

Greater total lifetime savings

Keeping cargo moving forward is obviously of critical importance. Meanwhile, the performance of your truck-and-driver teams has the most significant impact on cargo handling operations – both day-to-day and over time. That's because truck-and-driver teams directly influence your ability to keep promises, generate future revenue as well as increase lifetime savings.

Introducing Kalmar DCG90-180

Like all Kalmar solutions, Kalmar DCG90-180 lift trucks offer greater total lifetime savings by improving the performance of your truck-and-driver teams. DCG90-180 is a range of Kalmar trucks with a lifting capacity of 9-18 tonnes. Each in the range is designed, built and delivered to keep truck uptime and driver productivity levels high – and keep running, maintenance and lifetime costs low.

Designed to deliver greater total lifetime savings

It's simple: great truck-and-driver teams save your company time and money every working day – and over the lifetime of your business. The DCG90-180 is designed, built and delivered to offer greater total lifetime savings – capitalising on insights from Kalmar's proven track record of supporting more than 10,000 users of trucks with a lifting capacity of 9-18 tonnes. The DCG90-180 offers superior truck uptime as well as fuel and maintenance savings. As important, it incorporates the best driving environment in any lift truck – our new EGO cabin – loaded with features that inspire driver productivity, efficiency and safety.

Total lifetime savings

The following factors contribute to achieving total lifetime savings while owning, operating and maintaining a fork lift truck. Each DCG90-180 truck helps you meet them all.

Truck-and-driver productivity

Operational savings

Maintenance savings

Wear and spare part savings

Resale savings

Purchase optimization

Our most productive driving environment

EGO cabin enables driver productivity

The DCG90-180 offers your drivers Kalmar's most productive driving environment – our EGO cabin. EGO provides a great working environment, ergonomic excellence and productivity-enhancing features.

The EGO cabin incorporates a spacious curved front window that gives the operator excellent

side-to-side and overhead visibility. Operators gain greater operating control and precision thanks to well-placed, ergonomically improved instruments, levers, pedals, panels, switches and display. A closer look shows why the DCG90-180 is such a great working environment. One test drive proves it.

Ergonomic steering wheel.

Here's an ergonomic twist: Ego's steering wheel is not only adjustable; it can also be tilted to the side. This decreases stress while driving and reversing. Thoroughly tested, it raises the ergonomics bar.

Comfort pedals. A flexible and safe pedal system gives an adjustable pedal angle. The improved ergonomics minimises strain on the operator's foot. A floor-based solution that gives a hanging pedal feel.

Climate package. Complete and flexible climate control system that matches the high demands of the climate tested EGO cabin. Large air intake, easy filter replacement in the front, well-dimensioned and designed components provide complete driving comfort and convenience.

Ergonomic multi-seat. The rotatable and fully integrated Kalmar seat. Designed and developed for maximum sitting posture, comfort and ergonomics for long shifts and demanding operations.

Operating console. The complete unit for those who use the mini steering wheel or steering lever. Integrated switch knob. Fully adjustable and individually tested for optimal ergonomics. The steering wheel can be folded forward without limiting visibility.

The joystick with built-in gear knob is designed to improve driving efficiency. It is optimised for maximum lifting capacity and ergonomically enhanced to reduce arm fatigue.

Optimized visibility. Completely new open design with smart profiles and curved front and rear windows. Provides optimised views at all angles, with exceptionally good views diagonally forwards and backwards. And a strong outdoors feeling.

Work console. A natural extension of the driver's arm. Easy to set, adjust, use and understand. Ergonomic and flexible. Here are all the necessary controls, switches, levers and indicators for effective operations. Clear, well-placed panels. Steering wheel controls for data display as well as the whole control system.

Overhead guard. The EGO cabin is also available as an overhead guard. A simpler, more robust alternative that easily fulfils requirements on visibility, safety and ergonomics. Durable and robust for all kinds of weathers.























Increasing productivity of truck-and-driver teams

Ensuring cargo is handled in perfect condition and on time. It's the base for keeping your promises and generating revenue. Meanwhile, ensuring your driver can uphold delivery precision is dependent upon truck uptime. Here are some of the ways DCG90-180 ensures high uptime levels.

