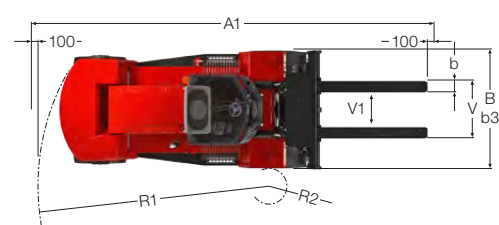
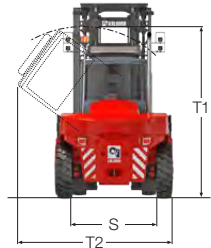


The graph illustrates the relationship between lifting capacity and load centre for various DCG models. The y-axis represents lifting capacity in tonnes, ranging from 4 to 20. The x-axis represents the load centre in millimeters, ranging from 600 to 2000. Red lines represent standard models, while blue lines represent models with a 10% increase in capacity. The lines show that lifting capacity decreases as the load centre increases, and that the 10% increase models (blue) consistently provide higher capacity than the standard models (red) for the same load centre.

Model	600 mm	900 mm	1200 mm	1500 mm	1800 mm	2000 mm
DCG180-6 (Red)	18.0	16.0	14.0	12.0	10.0	8.0
DCG180-6 (Blue)	19.8	17.6	15.4	13.2	11.0	8.8
DCG160-6 (Red)	16.0	14.0	12.0	10.0	8.0	6.0
DCG160-6 (Blue)	17.6	15.6	13.6	11.6	9.6	7.6
DCG160-9 (Green)	16.0	14.0	12.0	10.0	8.0	6.0
DCG160-12 (Blue)	16.0	14.0	12.0	10.0	8.0	6.0
DCG150-6 (Red)	15.0	13.0	11.0	9.0	7.0	5.0
DCG150-6 (Blue)	16.5	14.5	12.5	10.5	8.5	6.5
DCG140-6 (Red)	14.0	12.0	10.0	8.0	6.0	4.0
DCG140-6 (Blue)	15.4	13.4	11.4	9.4	7.4	5.4
DCG127-6 (Red)	13.0	11.0	9.0	7.0	5.0	3.0
DCG127-6 (Blue)	14.3	12.3	10.3	8.3	6.3	4.3
DCG120-6 (Red)	12.0	10.0	8.0	6.0	4.0	2.0
DCG120-6 (Blue)	13.2	11.2	9.2	7.2	5.2	3.2
DCG120-12 (Green)	12.0	10.0	8.0	6.0	4.0	2.0
DCG100-6 (Red)	10.0	8.0	6.0	4.0	2.0	1.0
DCG100-6 (Blue)	11.0	9.0	7.0	5.0	3.0	2.0
DCG100-12 (Green)	10.0	8.0	6.0	4.0	2.0	1.0
DCG90-6 (Red)	9.0	7.0	5.0	3.0	1.0	0.5
DCG90-6 (Blue)	9.9	7.9	5.9	3.9	1.9	1.0

A technical diagram of a counterbalanced forklift. The diagram shows the side profile of the vehicle with various dimensions and angles labeled. The dimensions include: H_6 (height to the top of the mast), H_8 (height to the top of the counterbalance), L_3 (wheelbase), L (total length), L_2 (distance from front wheel to mast), L_4 (distance from mast to fork), and L_1 (total length including fork). The angles include: α (mast tilt angle), β (fork tilt angle), and γ (fork horizontal angle). The height of the fork is labeled H_5 , and the height of the mast is labeled H_4 . The height of the counterbalance is labeled H_3 , and the height of the chassis is labeled H_2 . A downward arrow labeled a indicates the center of gravity.



