds of loads.

All clear for efficient workshops

Service, maintenance and repair of containers and tank cleaning may be the lesser part of your operations. To further minimise your total cost of ownership, Generation G reachstackers have a service life that's longer than ever.

The Kalmar DRG100 offers full flexibility with full rotation, large sideshift and tilt to allow you to both transport and perform services, maintenance, repairs and cleaning with maximum efficiency. Low and narrow workshop doors don't present a problem for our reachstackers. Just turn the container lengthwise and drive inside.



- Standard ISO containers 20 ft 40 ft and pick-up in 40 ft position for 45 ft 56 ft sizes
- Standard ISO heights 4 ft 9 ft 6 in or special 10 ft 6 in
- Reefer containers 20 ft 40 ft (45 ft pick-up in 40 ft position)
- Tank containers 20 ft 30 ft
- Flat racks 20 ft 40 ft
- Slinged load in 4 lift hooks



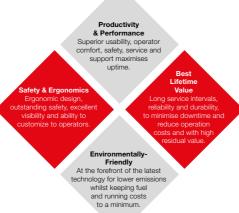
We built the first commercial reachstacker thirty years ago. And we've been stacking up innovations ever since, constantly inspired by the challenges of cargo handling – and cargo handlers - across the world. Our Generation G with the Kalmar DRG100 reachstacker is the latest development that takes productivity, efficiency and safety to a new level of excellence.

Delivering every day

Productivity & Performance, Best Lifetime Value, Safety & Ergonomics, Environmentally-Friendly are guiding stars at Kalmar, and have made our reachstackers the preferred choice in more than 160 countries.

10,000 good reasons to choose Kalmar

The Kalmar DRG100 is built on our latest technology platform, Generation G, which is based on our experience from our more than 10,000 reachstackers sold. Our goal was to provide the most outstanding operator experience, the highest level of productivity and the best lifetime value. An ergonomic cabin, integrated components, an electrical control system, a high degree of automation and intuitive, digital interfaces are just a few of the standard features.



Make every move count

When choosing the right machine for you, consider the full value. Kalmar reachstackers excel at reducing your total cost of ownership. With well-proven quality materials, durable components and sturdy design. the Kalmar DRG100 is a profitable choice. Extremely reliable, it optimises uptime and minimises operational and maintenance costs on a daily basis – but also in regards to lifetime value.



We are fully prepared to provide rapid support for the entire life cycle of your machine, before it leaves the factory floor. With Kalmar you also have the industry's most extensive support and after-sales network at your disposal. Our global presence and local service helps to ensure

swift response for everything from spare parts and product support teams down to individual, local service technicians.

After all, what good is even the best equipment on the market if it's left standing still? Our aim is to protect your investment, which is why our top priority is to minimise the costs of unnecessary downtime. This is also helps explain why Kalmar reachstackers consistently maintain one of the highest resale values.

Save time, money and the environment

The Kalmar DRG100 is equipped with modern, high-tech and fuelefficient Volvo diesel engines, of EU Stage 3A and 4 (EPA Tier 3 and 4 Final) emission norms. The 6-inline engines give you all the power and torque you need for empty and semiladen container handling but with a lower fuel cost. Performance needs can change by the day – or even by the hour. Kalmar offers three performance modes from which to choose, based on your needs for productivity, profitability and performance. With Kalmar EDM (ECO Drive Modes) on extensive, swift global service and the display the operator can select the performance level needed.

Kalmar TLX (Tyre Life eXtension) is an optional feature that allows tyres to move independently and extends tyre lifetime 150-300%, saves fuel and increases manoeuvrabilty, stabilitv and safetv.

The Kalmar Start/Stop system is an automated start-stop function that makes it possible to achieve up to 10% fuel savings through automatic activation and deactivation of your machine. By substantially cutting down on idle time, it also provides an effortless way to reduce emissions and unnecessary wear on compo-

The LED Light Kit is standard and gives the driver extremely strong illumination power at all times, even in bad weather or after sunset. LED increases the lifetime of the working lights to 30,000 hours and cuts energy consumption.

The Kalmar DRG100 also offers longer service and maintenance intervals, which cuts costs and increases uptime. The machine is easy to access for service. And Kalmar's after-sales network makes sure your uptime is maximised.

Power Mode is ideal when you require maximum performance at all times, more moves or tonne per hour.

Normal Mode allows for higher profitability with up to 10% fuel savings per tonne of cargo.

