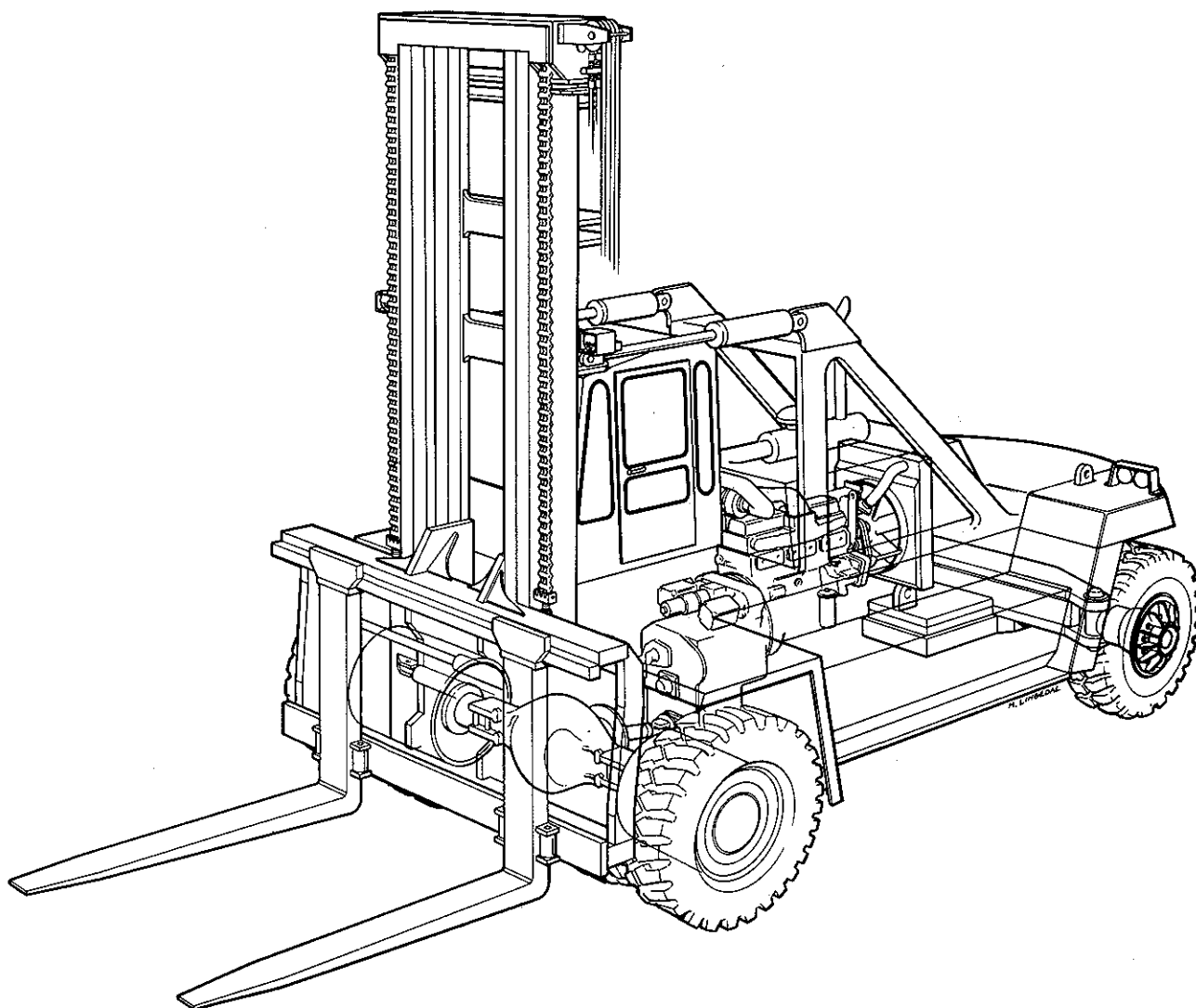


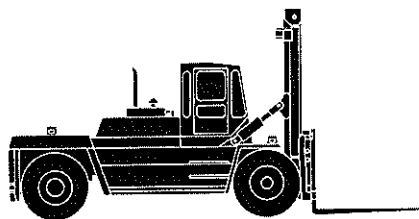


DCB 28-52

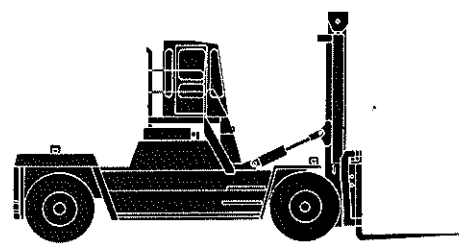
Technical information



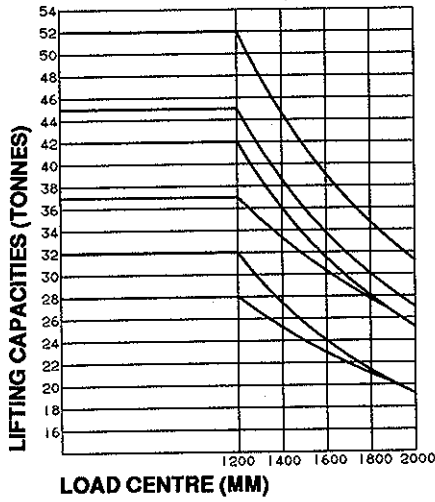
Standard model



Low-built model



Container Special



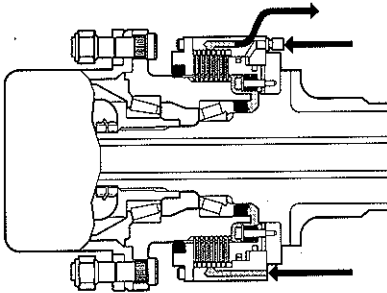
Stability

All Kalmar LMV forklift trucks are designed and developed for safety and conform to (and even exceed) the stringent ISO 1074 and F.E.M safety standards. Our own well proven computer program rapidly and precisely calculate the stability, even taking into account maximum side shifted loads, wind effect on container handling and operation with raised loads, according to ISO 10525.

Drive axle

The drive axle is a high quality product and complies with our high demands relating to operational reliability. Reduction takes place in two stages, i.e., differential and hub reductions. This reduces the stress on the power transmission system to a minimum.

The drive axle is fitted with "Wet Disc Brakes" (refer also to "Braking system").

