





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 demanding operations. the ergonomics bar.

Comfort pedals. A flexible pedal system provides an adjustable pedal angle. The ergonomics minimizes 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 highest demands. Large air intake, easy filter replacement in the front, welldimensioned and designed components provide complete driving comfort and convenience.

Ergonomic multi-seat.

The fully integrated Kalmar seat is designed and developed for maximum sitting posture, comfort and ergonomics for long shifts and

Operating console. Fully adjustable and individually tested for optimal ergonomics. The steering wheel can be tilted forward without limiting visibility.

The optional joystick with built-in travel direction switch is designed to improve driving efficiency. It is optimized for maximum lifting capacity and ergonomically enhanced to reduce arm fatigue.

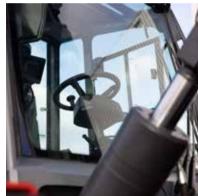
Optimized visibility. An open design with smart profiles and curved front and rear windows. Provides optimized views at all angles, with exceptionally good views diagonally forwards and backwards.

Work console. A natural extension of the driver's arm. Easy to set, adjust, and use. Ergonomic and flexible. Here are all the necessary controls, switches, levers and indicators for effective operations. Clear, wellplaced 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 provides great visibility, safety and ergonomics. Durable and robust for all kinds of weathers.























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 DCG100-180 economically and safely – securing savings throughout every shift.

Reducing fuel consumption.

Compared to our previous model, the DCG100-180 uses up to 15 percent 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 DCG100-180 with an optional drive axle and converter. The drive axle and converter is optimized to match the engine's performance and use the engine to its fullest. A lower rpm and an optimized gear ratio lowers the fuel consumption by up to 20% and makes the machine quieter to operate without losing any performance.



ECO drive modes.

Choose between three optional drive modes, each optimized 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.

Power

Brings out maximum performance of your machine, allowing you to increase the number of tons moved per hour.

Norma

Balances power and economy to optimize profitability.

Economy

If total cost of operations outweighs the need for performance, Economy mode reduces fuel consumption by up to 15 percent.

FEATURES

and options



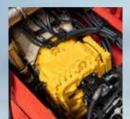
Kalmar attachments.

Choose between a wide range of forks and attachments for different applications. We offer complete solutions whereby we assemble the attachment in the factory and integrate it with the truck's other functions.



Heavy duty lift equipment.

Our long experience of extreme applications all over the world has gained us knowledge to optimize our lifting equipment. Kalmar's lifting equipment is by far the most heavy duty lifting equipment available on the market.



Engine options.

Kalmar offers the DCG100-180 with a number of different engine options for regulated and non-regulated markets. Engines from Cummins are available in different ratings.



ECO drive axle option.

A lower rpm and an optimized gear ratio lowers the fuel consumption by up to 20% and makes the machine quieter to operate without losing any performance.



Load sensing hydraulics.

The variable pumps automatically sense the load in every operation and adjust the oil flow accordingly, allowing for faster lifting cycles up to 40 percent while reducing fuel consumption. This will improve your productivity a lot depending on number of lift cycles.



Temperature control fan.

A new cooling system improves uptime and operational reliability of the DCG100-180. 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 sawmills or other dusty applications.



Improved truck safety features.

The DCG100-180 helps reduce the risk of accidents. It not only meets all current and emerging demands for operator health and safety, but it can also be equipped with a number of safety options making the operations as safe as possible.

Turnable driver seat 180° option.

The rotatable seat is a perfect option Lever steering options. when driving involves a lot of reversing – a time saving feature, activated by pushing a button, which shoulders during long shifts. also protects the driver's neck and shoulders.

Mini-wheel steering /

Ergonomic steering, precise maneuvering. Saves the driver's





























Kalmar Insight. Turning data into actionable, impactful insights.

Kalmar Insight* is a performance management tool for cargo handling, which gives you an easy to use overview of your fleet operations, by aggregating data from multiple sources, including equipment built by other manufacturers. This information is then accessed through an easy to use interface that is available on mobile, tablet or more traditional screens.

