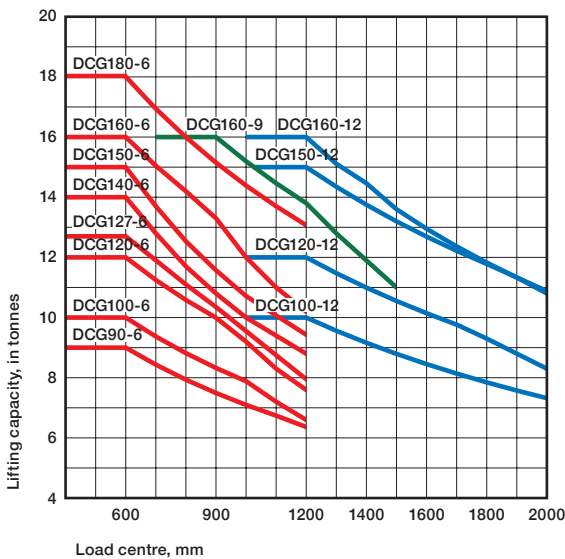


KALMAR DCG150-12

Datos Técnicos

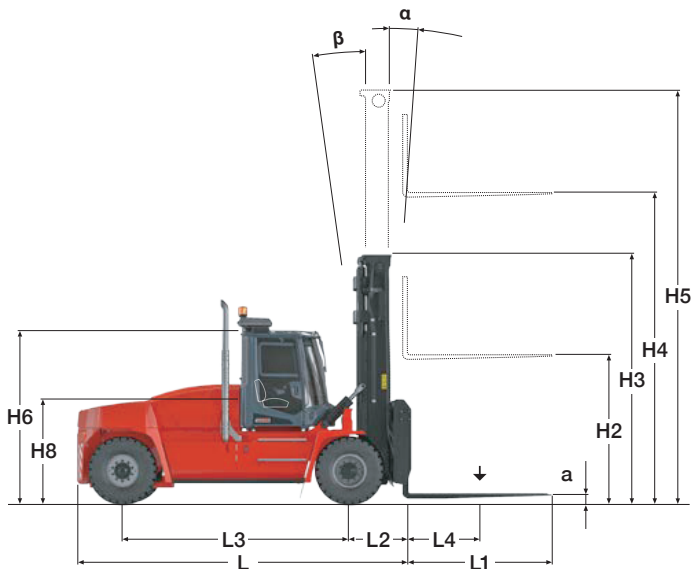
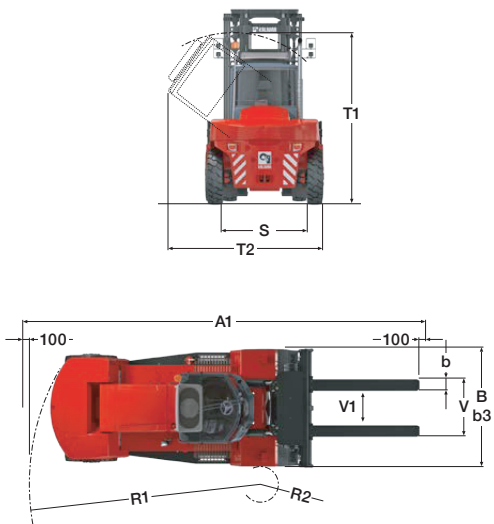


Información técnica



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.

		DCG 150-12	
MAIN DATA	Model designation	DCG 150-12	
	Power source	Diesel	
	Rated capacity / rated load	kg	15000
	Load center distance	mm L4	1200
	Load distance, center of drive axle to fork	mm L2	1000
WEIGHTS	Wheelbase	mm L3	3500
	Service weight	kg	22300
	Axle loading, unloaded front	kg	10200
	Axle loading, loaded front	kg	34600
	Axle loading, unloaded rear	kg	12000
WHEELS	Axle loading, loaded rear	kg	2600
	Type, front / rear	Pneumatic / Pneumatic	
	Tyre size, front	inch	12,00x20/20PR
	Tyre size, rear	inch	12,00x20/20PR
	Number of wheels, front / rear (x = driven wheels)	4x / 2	
DIMENSIONS	Track width, front / rear	mm S	1855 / 1960
	Tyre pressure	MPa	0,9
	Mast tilt, α = forward / β = backward	° α / β	5 / 10
	Height of mast lowered	mm H3	4195
	Lift height	mm H4	5000
	Height of mast extended	mm H5	6565
	Truck height – EGO / OHG cabin roof	mm H6	2920
	Seat height	mm H8	1770
	Height when tilting EGO cab / OHG	mm T1	3395
	Width when tilting EGO cab / OHG	mm T2	3380
	Truck length (to face of forks)	mm L	5325
	Truck width	mm B	2540
	Fork dimensions, width	mm b	250
	Fork dimensions, thickness	mm a	100
	Fork dimensions, length of fork arm	mm l	2400
OTHERS	Fork carriage width	mm b3	2500
	Width over fork arms, minimum / maximum	mm V	2360 / 700
	Sideshift $\pm$ @ width over forks	mm V1 / V	415 / 1530
	Ground clearance, laden, below mast	mm	250
	Ground clearance, machine	mm	350
	Min. aisle width for 90° stacking with forks	mm A1	8380
	Turning radius	mm R1	4785
	Internal turning radius	mm R2	420
	Operating pressure for hydraulics	MPa	17,0
	Hydraulic oil tank, capacity	l	220
	Fuel tank, capacity	l	170
	AdBlue tank, capacity	l	15



