

Model designation

DCG180-12LB

Diesel engine

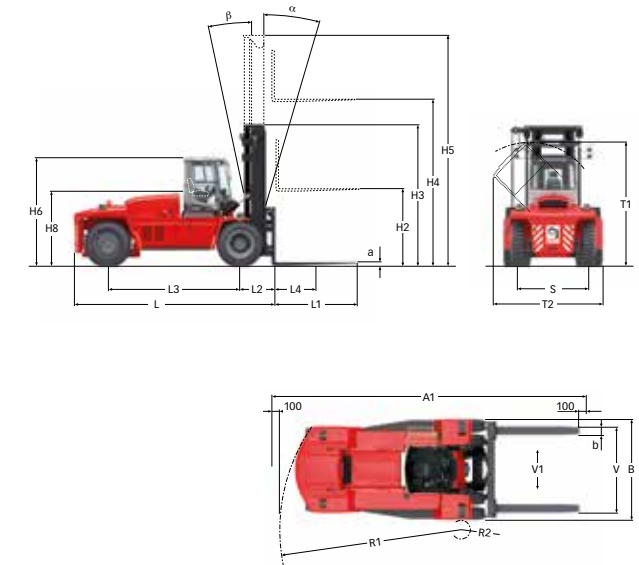
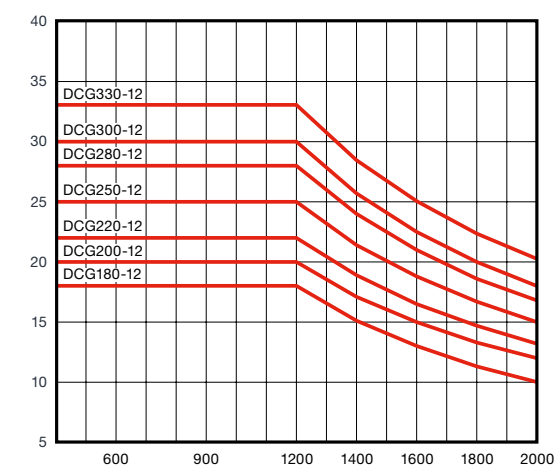
Counterbalance truck

Generation

Lifting capacity, in decitonnes

Load centre, in decimetres

Low built tilt cylinders



					DCG180-12LB	DCG200-12LB	DCG220-12LB	DCG250-12LB	DCG280LB	DCG300LB	DCG330LB
Lifting	Lifting capacity	Rated		kg	18000	20000	22000	25000	28000	30000	33000
		Load centre	L4	mm	1200	1200	1200	1200	1200	1200	1200
Dimensions	Truck	Length, without forks	L	mm	6090	6090	6090	6340	6925	6925	6925
		Width	B	mm	3050	3050	3050	3050	3430	3430	3430
		Height, basic machine	H6	mm	3270	3270	3300	3270	3415	3415	3415
		Seat height	H8	mm	2150	2150	2350	2150	2300	2300	2300
		Distance between centre of front axle and front face of fork arm	L2	mm	1070	1070	1070	1070	1125	1125	1125
		Wheelbase	L3	mm	4000	4000	4000	4250	4750	4750	4750
		Track (c-c), front – rear	S	mm	2200 – 2140	2200 – 2140	2200 – 2140	2200 – 2140	2540 – 2440	2540 – 2440	2540 – 2440
		Turning radius, outer	R1	mm	5600	5600	5600	5875	6600	6600	6600
		Turning radius, inner	R2	mm	425	425	425	550	950	950	950
		Ground clearance, min.		mm	300	300	300	300	300	300	300
		Max. height when tilting cab	T1	mm	3800	3800	3800	3800	3800	3800	3800
		Max. width when tilting cab	T2	mm	3700	3700	3700	3700	3800	3800	3800
		Min. aisle width for 90° stacking with forks	A1	mm	9270	9270	9270	9550	10325	10325	10325
	Standard duplex mast	Lifting height	H4	mm	5000	5000	5000	5000	5000	5000	5000
		Mast height, min.	H3	mm	4320	4320	4320	4320	4520	4520	4520
		Mast height, max.	H5	mm	6820	6820	6820	6820	7020	7020	7020
		Mast tilting, forwards – backwards	a – b	°	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10
	Forks	Width	b	mm	250	250	250	250	300	300	300
		Thickness	a	mm	110	110	110	110	110	110	110
		Length of fork arm	l	mm	2400	2400	2400	2400	2400	2400	2400
		Width across fork arms, max. – min.	V	mm	2600 – 1000	2600 – 1000	2600 – 1000	2600 – 1000	2750 – 1550	2750 – 1550	2750 – 1550
		Sideshift ± at width across fork arms	V1 – V	mm	400 – 1800	400 – 1800	400 – 1800	400 – 1800	300 – 2150	300 – 2150	300 – 2150
	Service weight			kg	28500	29800	31200	32900	38300	39500	41500
Weight	Axle load front	Unloaded		kg	15000	15000	15000	15500	20500	20500	20500
		At rated load		kg	43200	46300	49500	53800	61700	64900	68800
	Axle load back	Unloaded		kg	13500	14800	16200	17400	17800	19000	21000
		At rated load		kg	3300	3500	3700	4100	4100	4300	4800
	Wheels/tyres	Type			Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Wheels, brakes and steering		Dimensions, front – rear		inch	14.00x24 – 14.00x24	14.00x24 – 14.00x24	14.00x24 – 14.00x24	14.00x24 – 14.00x25	16.00x25 – 16.00x25	16.00x25 – 16.00x25	16.00x25 – 16.00x25
		Number of wheels, front – rear (*driven)			4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2	4* – 2
		Pressure		Mpa	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Steering system	Type – manoeuvring			Hydraulic servo - Steering wheel						
	Service brake system	Type – affected wheels			Oil cooled disc brakes (wet disc brakes) – Drive wheels						
	Parking brake system	Type – affected wheels			Dry, spring activated disc brake – Drive wheels						
	Hydraulic pressure	Max.		Mpa	16,5	18	20	22	19,5	20,5	22
Miscellaneous	Hydraulic fluid volume			l	330	330	330	330	330	330	330
	Fuel volume			l	300	300	300	375	450	450	450

