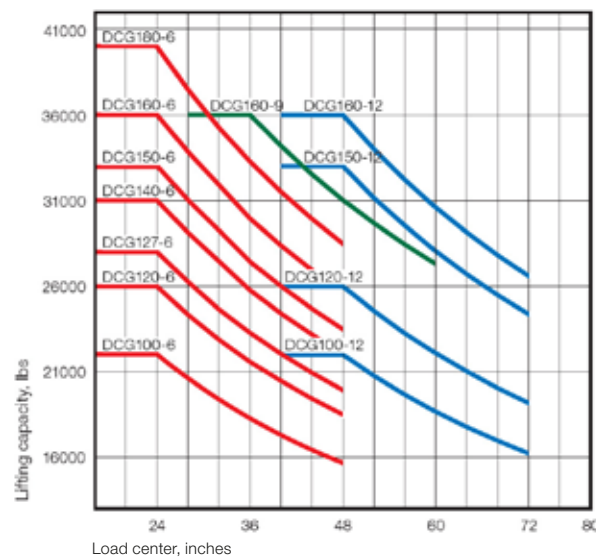
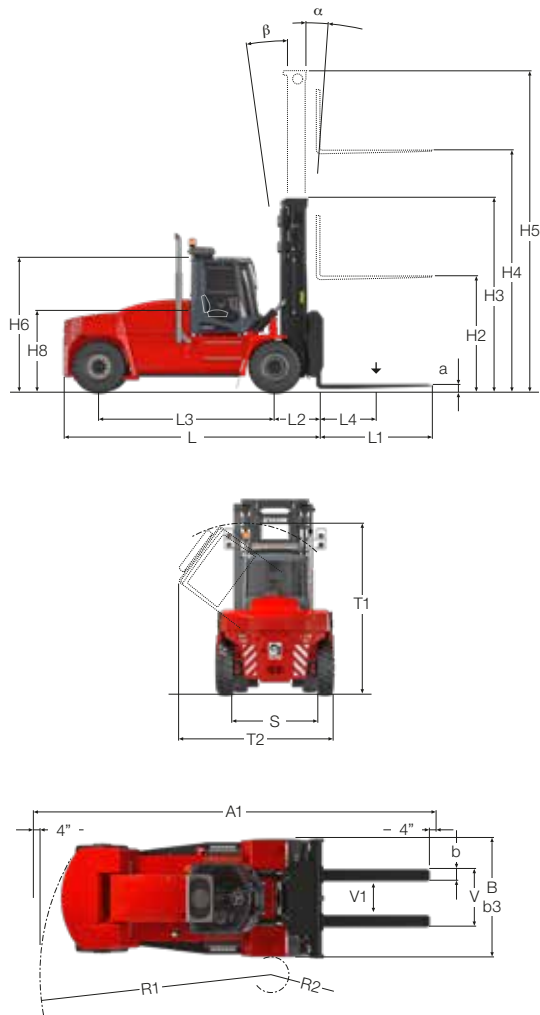


SPECIFICATIONS



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.



MAIN DATA	Model designation	
	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
WEIGHTS		
	Service weight	lbs
	Axle loading, unloaded front	lbs
	Axle loading, loaded front	lbs
	Axle loading, unloaded rear	lbs
	Axle loading, loaded rear	lbs
WHEELS		
	Type, front / rear	
	Tire size, front	in
	Tire size, rear	in
	Number of wheels, front / rear (x = driven wheels)	
	Track width, front / rear	in S
DIMENSIONS		
	Mast tilt, α = forward / β = backward	° α / β
	Height of mast lowered	in H3
	Lift height	in H4
	Height of mast extended	in H5
	Truck height – EGO / OHG cabin roof	in H6
	Seat height	in H8
	Height when tilting EGO cab / OHG	in T1
	Width when tilting EGO cab / OHG	in T2
	Truck length (to face of forks)	in L
	Truck width	in B
	Fork dimensions, width	in b
	Fork dimensions, thickness	in a
	Fork dimensions, length of fork arm	in l
	Fork carriage width	in b3
	Width over fork arms, maximum / minimum*	in V
	Sideshift $\pm$ @ 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	
OTHERS		
	Operating pressure for hydraulics	psi
	Hydraulic oil tank, capacity	gal
	Fuel tank, capacity	gal
	Diesel Exhaust Fluid (DEF) tank, capacity	

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													
12.00x20/20PR											12.00x20/20PR HD	12.00x20/20PR	
12.00x20/20PR											12.00x20/20PR HD	12.00x20/20PR	
4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	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

ENGINE	Manufacturer's type designation	Cummins B6.7 ZF 3WG171 (225 hp)	Cummins B6.7 ZF 3WG161 (173 hp)
	Fuel, type of engine	Cummins B6.7 (Turbo-Intercooler) Diesel, 4-stroke	Cummins B6.7 (Turbo-Intercooler) Diesel, 4-stroke
	Rating ISO 3046 / at revs	225 / 2,200	173 / 2,200
	Peak torque ISO 3046 / at revs	700 / 1,500	590 / 1,400
	Number of cylinders / displacement	6 / 409	6 / 409
	Fuel consumption, normal driving	1.8-2.4	1.8-2.4
	DEF* consumption, normal driving	3-5	3-5
	Emission standard	Tier 4 final	Tier 4 final

GEARBOX & MISC	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	AC / 130	AC / 110
	Starting battery, voltage / capacity	2×12 / 150	2×12 / 150
	Driving axle, manufacturer / type	Kessler D81 / Differential and hub reduction	Kessler D81 / Differential and hub reduction

PERFORMANCE, CUMMINS B6.7 (225 hp)		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
	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
	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

PERFORMANCE, CUMMINS B6.7 (173 hp)		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	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

* Diesel Exhaust Fluid ** LpAZ according to EN12053 *** LWA according to 2000/14/EC



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.

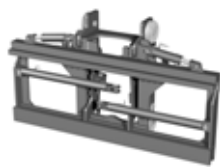
DUPLEX STANDARD, CLEAR VIEW	Lift height H4	Mast height		Free lift H2
		H3 min	H5 max	
		DCG100-180		
	118	126	185	–
	128	131	195	–
	138	136	205	–
	148	141	214	–
	157	145	224	–
	167	150	234	–
	177	155	244	–
187	160	254	–	
197	165	264	–	
217	175	283	–	
236	185	303	–	
256	195	323	–	
276	205	342	–	



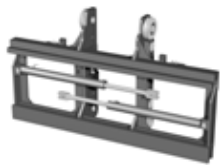
Duplex standard, free visibility



Fixed for manually moveable forks



Center levelling



Fork positioning and sideshift



Sideshift

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



Duplex full free lift, free visibility



Forks for manual adjustment



Quick change system with separate carriers for each fork

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



Triplex full free lift, free visibility



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 glasss
- Clear and tempered panes of safety glass, thickness 1/4"
- Clear windows with sliding windows in left and right door
- Wiper and washers front/rear and roof window
- Complete 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.