Boosting uptime with smarter electronics

The improved electronic system of the DCG90-180 is a fast, intelligent and stable system that makes the truck user-friendly and reliable. The electronics requires far fewer connection points and cables, which means fewer faults and improved operational reliability. The electronics also incorporate a modern, distributed and redundant CAN-bus (Controller Area Network) that ensures reliability. It monitors the condition and performance of the engine, gearbox, valves and more: controlling 500 measuring points, 50 times every second. This keeps the truck and its engine components operational even in the worst-case scenario. The CAN-bus constantly provides condition-monitoring data via a 3.5" colour display that is placed at eye level in the cabin - so the driver can make well-informed decisions.

Two new diesel engines meet stricter emission regulations

The Kalmar DCG90-180 offers you the choice of EU Stage IV/Tier 4 Final emissions compliant diesel engines for regulated markets*. From Volvo and Cummins, both cut particulate emissions by 90% as well as reduce nitrogen oxide emissions.

Both engines improve fuel efficiency whilst maintaining operational reliability, durability or performance. As important, both engines ensure maximum power and torque are available at low rpm.

Powerful hydraulics when you need it

The variable pumps automatically sense the load in every operation and adjust the oil flow accordingly, allowing for faster lifting cycles while reducing fuel consumption. New electric and hydraulic systems mean quicker response, high lifting speed and increased control. This combination helps drivers be more productive while using less fuel.

Keeping clean and cool to reduce risks of failure

A cooling system improves uptime and operational reliability of he DCG90-180. It helps keep the engine compartment cooler, thus promoting a longer lifetime of engine, hydraulic and electrical components. We offer an optional reversible cooling fan that helps keep the radiator clean from potentially harmful dirt, dust or particles. A perfect option for e.g Sawmills or other dusty applications.

^{*} For non-regulated markets we can offer EU stage III.

Turn running costs into operational savings

As you know, no two drivers are identical. This is especially true when it comes to fuel consumption, driving safety and accident avoidance. Of course, even the best driver needs a great truck to help keep these costs low. A range of new features makes it easy to drive DCG90-180 economically and safely – securing savings throughout every shift.

Reducing fuel consumption

Compared to our previous model, the DCG90-180 uses up to 15 per cent less fuel* in standard configuration. Add Kalmar's renowned product quality and reliability, increasing efficiency and uptime, and you see the true value of Kalmar.

ECO drive axle

- All the power 20% less fuel

To reduce the fuel consumption further we can offer the DCG90-180 with an optional drive axle and converter. The drive axle and converter is optimized to match the engines performance and use the engine to its fullest. A lower rpm and an optimised gear ratio lowers the fuel consumption by up to 20% and make the machine quieter to operate without losing any performance.

ECO drive modes

Choose between three different drive modes, each optimised to meet your operational requirements. The forklift can be adapted to every task at hand, shifting many times during the day. The operator easily shifts between modes by using the cabin display screen.





profitability.

machine, allowing you to

increase the number of

tonnes moved per hour.

performance, Economy

consumption by up to

mode reduces fuel

15 percent.



Improving safety and operating costs

Like all Kalmar equipment, Kalmar DCG90-180 trucks and EGO cabins are designed to contribute to safe driving, low accident rates as well as low operator misuse, abuse or accidents. In short, the cabin and truck are designed to help drivers stay alert, keep in-tune with the truck as well as the surroundings.

Improved truck safety features

The DCG90-180 helps reduce the risk of accidents. It not only meets all current and emerging demands for operator health and safety. It can also be equipped with a number of safety features making the operations as safe as possible.

Speed limitations

Kalmar can configure your forklift depending on your needs. Limitations can be set both in relation to lifting height and travel speed or in combination. In order to increase the safety in your operations.

Alco lock

More and more companies are installing Alco lock on their machine. This is a efficient way of prohibiting persons intoxicated by alcohol to operate the forklift.

Fire suppression system

In the unlikely event of a fire in the engine compartment the suppression system will automatically be activated to suppress the fire. A useful option in e.g sawmill.



