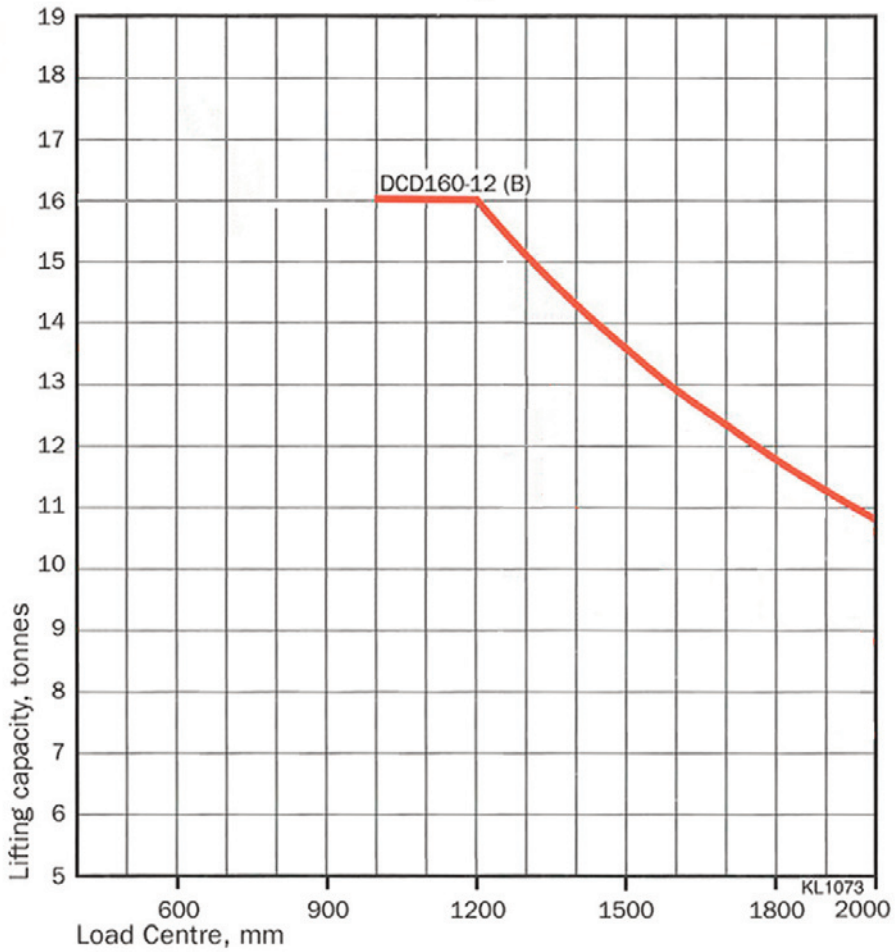
SOOS
MAQUINARIA

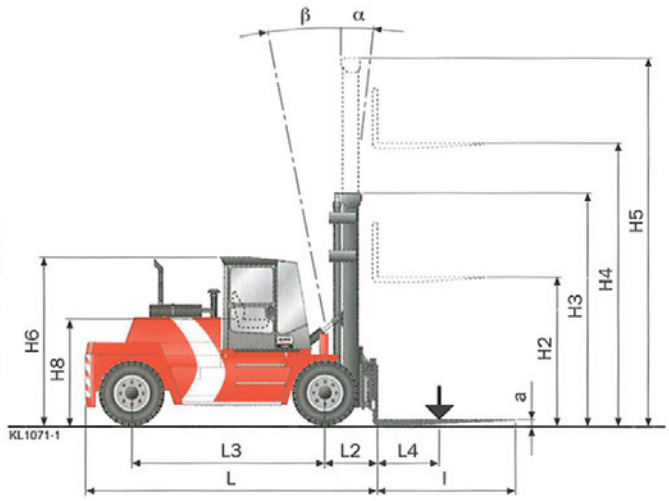
KALMAR DCD 16 TN

Datos Técnicos

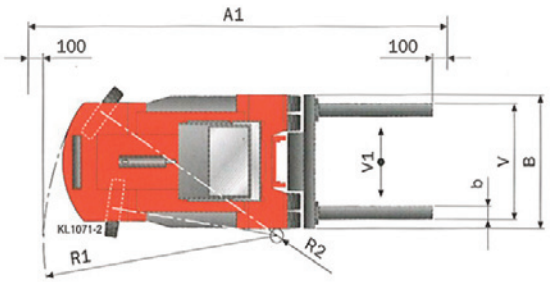
Load diagramme

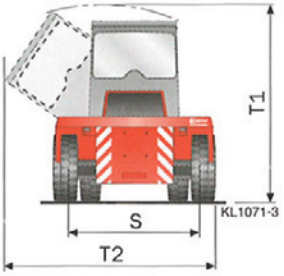


A. Perkins engine
B. Volvo engine
1. DCD90-6 to DCD180-6 models:
Full lifting capacity up to 5000 mm lift height with Duplex/Duplex free lift/Triplex masts and integrated sideshift/fork positioning carriage.