Economy Mode lets you save even more fuel per hour, offering up to 20% in reduced fuel consumption and reducing emissions.





Description	Check (hours)	Filter (hours)	Oil (hours)
First Machine service	500		
Working hydraulics (return line - no oil sample)		1 000	4 000
Working hydraulics (return line – with oil sample)		1 000	4 000 – 10 000
Working hydraulics (fine filter longlife)		500	
Engine (no oil sample) - Volvo		500	1 000
Transmission		1 000	1 000
Drive axle 1)			2 000
Spreader rotation hydraulic motor 1)			2 000

1) First oil change & filter change at 500 h - then after every 2 000 h



Boosting the core of efficiency

Reachstackers are only as good as their operators. So to make sure they can operate on a high level, we handle them with care. The EGO cabin of the Kalmar DRG100 offers an outstanding working environment and driving experience. The result is less downtime, fewer cargo damages and more alert, productive and healthy operators.

Experience the best

The EGO cabin is the result of our insight into operating conditions across the world, years of development and thousands of tests. It provides a seamless operating environment that minimises fatigue and enables optimal load handling.

Endless visibility

The open cabin design features slim profiles, no A-pillars and a widecurved, corner-wrapped windscreen. With a near absence of blind spots, visibility is optimised at all angles. The windscreen is equipped with unique high-capacity double wipers, and the roof with a single wiper. These dry and clean the surface to ensure visibility in wet and dirty conditions. The best you can get!

Stay in control naturally

The main operation work console, switches and indicators for data display and machine control systems are logically organised and well placed within sight and reach.

Fully equipped with electronic tools and an easy-to-use Kalmar Information Colour Display with intuitive Human-Machine Interface (HMI). All check-ups are easy to perform - you can see, hear, touch and react to inputs on the machine's performance without losing focus on your load. The intuitive Head Up display allows you to monitor loading and unloading as symbols shift from green to yellow to red, showing the twistlock and support jack status.

Superior ergonomic design

The patented side-tilting steering wheel can be angled to the side or moved forwards slightly to avoid obstruction and increase comfort. It also provides better control of loads and allows new steering possibilities.

The patented with a built-in directional shift knob (forward/ reverse shifter) stays firmly secured in position for smooth, safe directional changes

while optimising lifting capacity and ergonomically reducing arm fatigue.

The fully integrated, adjustable multi-seat provides the best possible sitting posture for long shifts and demanding operations.

The ergonomically designed comfort pedals are floor-based to minimise strain on the foot while enabling hard

Our standard Climate package is the most powerful on the market. It has the highest capacity heater, cooling and filtered airflow for super interior

Kalmar SmartFleet Remote Monitoring: Remotely monitors your equipment so you can increase its availability, providing optimal equipment efficiency at all times.



















