



Kalmar Big Wheel

DCG100-12BW

DCG140-6BW

10–14 tonne capacity

A large stack of logs is being transported by a forklift in a lumber yard. The logs are stacked high and are being moved along a dirt road. The background shows a forest of evergreen trees under a clear sky.

A smoother ride

The job must be done even on a bumpy road. But it can be hard with a regular forklift. It takes big wheels to level out the bumps. It takes Kalmar Big Wheel.

Anyone who has used a forklift at a sawmill or lumberyard knows how difficult it can be to work on an uneven surface, especially in the winter. Achieving the required precision in lifting and driving, while trying to cope with the uncomfortable shaking, is truly challenging.

We developed Big Wheel to give you a smoother ride. Equipped with oversized front wheels, these forklifts allow you to

work efficiently, and comfortably, even when surface conditions are poor.

You get superb traction and can work productively in rough conditions where high ground clearance is required. The big tyres also provide excellent suspension when driving over uneven surfaces.

Big Wheel forklifts are available in two size models, with a lifting capacity of 10 and 14 metric tonnes, respectively. As part of the Kalmar G generation, Big Wheel offers a range of benefits including highest operator safety and ergonomics.

G generation excellence

Big Wheel is part of Kalmar's G generation of forklift trucks, first introduced in 2011. Every G generation forklift comes equipped with a set of technically advanced features that add to the driver's operating experience and performance.

The G generation marked the introduction of Kalmar's renowned EGO cabin, which truly puts the operator in the driver's seat. The idea behind the cabin was to give operators the best possible working environment – allowing them to pay full attention to the work at hand.

With its excellent 360-degree view, ergonomically designed controls, tiltable steering wheel and rotatable seat, the EGO cabin has since its introduction become the preferred choice among health and safety aware customers around the world.

Other features that make these forklifts stand out from competition include an extra heavy duty mast, a new intelligent electric system, and a new variable hydraulic system with extra cooling capacity that improves manoeuvrability and saves fuel.



Designed specifically for the lumber industry: A reversible cooling fan helps clear the cooler from harmful dust. The rotatable driver's seat lets the driver go 'forward in reverse' with unobstructed view even when fully loaded.

Big is beautiful

Superb manoeuvrability in terrain. 300 mm ground clearance under mast beams and 500 mm clearance between mast beams. Excellent suspension thanks to the 23.5R25/24PR front tyres. That's Big Wheel in a nutshell.



Clever radiator cleaning

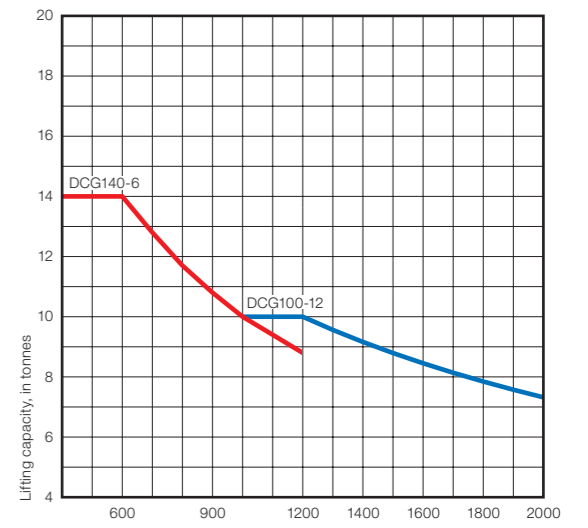
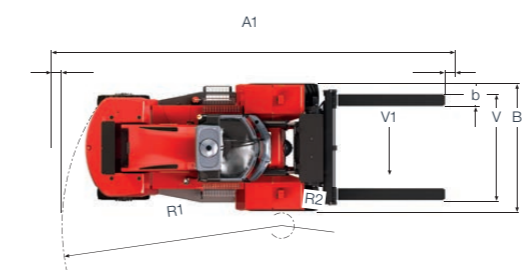
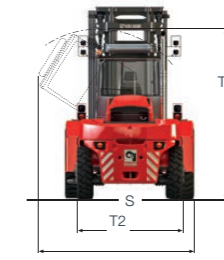
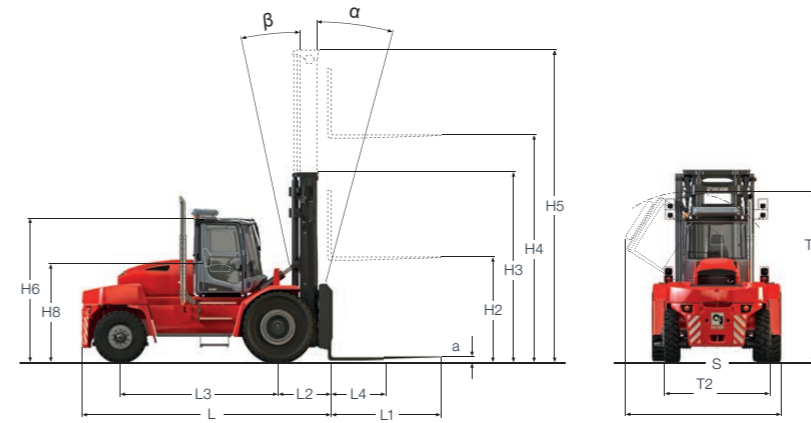
Reverse the cooling fan, and you can use it to blow the radiator clean from potentially harmful dirt, dust or particles. Perfect when your Big Wheel is operated in sawmills and other dusty environments.