Blue safety light
The blue safety light alerts people that the truck
is approaching, reducing the risk of accidents.









Reducing noise and increasing driving comfort and precision improves safety. This reduces risks of costly accidents occurring.





Maintenance savings

Extra time and effort to perform routine and daily maintenance is costly. Not only in terms of hourly labour costs. But also in terms of maintenance quality. Skipping difficult-to-perform tasks jeopardises the truck's reliability, thus leading to costly unplanned stops or downtime. Performing daily inspections and routine servicing is fast, simple and convenient with the DCG90-180.

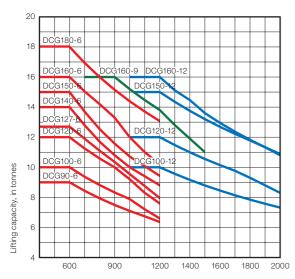
Saving time and effort

Accessibility has been dramatically improved for the DCG90-180. Here are just three examples. Smart placement of the electric cabinet offers fast and easy access. All hydraulic oil filters can be reached from above at one location. There's a special drain for shaft oil, for example, which makes it possible to fill oil while standing up. As with previous generations of Kalmar trucks, all check points for daily inspection are directly accessible at ground level on the side of the truck.

500 hours of driving

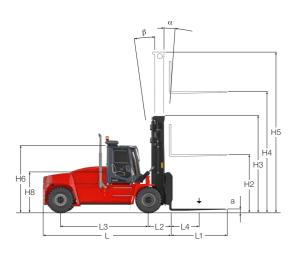
Service intervals for the 9-18 tonne range are after 500 hours of operations. This long service interval meets top industry performance parameters. As important, Kalmar's global presence means we can provide the right level of local support to your maintenance teams.

Technical information

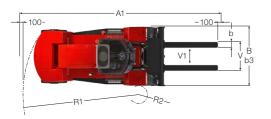


Load centre, mm

DCG90-6 to DCG180-6 models: Full lifting capacity up to 5000 mm lift height with duplex/duplex freelift/triplex masts and integrated sideshift/fork positioning carriage.







	Model designation		
ĕ	Power source		
2	Rated capacity / rated load	kg	
MAIN DATA	Load center distance	mm	L4
_	Load distance, center of drive axle to fork	mm	L2
	Wheelbase	mm	L3
	Service weight	kg	
2	Axle loading, loaded front	kg	
WEIGHTS	Axle loading, loaded rear	kg	
₩	Axle loading, unloaded front	kg	
	Axle loading, unloaded rear	kg	
	Type, front / rear		
	Tyre size, front	inch	
WHEELS	Tyre size, rear	inch	
₹	Number of wheels, front / rear (x = driven wheels)		
	Track width, front / rear	mm	s
	Tyre pressure	MPa	
	Mast tilt, α = forward / β = backward	0	α/β
	Height of mast lowered	mm	Н3
	Lift height	mm	H4
	Height of mast extended	mm	H5
	Truck height - EGO / OHG cabin roof	mm	H6
	Seat height	mm	Н8
	Height when tilting EGO cab / OHG	mm	T1
	Width when tilting EGO cab / OHG	mm	T2
	Truck length (to face of forks)	mm	L
SN	Truck width	mm	В
DIMENSIONS	Fork dimensions, width	mm	b
Ē	Fork dimensions, thickness	mm	а
	Fork dimensions, length of fork arm	mm	1
	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	mm	
	Ground clearance, machine	mm	
	Min. ailse width for 90° stacking with forks	mm	A1
	Turning radius	mm	R1
	Internal turning radius	mm	R2
	-		
(O	Operating pressure for hydraulics	MPa	
Ä	Hydraulic oil tank, capacity	I	
OTHERS	Fuel tank, capacity	I	
•	AdBlue tank, canacity	1	