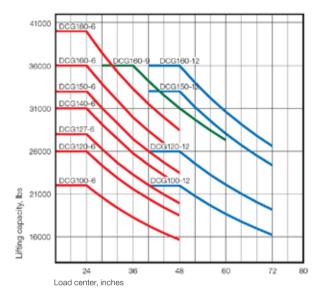
You can review your entire fleet activities and schedule maintenance activities. All enabling you to take action on real-time information, that will help improve your overall operations immediately. Kalmar Insight is available as an option on all new Kalmar equipment, and can be retrofitted into existing Kalmar equipment or those built by other manufacturers.



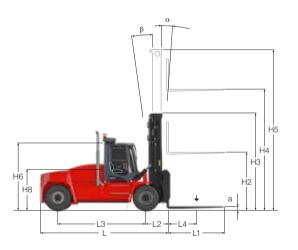


*Installation costs and/or an annual subscription fee may apply.

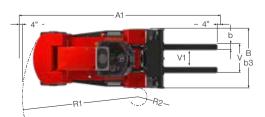
SPECIFICATIONS



DCG100-6 to DCG180-6 models: Full lifting capacity up to 197" lift height with duplex/duplex freelift/triplex masts and integrated sideshift/fork positioning carriage.







	Model designation		
MAIN DATA	Power source		
	Rated capacity / rated load	lbs	
	Load center distance	in	L4
	Load distance, center of drive axle to fork	in	L2
	Wheelbase	in	L3
	Wilcoldage	""	LO
	Service weight	lbs	
WEIGHTS	Axle loading, unloaded front	lbs	
	Axle loading, loaded front	lbs	
	Axle loading, unloaded rear	lbs	
-	Axle loading, loaded rear	lbs	
	, ,	.50	
	Type, front / rear		
	Tire size, front	in	
ELS	Tire size, rear	in	
뿧	Number of wheels, front / rear (x = driven wheels)		
	Track width, front / rear	in	S
	Tire pressure	psi	
	·		
	Mast tilt, α = forward / β = backward	0	α/β
	Height of mast lowered	in	НЗ
	Lift height	in	H4
	Height of mast extended	in	H5
	Truck height - EGO / OHG cabin roof	in	H6
	Seat height	in	Н8
	Height when tilting EGO cab / OHG	in	T1
	Width when tilting EGO cab / OHG	in	T2
ဖ	Truck length (to face of forks)	in	L
Ñ O	Truck width	in	В
DIMENSI	Fork dimensions, width	in	b
M	Fork dimensions, thickness	in	а
۵	Fork dimensions, length of fork arm	in	1
	Fork carriage width	in	b3
	Width over fork arms, maximum / minimum*	in	V
	Sideshift ± @ width over forks*	in	V1 / V
	Ground clearance, laden, below mast	in	
	Ground clearance, machine	in	
	Min. aisle width for 90° stacking with forks	in	A1
	Turning radius	in	R1
	Inside turning radius	in	R2
	On south as a second for both . "		
S	Operating pressure for hydraulics	psi	
单	Hydraulic oil tank, capacity	gal	
OTHERS	Fuel tank, capacity	gal	
	Diesel Exhaust Fluid (DEF) tank, capacity	gal	