Transmisión y prestaciones

ENGINE	Volvo TAD871 VE ZF 3WG191 (185 kW)	
	Manufacturer's type designation	Volvo TAD871VE (Turbo-Intercooler)
	Fuel, type of engine	Diesel, 4-stroke
	Rating ISO 3046 / at revs kW / rpm	185/252 / 2200
	Peak torque ISO 3046 / at revs Nm / rpm	1160 / 1200
	Number of cylinders / displacement cm³	6 / 7700
	Fuel consumption, normal driving l/h	8-10
	AdBlue consumption, normal driving % of diesel	3-5
	Emission standard	Stage IV / Tier 4 final
GEARBOX & MISC	Manufacturer's type designation	ZF 3WG191
	Clutch, type	Torque converter
	Gearbox, type	Hydrodynamic Powershift
	Numbers of gears, forward / reverse	3 / 3
	Alternator, type / power W	AC / 3640
	Starting battery, voltage / capacity V / Ah	2x12 / 150
	Driving axle, manufacturer / type	Kessler D81 / Differential and hub reduction

PERFORMANCE, VOLVO TAD871 VE			DCG 150-12
	Lifting speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,35
	Lowering speed	Unloaded (m/s)	0,30
		At rated load (m/s)	0,40
	Travelling speed, F/R	Unloaded (km/h)	30
		At rated load (km/h)	29
	Gradeability, max.	Unloaded (%)	111
		At rated load (%)	44
	Gradeability, at 2 km/h	Unloaded (%)	88
		At rated load (%)	38
	Drawbar pull	Max. (kN)	140
	Noise level, inside	LpAZ*, EGO cabin (dB(A))	71
		LpAZ*, EGO cabin OHG (dB(A))	83
	Noise level, outside	LWA** (dB(A))	107
* LpAZ according to EN12053 ** LWA according to 2000/14/EC			

PERFORMANCE, VOLVO TAD572 VE			DCG 150-12
	Lifting speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,35
	Lowering speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,40
	Travelling speed, F/R	Unloaded (km/h)	29
		At rated load (km/h)	27
	Gradeability, max.	Unloaded (%)	68
		At rated load (%)	36
	Gradeability, at 2 km/h	Unloaded (%)	54
		At rated load (%)	30
	Drawbar pull	Max. (kN)	123
	Noise level, inside	LpAZ*, EGO cabin (dB(A))	71
		LpAZ*, EGO cabin OHG (dB(A))	83
	Noise level, outside	LWA** (dB(A))	108
* LpAZ according to EN12053 ** LWA according to 2000/14/EC			

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

PERFORMANCE, CUMMINS QSB6,7			DCG 150-12
	Lifting speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,35
	Lowering speed	Unloaded (m/s)	0,30
		At rated load (m/s)	0,40
	Travelling speed, F/R	Unloaded (km/h)	30
		At rated load (km/h)	27
	Gradeability, max.	Unloaded (%)	70
		At rated load (%)	36
	Gradeability, at 2 km/h	Unloaded (%)	50
		At rated load (%)	28
	Drawbar pull	Max. (kN)	125
	Noise level, inside	LpAZ*, EGO cabin (dB(A))	71
		LpAZ*, EGO cabin OHG (dB(A))	83
	Noise level, outside	LWA** (dB(A))	108
* LpAZ according to EN12053 ** LWA according to 2000/14/EC			

PERFORMANCE, CUMMINS QSB6,7*			DCG 150-12
	Lifting speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,35
	Lowering speed	Unloaded (m/s)	0,40
		At rated load (m/s)	0,40
	Travelling speed, F/R	Unloaded (km/h)	29
		At rated load (km/h)	27
	Gradeability, max.	Unloaded (%)	65
		At rated load (%)	34
	Gradeability, at 2 km/h	Unloaded (%)	52
		At rated load (%)	29
	Drawbar pull	Max. (kN)	104
	Noise level, inside	LpAZ*, EGO cabin (dB(A))	73
		LpAZ*, EGO cabin OHG (dB(A))	85
	Noise level, outside	LWA** (dB(A))	108
* LpAZ according to EN12053 ** LWA according to 2000/14/EC			

Equipos de elevación

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	
DCG150-12						
4000	3515	5515	–	3695	5695	



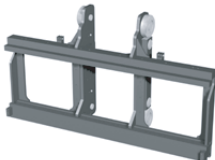
Duplex standard, free visibility



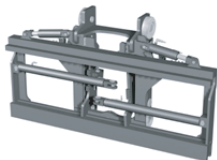
Duplex full free lift, free visibility



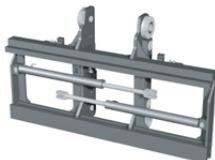
Triplex full free lift, free visibility



Fixed for manually moveable forks



Centre levelling



Fork positioning and sideshift



Sideshift



Forks for manual adjustment



Fork shaft system with separate carriers for each fork



Roller fittings for hydraulic adjustment



Hydraulic levelling

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