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	kg
	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		MPa

DIMENSIONS	Mast tilt, α = forward / β = backward	°	α / β
	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 $\pm$ @ width over forks	mm	V1 / V
Ground clearance, laden, below mast	mm		
Ground clearance, machine	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	MPa
	Hydraulic oil tank, capacity	l
	Fuel tank, capacity	l
	AdBlue tank, capacity	l

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 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
Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	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	1330	1330
2800	3000	3000	3000	3250	3250	3250	3500	3500	3500	3500	3750	3250	3500	3500

15200	15600	16200	16700	16900	19800	18600	19700	22300	19200	21200	22400	21600	24000	28000
7800	8100	8300	8300	8400	10300	10000	10100	10200	10200	10200	10500	10300	14800	18100
21700	23100	26500	27350	28900	32650	26700	29600	34600	34800	34800	35800	37100	26900	30200
7400	7500	7900	8400	8500	9500	8600	9600	12000	9200	11000	11900	11300	9200	9700
2500	2500	1900	2050	2000	2150	1900	2100	2600	2400	2400	2600	2500	4100	4600

Pneumatic / Pneumatic														
11,00x20/16PR			12,00x20/20PR									12,00x20/20PR HD	12,00x20/20PR	
11,00x20/16PR			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	4x / 2
1840 / 1960	1840 / 1960	1840 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 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	6535	6535	6565	6565	6565	6565	6565	6565	6565	6565	8695	12075
2895	2895	2895	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920	2920
1745	1745	1745	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	–	–
65	65	70	70	80	80	90	90	100	80	90	100	90	–	–
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	2330 / 570	2330 / 570	2330 / 570	2360 / 600	2360 / 640	2360 / 640	2360 / 700	2360 / 600	2360 / 640	2360 / 700	2360 / 640	–	–
440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1480	430 / 1500	430 / 1500	415 / 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	350	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	420	420

[illegible]

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.

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 optimise operations.

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.



DUPLEX STANDARD, CLEAR VIEW

Lift height H4	Mast height		Free lift H2	Mast height		Free lift H2
	H3 min	H5 max		H3 min	H5 max	
DCG90-140*			DCG100-180**			
3000	3015	4515	–	3195	4695	–
3250	3140	4765	–	3320	4945	–
3500	3265	5015	–	3445	5195	–
3750	3390	5265	–	3570	5445	–
4000	3515	5515	–	3695	5695	–
4500	3765	6015	–	3945	6195	–
5000	4015	6515	–	4195	6695	–
5500	4265	7015	–	4445	7195	–
6000	4515	7515	–	4695	7695	–
6500	4765	8015	–	4945	8195	–
7000	5015	8515	–	5195	8695	–

DUPLEX FULL FREE LIFT, CLEAR VIEW

Lift height H4	Mast height		Free lift H2	Mast height		Free lift H2
	H3 min	H5 max		H3 min	H5 max	
	DCG90-140*			DCG100-180**		
3000	3015	4515	1500	3195	4695	1500
3250	3140	4765	1625	3320	4945	1625
3500	3265	5015	1750	3445	5195	1750
3750	3390	5265	1875	3570	5445	1875
4000	3515	5515	2000	3695	5695	2000
4500	3765	6015	2250	3945	6195	2250
5000	4015	6515	2500	4195	6695	2500
5500	4265	7015	2750	4445	7195	2750
6000	4515	7515	3000	4695	7695	3000
6500	4765	8015	3250	4945	8195	3250
7000	5015	8515	3500	5195	8695	3500

TRIPLEX FFL, CW

Lift height H4	Mast height		Free lift H2	Mast height		Free lift H2
	H3 min	H5 max		H3 min	H5 max	
DCG90-140*			DCG100-180**			
4500	2950	5950	1500	3130	6190	1500
5000	3117	6450	1667	3297	6690	1667
5500	3283	6950	1833	3463	7190	1833
6000	3450	7450	2000	3630	7690	2000
6500	3617	7950	2167	3797	8190	2167
7000	3783	8450	2333	3963	8690	2333

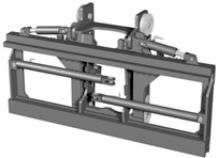
+25 mm on H3 and H5 on the DCG140
* DCG90-140-6
** DCG150-180-6, DCG160-9, DCG100-160-12



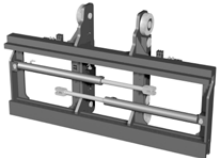
Duplex standard, free visibility



Fixed for manually moveable forks



Centre levelling



Fork positioning and sideshift



Sideshift



Duplex full free lift, free visibility



Forks for manual adjustment



Fork shaft system with separate carriers for each fork



Triplex full free lift, free visibility



Roller fittings for hydraulic adjustment



Hydraulic levelling