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 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
Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
22,000	26,000	28,000	31,000	33,000	22,000	26,000	33,000	36,000	36,000	36,000	40,000	15,400	15,400
24	24	24	24	24	48	48	48	24	36	48	24	48	48
38.2	38.2	38.2	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	52.4	52.4
118	118	118	128	128	128	138	138	138	138	148	128	138	138
39,000	39,900	41,200	42,800	44,100	42,800	45,200	50,900	44,800	48,900	52,000	48,700	54,000	61,300
22,500	22,500	22,500	23,100	23,100	23,600	24,000	24,000	23,600	23,800	24,700	23,400	32,600	39,900
56,100	62,200	65,300	69,400	72,500	60,600	66,600	78,000	76,100	79,400	82,000	83,100	60,200	66,600
16,500	17,400	18,700	19,600	20,900	19,200	21,200	26,900	21,200	25,100	27,300	25,400	21,400	21,400
4,900	3,700	4,000	4,200	4,600	4,200	4,600	6,000	4,600	5,500	6,000	5,500	9,300	10,100
						Pneumatic	/ Pneumatic				10.00.00/00/00		
				1	2.00x20/20P	R					12.00x20/20PR HD	12.00x2	20/20PR
				1	2.00x20/20P	R					12.00x20/20PR HD	12.00x2	20/20PR
4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2					
73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	73 / 77	87 / 77
145	145	145	145	145	145	145	145	145	145	145	145	145	145
14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	14 / 10	3/5	3/5
165	165	165	165	165	165	165	165	165	165	165	165	205	279
197	197	197	197	197	197	197	197	197	197	197	197	276	394
264	264	264	264	264	264	264	264	264	264	264	264	342	475
115	115	115	115	115	115	115	115	115	115	115	115	115	115
70	70	70	70	70	70	70	70	70	70	70	70	70	70
134	134	134	134	134	134	134	134	134	134	134	134	134	134
133	133	133	133	133	133	133	133	133	133	133	133	133	133
189	189	189	200	200	200	210	210	210	210	219	200	220	230
100	100	100	100	100	100	100	100	100	100	100	100	100	114
7.9	7.9	7.9	7.9	7.9	9.8	9.8	9.8	7.9	9.8	9.8	9.8	-	-
2.8	2.8	2.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	-	-
48	48	48	48	48	96	96	96	48	72	96	48	-	-
98	98	98	98	98	98	98	98	98	98	98	98	96	96
93 / 24	93 / 24	93 / 24	93 / 24	93 / 24	93 / 28	93 / 28	93 / 28	93 / 24	93 / 28	93 / 28	93 / 24	-	-
19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	19 / 55	6	6
10	10	10	10	10	10	10	10	10	10	10	10	10	10
13	13	14	14	14	14	14	14	14	14	14	14	14	14
258	258	258	267	267	315	331	331	283	323	347	267	350 / 543	362 / 547
165	165	165	172	172	172	188	188	188	188	204	180	172	188
3	3	3	5	5	5	17	17	17	17	24	11	17	17
1,670	1,960	2,030	2,180	2,250	1,810	2,180	2,470	2,470	2,540	2,610	2,760	2,830	2,900
58	58	58	58	58	58	58	58	58	58	58	58	58	58
45	45	45	45	45	45	45	45	45	45	45	45	45	45
5	5	5	5	5	5	5	5	5	5	5	5	5	5

