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Manual # 99904612

17/117

Technical Specifications

Revised 08-04-2017

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17/117SL Technical Specifications

Section - 1

17/117SL Specifications

Performance	Unit	K1	K2	K3	K4	K5	K6
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	ft-lb	122709	119100	116213	113325	110438	108273
Hydraulic reach	ft	20'7"	27'6"	34'5"	41'11"	49'2"	56'8"
Hydraulic telescopic movement	ft	75	155	237	324	409	495
Lifting capacity, hydraulic	lb-ft	8730 - 14'1"	8420 - 14'1"	8065 - 14'5"	7715 - 14'9"	7405 - 15'1"	7140 - 15'1"
		6040 - 20'4"	5750 - 20'7"	5420 - 20'8"	5135-20'11"	4870 - 21'4"	4630 - 21'8"
			4340 - 27'2"	4035 - 27'3"	3745 - 27'7"	3505 - 27'10"	3285 - 28'3"
				3195 - 34'1"	2910 - 34'5"	2665 - 34'9"	2470 - 35'1"
					2380 - 41'8"	2140 - 41'11"	1940 - 42'2"
						1805 - 48'10"	1610 - 49'3"
							1390 - 56'5"
Lifting capacity, manual extensions	lb-ft		3263 - 34'1"	2447 - 41'8"	1819 - 49'6"	1367 - 56'5"	992 - 64'4"
	°		2535 - 41'4"	1874 - 49'3"	1367 - 57'1"	992 - 64'4"	
	°		1874 - 49'2"	1455 - 56'9"	992 - 64'8"		
Slewing torque, gross	°/s	12981	12981	12981	12981	12981	12981
Slewing angle	°	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24

Dimensions	Unit	K1	K2	K3	K4	K5	K6
Height above chassis	in	88	88	88	88	88	88
Width	in	98	98	98	98	98	98
Length, no extra valves	in	32	32	32	32	32	32
Length, with extra valves (hose guides)	in	37	37	37	37	37	37
Length, with extra valves (int. hose routing)	in	32	32	32	32	32	32
Stabilizer spread, S1 (standard)	ft	15'1"	15'1"	15'1"	15'1"	15'1"	15'1"
Stabilizer spread, S2	ft	18'4"	18'4"	18'4"	18'4"	18'4"	18'4"
Stabilizer spread, D	ft	21'2"	21'2"	21'2"	21'2"	21'2"	21'2"

17/117SL Specifications - Continued

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	lbs	3020	3329	3638	3935	4200	4409
Stabilizers, S1 fixed	lbs	441	441	441	441	441	441
Stabilizers, S1 swing-up	lbs	452	452	452	452	452	452
Stabilizers, S1 hydr. swing-up	lbs	474	474	474	474	474	474
Stabilizers, S2 fixed	lbs	518	518	518	518	518	518
Stabilizers, S2 swing-up	lbs	529	529	529	529	529	529
Stabilizers, S2 hydr. swing-up	lbs	551	551	551	551	551	551
Stabilizers, D fixed	lbs	661	661	661	661	661	661
Stabilizers, D swing-up	lbs	661	661	661	661	661	661
Stabilizers, D hydr. swing-up	lbs	694	694	694	694	694	694
Mounting kit, 4 bolts	lbs	121	121	121	121	121	121
Mounting kit, 8 bolts	lbs	132	132	132	132	132	132
Tank, excl. oil (fitted on loader)	lbs	99	99	99	99	99	99
Manual extensions	lbs		187	165	143	99	88
	lbs		165	143	99	88	
	lbs		143	99	88		
Oil in loader (stowing position)	lbs	66	77	88	99	110	110

1) Weights $\pm$ 5% because of tolerances for plate thickness

Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	lbs	132	132	132	132	132	132
Stand-up controls (HS), direct valve control	lbs	154	154	154	154	154	154
Top seat (TS)	lbs	198	198	198	198	198	198
Top seat, ladder	lbs	44	44	44	44	44	44
1 extra valve, hose guides	lbs	88	121	143	165	187	209
1 extra valve, int. hose routing	lbs	165	165	165	176	176	187
2 extra valves, hose guides	lbs	132	165	198	231	265	298
2 extra valves, int. hose routing	lbs	287	287	287	309	320	331
Winch (1.5 t), single snatch block	lbs	386	386	386	386	386	397
Winch (1.5 t), double snatch block	lbs	375	375	375	375	375	386
Winch (2.5 t), single snatch block	lbs	441	441	441	441	441	452
Winch (2.5 t), double snatch block	lbs	430	430	430	430	430	441
High-pressure filter	lbs	15	15	15	15	15	15
Oil cooler	lbs	55	55	55	55	55	55

17/117SL Specifications - Continued

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	Lbf	19	19	19	19	19	19
S1, swing-up	Lbf	19	19	19	19	19	19
S1, hydr. swing-up	Lbf	19	19	19	19	19	19
S2, fixed	Lbf	19	19	19	19	19	19
S2, swing-up	Lbf	19	19	19	19	19	19
S2, hydr. swing-up	Lbf	19	19	19	19	19	19
D, fixed	Lbf	15	15	15	15	15	15
D, swing-up	Lbf	15	15	15	15	15	15
D, hydr. swing-up	Lbf	15	15	15	15	15	15

Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	PSI	5003	5003	5003	5003	5003	5003
Tank capacity (fitted on loader)	gal	23	23	23	23	23	23
Max. pump performance, Hydrocontrol, 1-circuit	gpm	13	13	13	13	13	13
Max. pump performance, Hydrocontrol, 2-circuit	gpm	-	-	-	-	-	-
Max. pump performance, Danfoss fixed flow	gpm	18	18	18	18	18	18
Max. pump performance, Danfoss variable	gpm	26	26	26	26	26	26

Minimum Chassis Specs	
Front Axle Rating (GAWR)	12,000 lbs (5450 kg)
Rear Axle Rating (GAWR)	21,000 lbs (9530 kg)
Resistance to Bending Moment	1,755,000 in-lb (242,640 kg-m)

17/117SL Metric Specifications

Performance	Unit	K1	K2	K3	K4	K5	K6
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	tm	17	16.5	16.1	15.7	15.3	15
Hydraulic reach	m	6.3	8.4	10.5	12.8	15	17.3
Hydraulic telescopic movement	mm	1930	3940	6040	8230	10390	12580
Lifting capacity, hydraulic	kg-m	3960 - 4.3	3820 - 4.3	3660 - 4.4	3500 - 4.5	3360 - 4.6	3240 - 4.6
		2740 - 6.2	2610 - 6.3	2460 - 6.3	2330 - 6.4	2210 - 6.5	2100 - 6.6
			1970 - 8.3	1830 - 8.3	1700 - 8.4	1590 - 8.5	1490 - 8.6
				1450 - 10.4	1320 - 10.5	1210 - 10.6	1120 - 10.7
					1080 - 12.7	970 - 12.8	880 - 12.9
						820 - 14.9	730 - 15.0
							630 - 17.2
Lifting capacity, manual extensions	kg-m		1480 - 10.4	1110 - 12.7	825 - 15.0	620 - 17.2	450 - 19.6
			1150 - 12.6	850 - 15.0	620 - 17.4	450 - 19.6	
			850 - 15.0	660 - 17.3	450 - 19.7		
Slewing torque, gross	kNm	17.6	17.6	17.6	17.6	17.6	17.6
Slewing angle	°	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24

Dimensions	Unit	K1	K2	K3	K4	K5	K6
Height above chassis	mm	505	505	505	505	505	505
Width	mm	562	562	562	562	562	562
Length, no extra valves	mm	185	185	185	185	185	185
Length, with extra valves (hose guides)	mm	213	213	213	213	213	213
Length, with extra valves (int. hose routing)	mm	185	185	185	185	185	185
Stabilizer spread, S1 (standard)	mm	1037	1037	1037	1037	1037	1037
Stabilizer spread, S2	mm	1256	1256	1256	1256	1256	1256
Stabilizer spread, D	mm	1454	1454	1454	1454	1454	1454

17/117SL Metric Specifications - Continued

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	kg	1370	1510	1650	1785	1905	2000
Stabilizers, S1 fixed	kg	200	200	200	200	200	200
Stabilizers, S1 swing-up	kg	205	205	205	205	205	205
Stabilizers, S1 hydr. swing-up	kg	215	215	215	215	215	215
Stabilizers, S2 fixed	kg	235	235	235	235	235	235
Stabilizers, S2 swing-up	kg	240	240	240	240	240	240
Stabilizers, S2 hydr. swing-up	kg	250	250	250	250	250	250
Stabilizers, D fixed	kg	300	300	300	300	300	300
Stabilizers, D swing-up	kg	300	300	300	300	300	300
Stabilizers, D hydr. swing-up	kg	315	315	315	315	315	315
Mounting kit, 4 bolts	kg	55	55	55	55	55	55
Mounting kit, 8 bolts	kg	60	60	60	60	60	60
Tank, excl. oil (fitted on loader)	kg	45	45	45	45	45	45
Manual extensions	kg		85	75	65	45	40
	kg		75	65	45	40	
	kg		65	45	40		
Oil in loader (stowing position)	kg	30	35	40	45	50	50

1) Weights $\pm$ 5% because of tolerances for plate thickness

Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	kg	60	60	60	60	60	60
Stand-up controls (HS), direct valve control	kg	70	70	70	70	70	70
Top seat (TS)	kg	90	90	90	90	90	90
Top seat, ladder	kg	20	20	20	20	20	20
1 extra valve, hose guides	kg	40	55	65	75	85	95
1 extra valve, int. hose routing	kg	75	75	75	80	80	85
2 extra valves, hose guides	kg	60	75	90	105	120	135
2 extra valves, int. hose routing	kg	130	130	130	140	145	150
Winch (1.5 t), single snatch block	kg	175	175	175	175	175	180
Winch (1.5 t), double snatch block	kg	170	170	170	170	170	175
Winch (2.5 t), single snatch block	kg	200	200	200	200	200	205
Winch (2.5 t), double snatch block	kg	195	195	195	195	195	200
High-pressure filter	kg	7	7	7	7	7	7
Oil cooler	kg	25	25	25	25	25	25

17/117SL Metric Specifications - Continued

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	kN	85	85	85	85	85	85
S1, swing-up	kN	85	85	85	85	85	85
S1, hydr. swing-up	kN	85	85	85	85	85	85
S2, fixed	kN	85	85	85	85	85	85
S2, swing-up	kN	85	85	85	85	85	85
S2, hydr. swing-up	kN	85	85	85	85	85	85
D, fixed	kN	68	68	68	68	68	68
D, swing-up	kN	68	68	68	68	68	68
D, hydr. swing-up	kN	68	68	68	68	68	68

Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	Bar	345	345	345	345	345	345
Tank capacity (fitted on loader)	L	90	90	90	90	90	90
Max. pump performance, Hydrocontrol, 1-circuit	L/min	50	50	50	50	50	50
Max. pump performance, Hydrocontrol, 2-circuit	L/min	-	-	-	-	-	-
Max. pump performance, Danfoss fixed flow	L/min	70	70	70	70	70	70
Max. pump performance, Danfoss variable	L/min	100	100	100	100	100	100

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17/117SL Load Capacity Charts

Section - 2

17/117SL Lifting Capacity Chart, K1

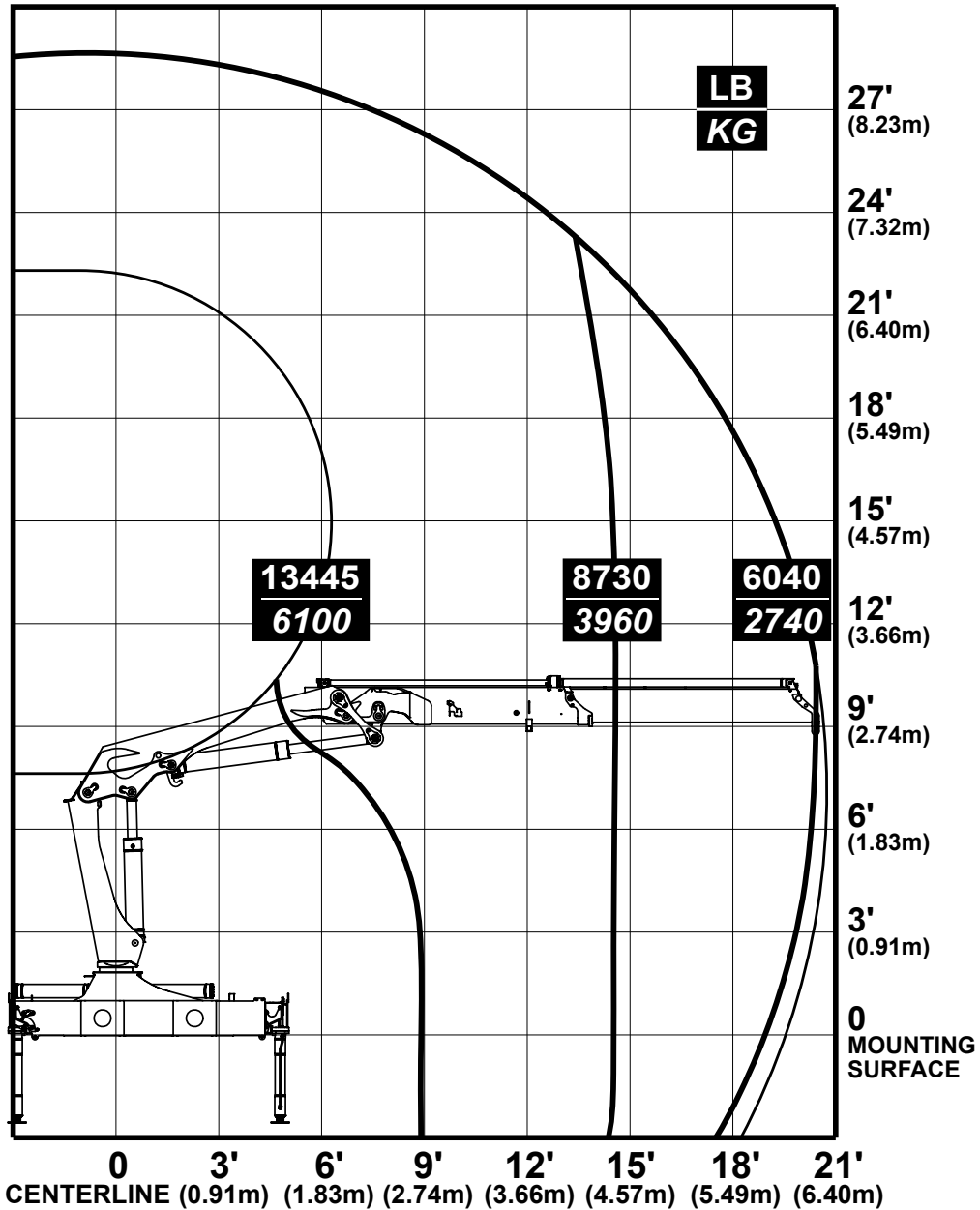
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Model 17/117SL K1

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117SL Lifting Capacity Chart, K2

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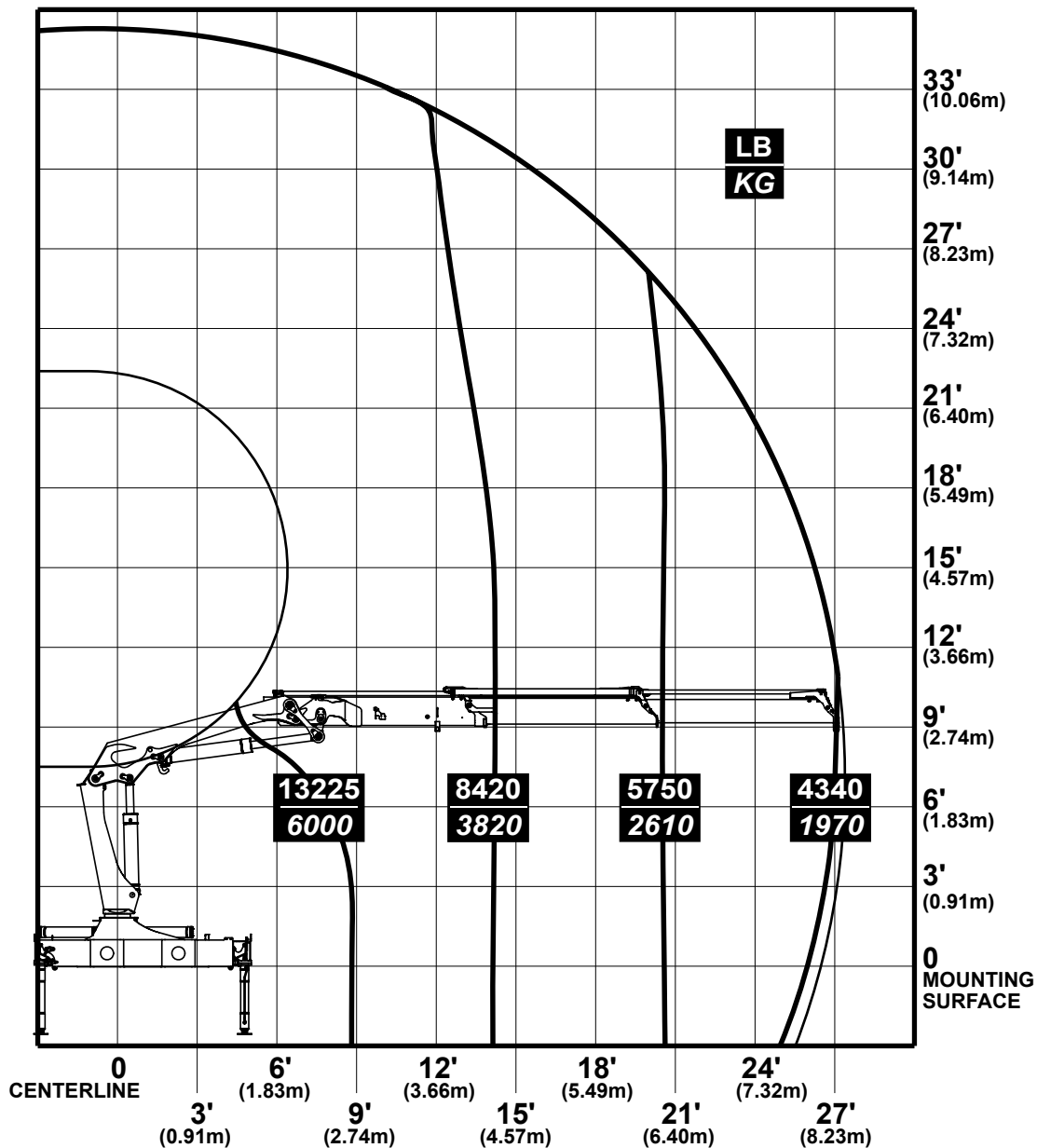
MATERIAL HANDLING SYSTEMS

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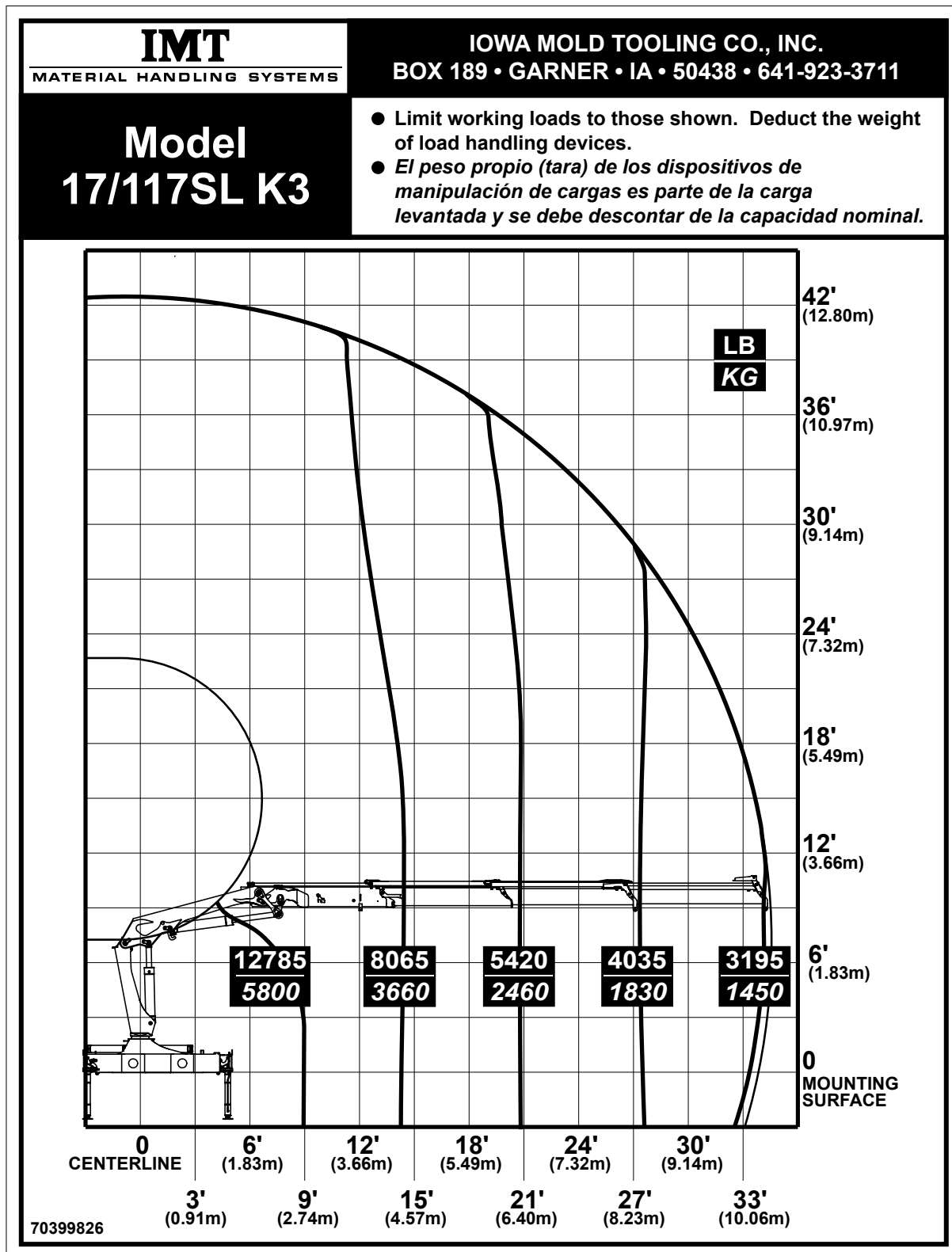
Model 17/117SL K2

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117SL Lifting Capacity Chart, K3