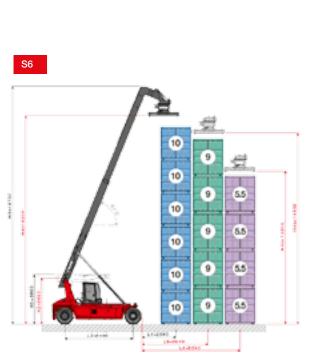


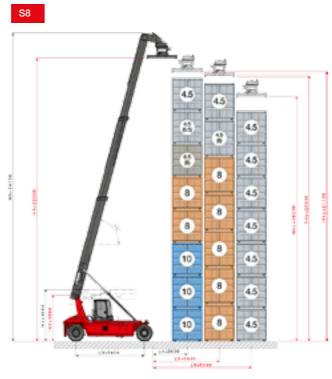


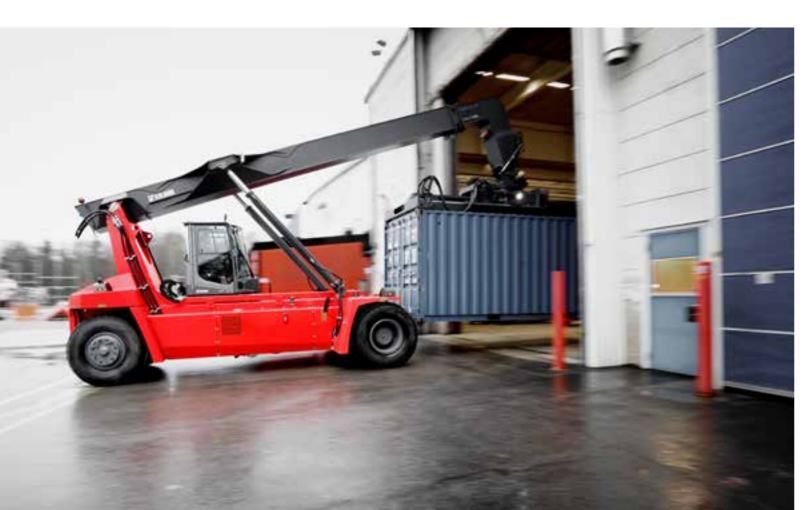




The mechanics of full capacity





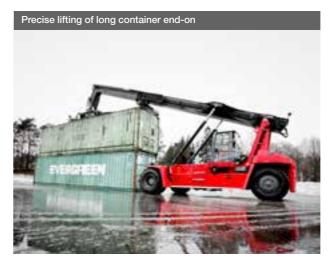


Long-lasting, hard-working hydraulics

- Load-sensing hydraulics (power-on-demand) with highly efficient variable piston pumps for increased oil and fuel efficiency with fewer heat and pressure peaks
- Exceptionally clean working oil 24/7, with return-line filters (2x10 um), servo filter (10 um) and low-pressure ultra-fine filter (5 um) to reduce particles, sludge and water. Also a brake-oil filter (10 um)
- Powerful double oil cooling for working hydraulics (I) and for the brake hydraulics.

This amounts to uniquely long-lasting hydraulics!







Strong drive trains - driving precise performance



Engine emission approvals	
Max emission norm values (Nox-HC-CO-PM)	
Engine brand / series	
Engine model	
Engine after treatment type	
Engine fuel / type / cylinders	
Engine charger technology	
Engine intercooler technology	
Engine displacement	(dm³ (in³))
Engine bore × stroke	(mm (in))
Max power @ engine speed	(kW / hp @ rpm)
Max torque @ engine speed	(Nm / lb-ft @ rpm)
Fuel consumption – average diesel	(L/h / gall/h)
Fuel consumption – average adblue	(L/h / gall/h)
Alternator type – power	(W)
Transmission brand – series	,
Transmission model (gears FWD + RVS)	
Transmission gear shift type	
Transmission clutch type	
Max power rating	(kW (hp))
Drive axle brand / series	
Steer axle brand / series	

KALMAR DRG	100-54 S6 / S8		
EU stage 3A	EPA Tier 3		
3.5 - 0.5 - 3.5 - 0.20	3.5 - 0.5 - 3.5 - 0.20		
Volvo / D-8			
TAD-851-VE			
No SCR, no AdBlue, no EGR			
Diesel / 4-stroke / 6-	-inline / common rail		
Fixed Geomet	ry Turbo (FGT)		
Intercooler	(air-to-air)		
7,700	470		
110 × 135	4.33 × 5.31		
185 @ 1,600-2,200	252 @ 1,600-2,200		
1,160 @ 1,100-1,500 855 @ 1,100-1,500			
8-15	2.1-3.9		
-	-		
AC - 4,200			
DANA / TE			
TE-17300 (3+3)			
Automatic	powershift		
Torque o	converter		
200	,		
Kessler / D	081 (WDB)		
Kalmar / sin	igle cylinder		

KALMAR DRG	3100-54 S6 / S8
EU stage 4	EPA Tier 4 Final
0.40 - 0.19 - 3.5 - 0.025	0.40 - 0.19 - 3.5 - 0.020
Volvo) / D-8
TAD-8	371-VE
SCR + AdBlue	e + cooled EGR
Diesel + AdBlue / 4-strok	ke / 6-inline / common rail
Variable Geom	etry Turbo (VGT)
Intercoole	r (air-to-air)
7,700	470
110 × 135	4.33 × 5.31
185 @ 1,600-2,200	252 @ 1,600-2,200
1,160 @ 1,100-1,500	855 @ 1,100-1,500
8-15	2.1-3.9
0.25-0.50	0.065-0.130
AC -	4200
DAN	A/TE
TE-173	00 (3+3)
Automatic	powershift
Torque o	converter
	(270)
	D81 (WDB)
Kalmar / sii	ngle cylinder

Advanced redundant electronics – increase uptime

The electrical control system of the Kalmar DRG100 is smart, intuitive and reliable. A distributed and redundant CAN-bus technology, developed by Kalmar, constantly monitors the engine, transmission, hydraulics and spreader functions to provide the operator with constant real-time data to help maximise uptime. Thanks to segmented wiring with a long lifetime, few wires and connection points, the system is not prone to faults and is easy to configure, diagnose and service.