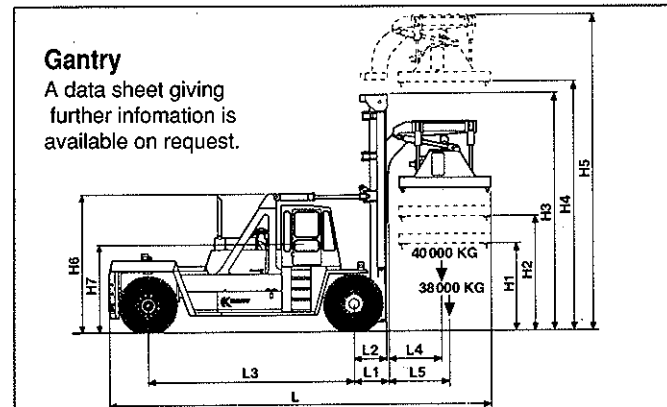
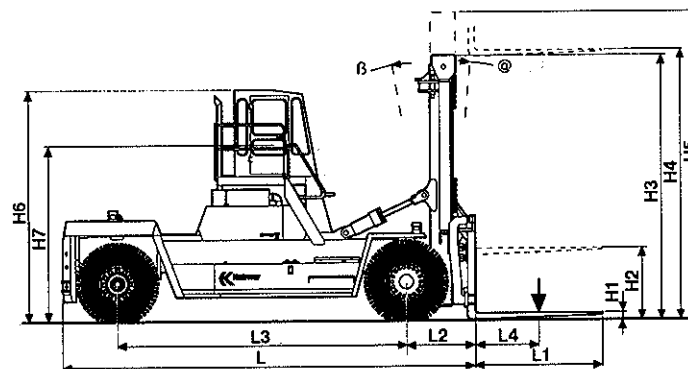
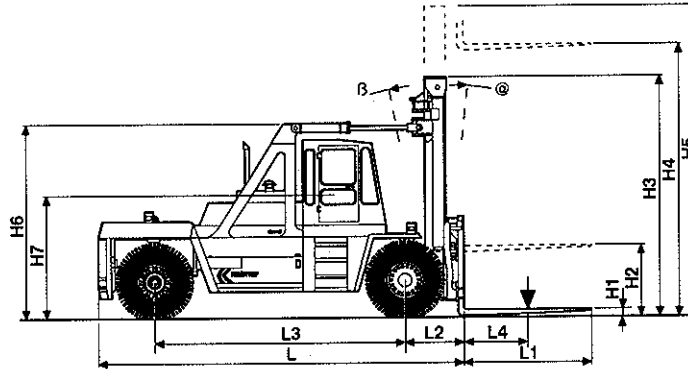
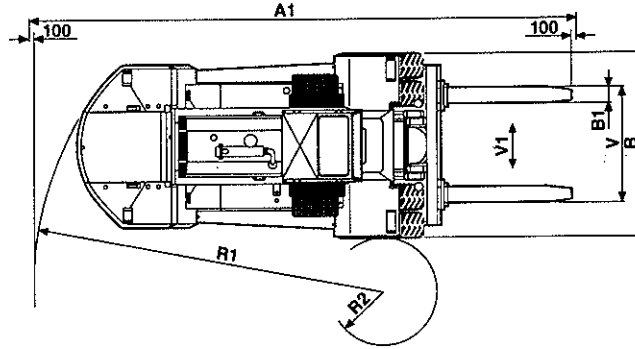
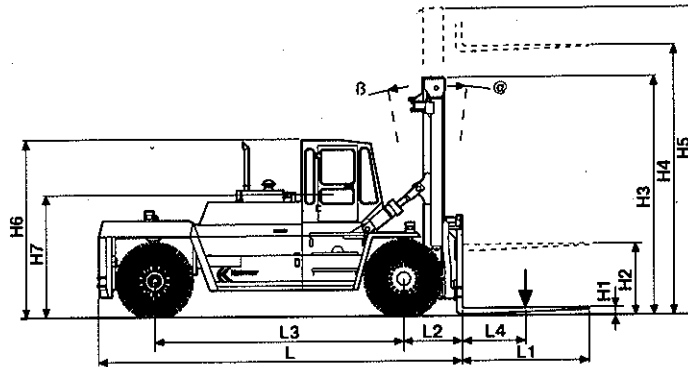


Braking system

All Kalmar LMV trucks are fitted with Wet Disc Brakes, an entirely maintenance-free system that withstands high loads over long periods; no brake adjustment is required, there is no wear and no fading, the brakes are applied with the help of an hydraulically operated multi-disc assembly in each hub giving an extremely efficient braking effect.

The system is fully enclosed and prevents any water and pollutants from entering. The heat that is generated is dissipated by the discs which operate in an oil bath. This is also coupled to a special cooling circuit, which is part of the total hydraulic system (refer also to Hydraulic system).

The parking brake consists of a disc brake on the drive axle's input shaft. It is applied by the spring assembly and released by hydraulic pressure. The system's accumulator ensures that hydraulic pressure for the brakes is always available even if the engine should temporarily stop.



	DCB 37-1200 G	DCB 42-1200 G
Lifting capacity in retracted position (L4)	35000	40000
Lifting capacity, in extracted position (L5)	33000	38000

Dimensions and da