170 170

DCG 90-6	DCG 100-6	DCG 120-6	DCG 127-6	DCG 140-6	DCG 150-6	DCG 100-12	DCG 120-12	DCG 150-12	DCG 160-6	DCG 160-9	DCG 160-12	DCG 180-6	DCG 70-35 E3	DCG 70-35 E4
DCG	DCG	DCG												
90-6	100-6	120-6	127-6	140-6	150-6	100-12	120-12	150-12	160-6	160-9	160-12	180-6	70-35 E3	70-35 E4
Diesel	Diesel	Diesel												
9000	10000	12000	12700	14000	15000	10000	12000	15000	16000	16000	16000	18000	7000	7000
600	600	600	600	600	600	1200	1200	1200	600	900	1200	600	1220	1220
895	895	900	900	910	980	990	990	1000	980	990	1000	990	1265	1265
2800	3000	3000	3000	3250	3250	3250	3500	3500	3500	3500	3750	3250	3500	3500
15200	156000	16200	16700	16900	19800	18600	19700	22300	19200	21200	22400	21600	22900	23900
7800	8100	8300	8300	8400	10300	10000	10100	10200	10200	10200	10500	10300	14700	15600
21700	23100	26500	27350	28900	32650	26700	29600	34600	34800	34800	35800	37100	27100	27600
7400	7500	7900	8400	8500	9500	8600	9600	12000	11000	11000	11900	11300	8200	8300
2500	2500	1900	2050	2000	2150	1900	2100	2600	2400	2400	2600	2500	2800	3300
						Pneu	ımatic / Pneu	matic						
1	1,00×20/16P	R				1	2,00×20/20P	'R				12,00×20/20PR HD	12,00×2	20/20PR
1	1,00×20/16P	R				1	2,00×20/20P	R				12,00×20/20PR HD	12,00×2	20/20PR
4x / 2	4x / 2	4x / 2												
1840 / 1960	1840 / 1960	1840 / 1960	1855 / 1960	1855 / 1960	2210 / 1960									
0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	1,0	1,0	1,0	0,9	0,9
5 / 10	5 / 10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5 / 10	3/5	3/5
4015	4015	4015	4035	4035	4195	4195	4195	4195	4195	4195	4195	4195	5195	7075
5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	7000	10000
6515	6515	6515	6515	6515	6515	6515	6515	6515	6515	6515	6515	6515	8695	12075
2895	2895	2895	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920
1770	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770
3370	3370	3370	3395	3395	3395	3395	3395	3395	3395	3395	3395	3395	3395	3395
3350	3350	3350	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380
4470	4720	4725	4725	4985	5055	5065	5315	5325	5305	5315	5575	5065	5595	5845
2480	2480	2480	2480	2480	2540	2540	2540	2540	2540	2540	2540	2540	2540	2900
200	200	200	200	200	200	220	220	250	200	220	250	220	6064	6064
65	65	70	70	80	80	90	90	100	80	90	100	90	2120	2120
1200	1200	1200	1200	1200	1200	2400	2400	2400	1200	1800	2400	1200	-	-
2450	2450	2450	2450	2450	2500	2500	2500	2500	2500	2500	2500	2500	2450	2450
2330 / 570		2330 / 570			2360 / 600	2360 / 640	2360 / 640			2360 / 640	2360 / 700		-	-
440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1480	430 / 1500	430 / 1500	430 / 1530	440 / 1480	430 / 1500	415 / 1530	430 / 1500	140	140
250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
330	330	330	330	350	350	350	350	350	350	350	350	350	350	350
6240	6470	6475	6475	6665	6735	7945	8370	8380	7160	8160	8770	6745	8900 / 13800	9200 / 13900
3950	4180	4180	4180	4360	4360	4360	4785	4785	4785	4785	5175	4570	4360	4785
75	75	75	75	125	125	125	420	420	420	420	600	270	125	420
16,0	17,0	17,5	18,0	19,0	16,5	12,5	15,0	17,0	17,0	17,5	18,0	19,0	19,5	20,0
			000	000	000	000	000	000	000	000	000	000		200