Safe and proven diagnostics

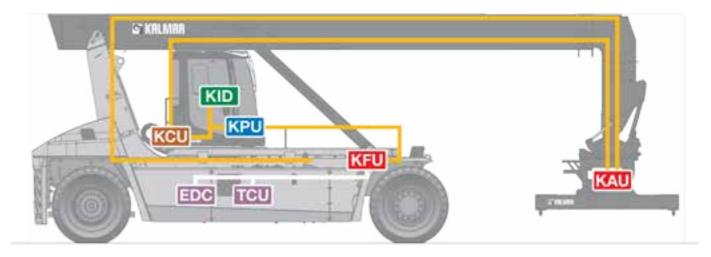
The CAN-bus system constantly feeds condition-monitoring data to engine oil or coolant levels - long the eye-level colour display in the cabin. Pop-up messages mean the operator can simply check the consequences of fluid display's troubleshooting page and find the error codes that lead straight to the relevant section of the operator's manual.

Smart sensors for fluid levels

Sensors alert the operator to low before any stoppage or component damage occurs. This avoids levels being checked too late.

Central lubrication on truck and spreader

An optional central lubrication system can be installed to ensure greater control over the machine's lubrication cycle. Electronically monitored and controlled, it alerts the operator in advance whenever a blockage or other malfunction arises - anywhere in the lubrication cycle.

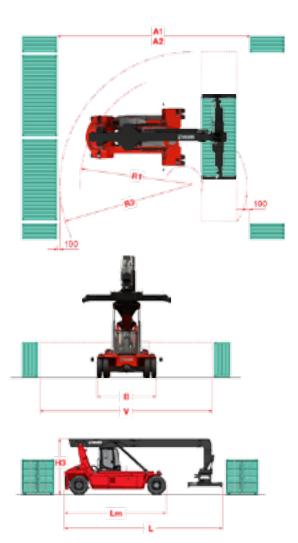








Technical information



MODEL DESIGNATION	
	DRG100-54S6
Diesel —	
Reachstacker —	
Generation ————	
First row capacity	
Wheelbase —	
Spreader —	
Stacking height (no. of contained	ers)

	Type of handling			
	Lifting capacity, in container row 1-2-3	Q1-Q2-Q3	(kgs)	10,00
¥	Lifting capacity, in container row 1-2-3, at max height	Q1-Q2-Q3	(kgs)	10,00
2	Load centre, from front face of tyres, row 1-2-3	L4-L5-L6	(mm)	2,69
MAIN DATA	Stacking height, in container row 1-2-3, of 8'6" / 9'6"			6/5
2	Spreader type, extension stops, locking		(2020)	MPS
	Lost load centre, to front face of tyres Wheelbase	X L3	(mm)	
	Wileelbase	LS	(mm)	
	Service weight, standard truck		(kgs)	
က	Axle load, front at load centre L4, unloaded – rated load		(kgs)	
WEIGHTS	Axle load, front at load centre L5, unloaded – rated load		(kgs)	
₹	Axle load, rear at load centre L4, unloaded - rated load		(kgs)	
	Axle load, rear at load centre L5, unloaded - rated load		(kgs)	
	Tyre type, tyre design, tube design			Pneum
ဟု	Tyres, dimension, PLY rating (front + rear), star rating		(in)	14.00 ×
田	Tyre pressure (front + rear)		(MPa)	
WHEELS	Rim dimension (front + rear)		(in)	
	Number of wheels, driven / front + rear	04 00	()	
	Track width (front + rear)	S1 - S2	(mm)	
	Boom type - cylinder design			
	Boom angle, min-max	alfa	(deg)	
	Boom height, min-max	H3 – H5	(mm)	
	Chassis height – top of boom fixation, max	H2	(mm)	
	Lift height, min in twistlocks, in container row 1-2-3	H4a	(mm)	
	Lift height, max in twistlocks, in container row 1-2-3	H4b	(mm)	16,20
	Truck height - cabin roof	H6	(mm)	
တ္	Seat height - inside cabin	H8	(mm)	
DIMENSIONS	Overall truck length, without and with boom	L	(mm)	
SE SE	Truck width over drive axle	В	(mm)	
ጀ	Spreader width, min-max	Va – Vb	(mm)	
_	Spreader sideshift	V1	(mm)	105 /
	Spreader rotation, number of motors, number of brakes	beta	(deg)	+195 / -
	Spreader length tilt, tilt angle, lock function		(deg)	optior MPS
	Spreader side tilt, tilt angle, tilt power Ground clearance, steer axle – middle – front		(deg) (mm)	320
	Aisle width, with 20 ft – 40 ft container	A1 – A2	(mm)	020
	Turning radius, outer with 20 ft - 40 ft container	R1 – R3	(mm)	
	Turning radius, inner	R2	(mm)	
	Engine type, cylinders, design			Die
	Engine norm and emission approvals			ISO 817
	Engine power, torque, displacement		(kW/Nm/dm ³)	185
	Fuel consumption, average diesel and tank volume		(L/h/dm³)	
	Fuel consumption, average adblue and tank volume		(L/h/dm³)	40.4
	Alternator, type - power, voltage and capacity		(W/V/Am) (V/Ah)	AC-4,
빌	Battery voltage / capacity Transmission type, function, safety		(V/AII)	Automatic
DRIVE LINE	Transmission, gears forward – gears reverse			Automatic
₹	Drive axle type, service brakes (on drive wheels)			Differen
Δ	Drive axle type, parking brake			
	Steer axle type, function			He
	Travelling speed, forward - reverse, unloaded - at rated load		(km/h)	
	Gradeability, at max - at 2 km/h, unloaded - at rated load		(%)	
	Lifting speed, unloaded - at 70 % of rated load		(m/s)	
	Lowering speed, unloaded - at rated load		(m/s)	
	Drawbar pull / towing capacity, max		(kN)	
	Under the system time which we obtain			
	Hydraulic system, type, number of tanks		(MDa)	Lo
	Working pressure boom / spreader Tank volumes of working oil & brake oil		(MPa)	
RS	Tank volumes of working oil & brake oil Noise level LpAZ acc. to EN12053, inside cabin		(dm³) (dB(A))	
OTHERS	Noise level LwAZ acc. to 2000/14/EC, outside cabin		(dB(A))	
0	Towing hook		(V //	
	Electronic overload, monitoring & safety system			
	Longitudinal load monitoring information & controls			