Specification	
1 Model	
2 Version	
3 Lifting capacity	
4 Load centre	
5 Power unit	
6 Steering	
7 Tyre type	Front/rear
8 Wheels	Number at
9 Lift, duplex mast	Standard
10	Fre lift, nor
11	Free lift, (o
12	
13 Forks, tickness	
	width
	standard length
	Distance between forks
	Min
	Max
	Max ±
14 Mast tilt angle	Forward/ba
15 Overall dimensions	Length with
16	Width of tr.
17	Mast height
18	Mast height
19	Height
20	Seat height
21 Turning radius	Outer
	Inner
22 Distance from front axle centre to load	
23 Aisle for 90° stacking	incl. 200 m
Stability	ISO 1074
24 Speed	Travelling f
25	Lifting
26	Lowering
27	
28 Towing ability	Max
29 Incline driving ability	Cont. at 2 k
30	Max at 0 km
31 Acceleration time	Distance of
32 Gross vehicle weight	
33 Axle load	Unladen
	Laden
34	Unladen
	Laden
35 Tyres	Number
36	Size
37	
38 Wheelbase	
39 Track	Between ce
40 Ground clearance	Under the r
41	At half dista
42 Foot brake system	Type/brake
43 Parkering brake	Type/brake
Steering system, type	
44-48 (for electric trucks)	
49 Engine	Manufactur
50	Rating ISO
51	Rated speed
	Peak torque
52	Number of cy
	Compressio
53	Fuel consum
	Alternator
	Starting battery
	Type - Ratio
	Voltage - Ca
54 Drive axle	Type
55 Gearbox	Type - num
56 Clutch	Clutch type
57 Hydraulic pressure	For attachm
58 Noise level	Overhead g