A forklift with a view

The EGO cabin's excellent 360-degree view makes it safe and easy to operate your Big Wheel forklift. The work console is easy to use and understand. All the necessary controls, switches, levers and indicators are easily accessible.



Drive trains and Performance



DCG140-6BW & DCG100-12BW models:
Full lifting capacity up to 5000 mm lift height with duplex/duplex freelift/triplex masts and integrated sideshift/fork positioning carriage.

ENGINE		Cummins QSB6,7 (129 kW) with ZF 3WG171	
Manufacturer's type designation		Cummins QSB6,7 (Turbo-Intercooler)	
Fuel, type of engine		Diesel, 4-stroke	
Rating ISO 3046 / at revs	kW / rpm	129(176) / 2200	
Peak torque ISO 3046 / at revs	Nm / rpm	800 / 1400	
Number of cylinders / displacement	cm ³	6 / 5900	
Fuel consumption, normal driving	l/h	8-10	
AdBlue consumption, normal driving	% of diesel	N/A / 3-5%	
Emission standard		EU Stage IIIA & Stage IV	
GEARBOX & MISC		ZF 3WG171	
Manufacturer's type designation		ZF 3WG171	
Clutch, type		Torque converter	
Gearbox, type		Hydrodynamic Powershift	
Numbers of gears, forward / reverse		3 / 3	
Alternator, type / power	W	AC / 1960	
Starting battery, voltage / capacity	V / Ah	2x12 / 145	
Driving axle, manufacturer / type		Kessler D81 / Differential and hub reduction	

PERFORMANCE		DCG140-6BW	DCG100-12BW
Lifting speed	Unloaded (m/s)	0,40	38,75 mm
	At rated load (m/s)	0,30	0,30
Lowering speed	Unloaded (m/s)	0,30	0,30
	At rated load (m/s)	0,40	0,40
Travelling speed, F/R	Unloaded (km/h)	25	25
	At rated load (km/h)	22	22
Gradeability, max.	Unloaded (%)	91	91
	At rated load (%)	44	51
Gradeability, at 2 km/h	Unloaded (%)	58	58
	At rated load (%)	31	36
Drawbar pull	Max. (kN)	139	139
Noise level, inside	LpAZ*, EGO cabin (dB(A))	73	73
	LpAZ*, EGO cabin OHG (dB(A))	85	85
Noise level, outside	LWA** (dB(A))	108	108

* LpAZ according to EN12053 ** LWA according to 2000/14/EC

MAIN DATA	Model designation	
	Power source	
	Rated capacity / rated load	kg
	Load center distance	mm L4
	Load distance, center of drive axle to fork	mm L2
Wheelbase	mm L3	

WEIGHTS	Service weight	
	Axle loading, loaded front	kg
	Axle loading, loaded rear	kg
	Axle loading, unloaded front	kg
	Axle loading, unloaded rear	kg

WHEELS	Type, front / rear	
	Tyre size, front	inch
	Tyre size, rear	inch
	Number of wheels, front / rear (x = driven wheels)	
	Track width, front / rear	mm S
	Tyre pressure, front / rear	MPa

DIMENSIONS	Mast tilt, α = forward / β = backward	
	Height of mast lowered	mm H3
	Lift height	mm H4
	Height of mast extended	mm H5
	Truck height – EGO / OHG cabin roof	mm H6
	Seat height	mm H8
	Height when tilting EGO cab / OHG	mm T1
	Width when tilting EGO cab / OHG	mm T2
	Truck length (to face of forks)	mm L
	Truck width	mm B
	Fork dimensions, width	mm b
	Fork dimensions, thickness	mm a
	Fork dimensions, length of fork arm	mm l
	Fork carriage width	mm b3
	Width over fork arms, minimum / maximum	mm V
	Sideshift ± @ width over forks	mm V1 / V
	Ground clearance, laden, below mast / mast beams	mm
	Ground clearance, machine (between axles)	mm
Min. aisle width for 90° stacking with forks	mm A1	
Turning radius	mm R1	
Internal turning radius	mm R2	

OTHERS	Operating pressure for hydraulics	
	Hydraulic oil tank, capacity	l
	Fuel tank, capacity	l
	AdBlue tank, capacity	l

DCG140-6BW	DCG100-12BW
DCG140-6BW	DCG100-12BW
Diesel	Diesel
14000	10000
600	1200
1220	1230
3440	3440

21000	21000
11200	11200
32600	28300
9800	9500
2400	2400

Pneumatic / Pneumatic	Pneumatic / Pneumatic
23.5R25/24PR	23.5R25/24PR
12.00 - 20/20PR	12.00 - 20/20PR
2* / 2	2* / 2
2190 / 1960	2190 / 1960
0,58 / 1,0	0,58 / 1,0

15 / 15	15 / 15
4245	4245
5000	5000
6745	6745
3120 / 3120	3120 / 3120
2000	2000
3610	3610
3510	3510
5490	5500
2790	2790
200	220
80	90
1200	2400
2500	2500
2360 / 600	2360 / 640
440 / 1480	430 / 1500
500 / 300	500 / 300
550	550
7450	8650
4785	4785
420	420

19,0	12,5
150	200
210	210
15	15





Kalmar offers the widest range of cargo handling solutions and services to ports, terminals, distribution centres and to 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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