Drive train and performance

		Volvo TAD871 VE ZF 3WG171 (185 kW)	Volvo TAD572 VE ZF 3WG171 (160 kW)
Manufacturer's type designation		Volvo TAD871VE (Turbo-Intercooler)	Volvo TAD572VE (Turbo-Intercooler)
Fuel, type of engine		Diesel, 4-stroke	Diesel, 4-stroke
Rating ISO 3046 / at revs	kW / rpm	185/252 / 2200	160/218 / 2300
Peak torque ISO 3046 / at revs	Nm / rpm	1160 / 1200	910 / 1200
Number of cylinders / displacement	cm³	6 / 7700	4 / 5100
Fuel consumption, normal driving	l/h	8-10	7-9
AdBlue consumption, normal driving	% of diesel	3-5	3-5
Emission standard		Stage IV / Tier 4 final	Stage IV / Tier 4 final
Manufacturer's type designation		ZF 3WG171	ZF 3WG171
Clutch, type		Torque converter	Torque converter
Gearbox, type		Hydrodynamic Powershift	Hydrodynamic Powershift
Numbers of gears, forward / reverse		3/3	3/3
Alternator, type / power	W	AC / 3640	AC / 3080
Starting battery, voltage / capacity	V / Ah	2×12 / 150	2×12 / 150
Driving axle, manufacturer / type		Kessler D81 / Differential and hub reduction	Kessler D81 / Differential and hub reduction

		90-6	100-6	120-6	127-6	140-6	150-6	100-12	120-12	150-12	160-6	160-9	160-12	180-6
Lifting speed	Unloaded (m/s)	_	-	-	-	-	-	-	0,40	0,40	0,40	0,40	0,40	-
	At rated load (m/s)	-	-	-	-	-	-	-	0,35	0,35	0,35	0,35	0,35	-
Lowering speed	Unloaded (m/s)	-	-	-	-	-	-	-	0,30	0,30	0,30	0,30	0,30	-
	At rated load (m/s)	-	-	-	-	-	-	-	0,40	0,40	0,40	0,40	0,40	-
Travelling speed, F/R	Unloaded (km/h)	-	-	-	-	-	-	-	30	30	30	30	30	-
	At rated load (km/h)	-	-	-	-	-	-	-	29	29	29	29	29	-
Gradeability, max.	Unloaded (%)	-	-	-	-	-	-	-	105	83	111	91	82	-
	At rated load (%)	-	-	-	-	-	-	-	50	41	44	41	40	-
Gradeability, at 2 km/h	Unloaded (%)	-	-	-	-	-	-	-	84	69	88	75	69	-
	At rated load (%)	-	-	-	-	-	-	-	43	36	38	36	35	-
Drawbar pull	Max. (kN)	-	-	-	-	-	-	-	140	140	140	140	140	-
Noise level, inside	LpAZ*, EGO cabin (dB(A))	-	-	-	-	-	-	-	71	71	71	71	71	-
	LpAZ*, EGO cabin OHG (dB(A))	-	-	-	-	-	-	-	83	83	83	83	83	-
Noise level, outside	LWA** (dB(A))	_	_	_	_	_	_	_	107	107	107	107	107	-

Lifting speed	Unloaded (m/s)
	At rated load (m/s)
Lowering speed	Unloaded (m/s)
	At rated load (m/s)
Travelling speed, F/R	Unloaded (km/h)
	At rated load (km/h)
Gradeability, max.	Unloaded (%)
	At rated load (%)
Gradeability, at 2 km/h	Unloaded (%)
	At rated load (%)
Drawbar pull	Max. (kN)
Noise level, inside	LpAZ*, EGO cabin (dB(A))
	LpAZ*, EGO cabin OHG (dB(A))
Noise level, outside	LWA** (dB(A))

90-6	100-6	120-6	127-6	140-6	150-6	100-12	120-12	150-12	160-6	160-9	160-12	180-6
0,50	0,50	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
0,45	0,45	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35
0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
29	29	29	29	29	29	29	29	29	29	29	29	29
28	28	27	28	28	28	28	28	27	27	27	27	27
>120	>120	>120	114	111	82	91	83	68	86	73	68	71
63	59	52	47	44	39	49	43	36	38	36	35	33
103	98	91	82	81	63	69	64	54	66	58	54	56
50	47	42	39	37	32	40	35	30	32	30	29	28
127	127	127	123	123	123	123	123	123	123	123	123	123
71	71	71	71	71	71	71	71	71	71	71	71	71
83	83	83	83	83	83	83	83	83	83	83	83	83
100	400	400	400	400	400	400	400	400	400	400	400	400