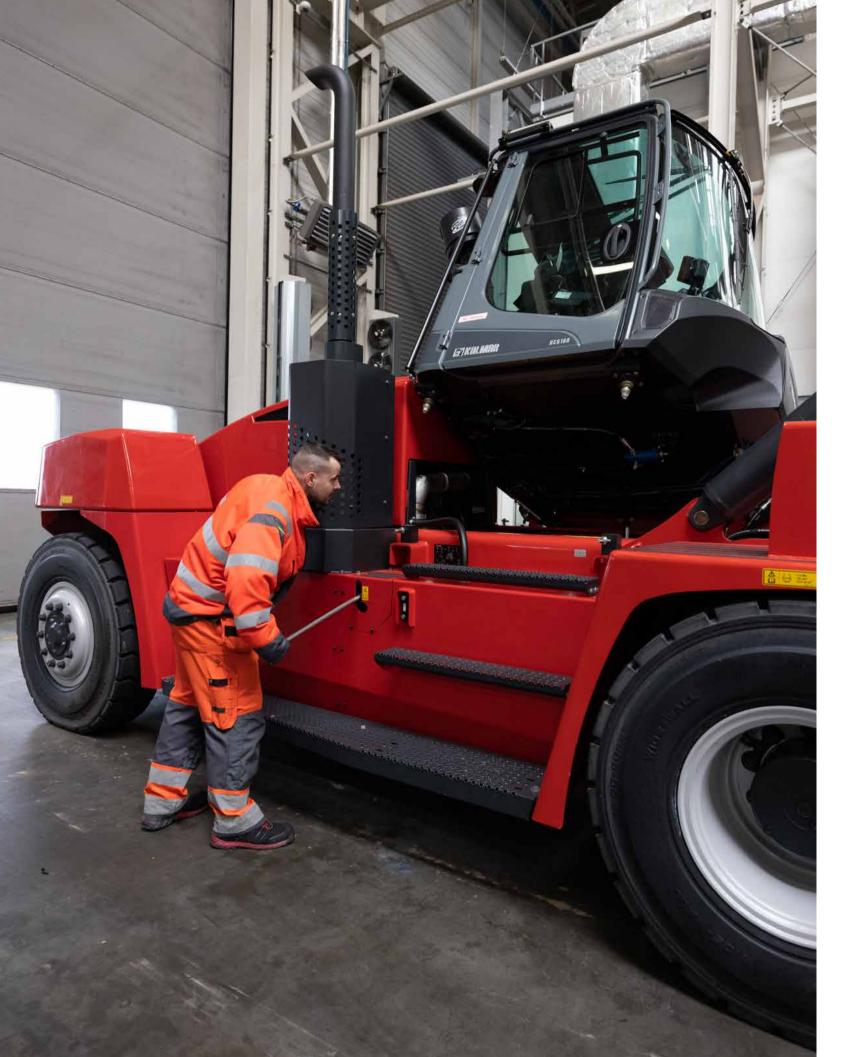


DRIVETRAIN & PERFORMANCE

			ZF 3WG171 (225 hp)	ZF 3WG161 (173 hp)
	Manufacturer's type designation		Cummins B6.7 (Turbo-Intercooler)	Cummins B6.7 (Turbo-Intercooler)
	Fuel, type of engine		Diesel, 4-stroke	Diesel, 4-stroke
	Rating ISO 3046 / at revs	hp / rpm	225 / 2,200	173 / 2,200
Ä.	Peak torque ISO 3046 / at revs	lbf-ft / rpm	700 / 1,500	590 / 1,400
ENGNE	Number of cylinders / displacement	in ³	6 / 409	6 / 409
_	Fuel consumption, normal driving	gal/hr	1.8-2.4	1.8-2.4
	DEF* consumption, normal driving	% of diesel	3-5	3-5
	Emission standard		Tier 4 final	Tier 4 final
	Manufacturer's type designation		ZF 3WG171	ZF 3WG161
& MISC	Clutch, type		Torque converter	Torque converter
≥ ⊗	Gearbox, type		Hydrodynamic Powershift	Hydrodynamic Powershift
ŏ	Numbers of gears, forward / reverse		3/3	3/3
Ä	Alternator, type / power	Amp	AC / 130	AC / 110
GEARBOX	Starting battery, voltage / capacity	V / Ah	2×12 / 150	2×12 / 150
0	Driving axle, manufacturer / type		Kessler D81 / Differential and hub reduction	Kessler D81 / Differential and hub reduction