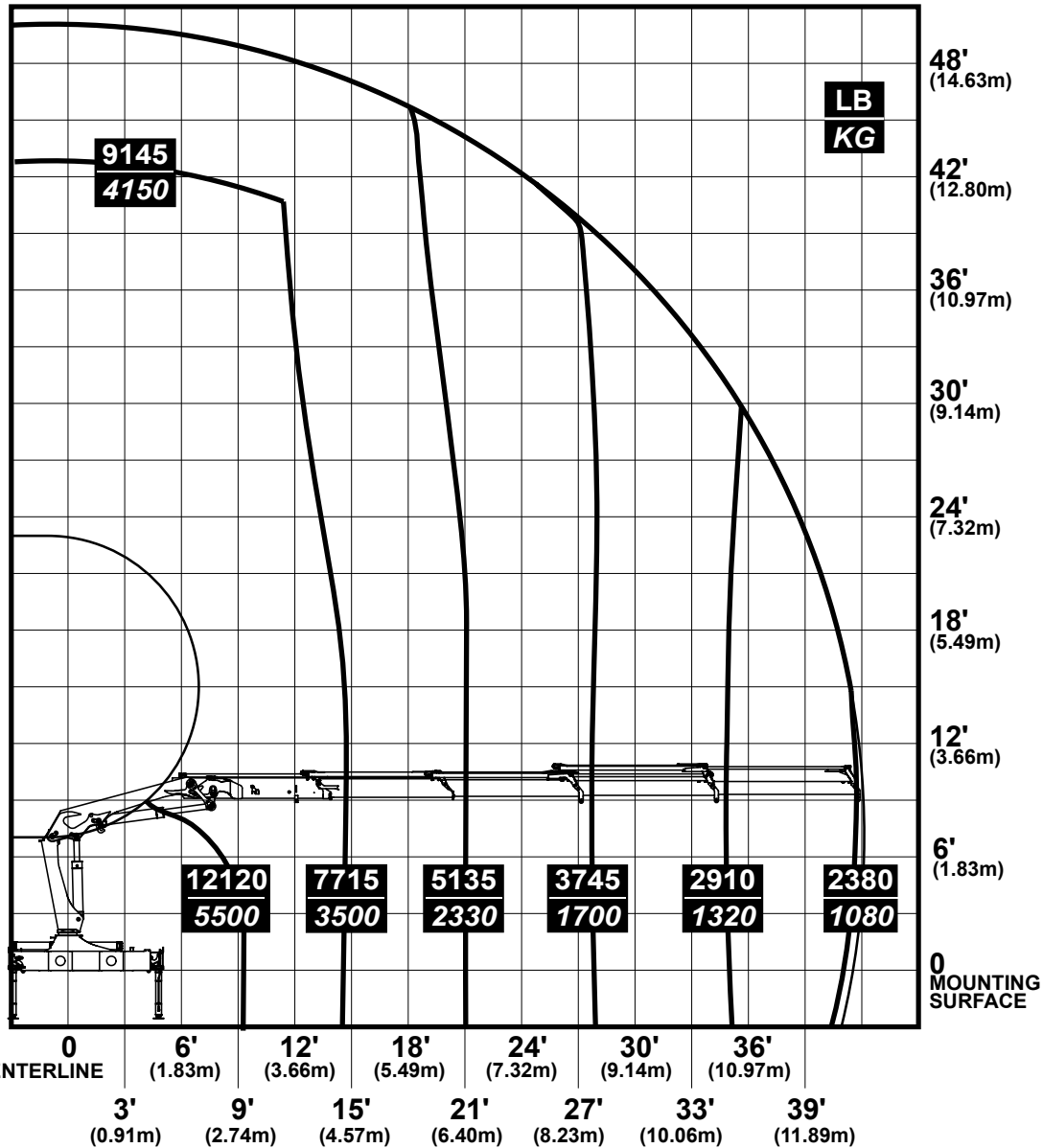
17/117SL Lifting Capacity Chart, K4

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Model 17/117SL K4

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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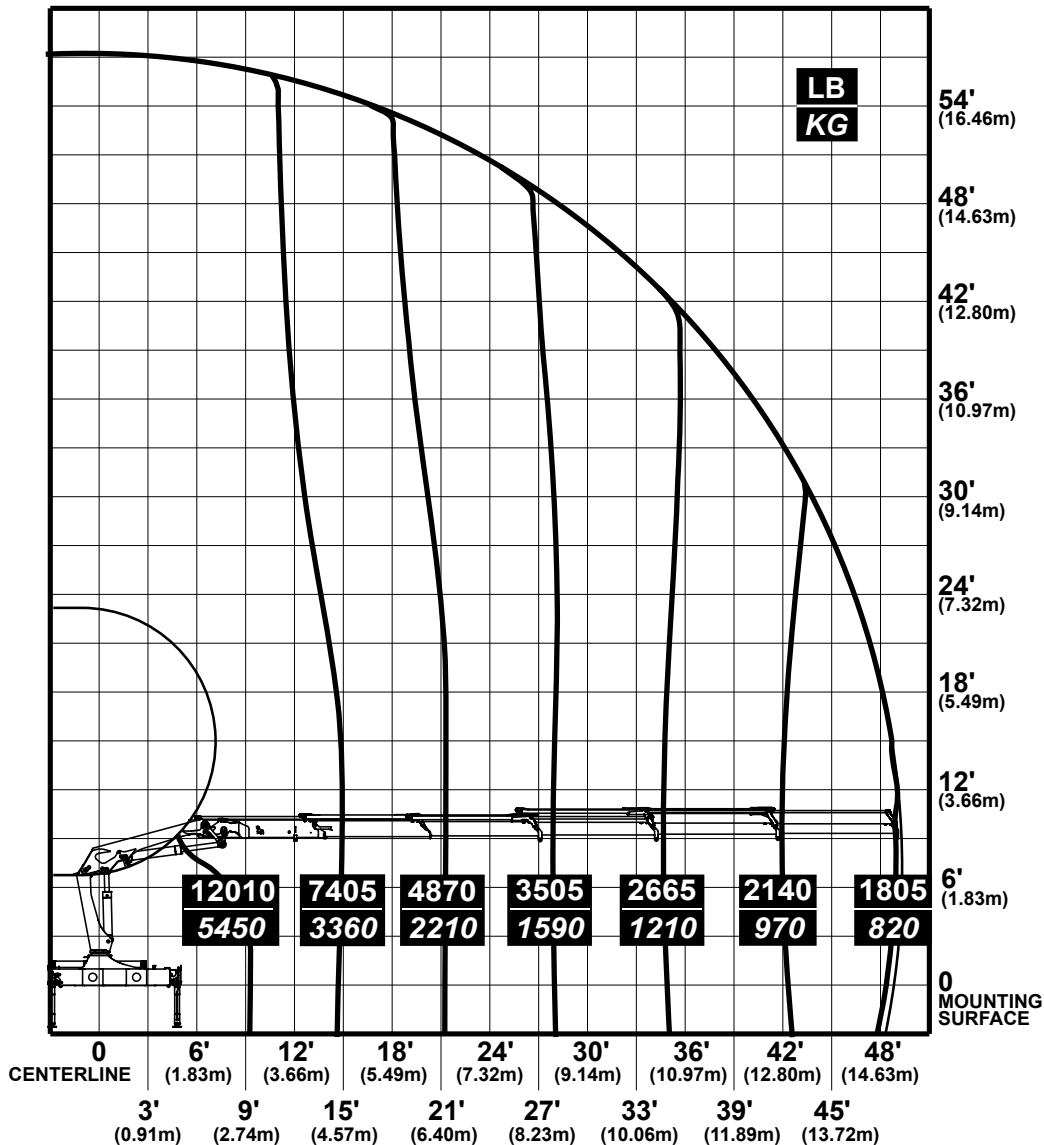
17/117SL Lifting Capacity Chart, K5

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Model 17/117SL K5

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117SL Lifting Capacity Chart, K6

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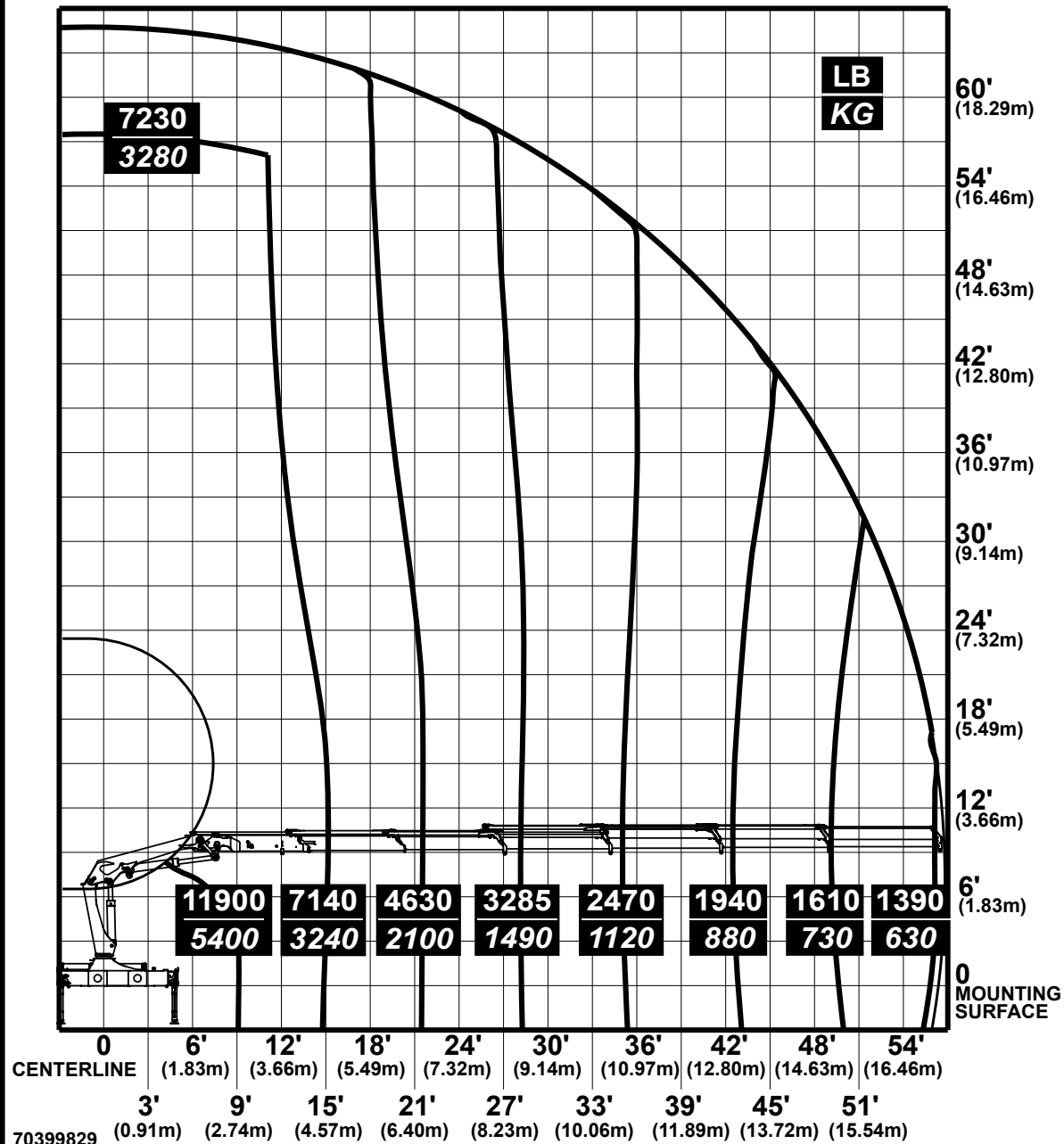
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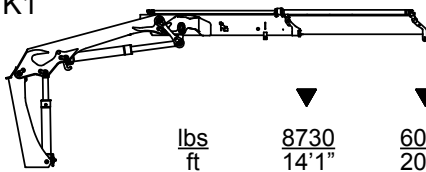
Model 17/117SL K6

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



17/117SL Lifting Capacity Chart

K1



lbs	8730	6040
ft	14'1"	20'4"
kg	3960	2740
m	4.3	6.2

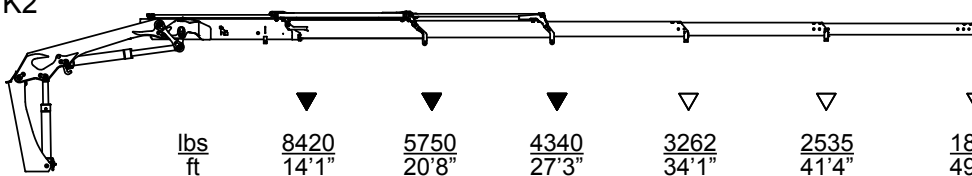


Lifting capacity with manual extensions



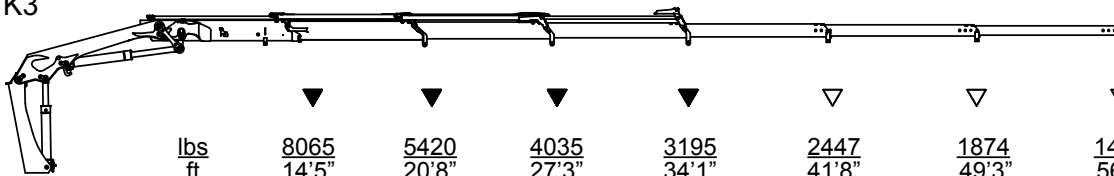
Lifting capacity without manual extensions

K2



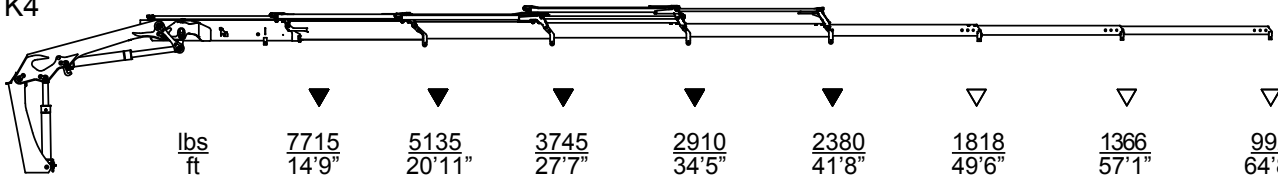
lbs	8420	5750	4340	3262	2535	1874
ft	14'1"	20'8"	27'3"	34'1"	41'4"	49'3"
kg	3820	2610	1970	1480	1150	850
m	4.3	6.3	8.3	10.4	12.6	15.0

K3



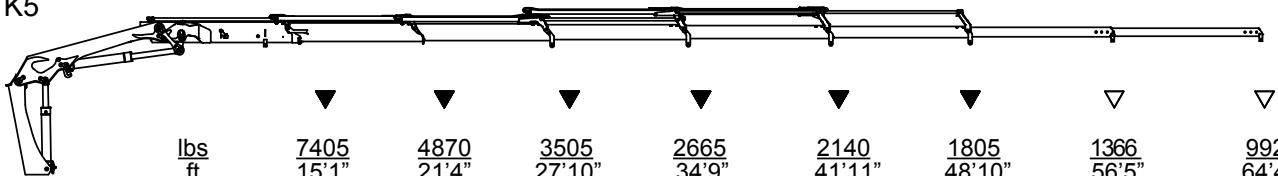
lbs	8065	5420	4035	3195	2447	1874	1455
ft	14'5"	20'8"	27'3"	34'1"	41'8"	49'3"	56'9"
kg	3660	2460	1830	1450	1110	850	660
m	4.4	6.3	8.3	10.4	12.7	15.0	17.3

K4



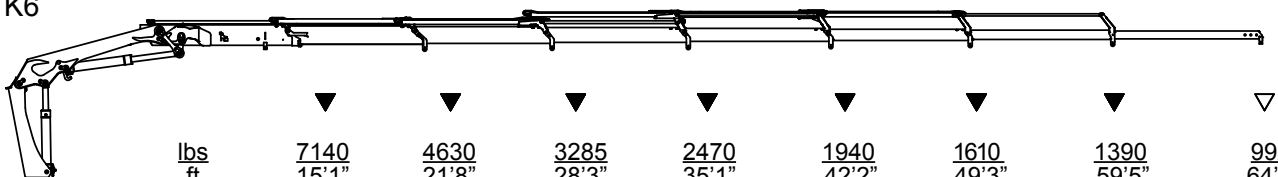
lbs	7715	5135	3745	2910	2380	1818	1366	992
ft	14'9"	20'11"	27'7"	34'5"	41'8"	49'6"	57'1"	64'8"
kg	3500	2330	1700	1320	1080	825	620	450
m	4.5	6.4	8.4	10.5	12.7	15.0	17.4	19.7

K5



lbs	7405	4870	3505	2665	2140	1805	1366	992
ft	15'1"	21'4"	27'10"	34'9"	41'11"	48'10"	56'5"	64'4"
kg	3360	2210	1590	1210	970	820	620	450
m	4.6	6.5	8.5	10.6	12.8	14.9	17.2	19.6

K6



lbs	7140	4630	3285	2470	1940	1610	1390	992
ft	15'1"	21'8"	28'3"	35'1"	42'2"	49'3"	59'5"	64'4"
kg	3240	2100	1490	1120	880	730	630	450
m	4.6	6.6	8.6	10.7	12.9	15.0	17.2	19.6

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17/117SL Hydraulics

Section - 3

17/117SL - Pressure setting diagram, fixed flow pump & Danfoss RC

Working Pressure on Main-Relief Valve & Port- Relief Valves						
Function	Direction	Port	Port-relief valves [bar]	LS-pressure adjustment [bar]	Port-relief valves [PSI]	LS-pressure adjustment [PSI]
Main-relief valve			345		5004	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	350	380	5076	5511
Jib cylinder	Up	A	350	380	5076	5511
	Down	B	250	230	3626	3336
Extension cylinders	Extend	A	P	-	P	-
	Retract	B	P	-	P	-
Rotator	Right	A	P	50-300	P	725-4351
	Left	B	P	50-300	P	725-4351
Grab	Open	A	P	50-300	P	725-4351
	Close	B	P	50-300	P	725-4351
Winch 1,5T	Lift	A	P	160	P	2321
	Lower	B	P	160	P	2321
Winch 2,5T	Lift	A	P	185	P	2683
	Lower	B	P	185	P	2683
Separate stabilizer valve		All	150		2176	

Working Pressure on Load-holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	365	5294
	Down	-	-
Jib cylinder	Up	380	5511
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

Max. pump performance		
Choice of pump	1 x Fixed	1 x Fixed
Pump performance	70 L/min	18.5 gpm

IMT reserves the right to introduce improvements and modifications

17/117SL - Pressure setting diagram, variable flow pump & Danfoss RC

Working Pressure on Main-Relief Valve & Port- Relief Valves						
Function	Direction	Port	Port-relief valves [bar]	LS-pressure adjustment [bar]	Port-relief valves [PSI]	LS-pressure adjustment [PSI]
Main-relief valve			345		5004	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	350	380	5076	5511
Jib cylinder	Up	A	350	380	5076	5511
	Down	B	250	230	3626	3336
Extension cylinders	Extend	A	P	300	P	4351
	Retract	B	P	300	P	4351
Rotator	Right	A	P	50-300	P	725-4351
	Left	B	P	50-300	P	725-4351
Grab	Open	A	P	50-300	P	725-4351
	Close	B	P	50-300	P	725-4351
Winch 1,5T	Lift	A	P	160	P	2321
	Lower	B	P	160	P	2321
Winch 2,5T	Lift	A	P	185	P	2683
	Lower	B	P	185	P	2683
Separate stabilizer valve		All	150		2176	

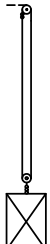
Working Pressure on Load-holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	365	5294
	Down	-	-
Jib cylinder	Up	380	5511
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

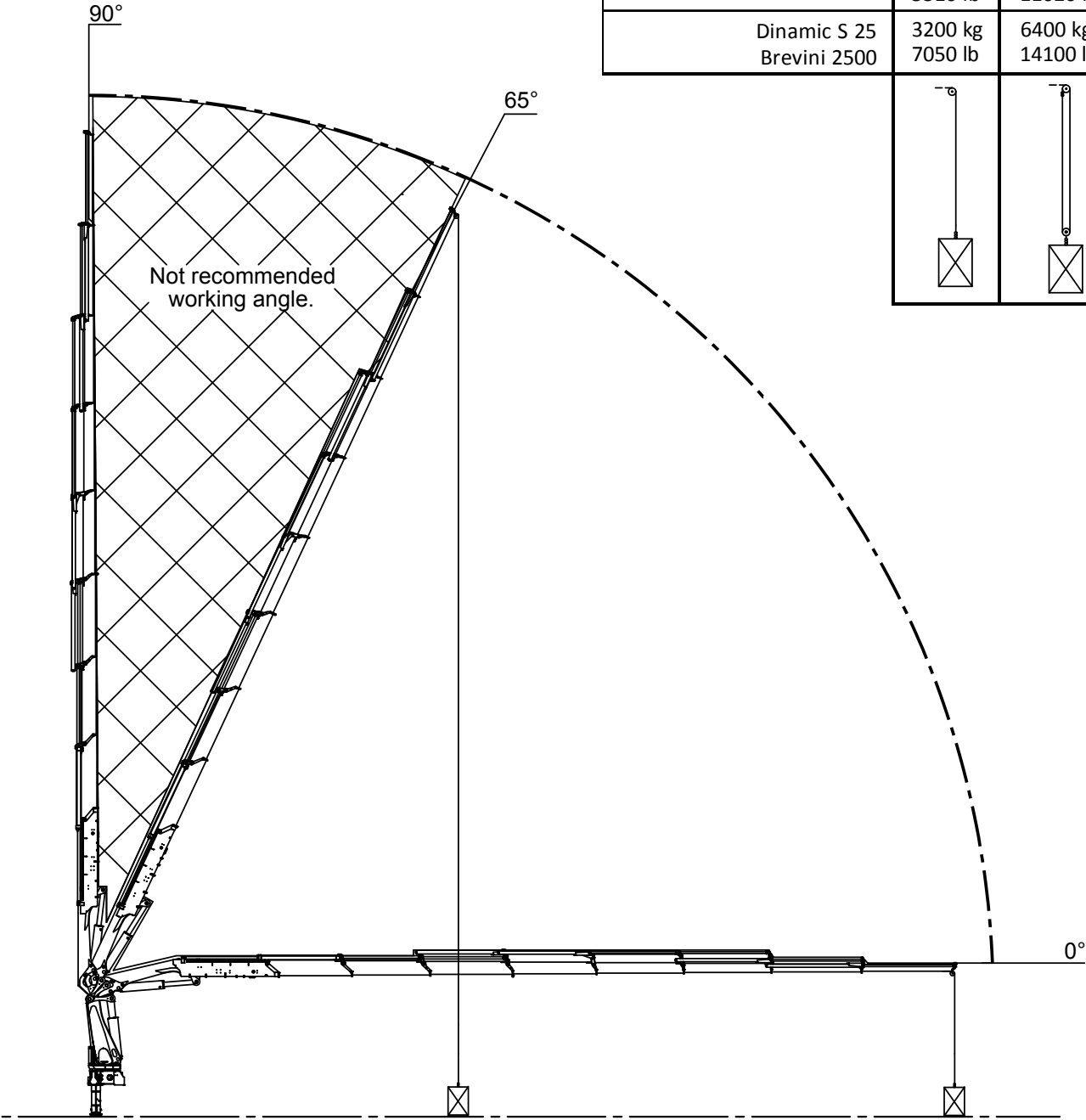
Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

Max. pump performance		
Choice of pump	1 x Variable	1 x Variable
Pump performance	100 L/min	26.4 gpm

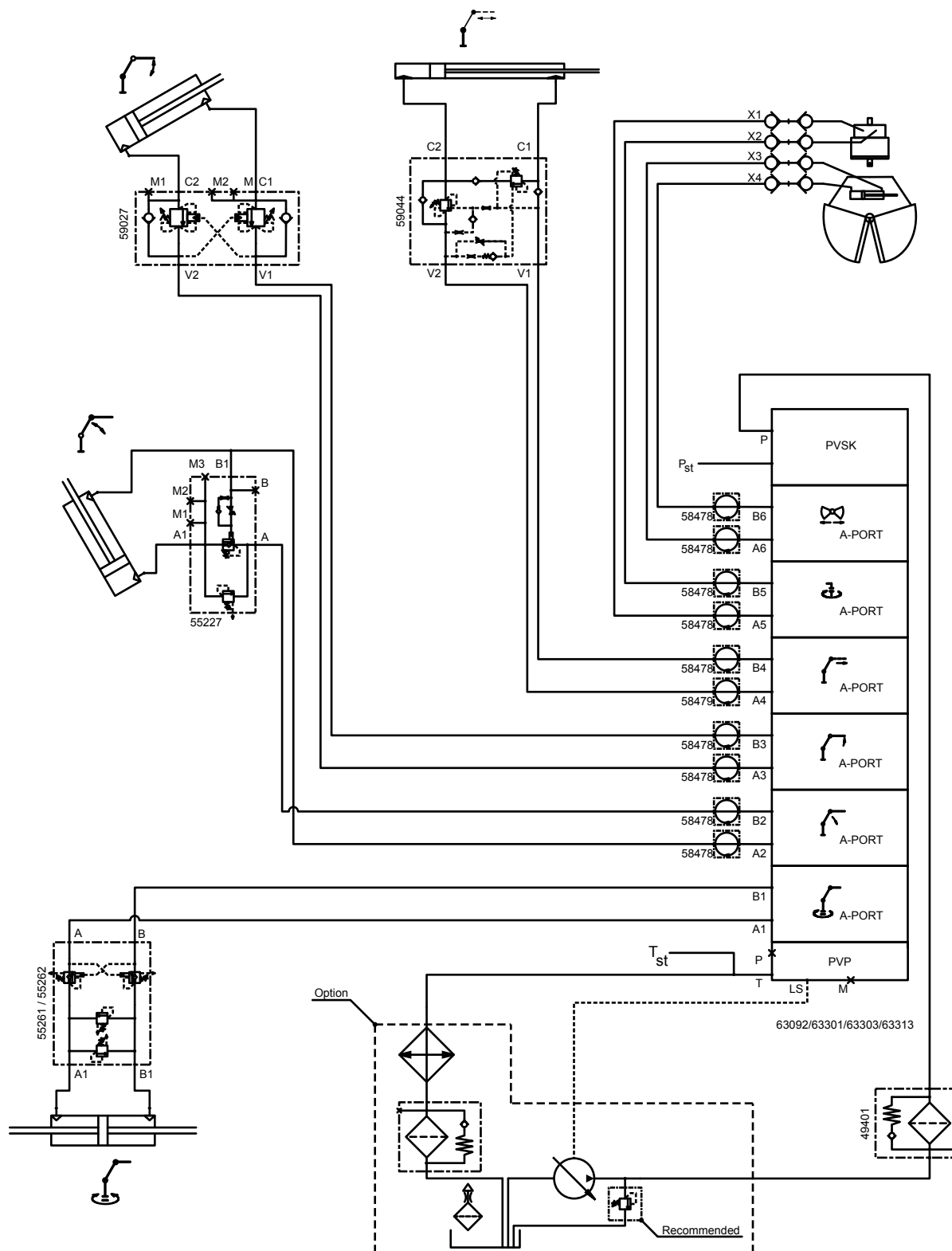
IMT reserves the right to introduce improvements and modifications

Hydraulic Diagram - Danfoss, single-circuit fixed
6 fcts. RC (2 EXV: Grab + Rotator)

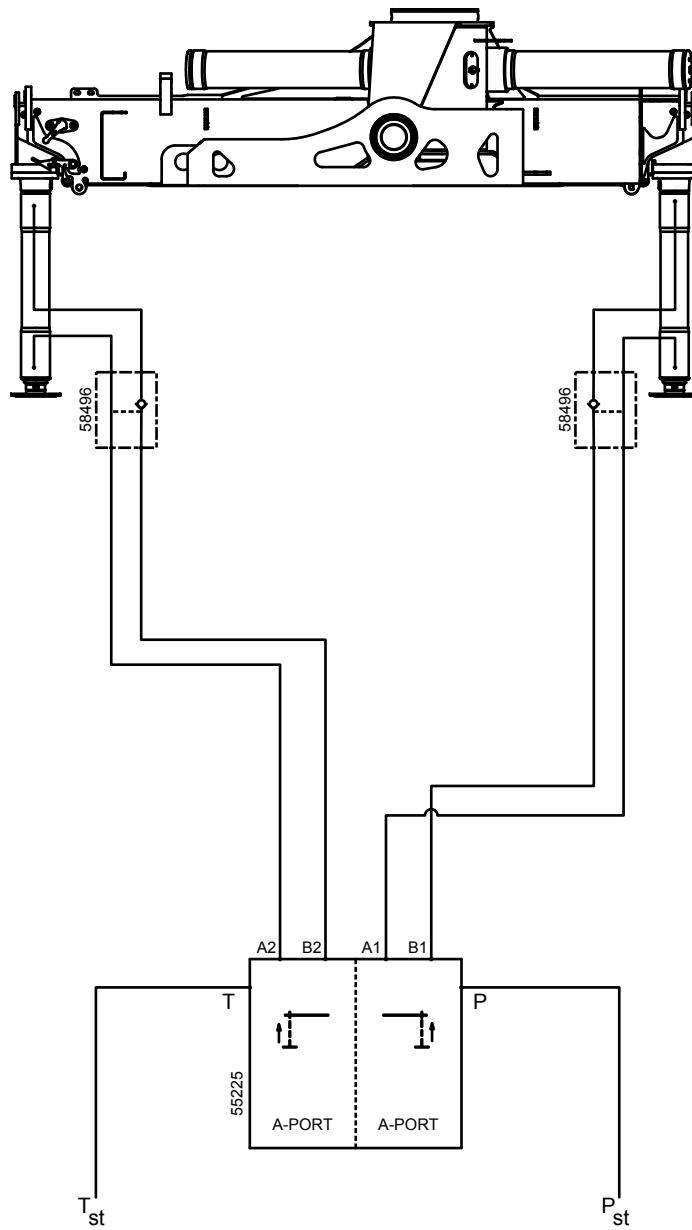
Hydraulic hoist type	MAXW	MAXWD
Dinamic P9E	1500 kg 3305 lb	3000 kg 6610 lb
Dinamic P15E	2500 kg 5510 lb	5000 kg 11020 lb
Dinamic S 25 Brevini 2500	3200 kg 7050 lb	6400 kg 14100 lb
		



Hydraulic Diagram - Danfoss, single-circuit variable 6 fcts. RC (2 EXV: Grab + Rotator)

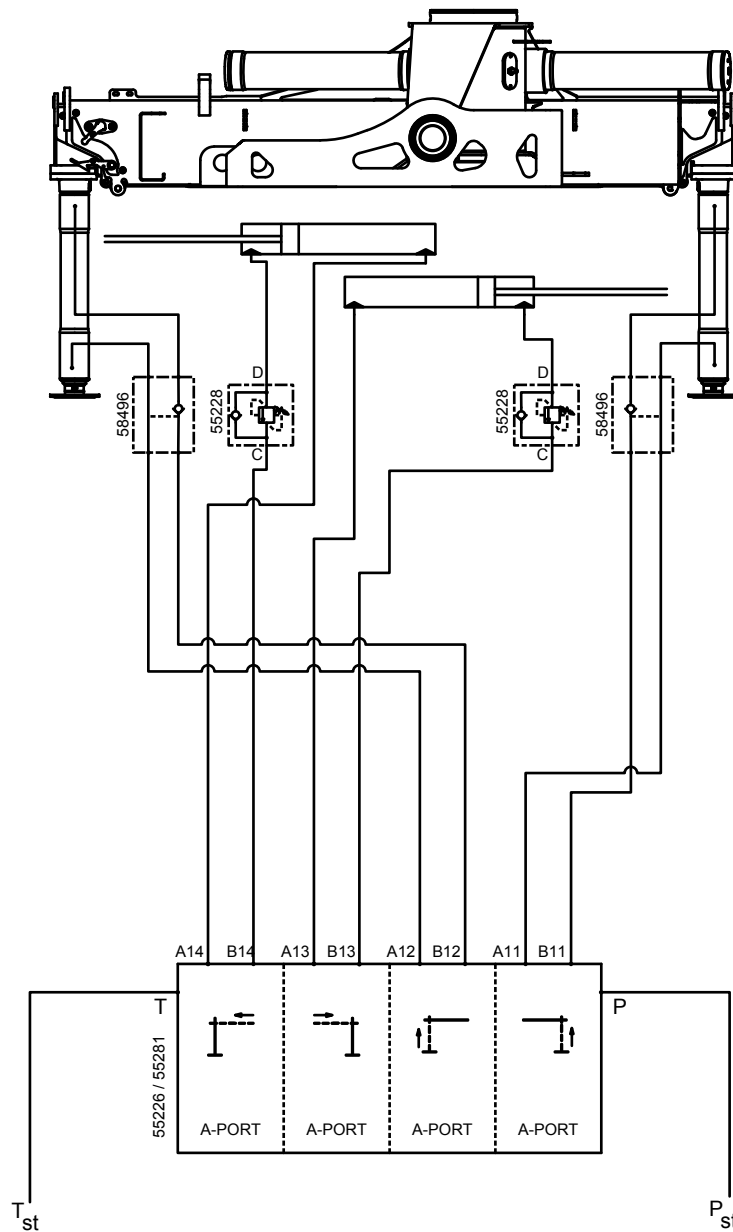


Hydraulic Diagram - Stabilizer circuit – 2 fcts.