The tabulated figures refer to VDI 2198. Blar
 1) Refers to FLT with sideshift and fork posit
 2) Option 32-42 TD 121 G alt. TWD 1030 M
 3) Average value at operator's ear level, acc

		28-1200		32-1200		37-1200		42-1200		45-1200		52-1200		
		Std	LB	Std	LB	Std	CS	Std	CS	Std	CS	Std	CS	
	kg	28 000		32 000		37 000		42 000		45 000		52 000		
L4	mm	1 200		1 200		1 200		1 200		1 200		1 200		
		Diesel engine		Diesel engine		Diesel engine		Diesel engine		Diesel engine		Diesel engine		
		Steering wheel in the cab		Steering wheel in the cab		Steering wheel in the cab		Steering wheel in the cab		Steering wheel in the cab		steering wheel in the cab		
		Pneumatic		Pneumatic		Pneumatic		Pneumatic		Pneumatic		Pneumatic		
IV/rear	* = driven	4*2		4*2		4*2		4*2		4*2		4*2		
	H4	mm	5 000	5 000	5 000	5 000	5 000	5 000	5 000	5 000	5 000	5 000	5 000	
	H2	mm												
	H2	mm												
	H1	mm	110	110	110	110	135	135	135	135	135	145	145	
	B1	mm	300	300	300	300	300	300	300	300	300	300	300	
	L1	mm	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	
	1) V	mm	1 550	1 550	1 550	1 550	1 950	1 950	1 950	1 950	1 950	1 900	1 900	
	1) V	mm	2 750	2 750	2 750	2 750	2 750	2 750	2 750	2 750	2 750	2 700	2 700	
	1) V1	mm	300 (when V = 2150)		300 (when V = 2150)		200 (when V = 2350)		200 (when V = 2350)		200 (when V = 2350)		200 (when V = 2300)	
wards	αβ	°	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	
forks	L	mm	6 675	6 675	6 925	6 925	7 345	7 345	7 845	7 845	7 845	7 845	8 930	8 930
	B	mm	3 410	3 410	3 410	3 410	3 750	3 750	3 750	3 750	4 450	4 450	4 400	4 400
min	H3	mm	4 520	4 520	4 520	4 520	5 070	5 070	5 070	5 070	5 070	5 620	5 620	
max	H5	mm	7 020	7 020	7 020	7 020	7 570	7 570	7 570	7 570	7 570	8 120	8 120	
	H6	mm	3 650	3 400	3 650	3 400	3 700	4 400	3 700	4 400	3 700	4 400	3 850	4 550
	H7	mm	2 300	2 300	2 300	2 300	2 350	3 350	2 350	3 350	2 350	3 350	2 500	3 500
	R1	mm	6 350	6 350	6 600	6 600	6 900	6 900	7 400	7 400	7 400	7 400	9 000	9 000
	R2	mm	750	750	950	950	1 000	1 000	1 100	1 100	900	900	1 900	1 900
	L2	mm	1 125	1 125	1 125	1 125	1 295	1 295	1 295	1 295	1 295	1 295	1 380	1 380
safety margin	A1	mm	10 075	10 075	10 325	10 325	10 795	10 795	11 295	11 295	11 295	11 295	12 980	12 980
	Yes/No	V1	Yes (standard mast)		Yes (standard mast)		Yes (standard mast)		Yes (standard mast)		Yes (standard mast)		Yes (standard mast)	
nd R	unladen/laden	km/h	25/23	25/23	25/22	25/22	25/22	25/22	25/22	25/22	25/22	20/20	20/20	
	unladen/laden	m/s	0,30/0,24	0,30/0,24	0,30/0,22	0,30/0,22	0,28/0,20	0,28/0,20	0,28/0,20	0,28/0,20	0,28/0,20	0,13/0,18	0,13/0,18	
	unladen/laden	m/s	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,30/0,40	0,25/0,18	0,25/0,18	
	laden	kN	185	185	185	185	300	300	300	300	300	350	350	
h	laden	%	20	20	18	18	21	21	20	20	18	19	19	
1	laden	%	27	27	24	24	34	34	32	32	30	33	33	
5 m	unladen/laden	S												