		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	DCG70- 35 E3	DCG70- 35 E4
Lifting speed	Unloaded (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.0
	At 80% of rated load (ft/s)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.8
Lowering speed	Unloaded (ft/s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
	At rated load (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6
Traveling speed, F/R	Unloaded (mph)	18	18	19	19	19	19	19	19	19	19	19	19	19	19
Gradeability, max.	At rated load (mph)	17	17	17	17	17	17	17	17	17	17	17	17	18	18
Gradeability, max.	Unloaded (%)	103	99	93	87	82	87	79	66	80	70	64	70	60	51
	At rated load (%)	51	47	44	41	39	41	42	35	37	35	33	33	44	39
Gradeability, at 1.2 mph	Unloaded (%)	77	74	70	67	64	67	62	52	62	55	51	56	49	42
	At rated load (%)	42	38	36	34	32	39	35	29	30	29	28	27	36	32
Drawbar pull	Max. (lbf)	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100	28,100
Gradeability, at 1.2 mph Drawbar pull Noise level, inside	LpAZ**, EGO cabin (dB(A))	71	71	71	71	71	71	71	71	71	71	71	71	71	71
	LpAZ**, EGO OHG (dB(A))	83	83	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	108	108

		100-6	120-6	127-6	140-6	150-6	100-12	120-12	150-12	160-6	160-9	160-12	180-6	35 E3	35 E4
Lifting speed	Unloaded (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.0
	At 80% of rated load (ft/s)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.8
Lowering speed	Unloaded (ft/s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
	At rated load (ft/s)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6
Traveling speed, F/R	Unloaded (mph)	18	18	18	18	18	18	18	18	18	18	18	18	19	19
	At rated load (mph)	17	17	17	17	17	17	17	17	17	17	17	17	18	18
Gradeability, max.	Unloaded (%)	74	72	68	65	62	65	60	51	61	54	50	54	48	41
	At rated load (%)	43	37	35	33	31	38	34	28	30	28	27	27	35	31
Gradeability, at 1.2 mph	Unloaded (%)	60	58	56	53	51	53	50	43	50	45	42	45	40	35
	At rated load (%)	36	32	30	28	27	32	29	24	25	24	23	23	30	27
Drawbar pull	Max. (lbf)	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400	23,400
Noise level, inside	LpAZ**, EGO cabin (dB(A))	73	73	73	73	73	73	73	73	73	73	73	73	71	71
	LpAZ**, EGO OHG (dB(A))	85	85	85	85	85	85	85	85	85	85	85	85	83	83
Noise level, outside	LWA*** (dB(A))	108	108	108	108	108	108	108	108	108	108	108	108	108	108



LIFTING EQUIPMENT

Here is how the DCG100-180 helps drivers optimize lifting efficiency and save fuel – at the same time. To begin with, its electric and hydraulic systems mean quicker response, high lifting speed and increased control. Meanwhile, load sensing hydraulic pumps improve fuel efficiency. Operating together, this combination improves productivity and saves fuel – every lift.

As lifting equipment plays a vital role 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 optimize operations.

Kalmar offers you a complete range of standard and custom lifting equipment – carriage, quick change, forks, leveling, etc – and options to suit your specific lifting and cargo handling requirements.

	Lift height H4	H3 min	height H5 max DCG100-180	Free lift H2
	118	126	185	-
	128	131	195	-
Ē	138	136	205	-
DUPLEX STANDARD, CLEAR VIEW	148	141	214	-
Ë	157	145	224	-
o,	167	150	234	-
AR	177	155	244	-
AND	187	160	254	-
ST	197	165	264	-
Ě	217	175	283	-
ğ	236	185	303	-
-	256	195	323	-
	276	205	342	-

177	155	244	-
187	160	254	-
197	165	264	-
217	175	283	-
236	185	303	-
256	195	323	_
070	205	342	-
276			
Lift	Mast I	•	Free
Lift height	Mast h H3 min	neight H5 max	Free lift H2
Lift	H3 min	•	lift H2
Lift height	H3 min	H5 max	lift H2
Lift height H4	H3 min	H5 max DCG100-180	lift H2
Lift height H4	H3 min 126	H5 max DCG100-180 185	lift H2 59

	height H4	H3 min	H5 max DCG100-180	lift H2
	118	126	185	59
>	128	131	195	64
	138	136	205	69
DUPLEX FULL FREE LIFT, CLEAR VIEW	148	141	214	74
퓡	157	145	224	79
Ĕ,	167	150	234	84
	177	155	244	89
E	187	160	254	94
₫	197	165	264	98
Щ Щ	217	175	283	108
를	236	185	303	118
	256	195	323	128
	276	205	342	138