	Empty and semi laden			Empty and semi laden	l
10,000	9,000	5,500	10,000	8,000	4,500
10,000	9,000	5,500	4,500	4,500	4,500
2,690	3,840	6,340	2,690	3,840	6,340
6/5	5/5	4 / 4	8/7	7/6	6/6
MPS	20 ft + 40 ft	Twistlocks 4×	MPS	20 ft & 40 ft	Twistlocks 4×
IVII O		TWISHOONS 4A	IVII O		TWISHOONS 4A
	700			700	
	5,400			5,400	
	39,000			40,300	
	22,300 - 38,600			23,400 - 39,700	
	24,100 - 40,700			25,000 - 39,700	
	16,700 - 10,400			16,900 – 10,600	
	14,900 - 7,300			15,300 - 8,600	
Pneumatic	Diagonal	Tubeless	Pneumatic	Diagonal	Tubeless
4.00 × 24"	PR24	E3	14.00 × 24"	PR24	E3
	1.0 - 1.0			1.0 - 1.0	
	10.00 × 24"			10.00 × 24"	
		2			-
4.	/ 4	2	4 /	4	2
	3,285 - 2,600			3,285 - 2,600	
	,				
5	w / 0 ots == / · ' ·	indox	71.1	v / 0. oto === / ='	lindor
Duple	ex / 2-stage / single cy	inaer	Triple:	x / 3-stage / single cyl	inder
	0 - 67.5			0 - 75	
	3,900 - 18,700			4,050 - 24,150	
	3,650			3,650	
	600			600	
16,200	14,700	12,000	21,150	20,600	19,000
-,		,	,.50		. 2,200
	3,270			3,270	
	2,200			2,200	
	7,100 - 11,050			7,100 - 10,950	
	4,150			4,150	
	6,055 - 12,185			6,055 - 12,185	
	+/-1,000 (total 2,000)			+/-1,000 (total 2,000)	
+195 / -105	2	2	+195 / -105	2	2
optional	+/- 5	tilt lock	optional	+/- 5	tilt lock
MPS	+/- 5	by gravity	MPS	+/- 5	by gravity
320	240	350	320	240	350
020		300	020		550
	11,050 – 14,100			11,050 – 14,100	
	7,000 - 8,550			7,000 - 8,550	
	050			250	
	250				
	250			200	
Diesel / 4-st	troke / 6-inline / turbo	'intercooler	Diesel / 4-st	roke / 6-inline / turbo /	/ intercooler
	troke / 6-inline / turbo	/ intercooler EPA Tier 3 + 4F		roke / 6-inline / turbo /	/ intercooler EPA Tier 3 + 4
SO 8178-8	troke / 6-inline / turbo	EPA Tier 3 + 4F	ISO 8178-8	roke / 6-inline / turbo / EU stage 3A + 4	EPA Tier 3 + 4
SO 8178-8 185	troke / 6-inline / turbo EU stage 3A + 4 1,160	EPA Tier 3 + 4F 7,700	ISO 8178-8 185	roke / 6-inline / turbo / EU stage 3A + 4 1,160	EPA Tier 3 + 4 7,700
SO 8178-8 185	troke / 6-inline / turbo	EPA Tier 3 + 4F	ISO 8178-8	roke / 6-inline / turbo / EU stage 3A + 4 1,160	EPA Tier 3 + 4
SO 8178-8 185 8 -	troke / 6-inline / turbo EU stage 3A + 4 1,160	EPA Tier 3 + 4F 7,700 525	ISO 8178-8 185 8 -	roke / 6-inline / turbo / EU stage 3A + 4 1,160	EPA Tier 3 + 4 7,700 525
SO 8178-8 185 8 - 0.25 -	troke / 6-inline / turbo EU stage 3A + 4 1,160 - 15 - 0.50	EPA Tier 3 + 4F 7,700 525 35	ISO 8178-8 185 8 - 0.25 -	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50	EPA Tier 3 + 4 7,700 525 35