		Cummins QSBo,7	Cummins QSB6,7
		ZF 3WG171 (168 kW)	ZF 3WG161 (129 kW)
Manufacturer's type designation		Cummins QSB6,7 (Turbo-Intercooler)	Cummins QSB6,7 (Turbo-Intercooler)
Fuel, type of engine		Diesel, 4-stroke	Diesel, 4-stroke
Rating ISO 3046 / at revs	kW / rpm	168/228 / 2200	129/176 / 2200
Peak torque ISO 3046 / at revs	Nm / rpm	949 / 1500	800 / 1400
Number of cylinders / displacement	cm ³	6 / 6702	6 / 6702
Fuel consumption, normal driving	l/h	7-9	8-10
AdBlue consumption, normal driving	% of diesel	3-5	3-5 / N/A
Emission standard		Stage IV / Tier 4 final	Stage IV & IIIA
Manufacturer's type designation		ZF 3WG171	ZF 3WG161
Clutch, type		Torque converter	Torque converter
Gearbox, type		Hydrodynamic Powershift	Hydrodynamic Powershift
Numbers of gears, forward / reverse		3/3	3/3
Alternator, type / power	W	AC / 1960	AC / 1680
Starting battery, voltage / capacity	V / Ah	2×12 / 150	2×12 / 150
Driving axle, manufacturer / type		Kessler D81 / Differential and hub reduction	Kessler D81 / Differential and hub reduction

			DCG 90-6	DCG 100-6	DCG 120-6	DCG 127-6	DCG 140-6	DCG 150-6	DCG 100-12	DCG 120-12	DCG 150-12	DCG 160-6	DCG 160-9	DCG 160-12	DCG 180-6
	Lifting speed	Unloaded (m/s)	_	0,50	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
_		At rated load (m/s)	_	0,45	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35
B6,7	Lowering speed	Unloaded (m/s)	-	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30
QSB6,7		At rated load (m/s)	_	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
2	Travelling speed, F/R	Unloaded (km/h)	_	29	29	30	30	30	30	30	30	30	30	30	30
CUMMINS		At rated load (km/h)	_	27	27	28	28	27	28	28	27	27	27	27	27
วิ	Gradeability, max.	Unloaded (%)	-	>120	>120	118	115	84	94	85	70	89	75	69	73
_		At rated load (%)	_	60	53	48	45	39	50	44	36	39	36	35	34
Ž	Gradeability, at 2 km/h	Unloaded (%)	-	88	82	75	73	58	64	59	50	61	53	50	52
Ě		At rated load (%)	-	44	39	36	34	30	37	33	28	30	28	27	26
ᅙ	Drawbar pull	Max. (kN)	-	129	129	125	125	125	125	125	125	125	125	125	125
PERFORMANCE,	Noise level, inside	LpAZ*, EGO cabin (dB(A))	-	73	71	71	71	71	71	71	71	71	71	71	71
_		LpAZ*, EGO cabin OHG (dB(A))	-	83	83	83	83	83	83	83	83	83	83	83	83
	Noise level, outside	LWA** (dB(A))	-	108	108	108	108	108	108	108	108	108	108	108	108

		DCG 90-6	DCG 100-6	DCG 120-6	DCG 127-6	DCG 140-6	DCG 150-6	DCG 100-12	DCG 120-12	DCG 150-12	DCG 160-6	DCG 160-9	DCG 160-12	DCG 180-6
Lifting speed	Unloaded (m/s)	0,50	0,50	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
	At rated load (m/s)	0,45	0,45	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35
Lowering speed	Unloaded (m/s)	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
	At rated load (m/s)	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40	0,40
Travelling speed, F/R	Unloaded (km/h)	29	29	29	29	29	29	29	29	29	29	29	29	29
	At rated load (km/h)	28	28	27	28	28	28	28	28	27	27	27	27	27
Gradeability, max.	Unloaded (%)	>120	>120	>120	107	104	78	87	79	65	82	70	65	68
	At rated load (%)	_	57	50	45	43	37	47	41	34	37	34	33	32
Gradeability, at 2 km/h	Unloaded (%)	_	97	91	79	78	61	67	62	52	64	56	52	54
	At rated load (%)	_	47	41	37	35	31	39	34	29	30	29	28	27
Drawbar pull	Max. (kN)	109	109	109	104	104	104	104	104	104	104	104	104	104
Noise level, inside	LpAZ*, EGO cabin (dB(A))	73	73	73	73	73	73	73	73	73	73	73	73	73
	LpAZ*, EGO cabin OHG (dB(A))	85	85	85	85	85	85	85	85	85	85	85	85	85
Noise level, outside	LWA** (dB(A))	108	108	108	108	108	108	108	108	108	108	108	108	108