		kg	37 700	37 700	39 200	39 200	49 000	49 500	48 500	48 500	50 700	50 700	59 500	59 500
	front	kg	19 000	19 000	19 000	19 000	23 700	23 700	24 000	24 000	24 500	24 500	32 500	32 500
	front	kg	61 500	61 500	66 700	66 700	79 200	79 200	85 100	85 100	89 900	89 900	105 100	105 100
	rear	kg	18 700	18 700	20 200	20 200	23 800	23 800	24 500	24 500	26 200	26 200	27 000	27 000
	rear	kg	4 200	4 200	4 500	4 500	5 300	5 300	5 400	5 400	5 800	5 800	6 400	6 400
	front/rear	st	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2	
	front	inch	16,00x25	16,00x25	16,00x25	16,00x25	18,00x25	18,00x25	18,00x25	18,00x25	23,5x25	23,5x25	23,5x25	23,5x25
	rear	inch	16,00x25	16,00x25	16,00x25	16,00x25	18,00x25	18,00x25	18,00x25	18,00x25	18,00x25	18,00x25	18,00x25	18,00x25
	L3	mm	4 500	4 500	4 750	4 750	5 000	5 000	5 500	5 500	5 500	5 500	6 500	6 500
res	driven wheels	mm	2 438	2 438	2 438	2 438	2 654	3 030	3 030	3 030	3 030	3 030	3 030	
st		mm	300	300	300	300	300	300	300	300	300	300	300	
ce between axles		mm	475	475	475	475	475	475	475	475	475	490	490	
heels			Hydraulic/driven wheels		Hydraulic/driven wheels		Hydraulic/driven wheels		Hydraulic/driven wheels		Hydraulic/driven wheels		Hydraulic/driven wheels	
heels			Spring brake/driven wheels		Spring brake/driven wheels		Spring brake/driven wheels		Spring brake/driven wheels		Spring brake/driven wheels		Spring brake/driven wheels	
			Hydraulic servo assisted		Hydraulic servo assisted		Hydraulic servo assisted		Hydraulic servo assisted		Hydraulic servo assisted		Hydraulic servo assisted	
- type			Volvo - TWD 730 ME		Volvo - TWD 730 ME ²)		Volvo - TD 100 G ²)		Volvo - TD 100 G ²)		Volvo - TD 100 G ²)		Volvo - TD 121 G	
046/2534	kW(hk)		166(172) - 226(234)		166(172) - 226(234)		182(203) - 247(276)		182(203) - 247(276)		182(203) - 247(276)		231(256) - 314(348)	
	l/min		2 200		2 200		2 200		2 200		2 200		2 200	
at engine speed	Nm-1/m		960-1400		960-1400		1057-1400		1057-1400		1057-1400		1310-1400	
ders - swept volume	(cm3)		6 - 6 730		6 - 6 730		6 - 9 600		6 - 9 600		6 - 9 600		6 - 11 980	
ratio			17,7:1		17,7:1		14,3:1		14,3:1		14,3:1		14,2:1	
otion	l/h		13		13		20		20		20		25	
	W		AC - 1 540		AC - 1 540		AC - 1 540		AC - 1 540		AC - 1 540		AC - 1 540	
acity	V - Ah		2x12 - 135		2x12 - 135		2x12 - 135		2x12 - 135		2x12 - 135		2x12 - 135	
			Rockwell diff. axle with hub red.		Rockwell diff. axle with hub red.		Rockwell diff. axle with hub red.		Rockwell diff. axle with hub red.		Rockwell diff. axle with hub red.		Rockwell diff. axle with hub red.	
of gears forw/rev.			Clark powershift - 3/3		Clark powershift - 3/3		Clark powershift - 4/4		Clark powershift - 4/4		Clark powershift - 4/4		Allison CRT 5633 - 3/3	
			Torque converter		Torque converter		Torque converter		Torque converter		Torque converter		Torque converter	
nts	Bar		185	185	165	165	150	150	170	170	180	180	120	120
rd/cab	3) dB(A)		72	72	72	72	74	74	74	74	74	74	74	74