SO 8178-8 185 8 - 0.25 - AC-4,200	troke / 6-inline / turbo EU stage 3A + 4 1,160 - 15 - 0.50	EPA Tier 3 + 4F 7,700 525 35 130	ISO 8178-8 185 8 - 0.25 - AC-4,200	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50	EPA Tier 3 + 4 7,700 525 35 130
SO 8178-8 185 8 - 0.25 - AC-4,200	troke / 6-inline / turbo EU stage 3A + 4 1,160 - 15 - 0.50	EPA Tier 3 + 4F 7,700 525 35	ISO 8178-8 185 8 - 0.25 -	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50	EPA Tier 3 + 4 7,700 525 35
SO 8178-8 185 8 - 0.25 - AC-4,200 2 ×	troke / 6-inline / turbo EU stage 3A + 4 1,160 - 15 - 0.50	EPA Tier 3 + 4F 7,700 525 35 130 140	ISO 8178-8 185 8 - 0.25 - AC-4,200 2 ×	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50	EPA Tier 3 + 4 7,700 525 35 130 140
SO 8178-8 185 8 - 0.25 - AC-4,200 2 ×	troke / 6-inline / turbo EU stage 3A + 4 1,160 15 - 0.50 28 12 nift / torque converter /	EPA Tier 3 + 4F 7,700 525 35 130 140	ISO 8178-8 185 8 - 0.25 - AC-4,200 2 ×	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50 28 12 iff / torque converter /	EPA Tier 3 + 4 7,700 525 35 130 140
80 8178-8 185 8 - 0.25 - AC-4,200 2 × comatic powersh	troke / 6-inline / turbo EU stage 3A + 4 1,160 15 - 0.50 28 12 iff / torque converter / 3 - 3	EPA Tier 3 + 4F 7,700 525 35 130 140 reverse protection	ISO 8178-8 185 8 - 0.25 - AC-4,200 2 × Automatic powersh	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50 28 12 iff / torque converter / 3 - 3	EPA Tier 3 + 4 7,700 525 35 130 140 / reverse protection
80 8178-8 185 8 - 0.25 - AC-4,200 2 × tomatic powersh	troke / 6-inline / turbo EU stage 3A + 4 1,160 15 - 0.50 28 12 nift / torque converter /	EPA Tier 3 + 4F 7,700 525 35 130 140 reverse protection	ISO 8178-8 185 8 - 0.25 - AC-4,200 2 × Automatic powersh	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50 28 12 iff / torque converter /	EPA Tier 3 + 4 7,700 525 35 130 140 / reverse protection
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80 8178-8 185 8 - 0.25 - AC-4,200 2 × tomatic powersh Differential / hub Single b	troke / 6-inline / turbo EU stage 3A + 4 1,160 - 15 - 0.50 28 - 12 - 1iff / torque converter / 3 - 3 - reduction / oil-cooled oig dry disc / hydraulic	EPA Tier 3 + 4F 7,700 525 35 130 140 reverse protection wet disc brakes release	ISO 8178-8 185 8 - 0.25 - AC-4,200 2 × Automatic powersh Differential / hub Single b	roke / 6-inline / turbo / EU stage 3A + 4 1,160 15 - 0.50 28 12 iff / torque converter / 3 - 3 reduction / oil-cooled	EPA Tier 3 + 4 7,700 525 35 130 140 / reverse protection wet disc brakes release
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KALMAR DRG100-54 S8