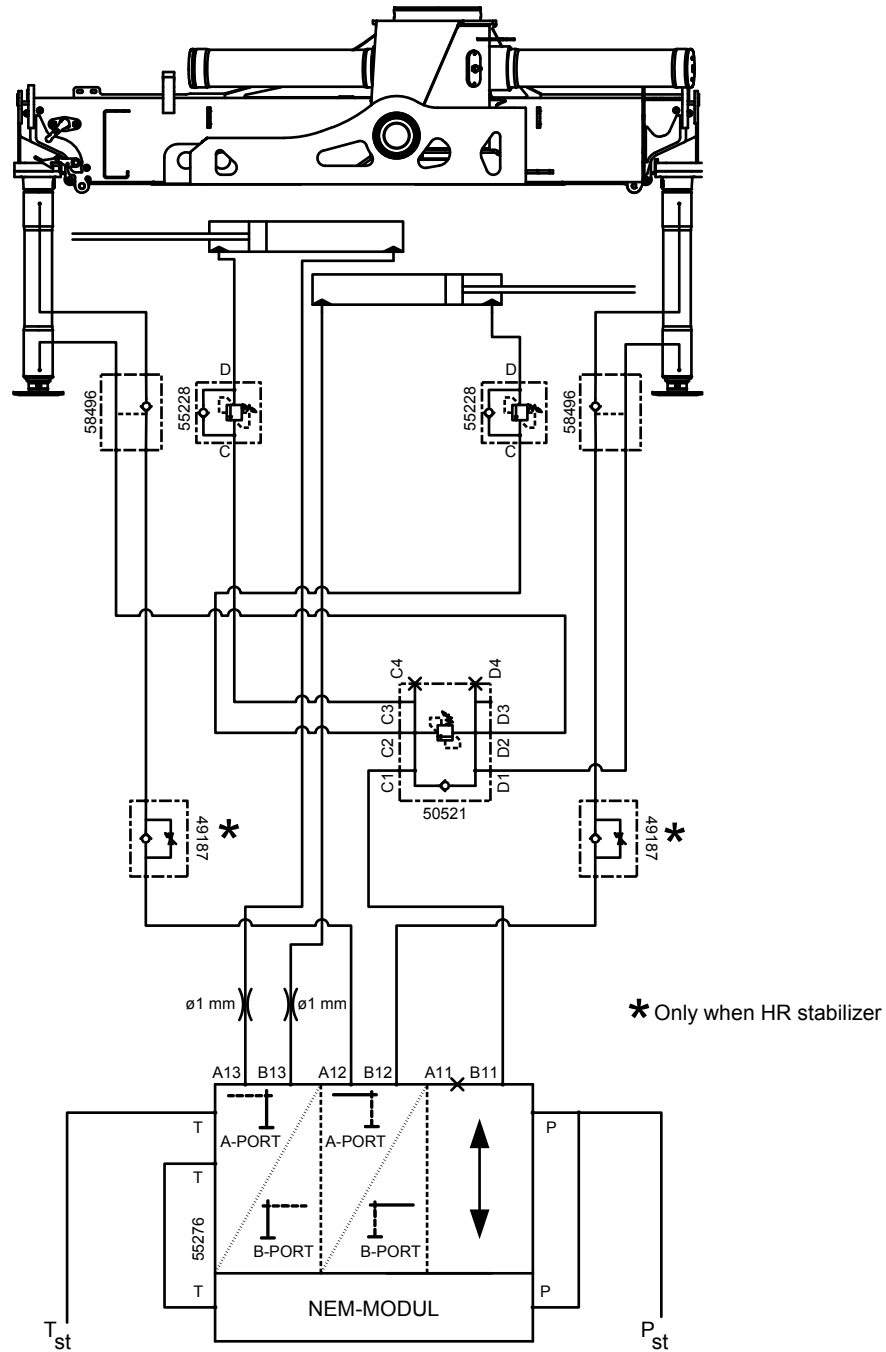


Hydraulic Diagram - Stabilizer circuit – 4 fcts.

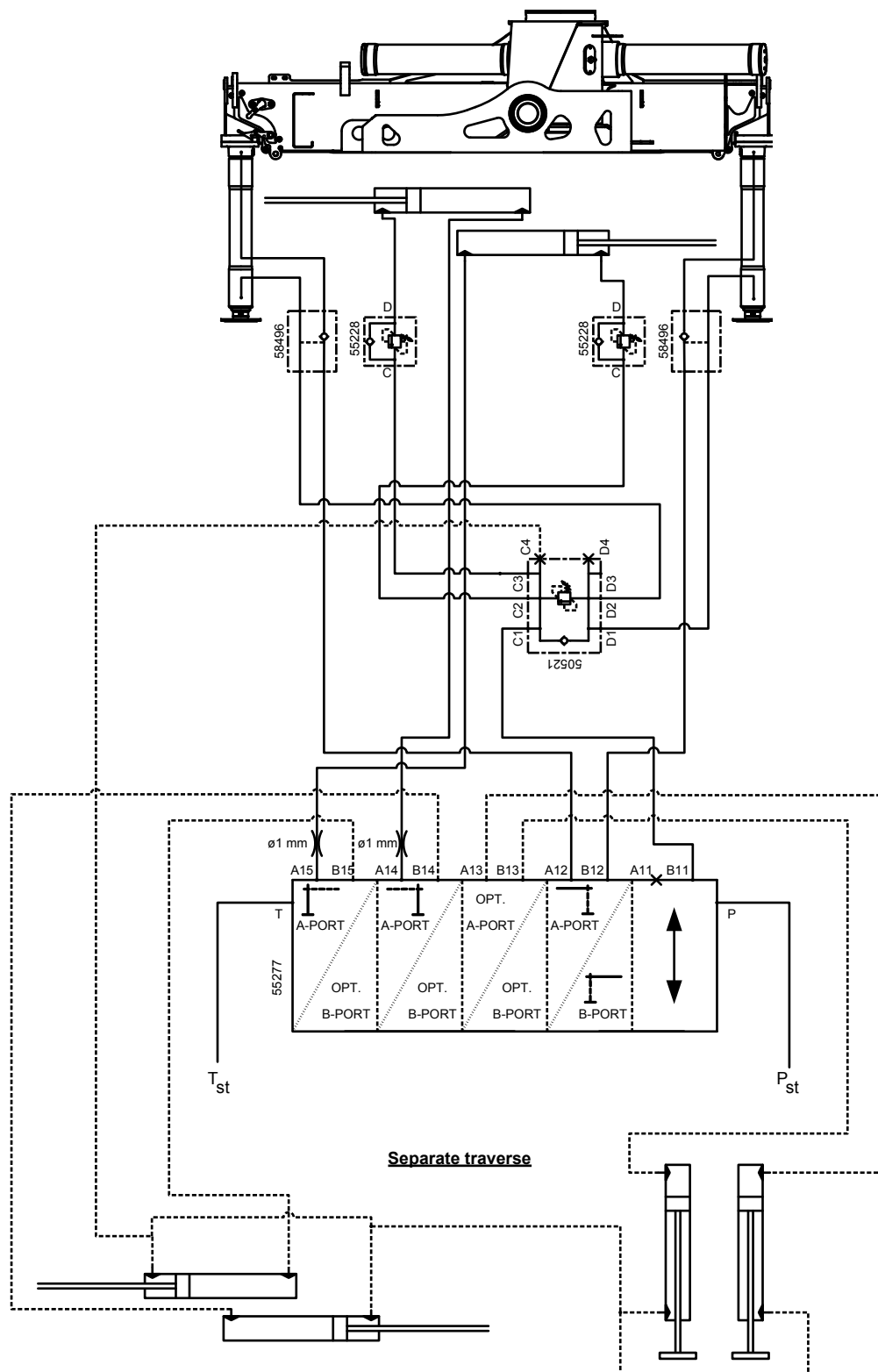
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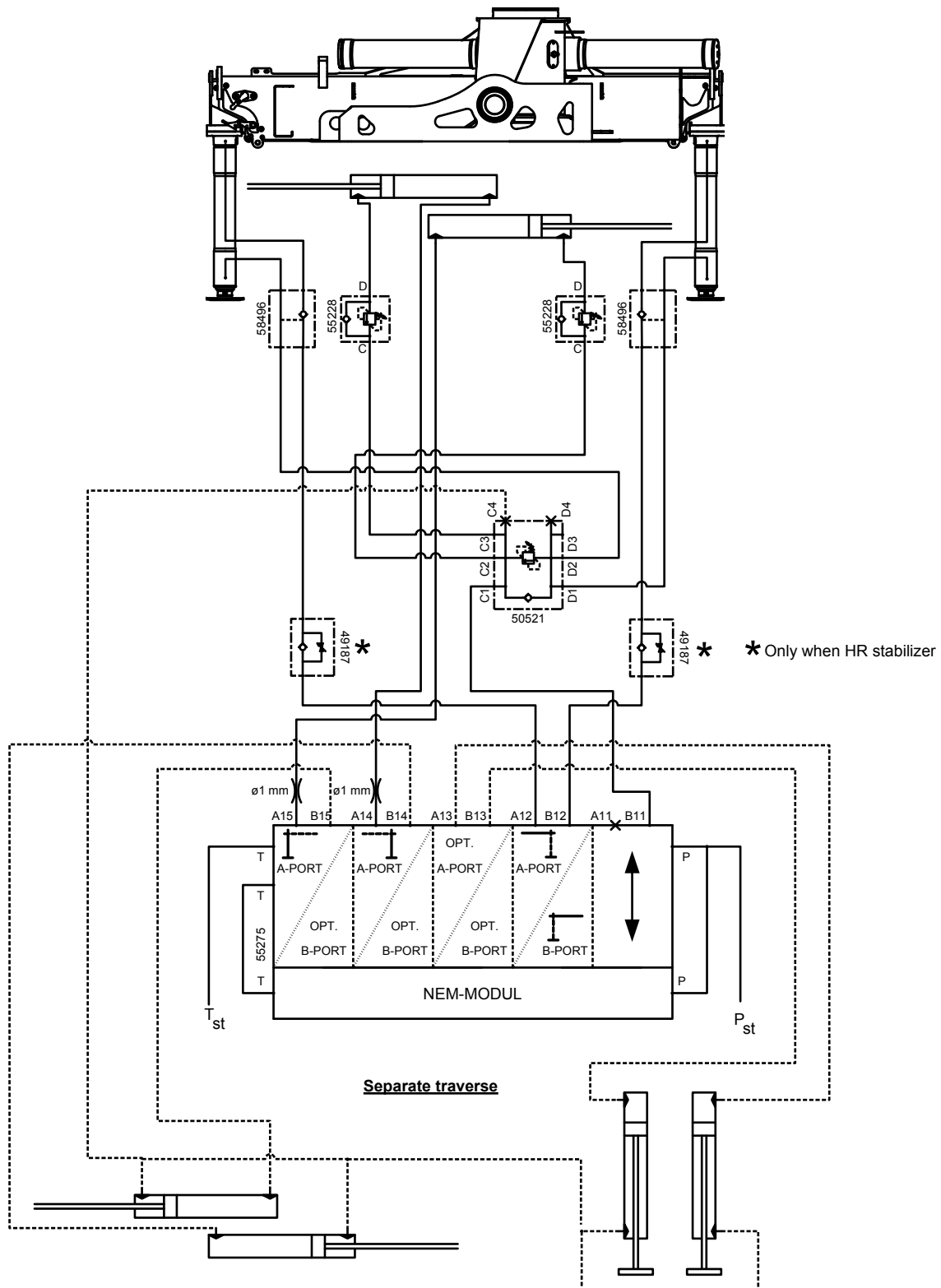
Hydraulic Diagram - Stabilizer circuit – 4 fcts. RC



Hydraulic Diagram - Stabilizer circuit – 4 fcts. + 4 available fcts.



Hydraulic Diagram - Stabilizer circuit – 4 fcts. + 4 available fcts. RC



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17/117DL Technical Specifications

Section - 4

17/117DL Specifications

Performance	Unit	K1	K2	K3	K4	K5	K6
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	ft-lb	122709	119100	116213	112603	110438	108273
Hydraulic reach	ft	20'7"	27'6"	34'5"	41'11"	49'2"	56'8"
Hydraulic telescopic movement	ft	75	155	237	324	409	495
Lifting capacity, hydraulic	lb-ft	8705 - 14'1"	8420 - 14'1"	8045 - 14'5"	7960 - 14'8"	7405 - 15'1"	7120 - 15'1"
		5049 - 20'4"	5720 - 20'8"	5420 - 20'8"	5115 - 20'11"	4870 - 21'4"	4630 - 21'8"
			4320 - 27'3"	4035 - 27'3"	3745 - 27'7"	3505 - 27'10"	3285 - 28'3"
				3195 - 34'1"	2910 - 34'5"	2665 - 34'9"	2445 - 35'1"
					2380 - 41'7"	2140 - 41'11"	1915 - 42'4"
						1805 - 48'10"	1610 - 49'3"
							1390 - 56'5"
Lifting capacity, manual extensions	lb-ft ° °		2690 - 34'1"	1980 - 49'8"	1455 - 49'2"	1100 - 56'5"	815 - 64'4"
			2070 - 41'4"	1540 - 49'2"	1165 - 57'1"	880 - 64'4"	
			1630 - 49'2"	1275 - 56'8"	970 - 64'8"		
Slewing torque, gross	°/s	12981	12981	12981	12981	12981	12981
Slewing angle	°	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24

Dimensions	Unit	K1	K2	K3	K4	K5	K6
Height above chassis	in	88	88	88	88	88	88
Width	in	98	98	98	98	98	98
Length, no extra valves	in	32	32	32	32	32	32
Length, with extra valves (hose guides)	in	37	37	37	37	37	37
Length, with extra valves (int. hose routing)	in	32	32	32	32	32	32
Stabilizer spread, S1 (standard)	ft	15'1"	15'1"	15'1"	15'1"	15'1"	15'1"
Stabilizer spread, S2	ft	18'4"	18'4"	18'4"	18'4"	18'4"	18'4"
Stabilizer spread, D	ft	21'2"	21'2"	21'2"	21'2"	21'2"	21'2"

17/117DL Specifications - Continued

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	lbs	2998	3307	3616	3913	4178	4387
Stabilizers, S1 fixed	lbs	441	441	441	441	441	441
Stabilizers, S1 swing-up	lbs	452	452	452	452	452	452
Stabilizers, S1 hydr. swing-up	lbs	474	474	474	474	474	474
Stabilizers, S2 fixed	lbs	518	518	518	518	518	518
Stabilizers, S2 swing-up	lbs	529	529	529	529	529	529
Stabilizers, S2 hydr. swing-up	lbs	551	551	551	551	551	551
Stabilizers, D fixed	lbs	661	661	661	661	661	661
Stabilizers, D swing-up	lbs	661	661	661	661	661	661
Stabilizers, D hydr. swing-up	lbs	694	694	694	694	694	694
Mounting kit, 4 bolts	lbs	121	121	121	121	121	121
Mounting kit, 8 bolts	lbs	132	132	132	132	132	132
Tank, excl. oil (fitted on loader)	lbs	99	99	99	99	99	99
Manual extensions	lbs		187	165	143	99	88
	lbs		165	143	99	88	
	lbs		143	99	88		
Oil in loader (stowing position)	lbs	55	66	77	88	99	99

1) Weights $\pm$ 5% because of tolerances for plate thickness

Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	lbs	132	132	132	132	132	132
Stand-up controls (HS), direct valve control	lbs	154	154	154	154	154	154
Top seat (TS)	lbs	198	198	198	198	198	198
Top seat, ladder	lbs	44	44	44	44	44	44
1 extra valve, hose guides	lbs	88	121	143	165	187	209
1 extra valve, int. hose routing	lbs	165	165	165	176	176	187
2 extra valves, hose guides	lbs	132	165	198	231	265	298
2 extra valves, int. hose routing	lbs	287	287	287	309	320	331
Winch (1.5 t), single snatch block	lbs	386	386	386	386	386	397
Winch (1.5 t), double snatch block	lbs	375	375	375	375	375	386
Winch (2.5 t), single snatch block	lbs	441	441	441	441	441	452
Winch (2.5 t), double snatch block	lbs	430	430	430	430	430	441
High-pressure filter	lbs	15	15	15	15	15	15
Oil cooler	lbs	55	55	55	55	55	55

Minimum Chassis Specs	
Front Axle Rating (GAWR)	12,000 lbs (5450 kg)
Rear Axle Rating (GAWR)	21,000 lbs (9530 kg)
Resistance to Bending Moment	1,755,000 in-lbs (242,640 kg-m)

17/117DL Specifications - Continued

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	Lbf	19	19	19	19	19	19
S1, swing-up	Lbf	19	19	19	19	19	19
S1, hydr. swing-up	Lbf	19	19	19	19	19	19
S2, fixed	Lbf	19	19	19	19	19	19
S2, swing-up	Lbf	19	19	19	19	19	19
S2, hydr. swing-up	Lbf	19	19	19	19	19	19
D, fixed	Lbf	15	15	15	15	15	15
D, swing-up	Lbf	15	15	15	15	15	15
D, hydr. swing-up	Lbf	15	15	15	15	15	15

Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	PSI	5003	5003	5003	5003	5003	5003
Tank capacity (fitted on loader)	gal	23	23	23	23	23	23
Max. pump performance, Hydrocontrol, 1-circuit	gpm	11	11	11	11	11	11
Max. pump performance, Hydrocontrol, 2-circuit	gpm	-	-	-	-	-	-
Max. pump performance, Danfoss fixed flow	gpm	18	18	18	18	18	18
Max. pump performance, Danfoss variable	gpm	26	26	26	26	26	26

17/117DL Metric Specifications

Performance	Unit	K1	K2	K3	K4	K5	K6
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	tm	14.2	13.8	13.4	12.9	12.6	12.2
Hydraulic reach	m	6.3	8.4	10.5	12.8	15	17.3
Hydraulic telescopic movement	mm	1930	3940	6040	8230	10390	12580
Lifting capacity, hydraulic	kg-m	3320 - 4.3	3190 - 4.3	3040 - 4.4	2890 - 4.5	2760 - 4.6	2640 - 4.6
		2290 - 6.2	2160 - 6.3	2030 - 6.3	1900 - 6.4	1780 - 6.5	1680 - 6.6
			1630 - 8.3	1490 - 8.3	1370 - 8.4	1260 - 8.5	1160 - 8.6
				1180 - 10.4	1050 - 10.5	950 - 10.6	850 - 10.7
					860 - 12.7	750 - 12.8	660 - 12.9
						630 - 14.9	540 - 15.0
							460 - 17.2
Lifting capacity, manual extensions	kg-m		1220 - 10.4	900 - 12.7	660 - 15.1	500 - 17.2	370 - 19.6
			940 - 12.6	700 - 15.0	530 - 17.4	400 - 19.6	
			740 - 15.0	580 - 17.3	440 - 19.7		
Slewing torque, gross	kNm	17.6	17.6	17.6	17.6	17.6	17.6
Slewing angle	°	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24

Dimensions	Unit	K1	K2	K3	K4	K5	K6
Height above chassis	mm	2250	2250	2250	2250	2250	2250
Width	mm	2500	2500	2500	2500	2500	2500
Length, no extra valves	mm	825	825	825	825	825	825
Length, with extra valves (hose guides)	mm	950	950	950	950	950	950
Length, with extra valves (int. hose routing)	mm	825	825	825	825	825	825
Stabilizer spread, S1 (standard)	mm	4615	4615	4615	4615	4615	4615
Stabilizer spread, S2	mm	5590	5590	5590	5590	5590	5590
Stabilizer spread, D	mm	6470	6470	6470	6470	6470	6470

17/117DL Metric Specifications - Continued

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	kg	1360	1500	1640	1775	1895	1990
Stabilizers, S1 fixed	kg	200	200	200	200	200	200
Stabilizers, S1 swing-up	kg	205	205	205	205	205	205
Stabilizers, S1 hydr. swing-up	kg	215	215	215	215	215	215
Stabilizers, S2 fixed	kg	235	235	235	235	235	235
Stabilizers, S2 swing-up	kg	240	240	240	240	240	240
Stabilizers, S2 hydr. swing-up	kg	250	250	250	250	250	250
Stabilizers, D fixed	kg	300	300	300	300	300	300
Stabilizers, D swing-up	kg	300	300	300	300	300	300
Stabilizers, D hydr. swing-up	kg	315	315	315	315	315	315
Mounting kit, 4 bolts	kg	55	55	55	55	55	55
Mounting kit, 8 bolts	kg	60	60	60	60	60	60
Tank, excl. oil (fitted on loader)	kg	45	45	45	45	45	45
Manual extensions	kg		85	75	65	45	40
	kg		75	65	45	40	
	kg		65	45	40		
Oil in loader (stowing position)	kg	25	30	35	40	45	45

1) Weights $\pm$ 5% because of tolerances for plate thickness

Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	kg	60	60	60	60	60	60
Stand-up controls (HS), direct valve control	kg	70	70	70	70	70	70
Top seat (TS)	kg	90	90	90	90	90	90
Top seat, ladder	kg	20	20	20	20	20	20
1 extra valve, hose guides	kg	40	55	65	75	85	95
1 extra valve, int. hose routing	kg	75	75	75	80	80	85
2 extra valves, hose guides	kg	60	75	90	105	120	135
2 extra valves, int. hose routing	kg	130	130	130	140	145	150
Winch (1.5 t), single snatch block	kg	175	175	175	175	175	180
Winch (1.5 t), double snatch block	kg	170	170	170	170	170	175
Winch (2.5 t), single snatch block	kg	200	200	200	200	200	205
Winch (2.5 t), double snatch block	kg	195	195	195	195	195	200
High-pressure filter	kg	7	7	7	7	7	7
Oil cooler	kg	25	25	25	25	25	25

17/117DL Metric Specifications - Continued

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	kN	85	85	85	85	85	85
S1, swing-up	kN	85	85	85	85	85	85
S1, hydr. swing-up	kN	85	85	85	85	85	85
S2, fixed	kN	85	85	85	85	85	85
S2, swing-up	kN	85	85	85	85	85	85
S2, hydr. swing-up	kN	85	85	85	85	85	85
D, fixed	kN	68	68	68	68	68	68
D, swing-up	kN	68	68	68	68	68	68
D, hydr. swing-up	kN	68	68	68	68	68	68

Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	Bar	345	345	345	345	345	345
Tank capacity (fitted on loader)	L	90	90	90	90	90	90
Max. pump performance, Hydrocontrol, 1-circuit	L/min	45	45	45	45	45	45
Max. pump performance, Hydrocontrol, 2-circuit	L/min	-	-	-	-	-	-
Max. pump performance, Danfoss fixed flow	L/min	70	70	70	70	70	70
Max. pump performance, Danfoss variable	L/min	100	100	100	100	100	100

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17/117DL Load Capacity Charts