Lift mast	Lift height H4 mm	Lift mast height Min H3 mm	Lift mast height Max H5 mm	Free-lift H2 mm
		160-12		
Triplex, free visibility, free-lift	5000	3285	6685	1665





	1 **Model** **Lifting capacity, deciton - Load centre distance, decimetre** A = Perkins engine B = Volvo engine				**DCD 160-12** B		
Lifting data	2 Lifting capacity	Rated		kg	16000		
		At max lifting height		kg	16000		
	3 Lifting speed	Unloaded		m/s	0.40		
		At rated load		m/s	0.35		
	4 Lowering speed	Unloaded		m/s	0.40		
		At rated load		m/s	0.40		
Performance	5 Driving speed forward/ reverse	Unloaded		km/h	30		
		At rated load		km/h	30		
	6 Gradient capability	Max, unloaded		%	51		
		Max at rated load		%	26		
		At 2 km/h, unloaded		%	41		
		At 2 km/h, at rated load		%	22		
	7 Draw bar pull	Max		kN	105		
	8 Stability ISO 1074/10525	Yes/No					
Weight	9 Service weight			kg	22400		
	10 Axle load front	Unloaded		kg	10500		
		At rated load		kg	35800		
	11 Axle load back	Unloaded		kg	11900		
		At rated load		kg	2600		
Drive system	12 Engine	A. Perkins B. Volvo			B.		
		Manufacturer - type designation			B. Volvo - TD640VE (Turbo) [1]		
		Fuel - type of engine			Diesel - 4-stroke		
		Rating ISO 3046 - at revs		kW/hp - rpm	129/175 - 2400		
		Peak torque ISO 3046 - at revs		Nm - rpm	690 - 1400-1500		
		No of cylinders - displacement		cm^3	6 - 5480		
		Fuel consumption, normal operation		l/h	7 - 10		
	13 Alternator	Type - power		W	AC - 1540		
	14 Starting battery	Voltage - capacity		V - Ah	2×12 - 140		
	15 Gearbox	C. Clark 20000 D. Clark 28000			D.	D.	D.
		Manufacturer - type designation			D. Clark - 13.7HR 28000 [2]		
		Clutch, type			Torque converter		
		Gearbox, type			Hydro-dynamic Powershift		
		No. of gears forward - reverse			3 - 3		
	16 Drive axle	Type			Differential and hub reduction		
Wheels, brakes, steering	17 Wheels/tyres	Type front and rear					
		Dimensions, front and rear/Ply		inches/ number	12.00×20/20PR		
		No. of wheels, front - rear (*driven)					
		Inflation pressure		MPa	0.9	1.0	
	18 Steering system	Type - maneuvering			Hydraulic-servo - Steering Wheel		
	19 Service brake system	Type - affected wheels			Oil cooled disc brakes (Wet disc brakes) - drive wheels		
	20 Parking brake system	Type - affected wheels			Dry, spring activated disc brake - drive wheels		
Misc.	21 Hydraulic pressure	Max		MPa	17.5		
	22 Noise level DIN 45635-36	Equivalent noise level in cab (Lm)		dB(A)	73		
	23 Fuel volume			L	205		
	24 Hydraulic fluid volume			L	220		
Dimensions	25 Minimum aisle width for 90° stacking with forks		A1	mm	7160	8770	
	26 Truck	Truck length without forks	L	mm	5305	5575	
		Truck width	B	mm	2530		
		Height, basic machine	H6	mm	2910		
		Seat height	H8	mm	1790		
		Distance between centre of front axle - front face of fork arm	L2	mm	995		
		Wheelbase	L3	mm	3750		
		Load centre	L4	mm			
		Track (c-c) front - rear	S	mm	1200		
		Turning radius, outer	R1	mm	5175		
		Turning radius, inner	R2	mm	600		
		Ground clearance, min		mm	350		
		Max height when tilting cab	T1	mm	3425		
		Max width, tilted cab	T2	mm	3380		
	27 Standard duplex mast	Lifting height	H4	mm	5000		
		Mast height, min.	H3	mm	4185		
		Mast height, max.	H5	mm	6685		
		Mast tilting, forwards - backwards	α-β	°	5-10		
		Ground clearance, min		mm	250		
	28 Forks	Width	b	mm	250		
		Thickness	a	mm	100		
		Length of fork arms	l	mm	2400		
		Width across fork arms, max	V	mm	2360		
		Width across fork arms, min	V	mm	700		
		Sideshift ± at width across fork arms	V1-V	mm	415-1530		

This table relates to trucks fitted with standard equipment, for optional equipment, see separate tables.

[1] More powerful engines are available, up to 167 kW/230 hp

[2] Stronger gearboxes are available, Clark 32000 (3+3)

[3] Semi-solid tyres are available for all models (Super-Elastic)