Lifting equipment

Here is how the DCG90-180 helps drivers optimise lifting efficiency and save fuel – at the same time. To begin with, its new electric and hydraulic systems mean quicker response, high lifting speed and increased control. Meanwhile, new load sensing hydraulic pumps improve fuel efficiency. Operating together, this combination improves productivity and saves fuel every lift.

in the performance of any forklift, it is important yours match your individual requirements and applications. For instance, careful consideration should be made to factors such as lift height, clearance, free lift, carriage flexibility, etc. in order to optimise operations.

As lifting equipment plays a vital role Kalmar offer you a complete range of standard and custom lifting equipment - carriage, fork shaft, forks, levelling, etc - and options to suit your specific lifting and cargo handling requirements.

	Lift height H4	Mast I H3 min	height H5 max	Free lift H2	Mast I H3 min	height H5 max	Free lift H2			
		DO	CG90-14	Ю*	DCG100-180**					
_	3000	3015	4515	-	3195	4695	-			
Ē	3250	3140	4765	-	3320	4945	-			
CLEAR VIEW	3500	3265	5015	-	3445	5195	-			
LE/	3750	3390	5265	-	3570	5445	-			
oʻ	4000	3515	5515	-	3695	5695	-			
AB	4500	3765	6015	-	3945	6195	-			
STANDARD,	5000	4015	6515	-	4195	6695	-			
	5500	4265	7015	-	4445	7195	-			
Ĕ	6000	4515	7515	-	4695	7695	-			
DUPLEX	6500	4765	8015	-	4945	8195	-			
_	7000	5015	8515	-	5195	8695	-			

	Lift height H4	H3 min	height H5 max CG90-14	Free lift H2	Mast I H3 min	height H5 max G100-18	Free lift H2
>	3000	3015	4515	1500	3195	4695	1500
LIFT, CLEAR VIEW	3250	3140	4765	1625	3320	4945	1625
EAR	3500	3265	5015	1750	3445	5195	1750
2	3750	3390	5265	1875	3570	5445	1875
Ę	4000	3515	5515	2000	3695	5695	2000
FREE	4500	3765	6015	2250	3945	6195	2250
	5000	4015	6515	2500	4195	6695	2500
3	5500	4265	7015	2750	4445	7195	2750
Ä	6000	4515	7515	3000	4695	7695	3000
DUPLEX FULL	6500	4765	8015	3250	4945	8195	3250
ă	7000	5015	8515	3500	5195	8695	3500

			1100							
Lift height H4	H3 min	H5 max	lift H2	H3 min	H5 max	li H				
	DO	CG90-14	10 *	DCG100-180**						
4500	2950	5950	1500	3130	6190	15				
5000	3117	6450	1667	3297	6690	16				
5500	3283	6950	1833	3463	7190	18				
6000	3450	7450	2000	3630	7690	20				
6500	3617	7950	2167	3797	8190	21				
7000	3783	8450	2333	3963	8690	23				

⁺²⁵ mm on H3 and H5 on the DCG140



Duplex standard, free visibility



Duplex full free lift, free visibility



Triplex full free lift, free visibility



Fixed for manually moveable forks



Centre levelling



Fork positioning and sideshift





adjustment



with separate carriers



hydraulic adjustment



Hydraulic levelling

^{*} DCG90-140-6 **DCG150-180-6, DCG160-9, DCG100-160-12

Notes



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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