Section - 5

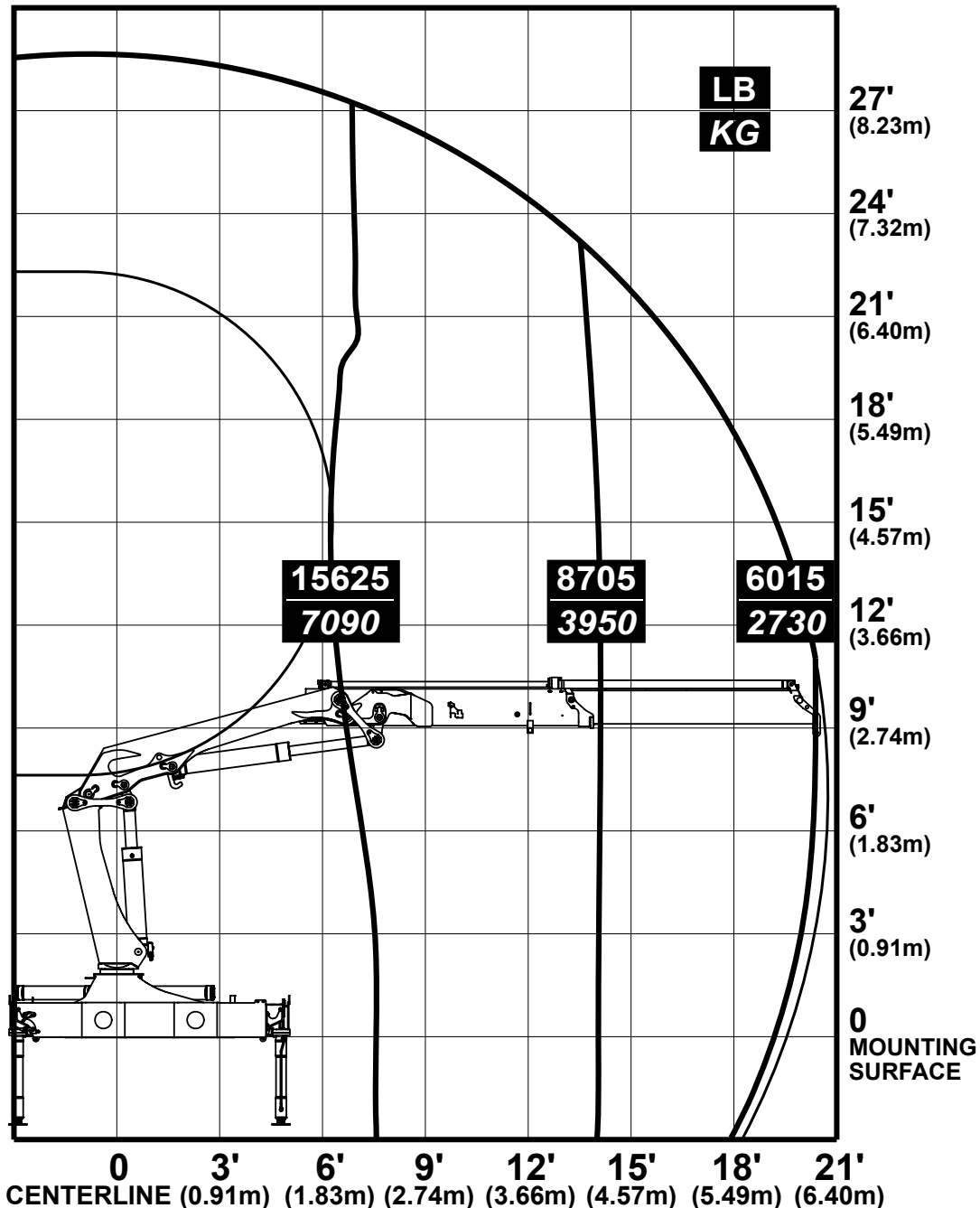
17/117DL Lifting Capacity Chart, K1

IMT
MATERIAL HANDLING SYSTEMS

IOWA MOLD TOOLING CO., INC.
BOX 189 • GARNER • IA • 50438 • 641-923-3711

Model 17/117DL K1

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117DL Lifting Capacity Chart, K2

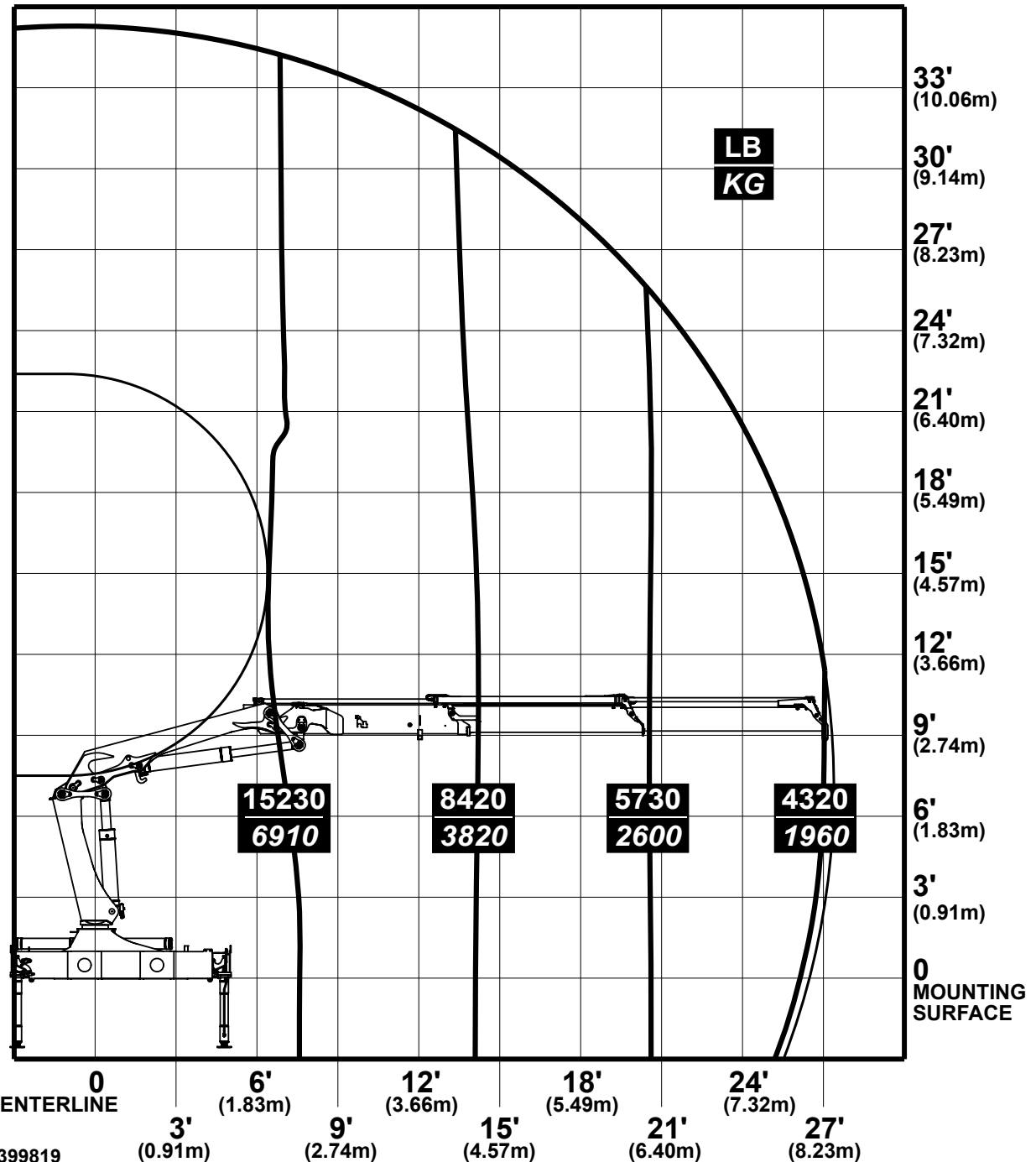
IMT

MATERIAL HANDLING SYSTEMS

Model 17/117DL K2

IOWA MOLD TOOLING CO., INC.
BOX 189 • GARNER • IA • 50438 • 641-923-3711

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



17/117DL Lifting Capacity Chart, K3

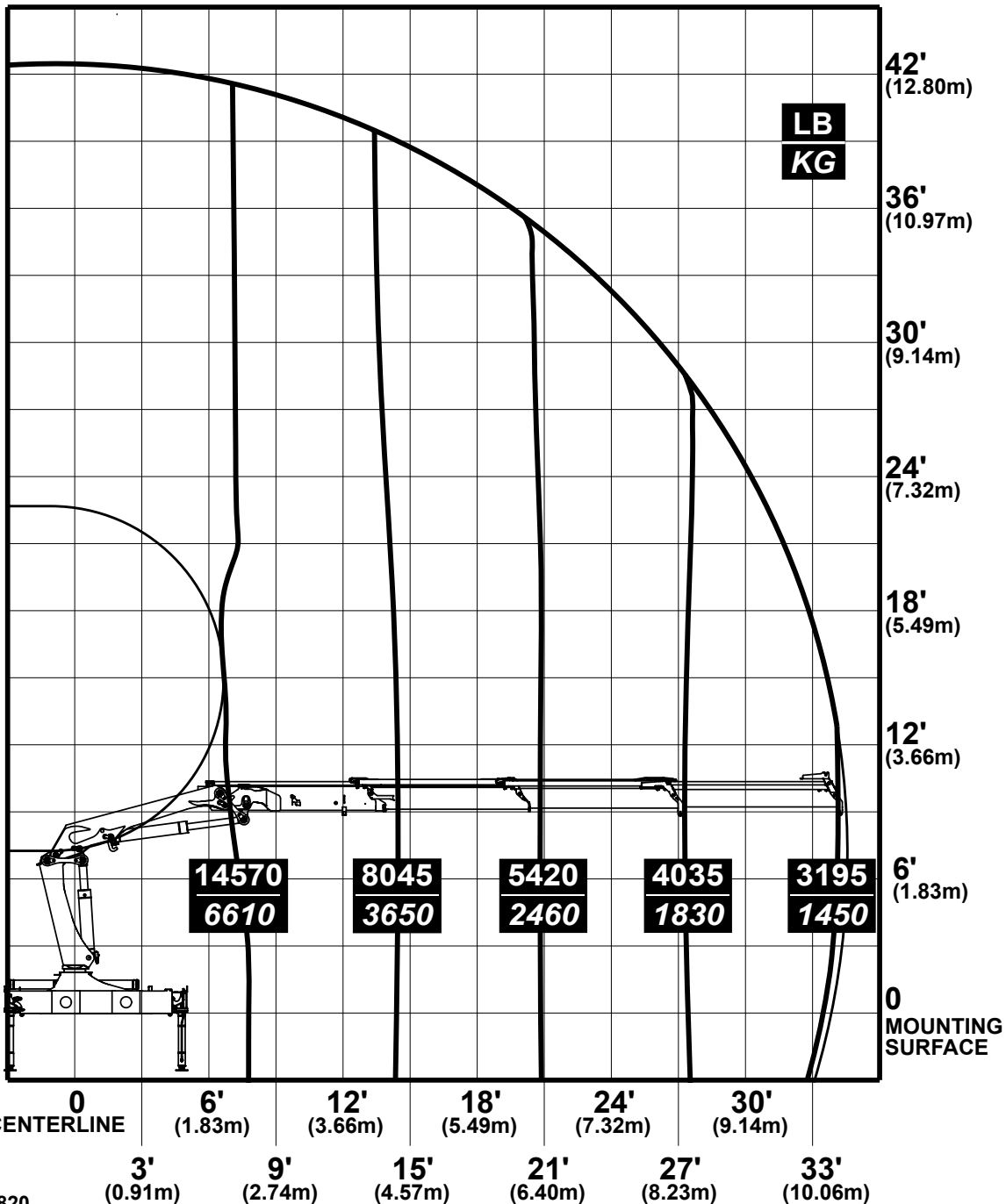
IMT

MATERIAL HANDLING SYSTEMS

 IOWA MOLD TOOLING CO., INC.
 BOX 189 • GARNER • IA • 50438 • 641-923-3711

Model 17/117DL K3

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117DL Lifting Capacity Chart, K4

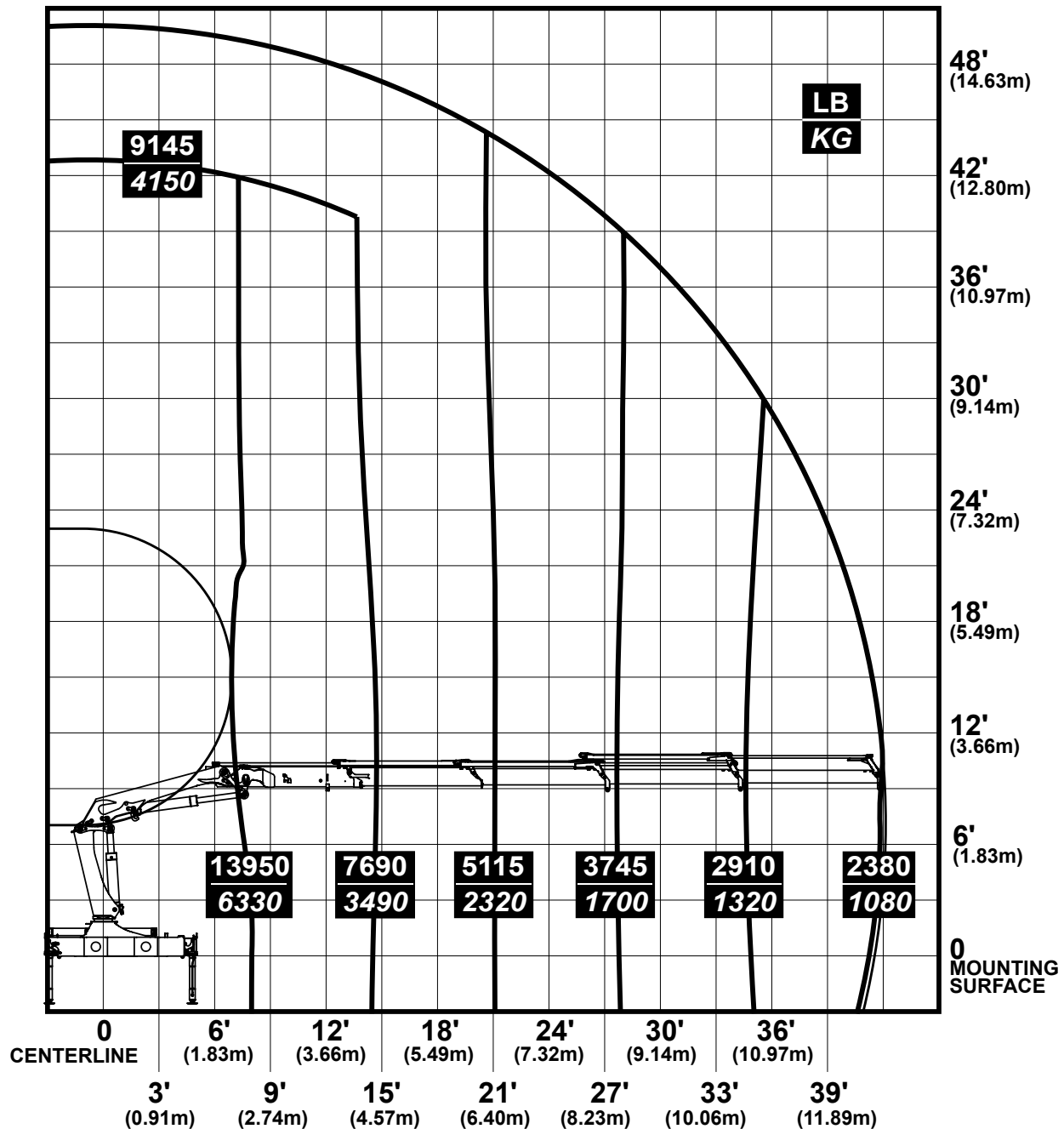
IMT

MATERIAL HANDLING SYSTEMS

 IOWA MOLD TOOLING CO., INC.
 BOX 189 • GARNER • IA • 50438 • 641-923-3711

Model 17/117DL K4

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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17/117DL Lifting Capacity Chart, K5

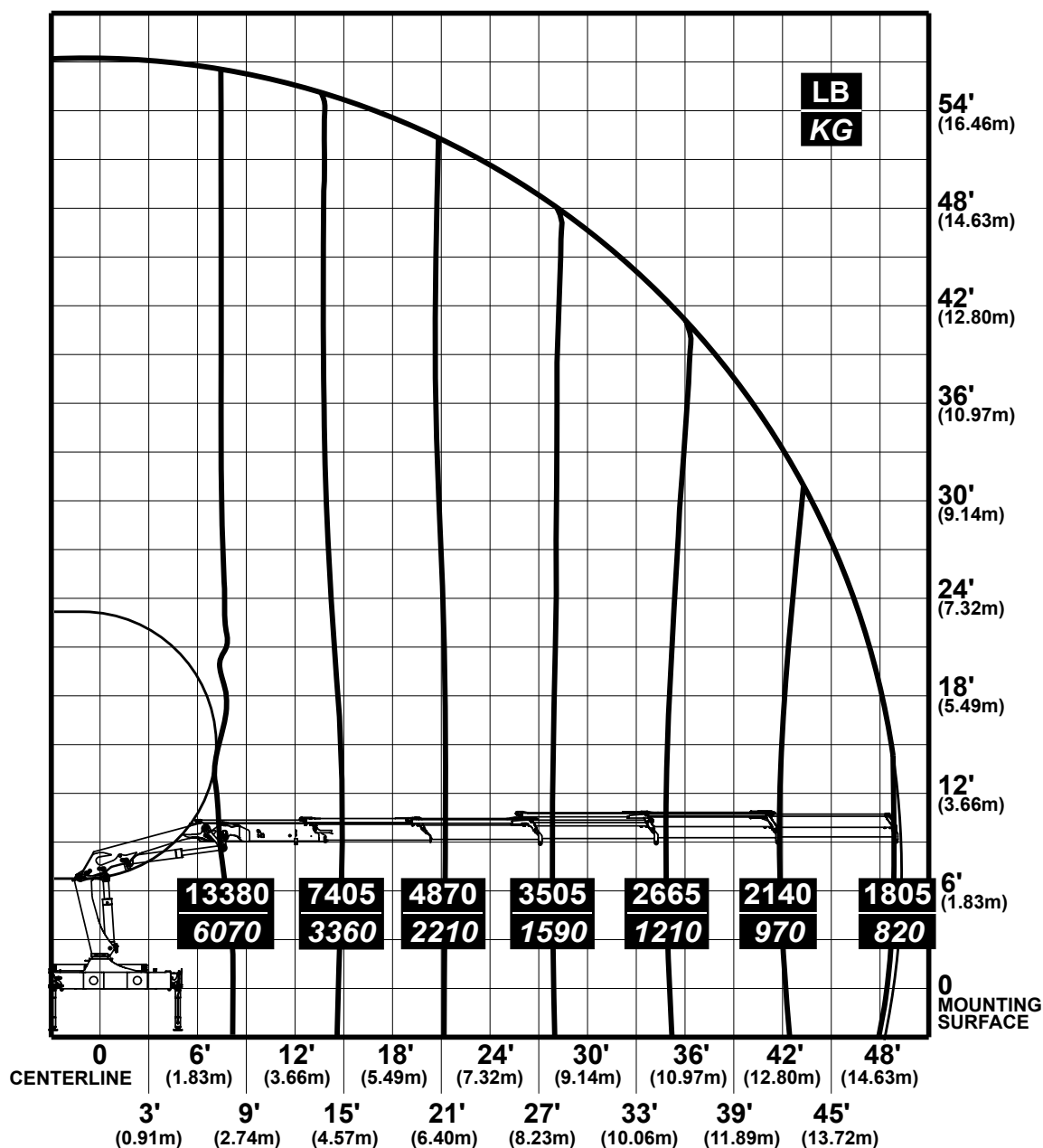
IMT

MATERIAL HANDLING SYSTEMS

 IOWA MOLD TOOLING CO., INC.
 BOX 189 • GARNER • IA • 50438 • 641-923-3711

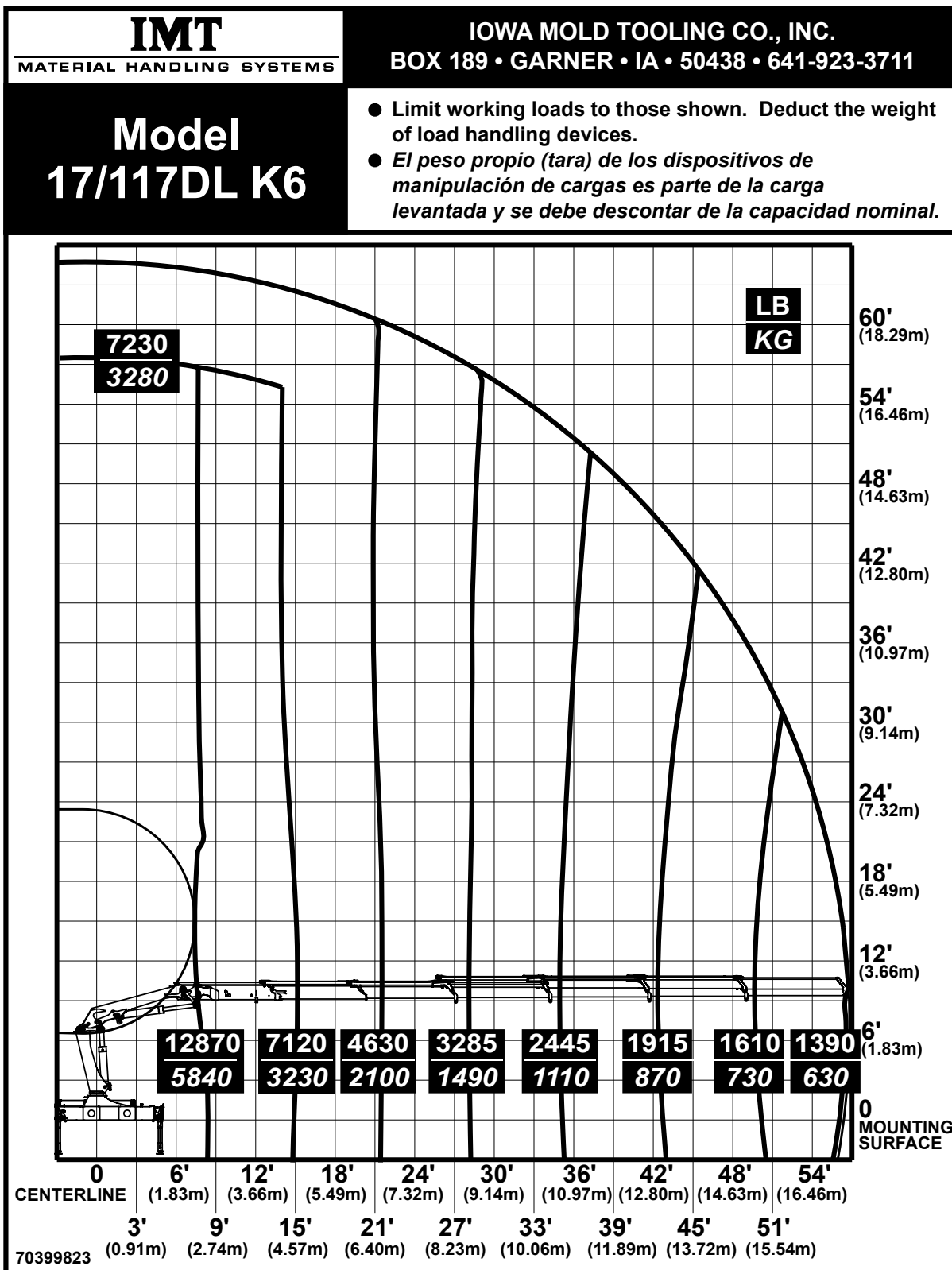
Model 17/117DL K5

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



70399822

17/117DL Lifting Capacity Chart, K6



17/117DL Lifting Capacity Chart K1 - K6

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17/117DL Hydraulics

Section - 6

17/117DL - Pressure setting diagram, fixed flow pump & Danfoss RC

Working Pressure on Main-Relief Valve & Port- Relief Valves						
Function	Direction	Port	Port-relief valves [bar]	LS-pressure adjustment [bar]	Port-relief valves [PSI]	LS-pressure adjustment [PSI]
Main-relief valve			345		5004	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	350	380	5076	5511
Jib cylinder	Up	A	350	380	5076	5511
	Down	B	250	230	3626	3336
Extension cylinders	Extend	A	P	-	P	-
	Retract	B	P	-	P	-
Rotator	Right	A	P	50-300	P	725-4351
	Left	B	P	50-300	P	725-4351
Grab	Open	A	P	50-300	P	725-4351
	Close	B	P	50-300	P	725-4351
Winch 1,5T	Lift	A	P	160	P	2321
	Lower	B	P	160	P	2321
Winch 2,5T	Lift	A	P	185	P	2683
	Lower	B	P	185	P	2683
Separate stabilizer valve		All	150		2176	

Working Pressure on Load-holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	365	5294
	Down	-	-
Jib cylinder	Up	380	5511
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

Max. pump performance		
Choice of pump	1 x Fixed	1 x Fixed
Pump performance	70 L/min	18.5 gpm

IMT reserves the right to introduce improvements and modifications

17/117DL - Pressure setting diagram, variable flow pump & Danfoss RC

Working Pressure on Main-Relief Valve & Port- Relief Valves						
Function	Direction	Port	Port-relief valves [bar]	LS-pressure adjustment [bar]	Port-relief valves [PSI]	LS-pressure adjustment [PSI]
Main-relief valve			345		5004	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	350	380	5076	5511
Jib cylinder	Up	A	350	380	5076	5511
	Down	B	250	230	3626	3336
Extension cylinders	Extend	A	P	300	P	4351
	Retract	B	P	300	P	4351
Rotator	Right	A	P	50-300	P	725-4351
	Left	B	P	50-300	P	725-4351
Grab	Open	A	P	50-300	P	725-4351
	Close	B	P	50-300	P	725-4351
Winch 1,5T	Lift	A	P	160	P	2321
	Lower	B	P	160	P	2321
Winch 2,5T	Lift	A	P	185	P	2683
	Lower	B	P	185	P	2683
Separate stabilizer valve		All	150		2176	