KALMAR DRG100-54 S6

Standard

Kalmar DRG100, S6-S8 // Empty Container Reachstackers // 10 tonnes

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)

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

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

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 mu) for the brakes
- Brake tank (100 lit), cooling & breather filter

Wheels (tyres & rims)

- Drive tyres 14.00x24"/PR24 (4x)
- Steer tyres 14.00x24"/PR24 (2x)

Drive train (CAN-bus)

- Volvo D-8 in EU stage 3A and 4 emission levels • 6-cylinder diesel engines with pre-heater
- High power & torque with low fuel consumption
- Engine monitoring and protection system
 Fully automatic transmission DANA TE-17 (3+3)
- Transmission monitoring and reverse protection
- Declutch function activated by pedal switch
- Heavy-duty radiators for engine + transmission

Load-Sensing Hydraulics

- Load-sensing variable piston pumps (3x)
- Pumps for boom, spreader, brakes & steering
- Vane pumps for brake & oil cooling (2x) • Return filters for the work hydraulics (2x/10 mu)
- Hydraulic longlife fine filter with by-pass (5 mµ)
- Servo filter for the work hydraulics (10 mu)
- Pressure filter for the brakes (10 mµ)
- Regeneration high-speed lifting & extension
- Boom end-damping (in-out/up-down/20-40')
 Power steer, power brakes & ORFS-couplings
- Hydraulic tank (425 lit), cooling & breather filter
- Separated dual oil tanks

- Strong, durable box-type boom with guide pads
 Duplex 2-stage S6, 6x8'6" / 5x9'6" (H4 = 16,2 m)
- Triplex 3-stage S8, 8x8'6" / 7x9'6" (H4 = 21.1 m)
- Long boom nose for flat racks (H4 = 600 mm)
- Boom with 2 lift cylinders & 1 extension cylinder

- Top lift 10 tons, hydraulic extension 20'-40' • 4 floating twistlocks & indication LED lamps
- Safety locking, alignment pins & sensors (4x)
 Large sideshift of ±1000 mm
- Rotation +195/-105 deg (2 motors & 2 brakes)
- Mechanical Pile Slope MPS ±5 deg
- Tilt lock, container at 90 deg (max 5 km/h)
- Lift hooks for slings on end beams (4x)

• 1 accoustic signal / reverse alarm (in reverse) Long bottom access step (on both sides) • Lifting eyes and achor points (front & rear) Cabin (EGO) Good rear end visibility of the truck Structure • Towing pin (rear - incasted)

Spacious, modern cabin with best ergonomy

Battery box 2x12V & main power switch

• 2 working LED-lights on front edge cabin

• 2 rear LED-lights on fenders (when reversing)

2 head lights on front fenders (high/low beam)

• 2 flashing brake LED-lights (when reversing)

Electric service box on chassis (LHS)

· 2 working LED-lights on attachment

2 position LED-lights on each side

• 2 tail LED-lights / brake LED-lights

• 1 rotating warning LED-beacon

4 LED-blinkers (front-rear/left-right)

• 2 working LED-lights on boom

- Large windows, good visibility, in all directions Manual moveable cabin (stroke 1750 mm)
- Step for roof access

Electrical system 24V

- Instep handle (left side)
- Sliding window on both sides
- Doors with air damper and key lock (L + R)
- Tinted laminated windows

Comfort

- Seat Kalmar, mech. spring, high back
 Adjustable armrest (RHS) & 2-point safety belt
- Inside rear view mirror (right side)
- Interior lights with fade away function
- 2x24V el. connection in door columns (L + R) · 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
- LED background light for buttons & switches

Controls

- Jovstick for boom, spreader & forward / reverse
- Auto rev-up accelerator at lifting/extension
- · Electric accelerator pedal (hanging) Double brake pedals (L + R)
- Button for 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 (horn, gear/direction switch, high/low beam
- Warning hand brake (on/off) leaving seat

Climate

- ECC, electronic climate control (heater, ventilator and filter)
- · 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 & synchro-
- LLMI Longitudinal Load Moment Indicator
- LLMC Longitudinal Load Moment Control

ECO Drive Modes (EDM):

- Power mode
- Normal mode
- Economy mode



Operator menu:

- System voltage
- Actual gear
- 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 system & AC system
- Fuel level (diesel and optional AdBlue) Estimated operating time before empty tank
- Service indicator
- Container counter with reset function
- Trip computer / statistics

Pop-up menu:

- Overload warning steering axle (high or low)

Head-Up display for twistlock indication:

LED indicators for alignment & twistlocks.