lines are intended for particulars to DIN standards. The table refers to a truck with standard equipment.
ning carriage

ding to DIN 45635.

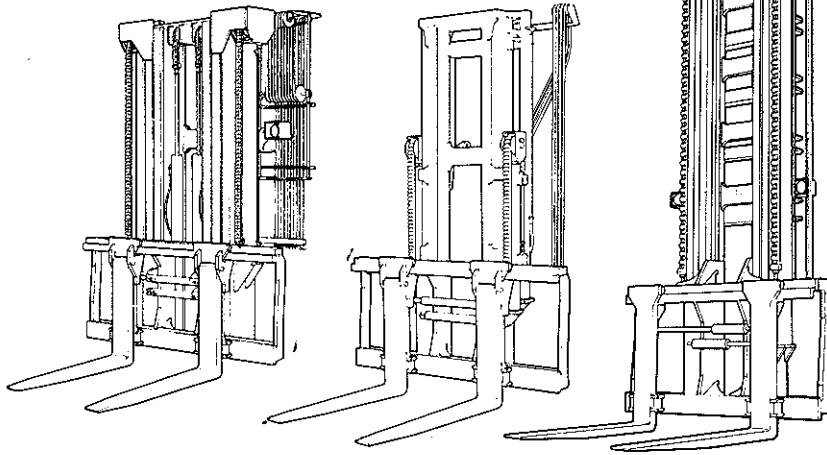
LIFTING CAPACITIES (TONNES)

54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16

Masts

Kalmar LMV mast profiles are made of high strength steel and are of slender size to minimize obstruction of the driver's field of vision. They are available in duplex or triplex designs, with or without free lift. Due to the wide range of available masts, the truck can be easily adapted to widely

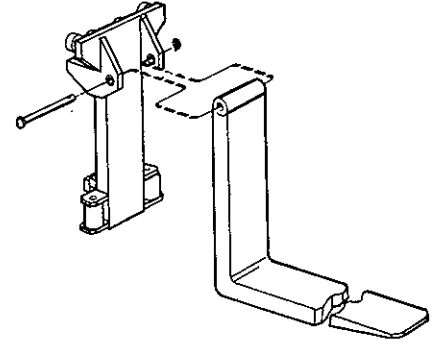
varying tasks. Kalmar LMV has for many years been a leader in improving visibility. All masts are designed to provide clear forward visibility. Lifting cylinders, hoses and chains are, as far as is possible, located in concealed angles of the mast.



Fork carriages

The forklift carriages are designed for improved visibility with a greater distance between the horizontal beams and slender sides. The majority of fork carriages are supplied with roller type fork attachments coupled to hydraulic cylinders for hydraulically operated side-shift and fork spreading.

To facilitate replacement of forks and additional units like inverted forks a "fork shift system" is available where each fork is fitted on separate fork retainers.