	Lift	Mast	height	Free
	height	H3 min	H5 max	lift H2
	H4		DCG100-180	
	177	123	244	59
ઇ	197	130	263	66
ᄄ	217	136	283	72
TRIPLEX FFL, CV	236	143	303	79
虚	256	149	322	85
	276	156	342	92



Duplex standard, free visibility



Duplex full free lift, free visibility



Triplex full free lift, free visibility



Fixed for manually moveable forks



Center levelling



Fork positioning and sideshift



Sidesh



Forks for manual adjustment



Quick change system with separate carriers for each fork



Roller fittings for hydraulic adjustment



Hydraulic leveling

STANDARD

Chassis/Body

- Towing pin
- Steps with anti slip protection
- Strong and protective fenders
- Anti-slip strips on front fenders and tanks

Cabin

- EGO Cabin
- Tinted front laminated safety glasssClear and tempered panes of safety
- glass, thickness 1/4"
 Clear windows with sliding windows
- in left and right doorWiper and washers front/rear and
- roof windowComplete doors with locks left and right side
- Door opening holder left side
- Kalmar standard key system
- Instep handle, left side
- Internal comfort with mirror, handles, interior lighting etc.
- Automatic heat and ventilation (ECH) with fresh air inlet filter
- Full suspension seat with 2-point orange belt
- Complete maneuver system right hand console with light controls, navigation wheel for display, levers for load handling system (electric adjustable, 2-ways)
- Hydraulic steering system with electrically height adjustable steering wheel with knob, manually adjustable laterally and longitudinally
- Multi-function lever left side includes horn, turn signal
- Brake system with pedal left and right side
- Speed control pedal right side
- Color display:
- Fuel level, indicator
- Engine, transmission temperature
- Oil pressure engine
- Battery voltage
- Clock and date
- Hour meter
- Service time indicator
- Speed (mph or kmh)
- Engine speed (RPM)Various information via pop-up
- Diesel Exhaust Fluid (DEF) indicator
- Cup holder
- Electric strong tone horn
- External reverse lights
- Tilting cab

Steering system

• Steering axle Kalmar, including double acting steering cylinder

Mast & Carriage

- Lifting eyes in mast
- Tapered roller bearings including 6x6 lift chain (duplex standard mast only)

Drivetrain

- Driveaxle DCG100-180; Kessler with wet disc brakes
- Temperature controlled cooling fan
- Automatic gearshift with declutch at brake (Manual gearshift possible in control panel)

Hydraulics

- Electrical servo
- 2 load handling functions, lift and tilt
- Level sight glass on hydraulic oil tank
- Load sensing pumps
- High pressure filter
- Automatic raised engine rpm when load handling function is used
- Mast tilt angles 10° backward / 14° forward
- Leakage-free ORFS couplings

Electric system

- Electrical system 24 V
- Rear lights and brake lights, LED
- Working lights on front fender, LED
- Working light mast, 2 pcs, LED
- Indicator lamps with hazard lights, LED
- Flashing brake lights when reversing
- Main power switch
- Rotating beacon adjustable LED
- Reverse alarm

Wheels

Pneumatic
 DCG100-160 12.00x20
 DCG180-6 12.00x20
 (high cap. tires)

Color

- Cab: frame RAL 7011/70, covers RAL 7021/10
- Chassis: Kalmar Red 2012 (Base ref. RAL 3000/75)
- Lifting equipment: Kalmar Black (Base ref. RAL 7021/30)

Documentation & decals

- Operators manual
- Maintenance manual
- Parts catalog
- Load diagram in cab.Warning decals
- Information decals
- Diagram, fuses
- Capacity plate and 'No Riders' warning sign.





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