- 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 I ow fuel level
- Hydraulic oil temperature

Indicator lamps:

- Direction indicaton - Parking brake

- 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

Optional Kalmar DRG100, S6-S8 // Empty Container Reachstackers // 10 tonnes

- DRF100-54S6 (L3=5400 mm / 6-high 8'6")
- DRF100-54S8 (L3=5400 mm / 8-high 8'6")

Structure Hydraulic tilting cabin (stroke 10 degrees)

- · Seat with Air-cushion, heating & 3-p belt
- Head rest for the seat
- Armrest with adjustment (LHS)
- Horizontal dampening/suspension of seat
 Extra trainer seat incl 2-p safety belt (LHS)
- Bracket for terminal and monitor (RHS) • Writing pad, A4 paper box and reading lamp (RHS)

- Lever steering incl switch for forward/reverse Mini-wheel steering incl switch for forward/reverse
- Sun visor front window • Sun visor roof window
- Sun visor rear window Microfilter in additional to std filter
- AC/ECC switched off when door is open

- Volvo TAD-851-VE (EU st 3A, 185 kW, 1160 Nm) +
- DANA TE-17300 (3+3 gears)

 Volvo TAD-871-VE (EU st 4, 185 kW, 1160 Nm) + DANA TE-17300 (3+3 gears)
- Start/stop function to save fuel
- · Automatic engine and ignition stop at idle • Precleaner air intake incl raised air intake
- Speed limitation Wheel nut protection on steer tyres

AxleTech TLX (Tyre Life eXtention) Drive axel

High pressure filter

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

• External rear view mirror 2/pc

- Electrical system 24V
 Radio with CD/MP3
- Extra sockets 2x24V + 2x12V in cabin door columns • Electric air pressure horn Height limitation system for lifting boom
- Load center 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 4x, on boom Electric heated mirrors, front fender/std pos

Spare wheel & rim 14.00×24"/PR24

- Other colour than std, chassis Reinforced anti-corrosion protection
- Documentation and decalsExtra set of documentation
- Workshop manual
- Volvo trouble shooting and repair kit • Load chart lbs/inch in cab & sign "no riders"
- Documentation on cd or memory stick

- Additional equipment
- Camera with monitor in cab direction rearward (6–7 m) Reverse warning system, incl. 4x sensors, TV-camera
- Personal proximity safety (1 base/1 charger/5 tags)
- Tyre pressure monitoring system (Bluetooth)
- Alcolook Draeger or Foxguard in cabin
 Semi-automatic fire suppression system (Forrex)
- Fire extinguisher 6 kg, powder
- Tool kit • Extra sound insulation - reduction 3 dB(A)
- Lockable fuel cap Cabin heater incl 220V outlet

Diesel powered cabin heater 5 kW

- Engine heater incl cab heater Engine heater incl cab heater US std
- Engine/hydraulic oil heater incl cab heater
- Engine/hydraulic oil heater incl cab heater US std · Central greasing base machine
- Central greasing spreader Filter kit 2000 hrs SmartFleet remote monitoring
- Attachment (toplift) • Tilt function ±5 deg (fwd/rev), incl tilt lock & speed limit
- Rotations stop spreader ±25 deg + override switch

Automatic extension 20'-40' incl 30' stop

• Contact Kalmar Training Center for training programs







Kalmar offers the widest range of cargo handling solutions and services to ports, terminals, distribution centres and to the heavy industry. Kalmar is the industry forerunner in terminal automation and in energy efficient container handling, with one in four container movements around the globe being handled by a Kalmar solution. Through its extensive product portfolio, global service network and ability to enable a seamless integration of different terminal processes, Kalmar improves the efficiency of every move. www.kalmarglobal.com

Kalmar is part of Cargotec. Cargotec's sales totalled approximately EUR 3.2 billion in 2013 and it employs approximately 11,000 people. Cargotec's class B shares are quoted on NASDAQ OMX Helsinki under symbol CGCBV. www.cargotec.com

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