Mast	Lift height mm H4	28-1200-32-1200						37-1200-45-1200						52-1200	
		Mast height						Mast height						Mast height	
		Std		LB		Std		CS		Std					
Free lift H2 mm	Min. H3 mm	Max. H5 mm	Free lift H2 mm	Min. H3 mm	Max. H5 mm	Free lift H2 mm	Min. H3 mm	Max. H5 mm	Free lift H2 mm	Min. H3 mm	Max. H5 mm	Min. H3 mm	Max. H5 mm		
Duplex standard	4500	-	4270	6520	-	4270	6520	-	4820	7070	-	-	-	5370	7620
	5000	-	4520	7020	-	4520	7020	-	5070	7570	-	5070	7570	5620	8120
	5500	-	4770	7520	-	4770	7520	-	5320	8070	-	5320	8070	5870	8620
	6000	-	5020	8020	-	5020	8020	-	5570	8570	-	5570	8570	6120	9120
	6500	-	5270	8520	-	5270	8520	-	5820	9070	-	5820	9070	6370	9620
	7000	-	5520	9020	-	-	-	-	6070	9570	-	6070	9570	6620	10120
	7500	-	5770	9520	-	-	-	-	6320	10070	-	6320	10070	6870	10620
	8000	-	6020	10020	-	-	-	-	6570	10570	-	6570	10570	7120	11120
	8500	-	6270	10520	-	-	-	-	6820	11070	-	6820	11070	7370	11620
	9000	-	6520	11020	-	-	-	-	7070	11570	-	7070	11570	7620	12120
9500	-	6770	11520	-	-	-	-	7320	12070	-	7320	12070	7870	12620	
10000	-	7020	12020	-	-	-	-	7570	12570	-	7570	12570	8120	13120	
Duplex free lift	3500	-	-	-	1750	3770	5520	-	-	-	-	-	-	-	-
	3700	1850	3870	5720	-	-	-	-	-	-	-	-	-	-	-
	4000	2000	4020	6020	2000	4020	6020	2000	4570	6570	2000	4570	6570	-	-
	4500	2250	4270	6520	2250	4270	6520	2250	4820	7070	2250	4820	7070	-	-
	5000	2500	4520	7020	2500	4520	7020	2500	5070	7570	2500	5070	7570	-	-
	5500	2750	4770	7520	2750	4770	7520	2750	5320	8070	2750	5320	8070	-	-
	6000	3000	5020	8020	3000	5020	8020	3000	5570	8570	3000	5570	8570	-	-
	6500	3250	5270	8520	3250	5270	8520	3250	5820	9070	3250	5820	9070	-	-
	7000	3500	5520	9020	-	-	-	3500	6070	9570	3500	6070	9570	-	-
	7500	3750	5770	9520	-	-	-	3750	6320	10070	3750	6320	10070	-	-
8000	4000	6020	10020	-	-	-	4000	6570	10570	-	-	-	-	-	
8500	4250	6270	10520	-	-	-	4250	6820	11070	-	-	-	-	-	
9000	4500	6520	11020	-	-	-	4500	7070	11570	-	-	-	-	-	
9500	4750	6770	11520	-	-	-	4750	7320	12070	-	-	-	-	-	
10000	-	-	-	-	-	-	5000	7570	12570	-	-	-	-	-	
Triplex free lift	4650	-	-	-	-	-	-	1650	4025	7005	-	-	-	-	-
	5000	1745	3870	7125	-	-	-	-	-	-	-	-	-	-	-
	5500	1910	4035	7625	-	-	-	-	-	-	-	-	-	-	-
	6000	2080	4200	8125	-	-	-	-	-	-	-	-	-	-	-
	6450	-	-	-	-	-	-	2250	4625	8825	-	-	-	-	-
	6500	2250	4365	8615	-	-	-	-	-	-	-	-	-	-	-
	7000	2410	4530	9120	-	-	-	-	-	-	-	-	-	-	-
	7050	-	-	-	-	-	-	2450	4825	9425	2450	4825	9425	-	-
	7500	2580	4695	9615	-	-	-	-	-	-	-	-	-	-	-
	8000	2750	4860	10110	-	-	-	-	-	-	-	-	-	-	-
	8500	2900	5025	10625	-	-	-	-	-	-	-	-	-	-	-
	8575	-	-	-	-	-	-	2925	5300	10950	2925	5300	10950	-	-
	9000	3090	5190	11100	-	-	-	3100	5475	11375	3100	5475	11375	-	-
	9500	3250	5355	11605	-	-	-	-	-	-	-	-	-	-	-
9900	-	-	-	-	-	-	3400	5775	12275	3400	5775	12275	-	-	
10000	3350	5520	12170	-	-	-	-	-	-	-	-	-	-	-	

NB! All dimensions may vary depending on tyres fitted. The dimensions tabulated above are for trucks fitted with tyres according to Kalmar LMV standards. Lift heights other than those tabulated above are available on request.