Drive train

			DCG180-250LB	DCG280-330LB
Engine	Manufacturer – 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/hp-rpm	168/225 – 2200	194/260 – 2200
	Peak torque ISO 3046 – at revs	Nm-rpm	949 – 1500	990 – 1500
	Number of cylinders – displacement	cm3	6 – 6702	6 – 6702
	Fuel consumption, normal driving	l/h	9 – 13	13 – 15
	Adblue consumption, normal driving	l/h	0.3 – 0.6	0.4 – 0.7
Gearbox	Manufacturer – type designation		Dana - TE17000	Dana - TE17000
	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-1960
Starting battery	Voltage – capacity		2x12 – 145	2x12 – 145
Driving axle	Manufacturer – type		Kessler D91 - Differential and hub reduction	AxleTech - Differential and hub reduction



Performance – Cummins QSB6,7 with Dana TE17000

				DCG180-12LB	DCG200-12LB	DCG220-12LB	DCG250-12LB	DCG280-12LB	DCG300-12LB	DCG330-12LB
Lifting speed	unloaded		m/s	0.33	0.33	0.33	0.33	0.35	0.35	0.35
	at 80% of rated load		m/s	0.32	0.32	0.32	0.32	0.25	0.25	0.25
Lowering speed	unloaded		m/s	0.38	0.38	0.38	0.38	0.38	0.38	0.38
	at rated load		m/s	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Travelling speed, forward – reverse	unloaded		km/h	27 – 27	27 – 27	27 – 27	27 – 27	27 – 27	27 – 27	27 – 27
	at rated load		km/h	26 – 26	26 – 26	26 – 26	26 – 26	25 – 25	25 – 25	25 – 25
Gradeability	Max.	unloaded	%	74	69	65	60	65	62	60
		at rated load	%	38	35	32	29	32	30	28
	At 2 km/h	unloaded	%	51	48	44	41	43	41	40
		at rated load	%	28	26	24	22	22	21	20
Drawbar pull	Max.		kN	173	173	173	173	214	214	214
Noice level inside	LpAZ* EGO Cabin		dB(A)	72	72	72	72	73	73	73
Noice level outside	LwA**		dB(A)	109	109	109	109	110	110	110

* Noise level according to EN12053 ** Noise level according to 2000/14/EC



Lifting equipment

We offer a full range of duplex, triplex and free-lift equipment. Based on our long tradition as a supplier of heavy forklifts, our lifting equipment is robust and of the highest quality.

DCG180-250
Duplex standard, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
3500			–
4000	3820	5820	–
4500	4070	6320	–
5000	4320	6820	–
5500	4570	7320	–
6000	4820	7820	–
6500	5070	8320	–
7000	5320	8820	–

Duplex free-lift, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
3500			
4000	3920	5920	2000
4500	4170	6420	2250
5000	4420	6920	2500
5500	4670	7420	2750

Triplex free-lift, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
5150	3700	6950	1900

DCG280-330
Duplex standard, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
4000	4020	6020	–
4500	4270	6520	–
5000	4520	7020	–
5500	4770	7520	–
6000	5020	8020	–
6500	5270	8520	–
7000	5520	9020	–

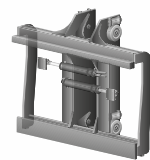
Duplex free-lift, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
4000	4020	6020	2000
4500	4270	6520	2250
5000	4520	7020	2500
5500	4770	7520	2750
6000	5020	8020	3000

Triplex free-lift, clear view

Lift height	Mast height		Free-lift
H4	Min. H3	Max. H5	H2
5900	4220*	8150*	2080

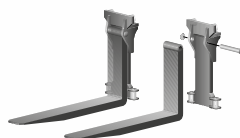
* Might be slightly reduced if smallest available tyres are choosed.



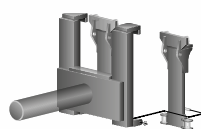
Carriage sideshift / fork positioning



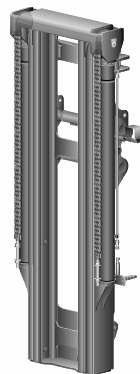
Carriage with kissing forks for steel handling



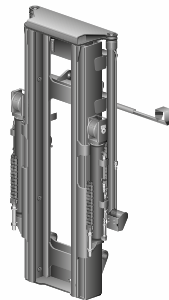
Fork shaft system (Hook on type or roller type)



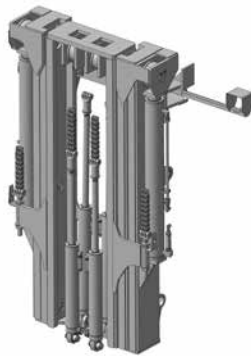
Coil ram



Duplex standard



Duplex free lift



Triplex full free lift