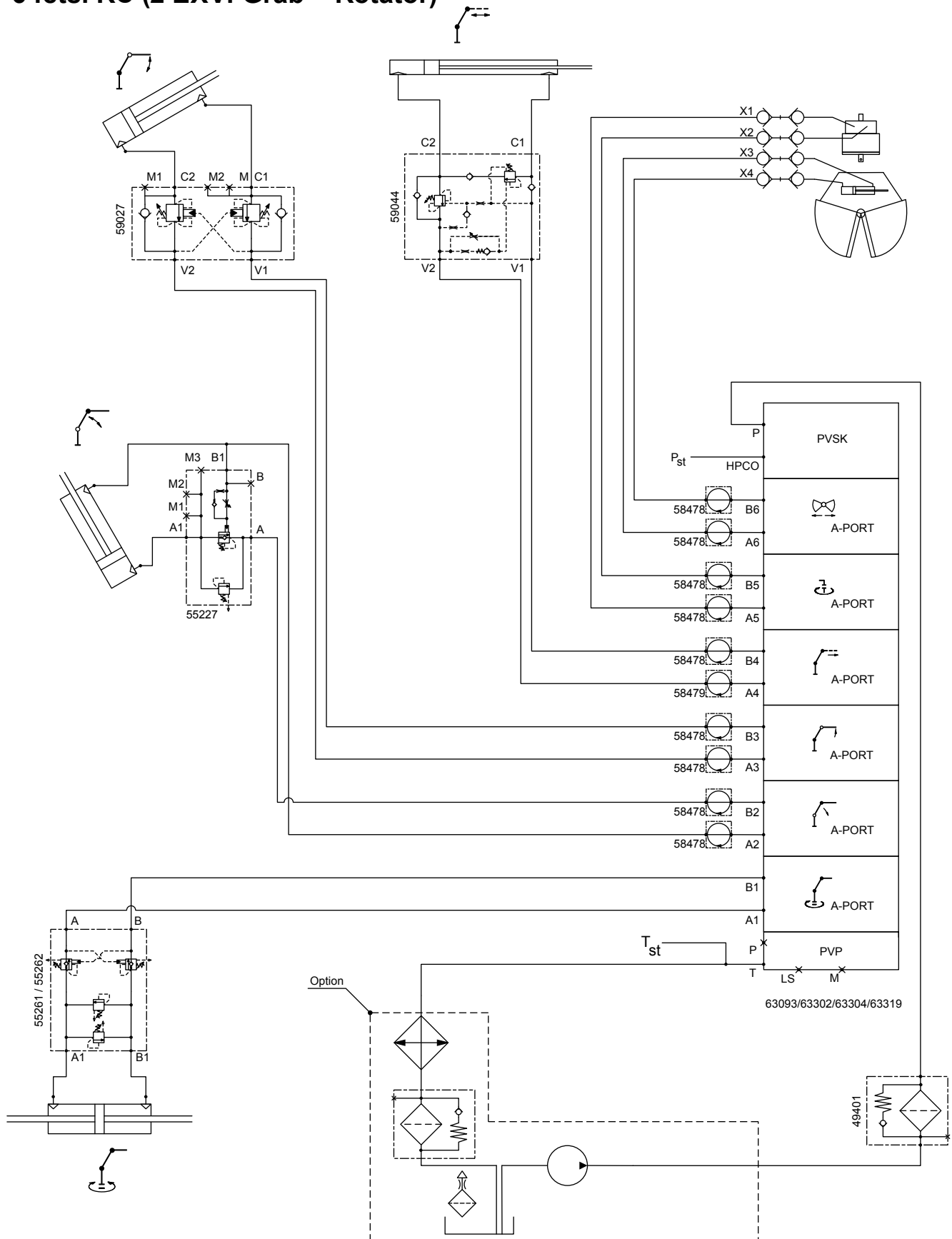
Working Pressure on Load-holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	365	5294
	Down	-	-
Jib cylinder	Up	380	5511
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

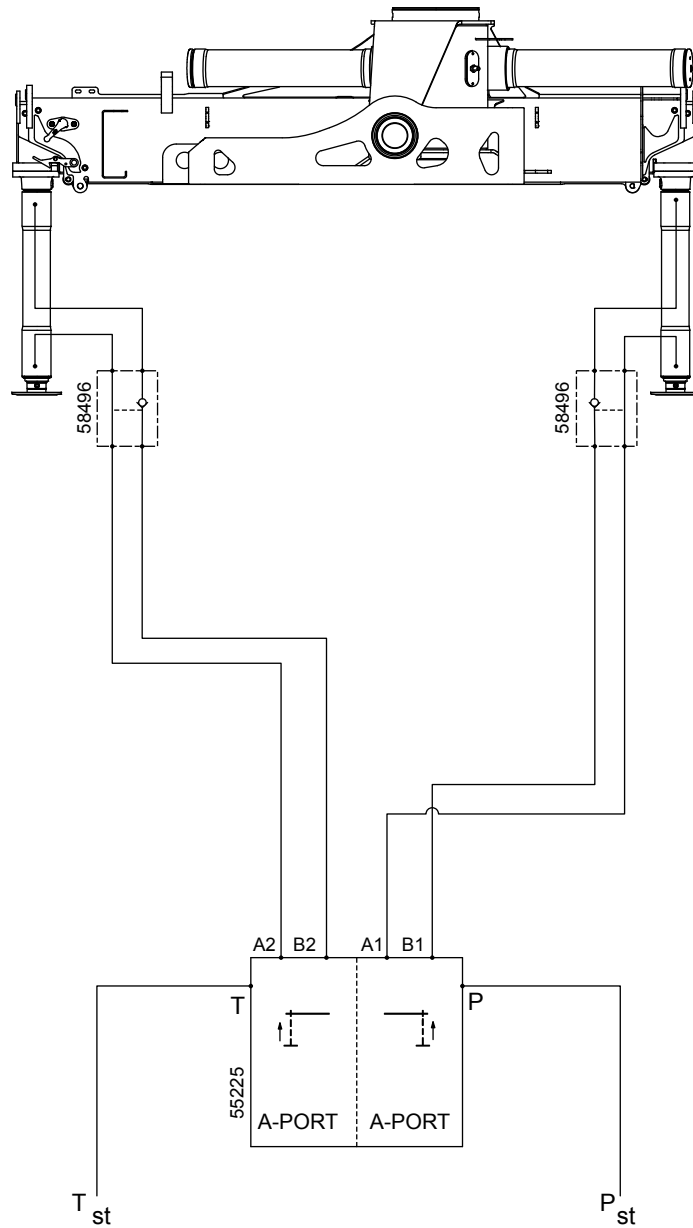
Max. pump performance		
Choice of pump	1 x Variable	1 x Variable
Pump performance	100 L/min	26.4 gpm

IMT reserves the right to introduce improvements and modifications

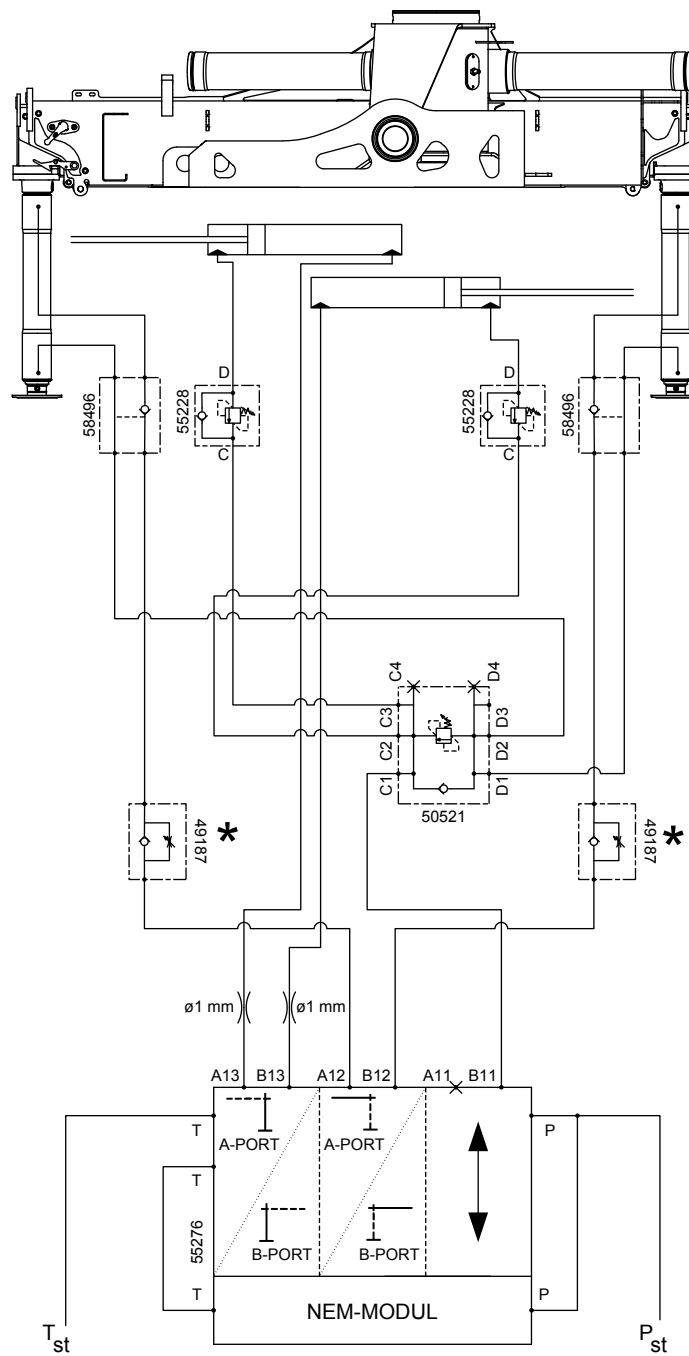
Hydraulic Diagram - Danfoss, single-circuit fixed **6 fcts. RC (2 EXV: Grab + Rotator)**



Hydraulic Diagram - Stabilizer circuit – 2 fcts.

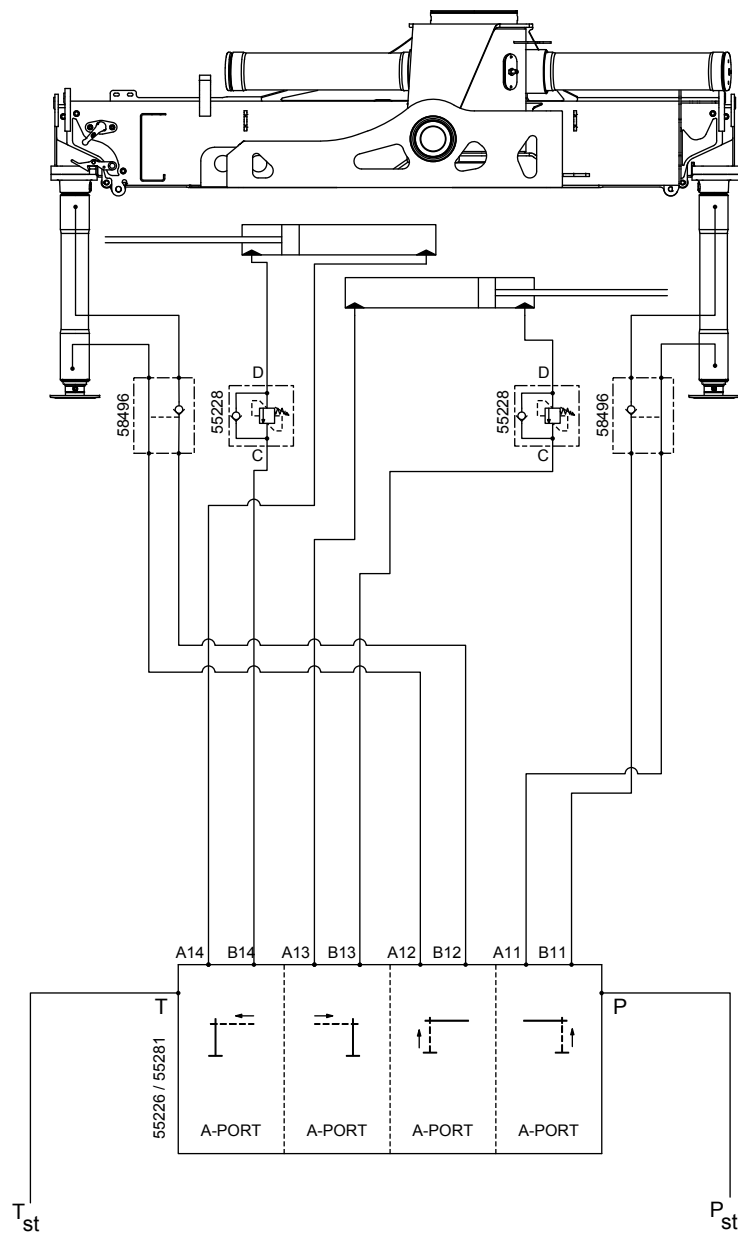


Hydraulic Diagram - Stabilizer circuit – 4 fcts.

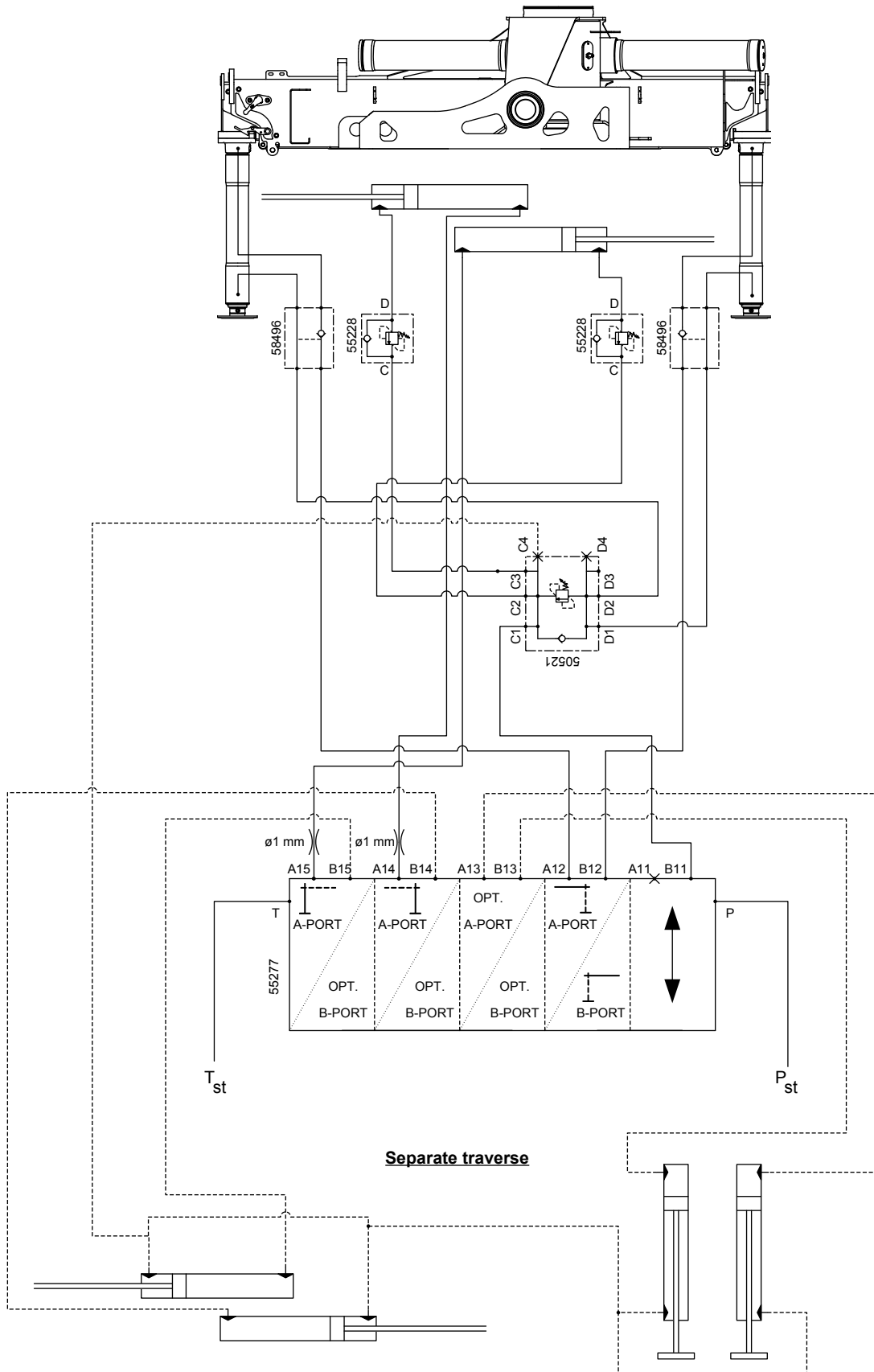


* Only when HR stabilizer

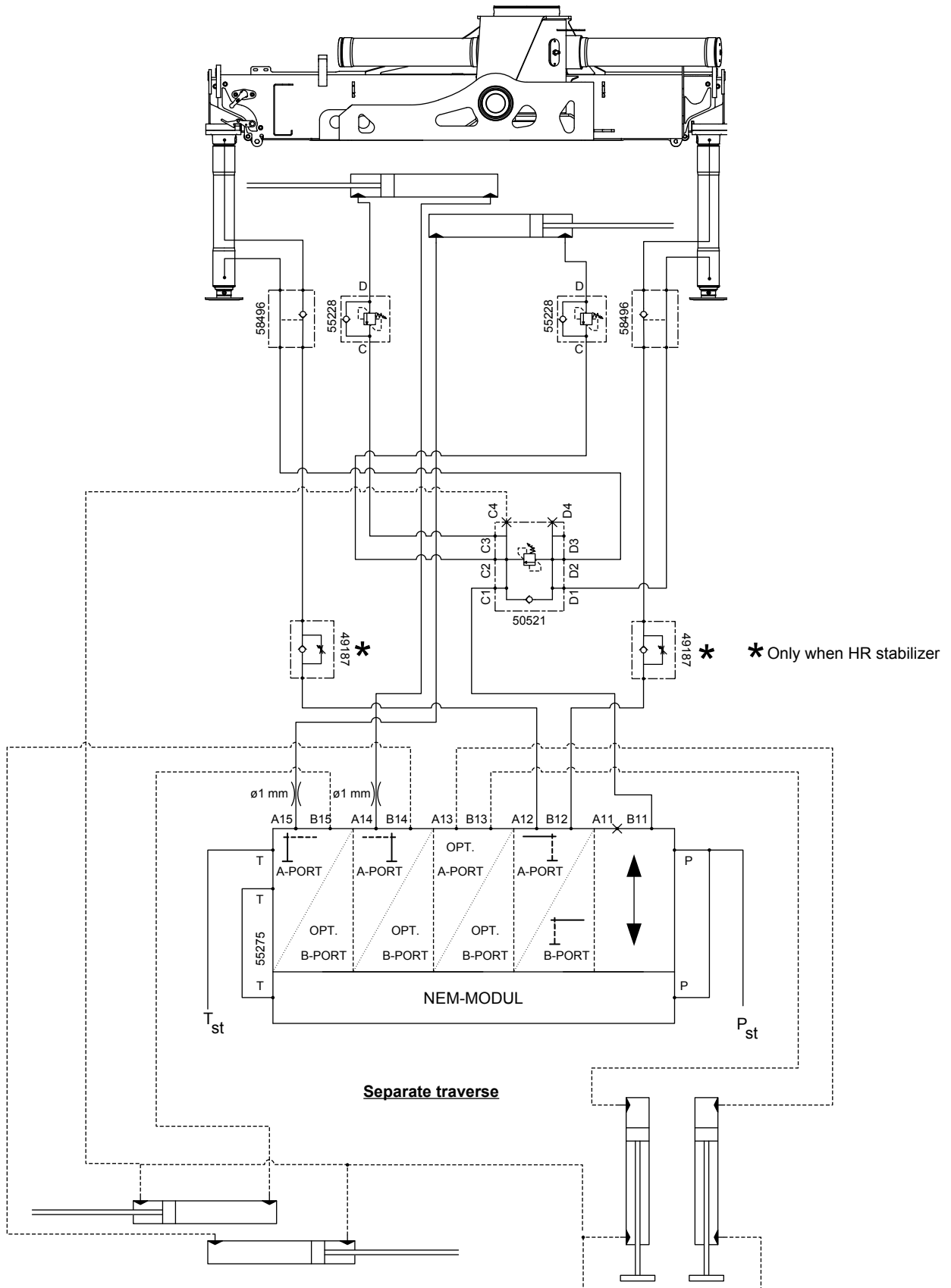
Hydraulic Diagram - Stabilizer circuit – 4 fcts. RC



Hydraulic Diagram - Stabilizer circuit – 4 fcts. + 4 available fcts.



Hydraulic Diagram - Stabilizer circuit – 4 fcts. + 4 available fcts. RC



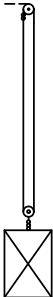
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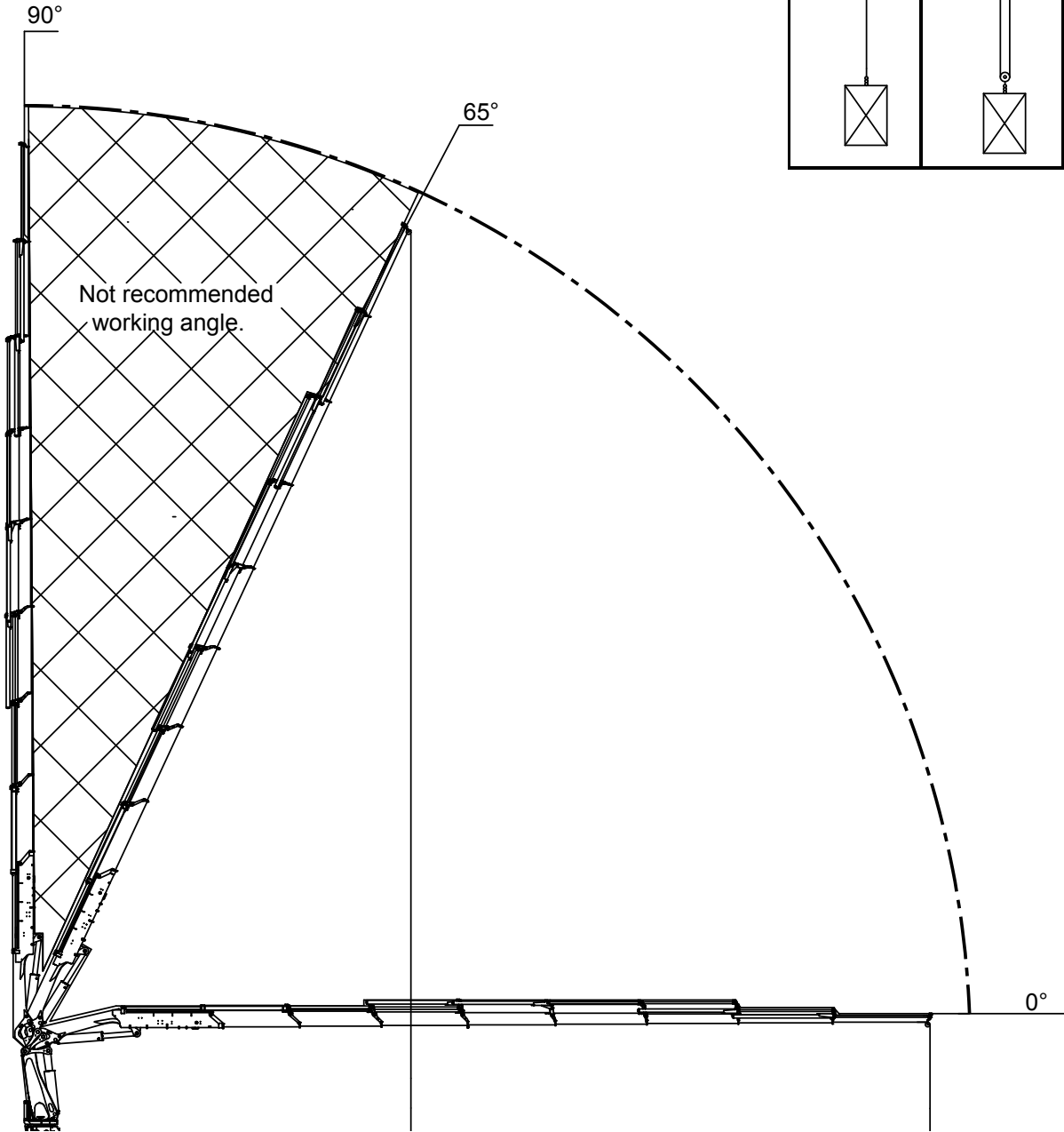
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17/117SL & 17/117DL Dimension Drawings

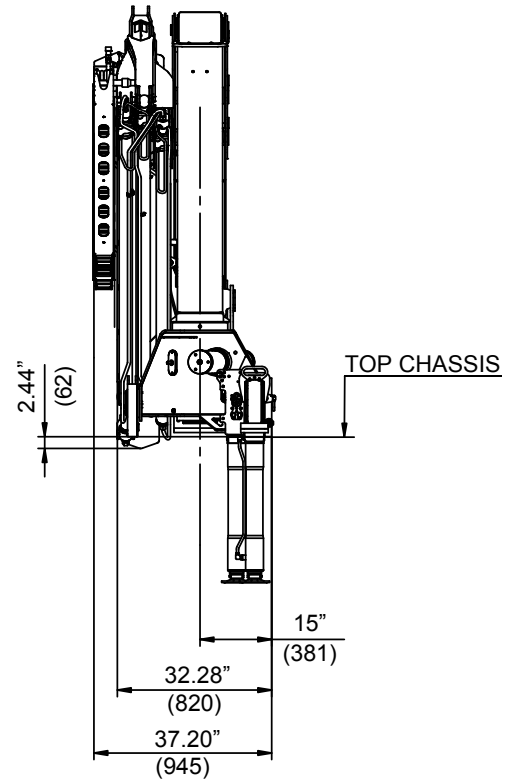
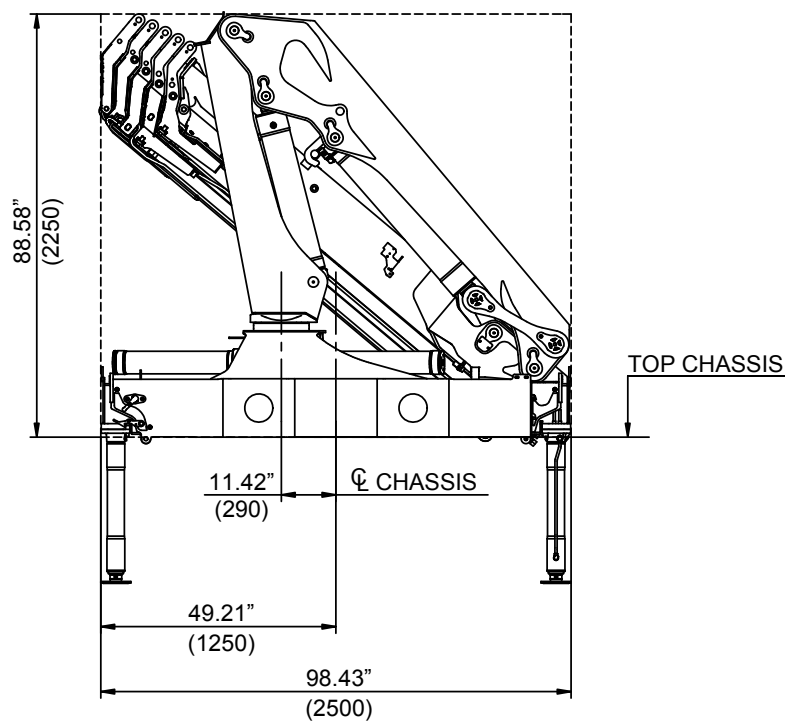
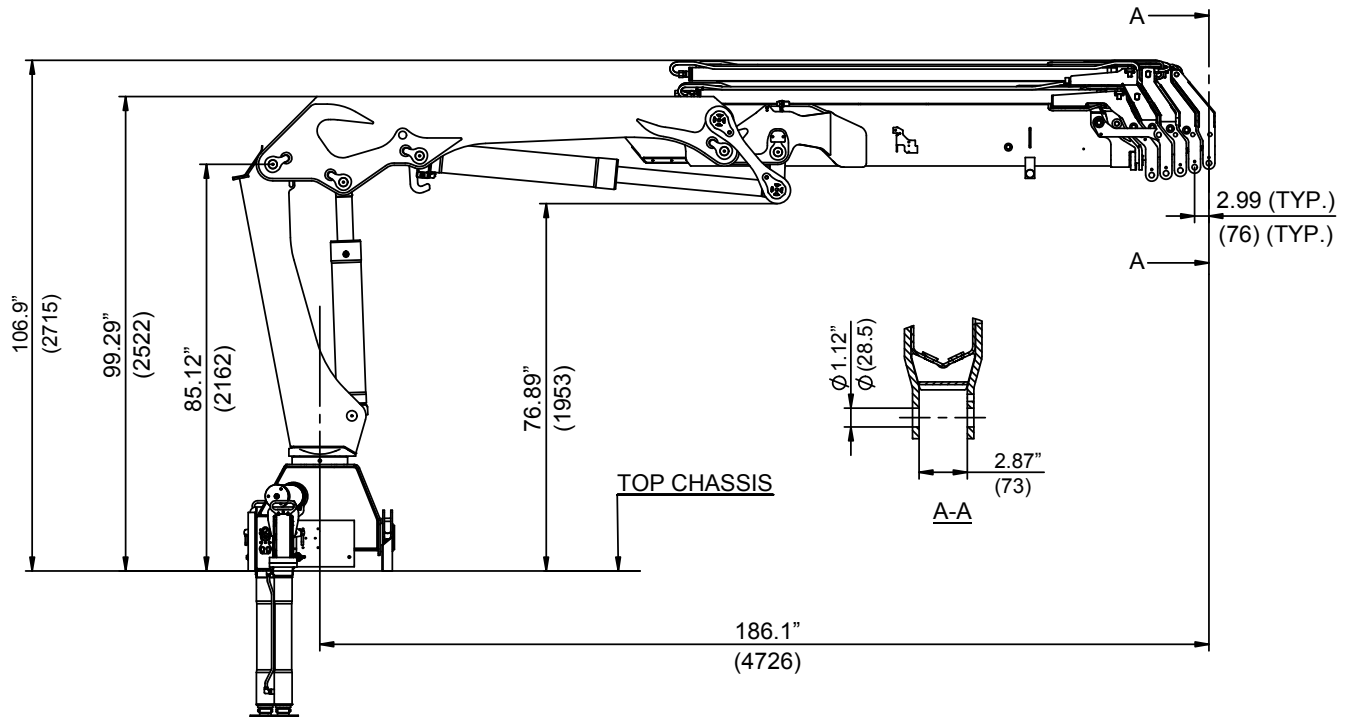
Section - 7

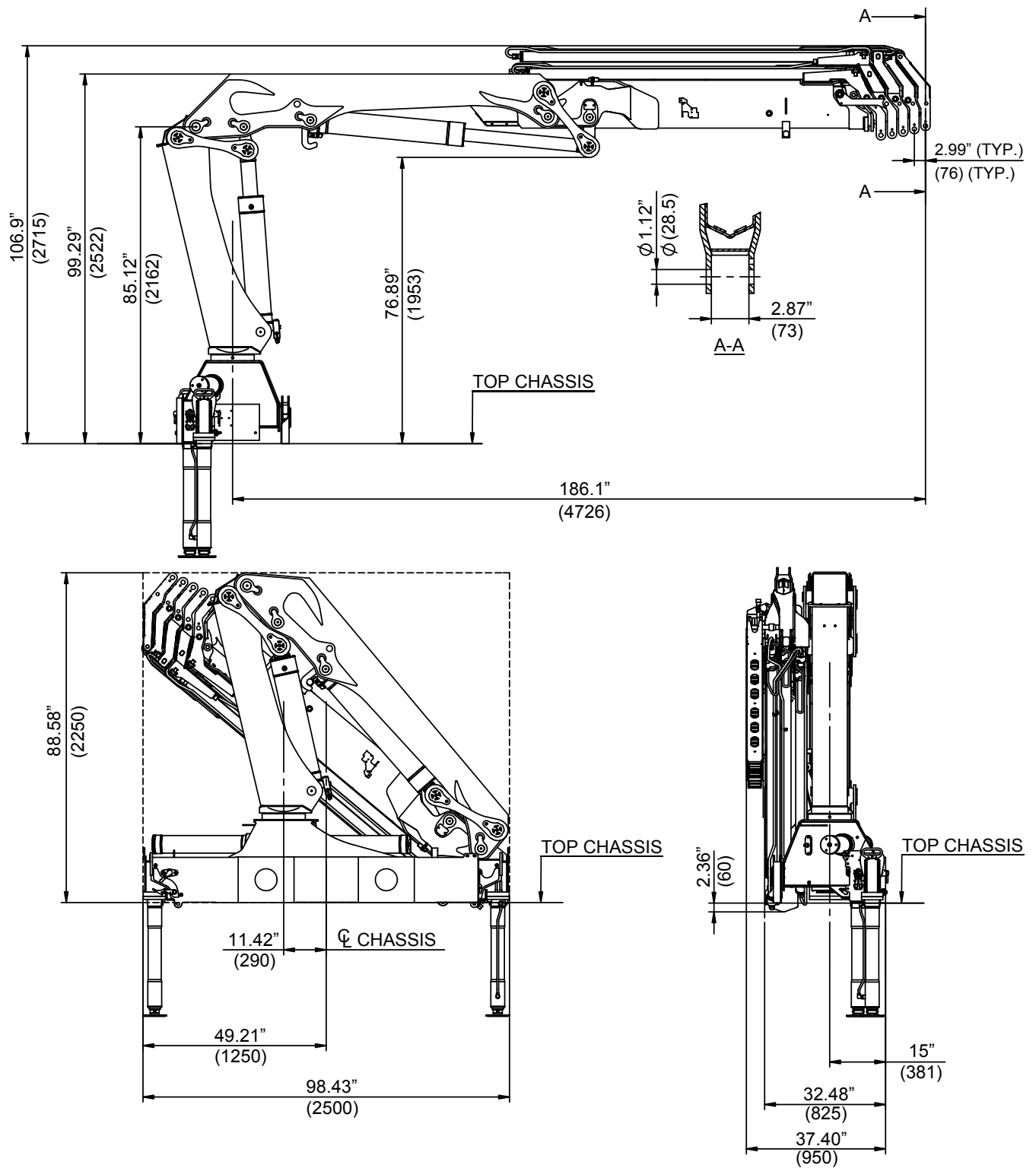
Lifting capacity with winch

Dinamic P9E	1500 kg	3000 kg
Dinamic P19E	2500 kg	5000 kg
Dinamic S 25 Brevini 2500	3200 kg	6400 kg
		

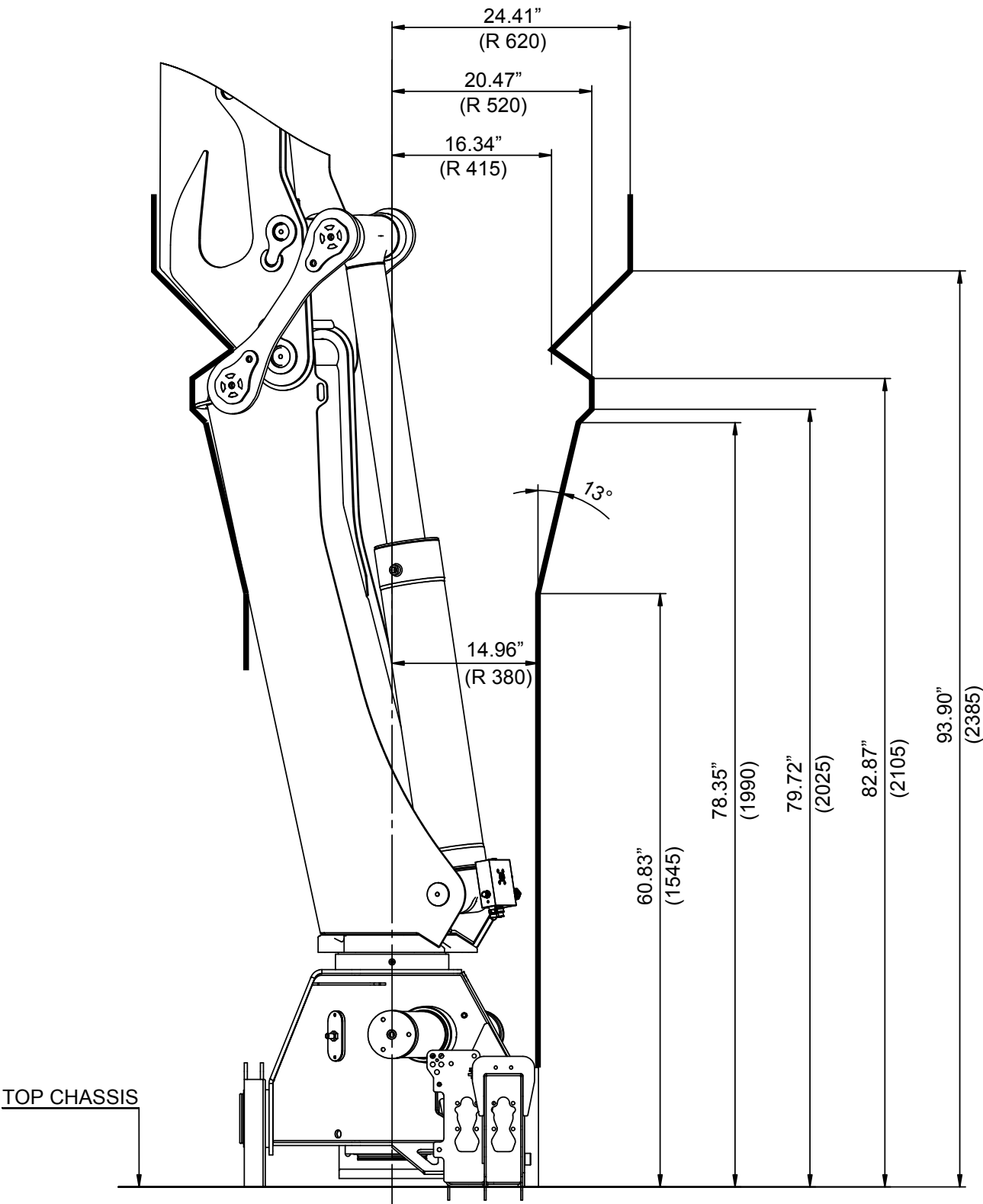


17/117SL - Dimension sketch

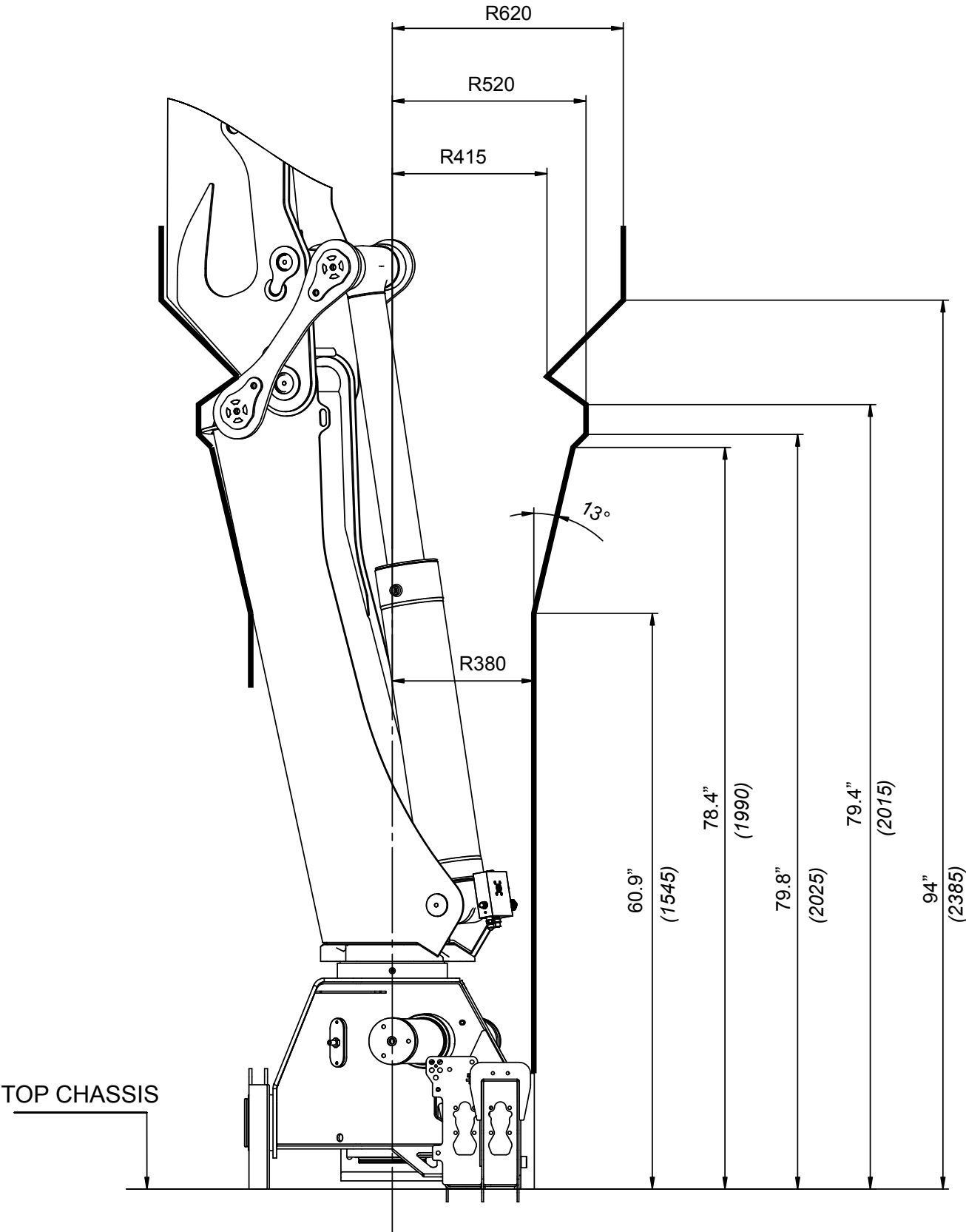


17/117DL - Dimension sketch

17/117SL - Slewing Radius

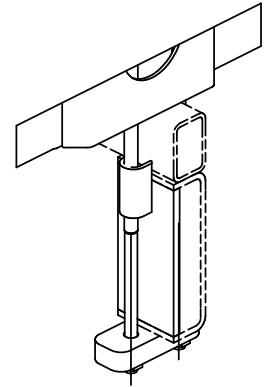
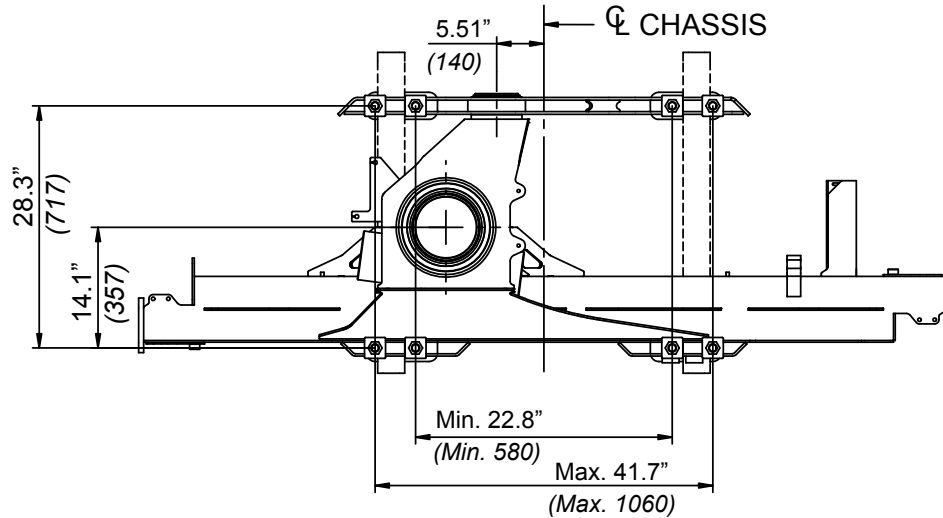


17/117DL - Slewing Radius



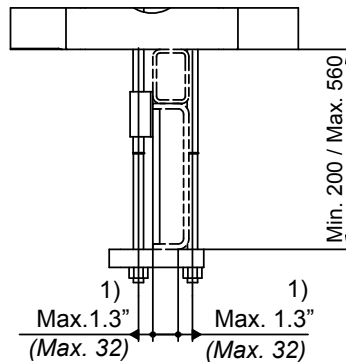
Dimension Sketch for Truck-Mounted Loader

MOUNTING KIT 8 x M24 x 2 BOLTS

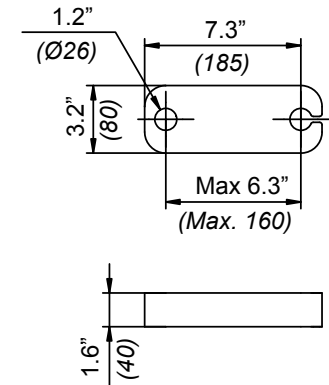


Notes:

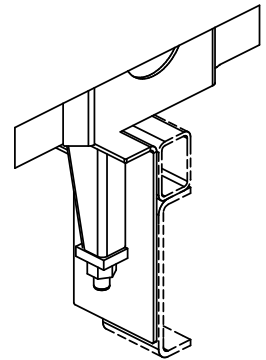
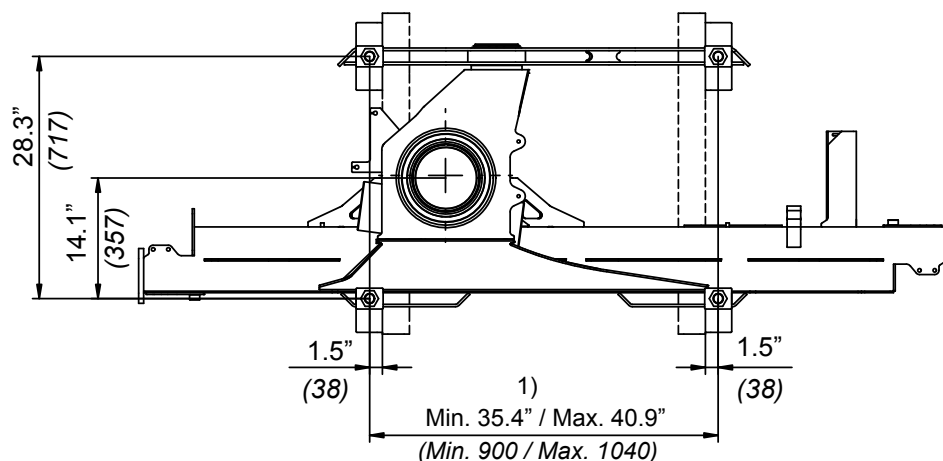
1. Values dictated by strength considerations.
2. Drill hole when assembling.
3. For installation, please see IMT Installation Manual.
4. For mounting kits or spare parts, please see the Spart Parts Catalog.



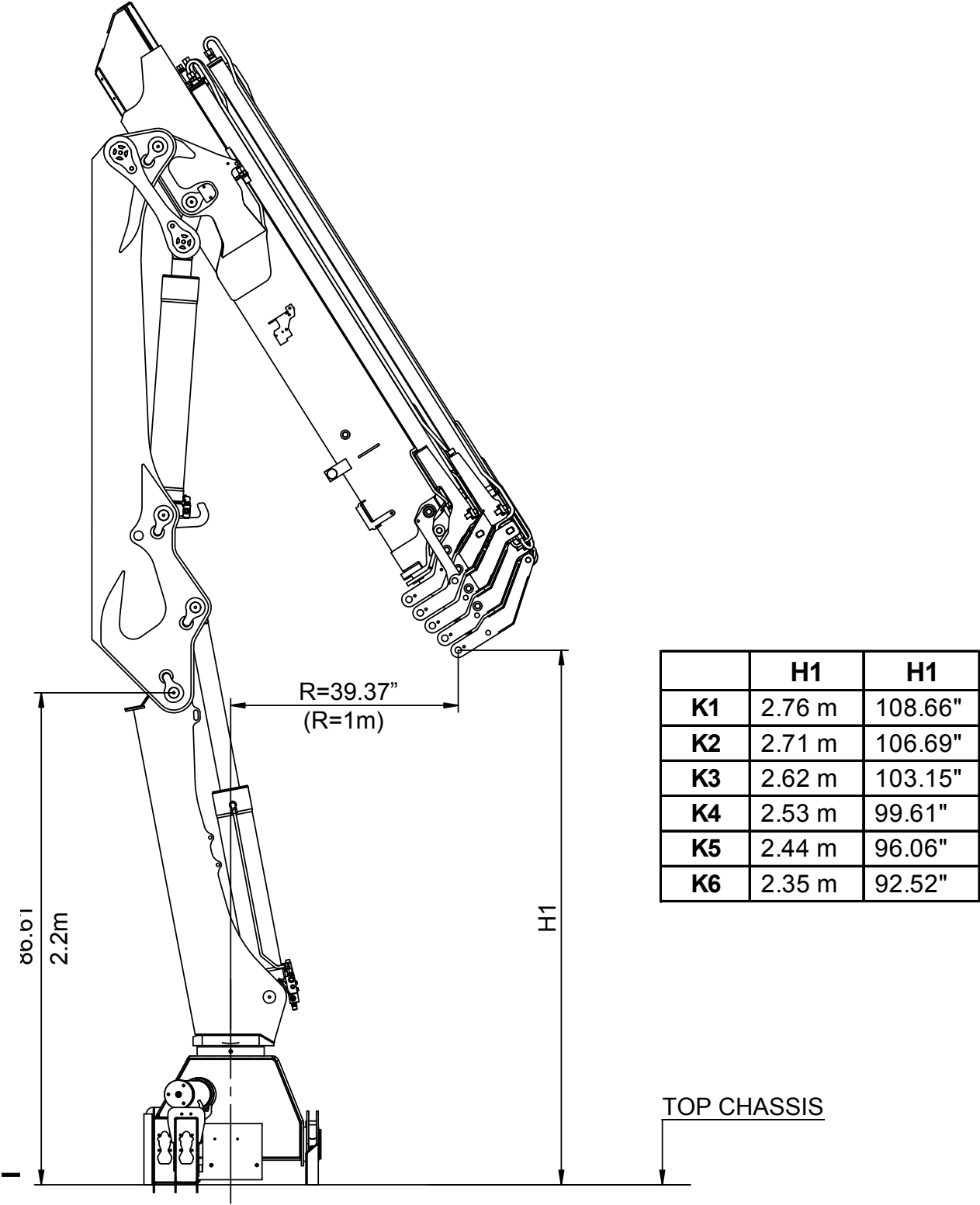
(See Note 2)



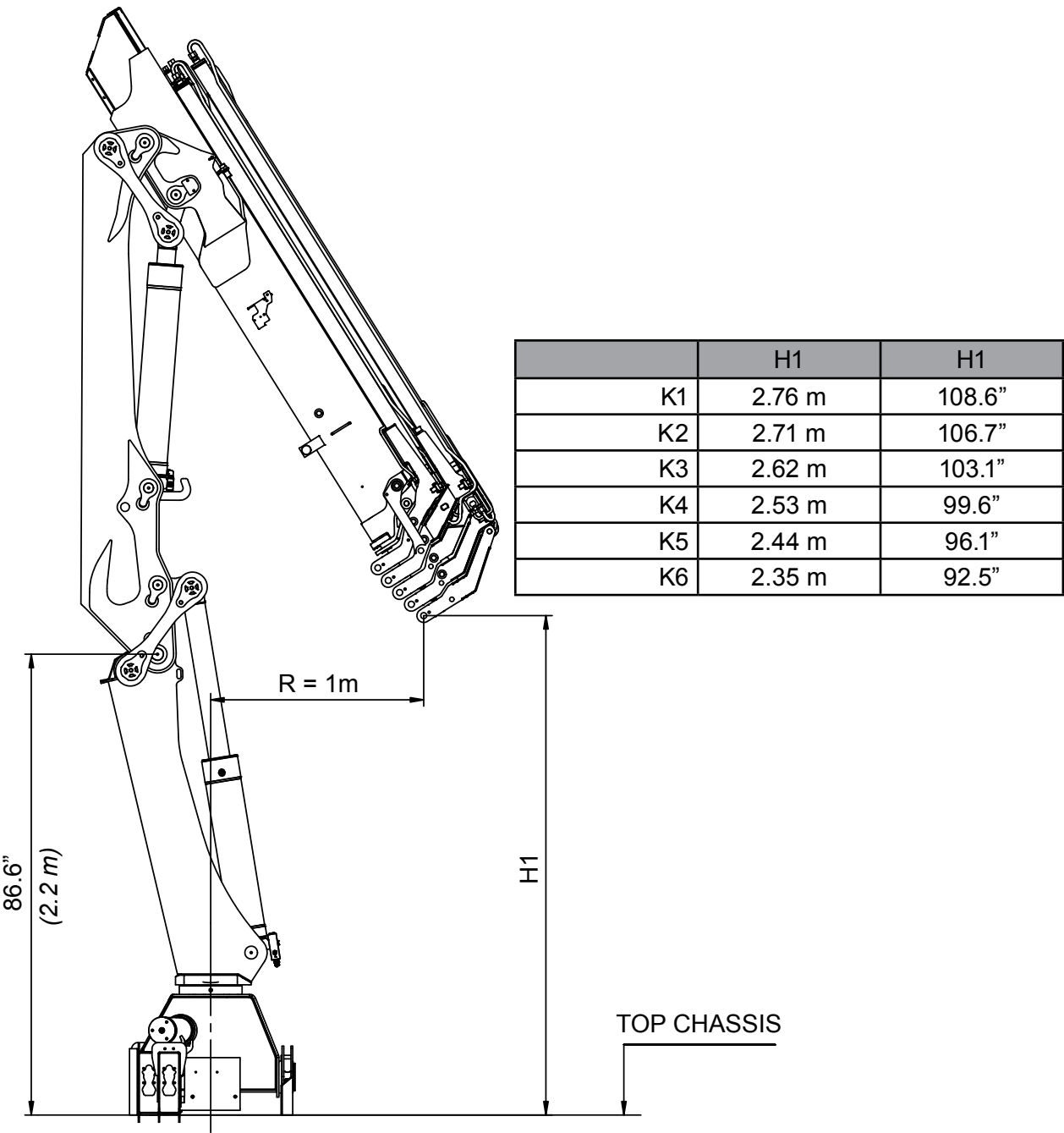
MOUNTING KIT 4 x M30 x 2 BOLTS



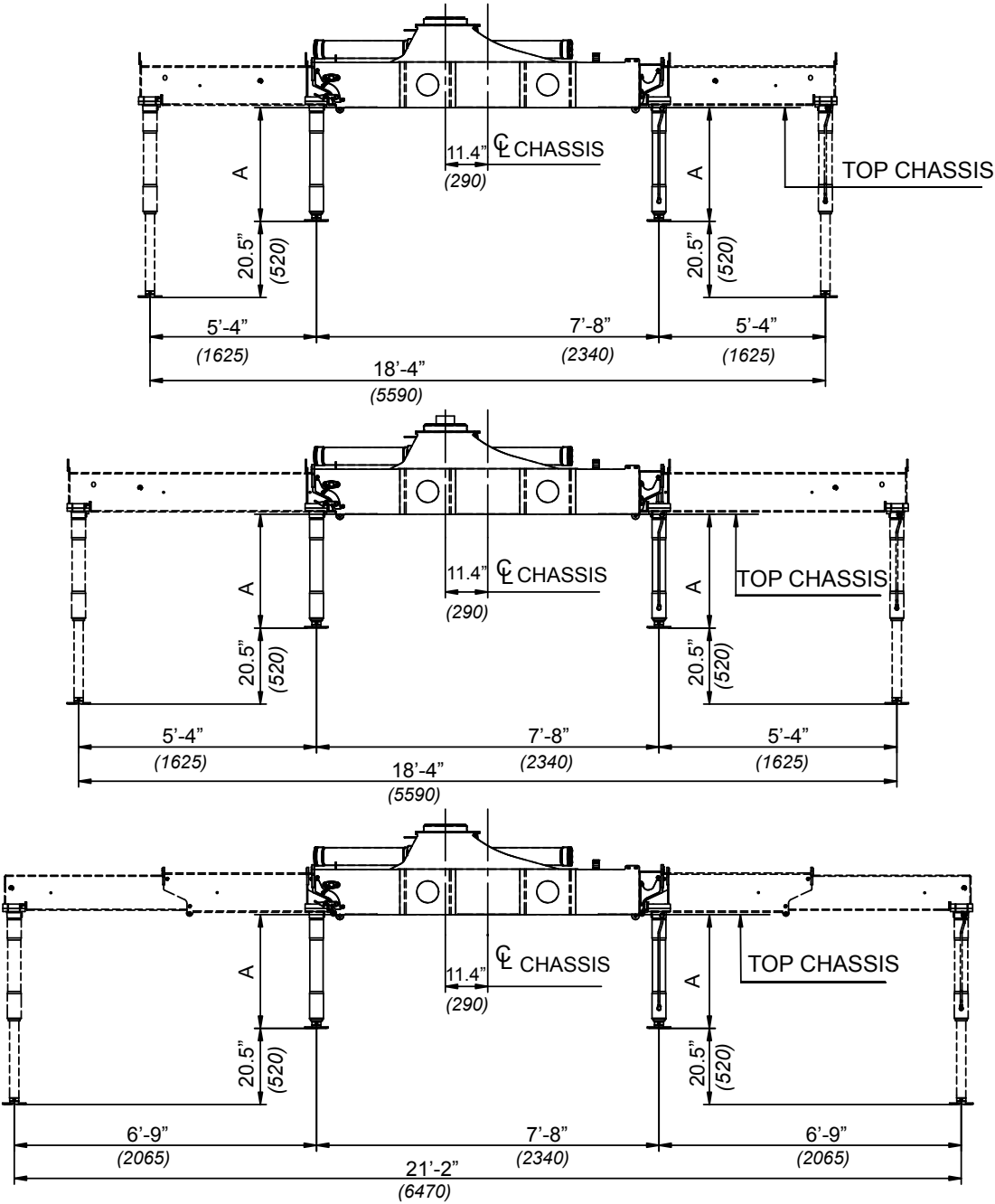
17/117SL - Lifting Height at Column



17/117DL - Lifting Height at Column



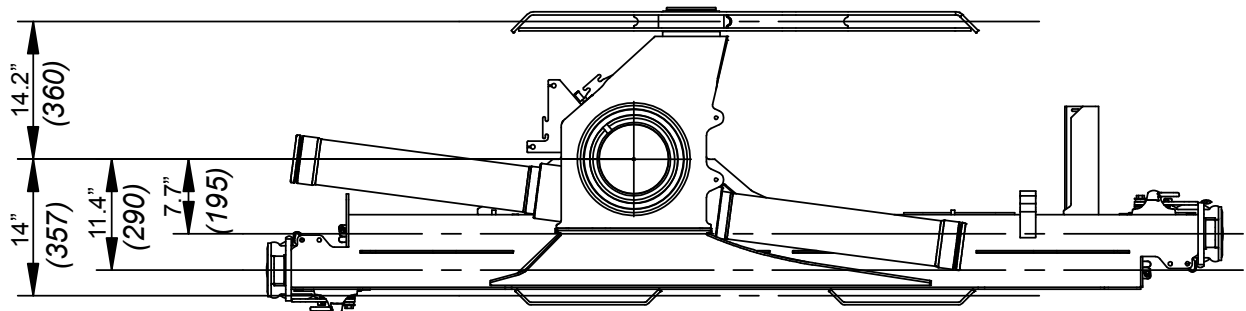
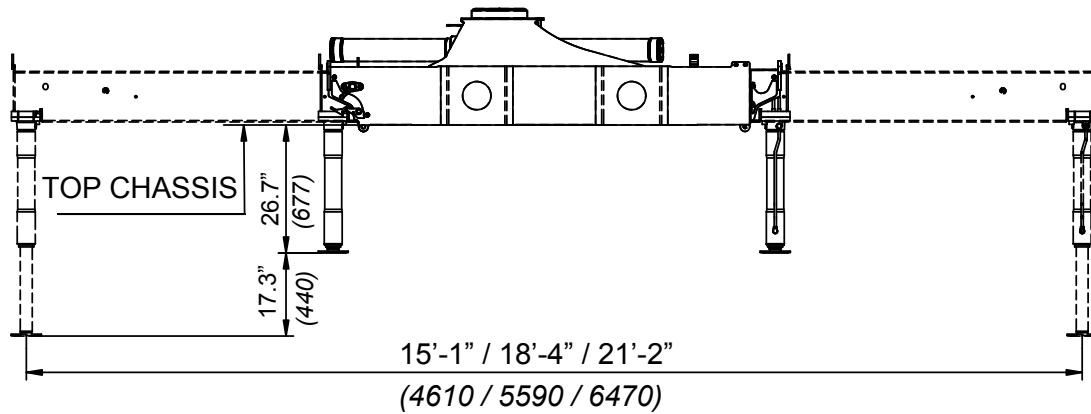
Dimension sketch, fixed stabilizer legs



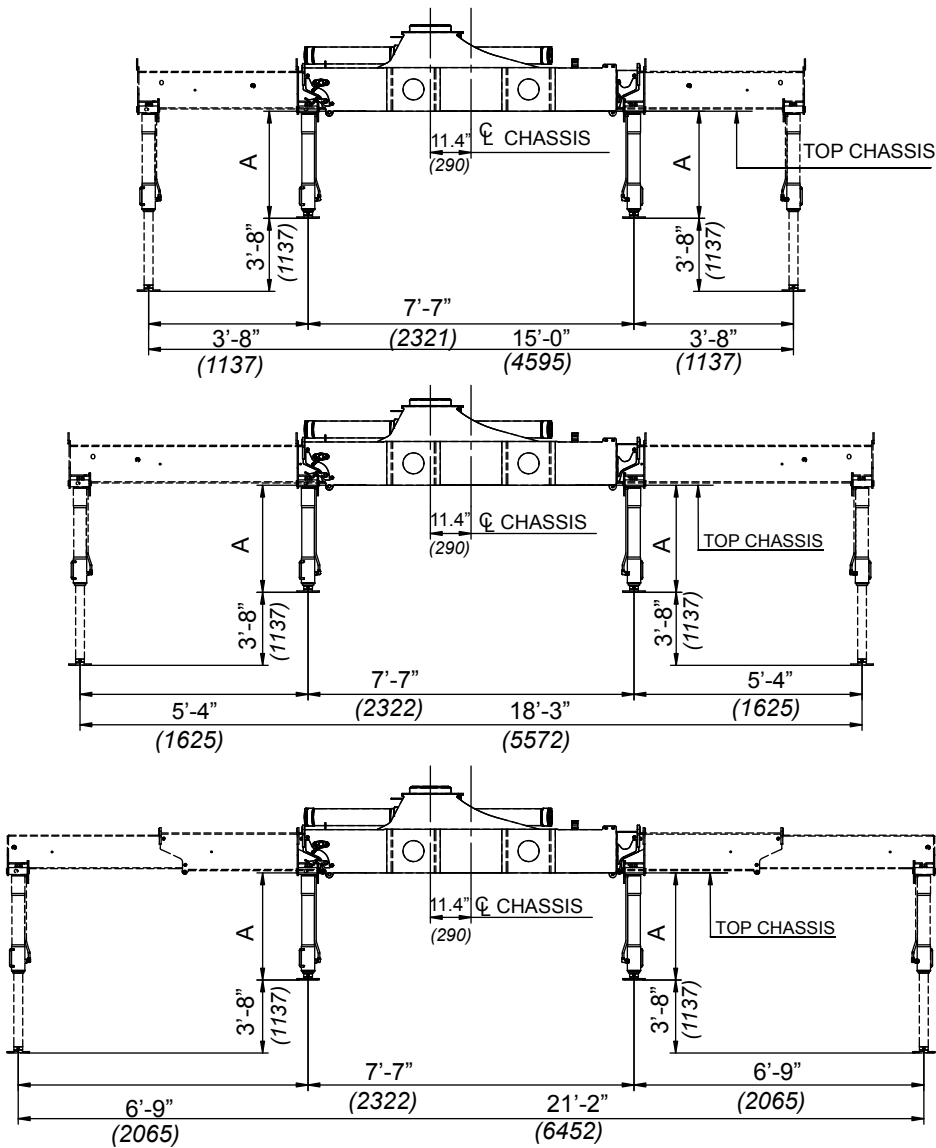
			
A	(777mm)	(877mm)	(977mm)
A	30.6"	34.5"	38.5"

Dimension sketch, fixed stabilizer legs

STABILIZER CYLINDER, C80 - 440



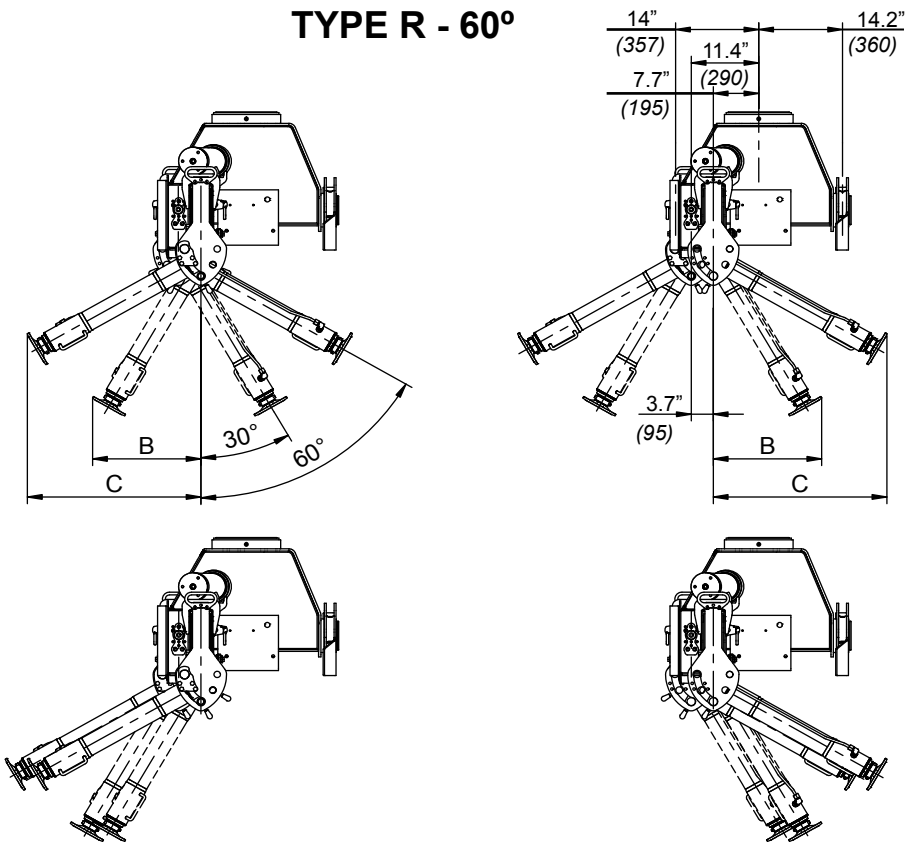
Dimension sketch, swing-up stabilizer legs 20°- 60° (manual)



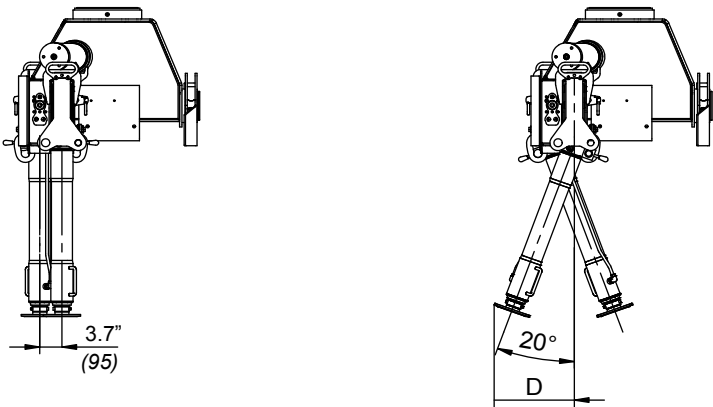
			
A Type R-60°	30.4"	34.3"	38.2"
A Type R-20° (Obsolete)	30.0"	34.0"	38.0"
A Type R-60°	771mm	871mm	971mm
A Type R-20° (Obsolete)	763mm	863mm	963mm

Dimension sketch, swing-up stabilizer legs 20°- 60° (manual)

TYPE R - 60°

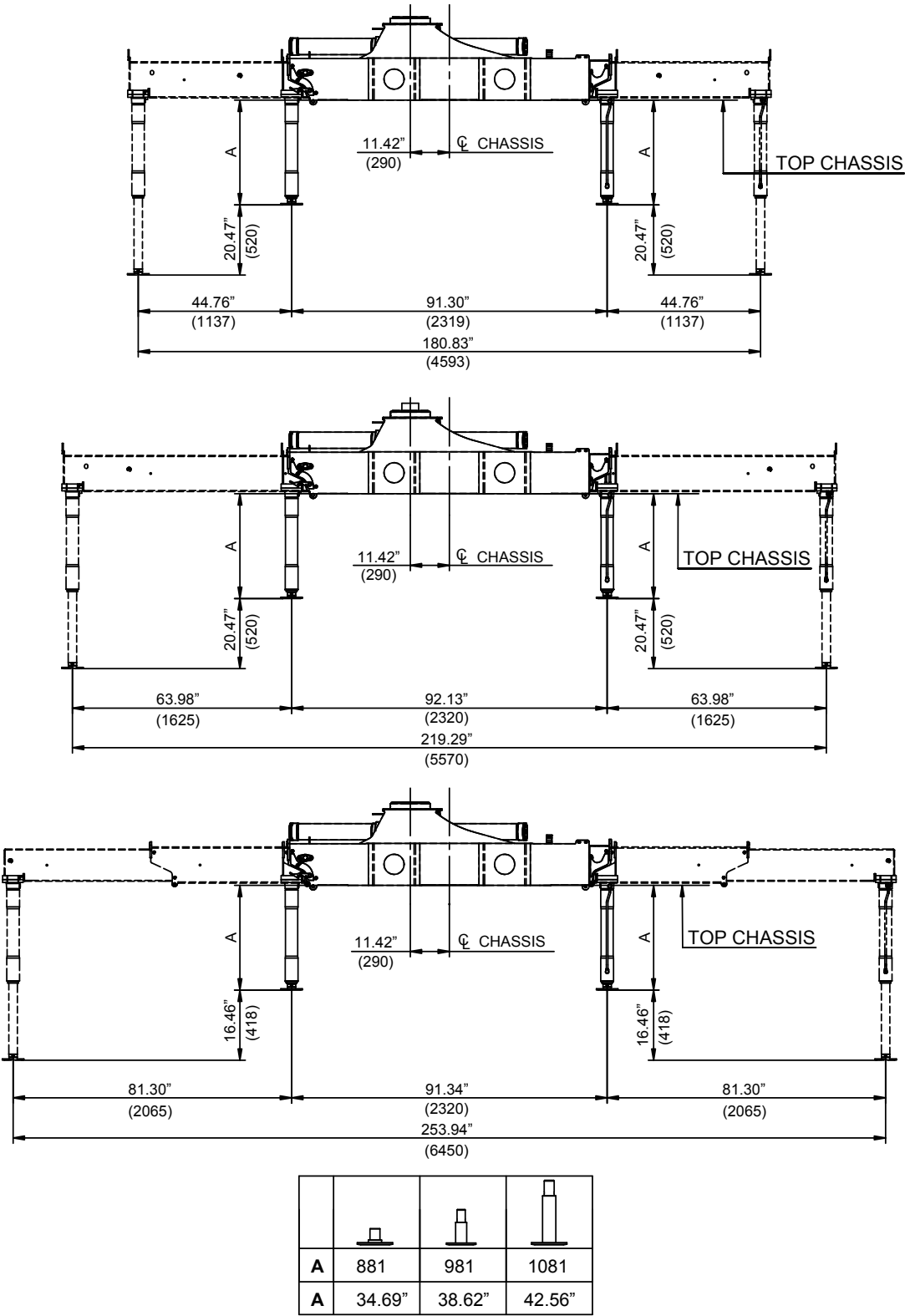


TYPE R - 20° (Obsolete)

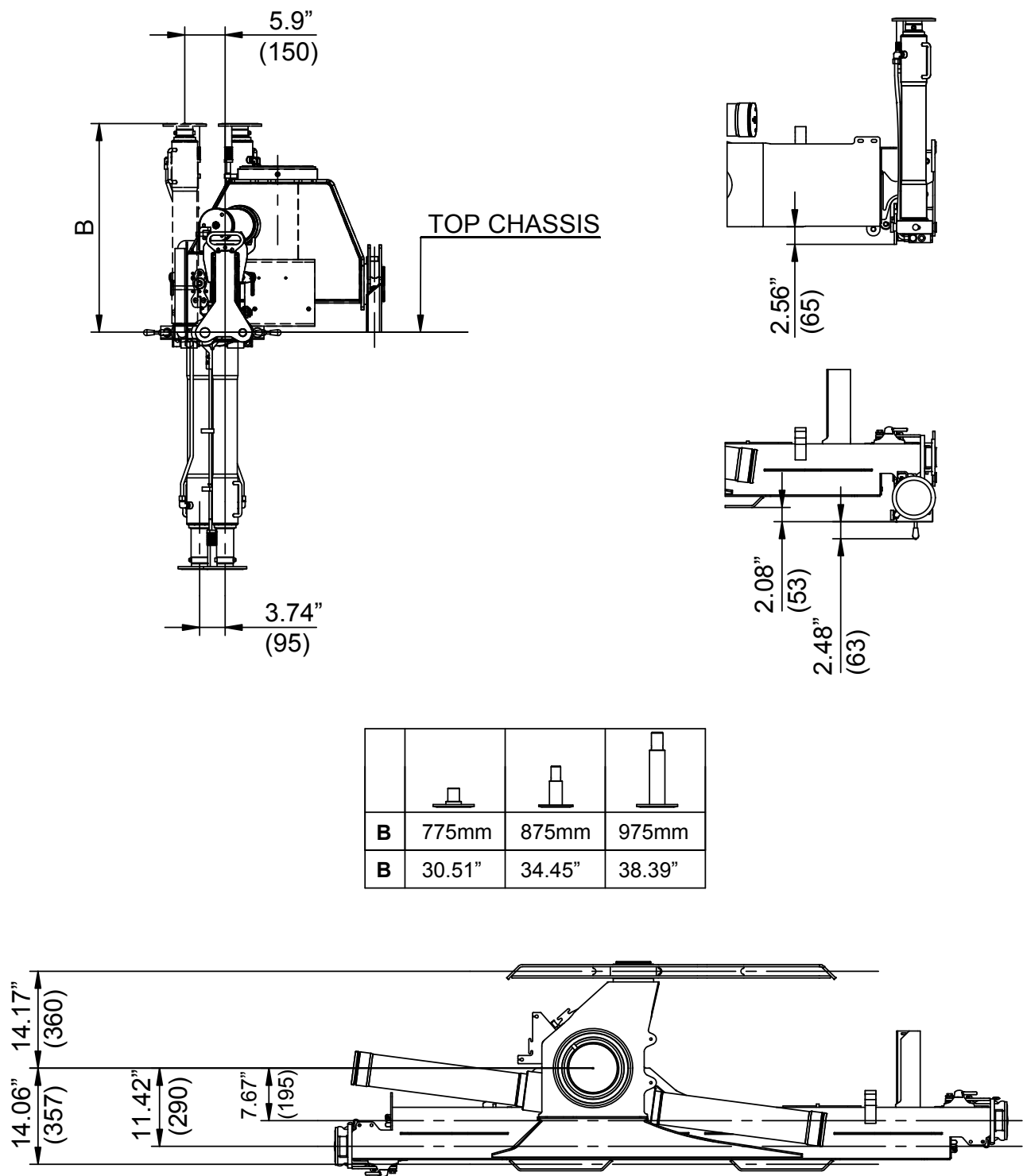


						
B	465mm	515mm	565mm	18.3"	20.3"	22.2"
C	744mm	831mm	918mm	29.3"	32.8"	36.1"
D	344mm	378mm	412mm	13.5"	14.9"	16.2"

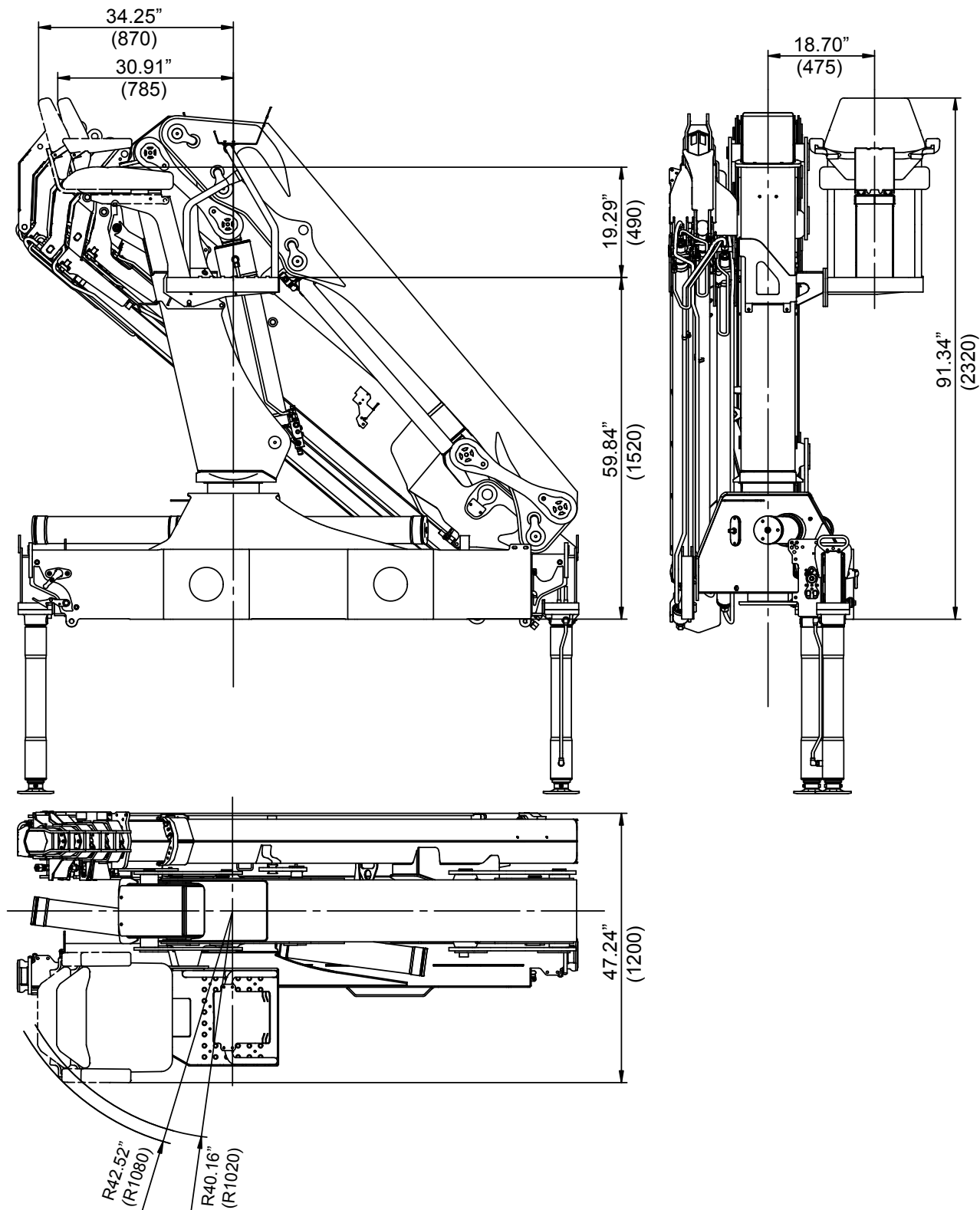
Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)



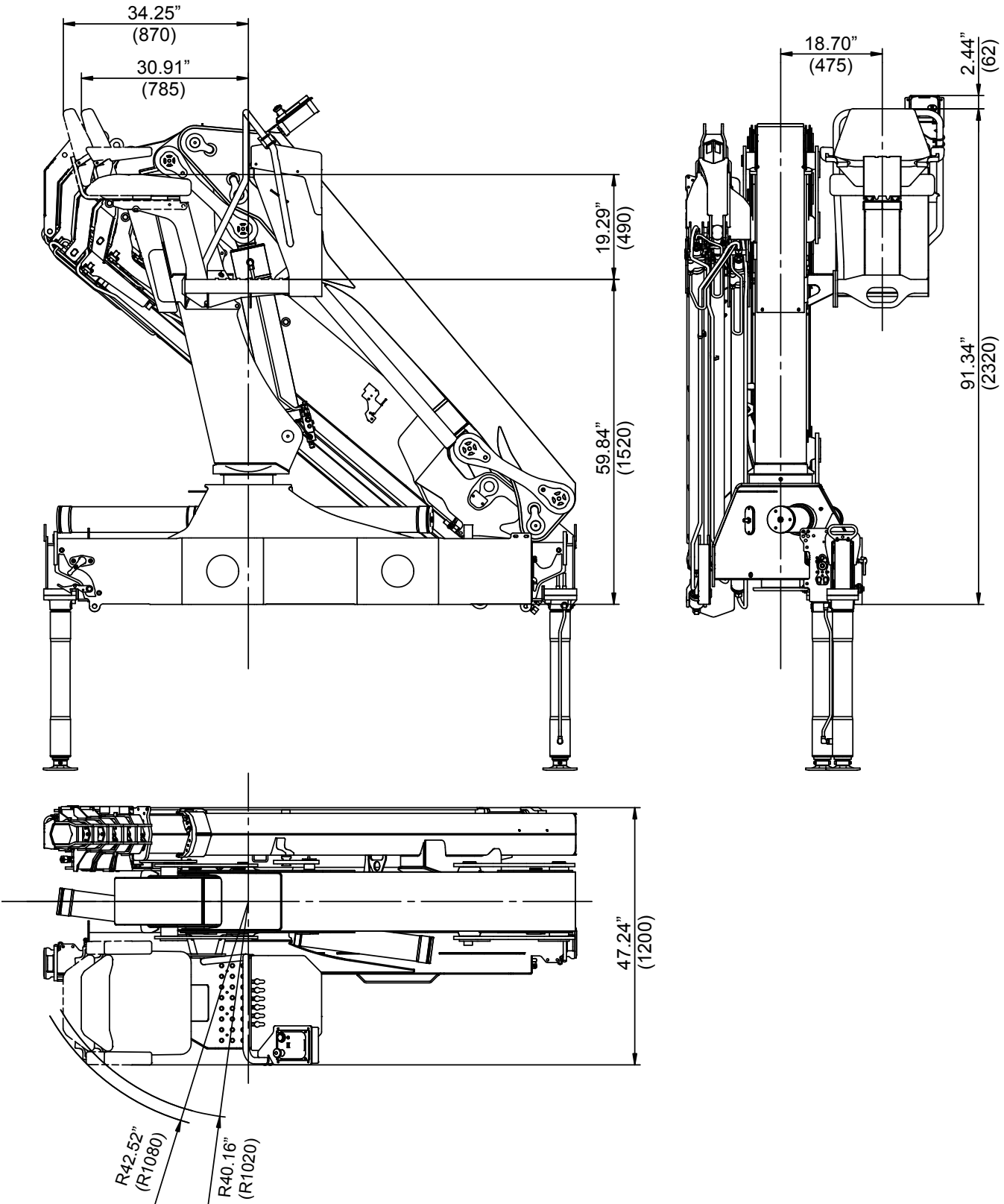
Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)

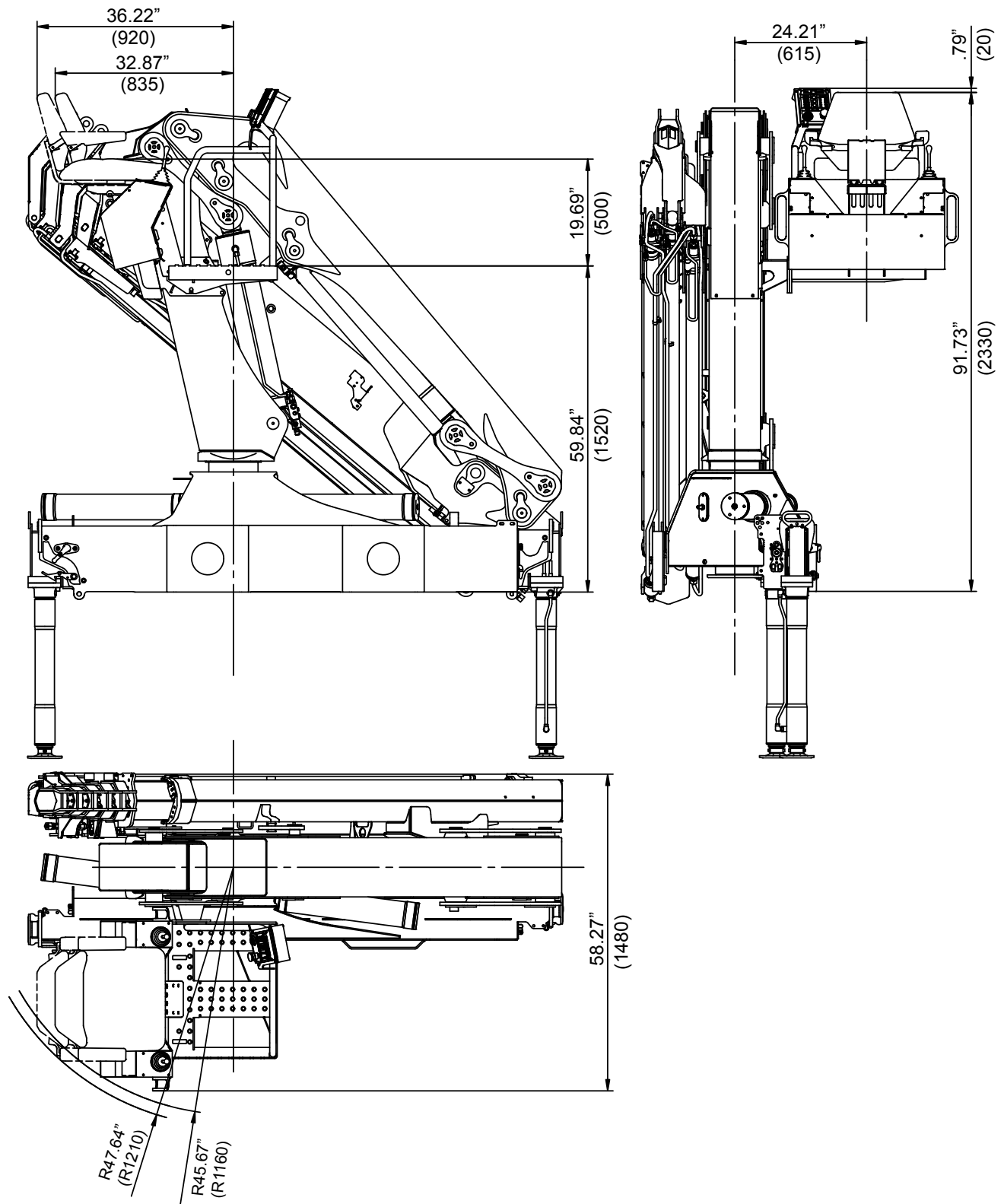


Dimension sketch, TS Top Seat (RC)

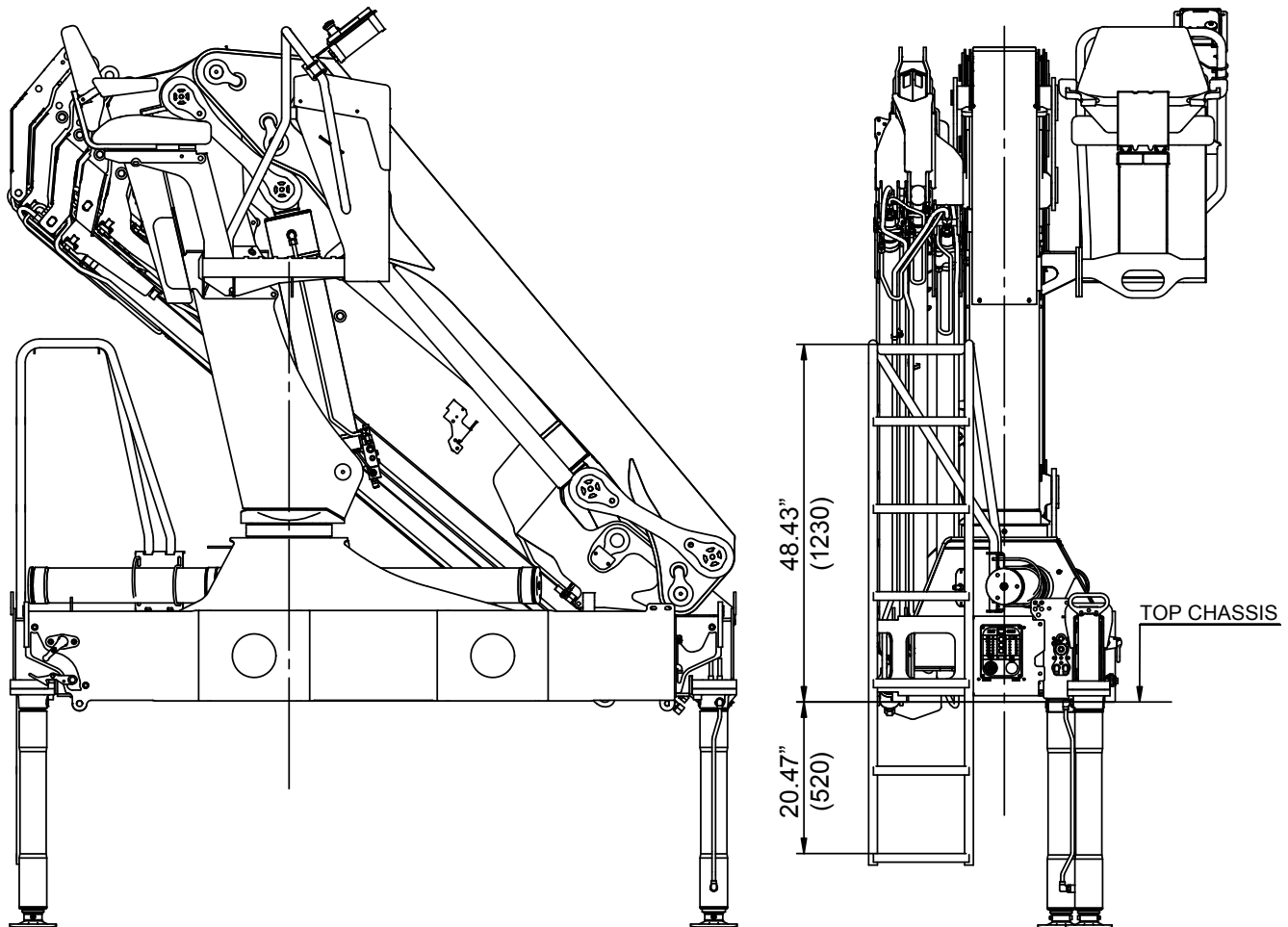


Dimension sketch, TS Top Seat (HC Linear)



Dimension sketch, TS Top Seat (Danfoss X)

Dimension sketch, Ladder for TS



Notes:

- 1) Ladder cannot be used for TS RC
- 2) There is no access to the top seat when the loader is in stowing position

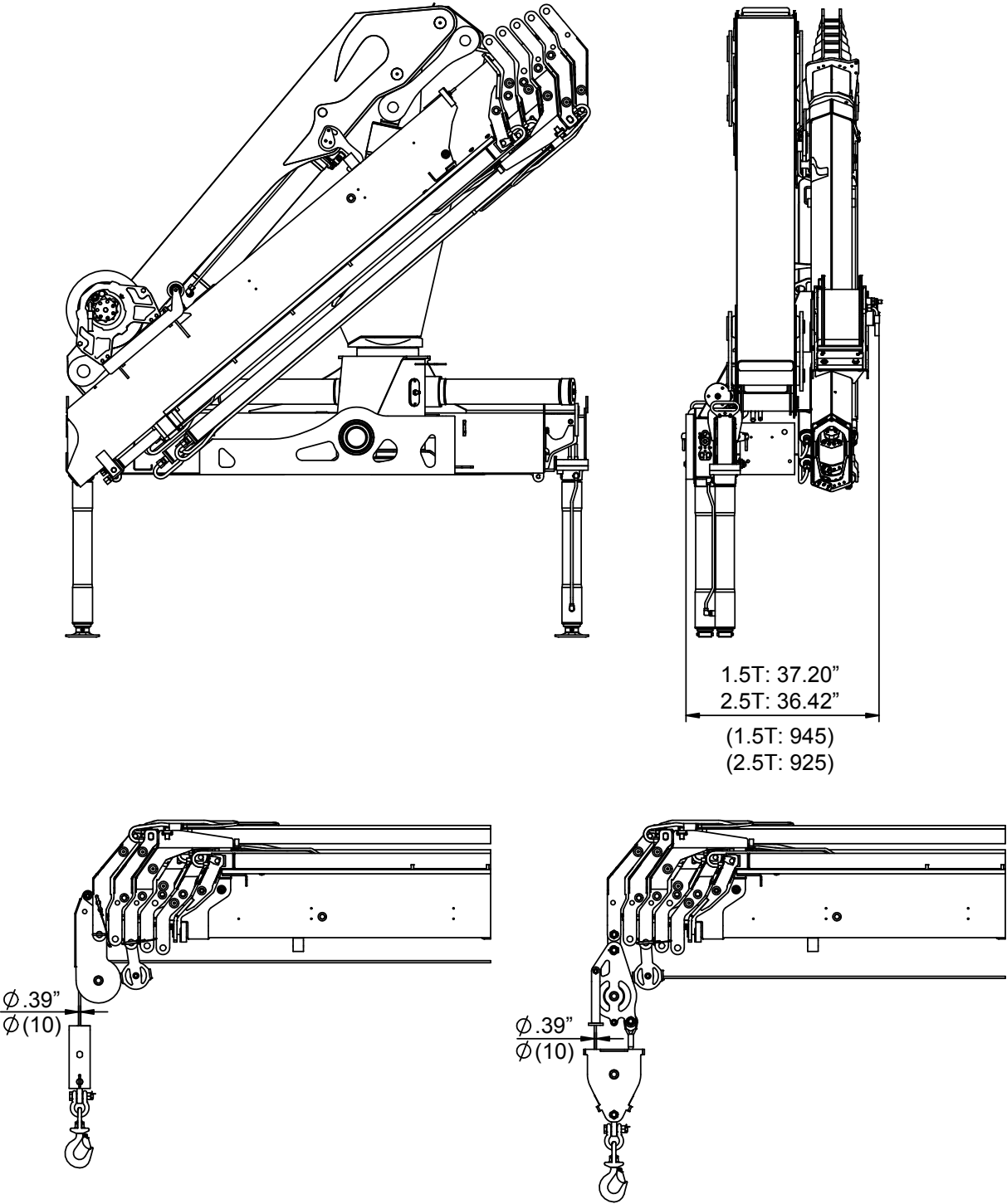
Technical Data, Winch

Performance (at 150 bar) 2176 psi:	1.5T winch	1.5T winch	2.5T winch	2.5T winch
Max. wire pull – 1st layer	1500 kg	3307 lb	2500 kg	5512 lb
Max. wire pull – 2nd layer	1370 kg	3020 lb	2300 kg	5071 lb
Max. wire pull – 3rd layer	1260 kg	2778 lb	2100 kg	4630 lb
Max. wire pull – 4th layer	1170 kg	2579 lb	1950 kg	4299 lb

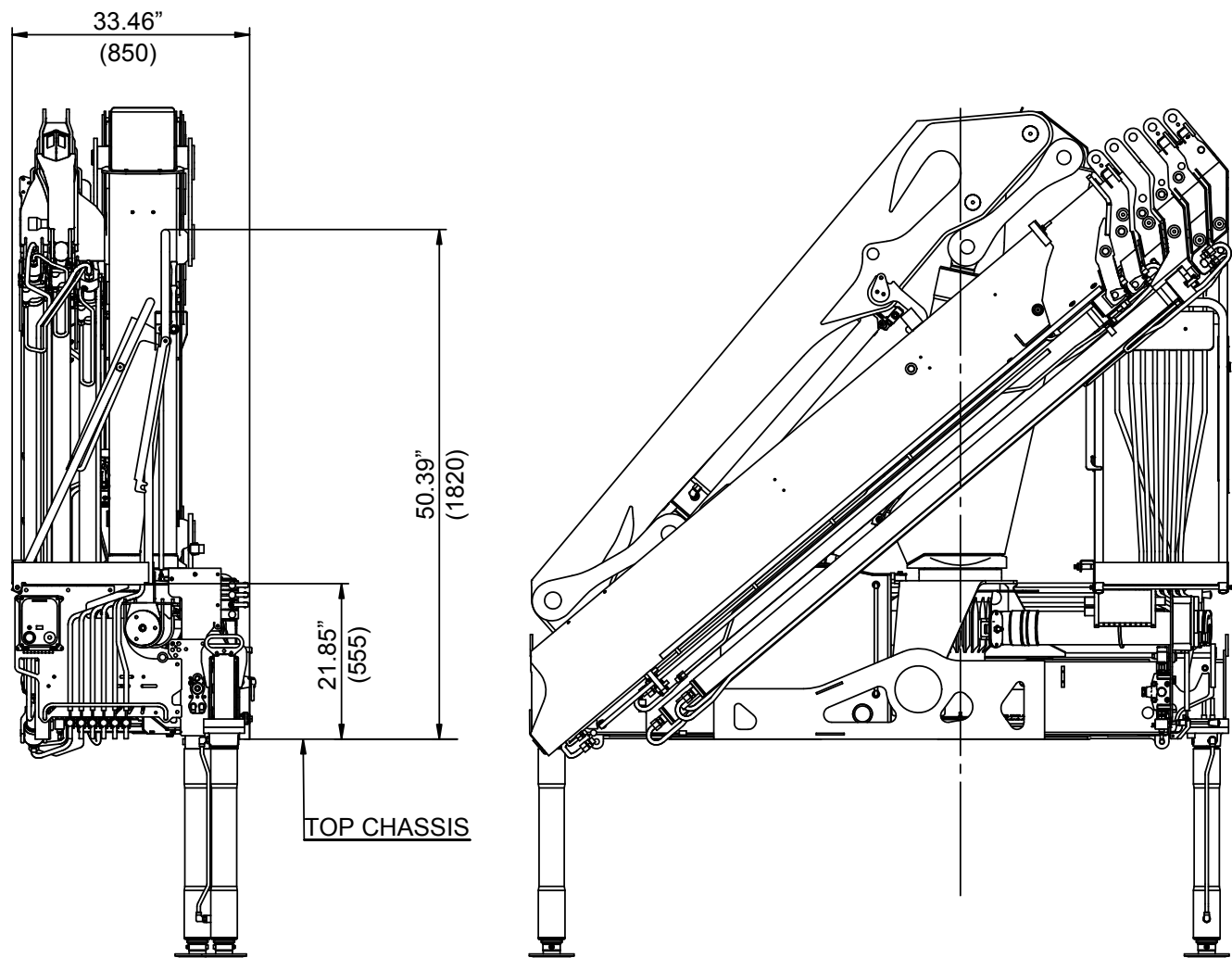
Wire speed (at 40 l/min.) 10.57 gpm:	1.5T winch	1.5T winch	2.5T winch	2.5T winch
Max. wire speed – 1st layer	22 m/min	72'2"/min	24 m/min	78'9"/min
Max. wire speed – 2nd layer	24 m/min	78'9"/min	26 m/min	85'4"/min
Max. wire speed – 3rd layer	26 m/min	85'4"/min	28 m/min	91'/min
Max. wire speed – 4th layer	28 m/min	91'10"/min	30 m/min	98'5"/min

Weights:	1.5T winch	1.5T winch	2.5T winch	2.5T winch
Tare weight, winch (CE)	65 kg	143 lb	90 kg	198 lb
Fixed parts (valve section, brackets, hoses etc)	50 kg	110 lb	50 kg	110 lb
Wire Ø10 x 50 m	30 kg	66 lb	30 kg	66 lb
Spare parts, single snatch block	30 kg	66 lb	30 kg	66 lb
Spare parts, double snatch block	40 kg	88 lb	40 kg	88 lb

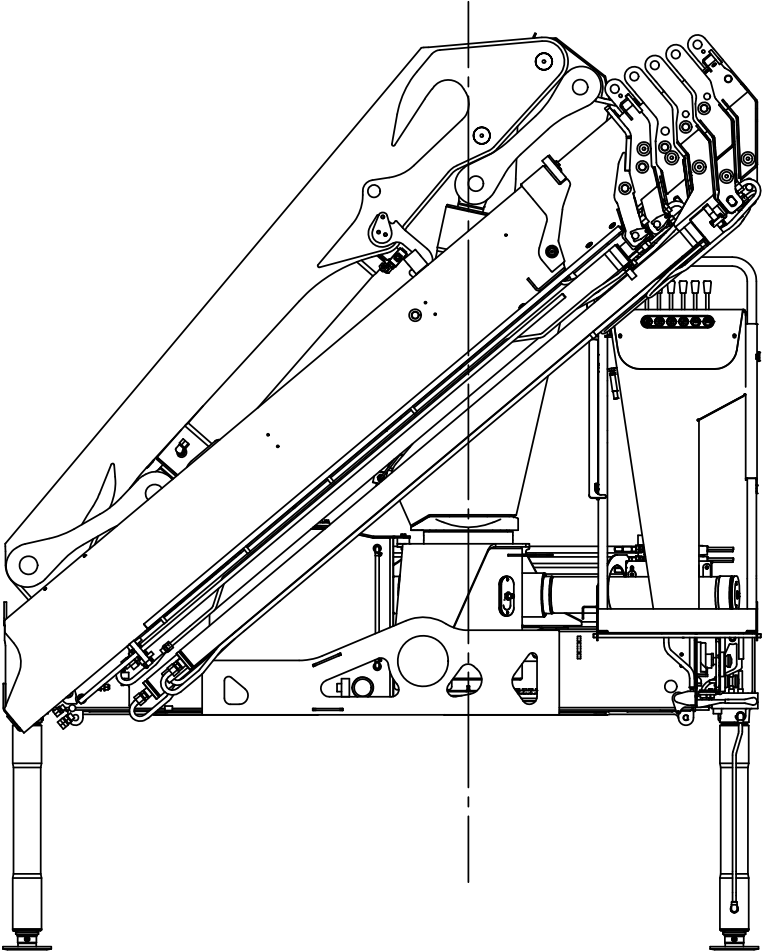
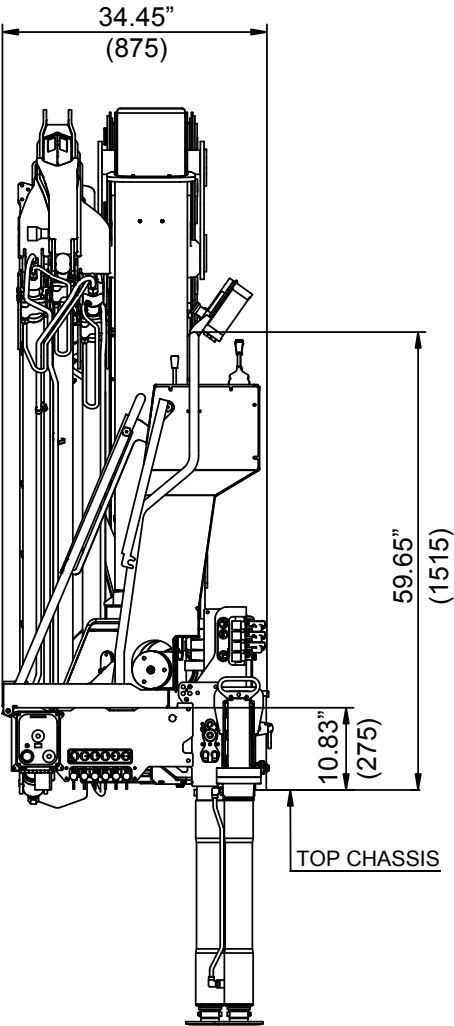
Dimension Sketch, Winch



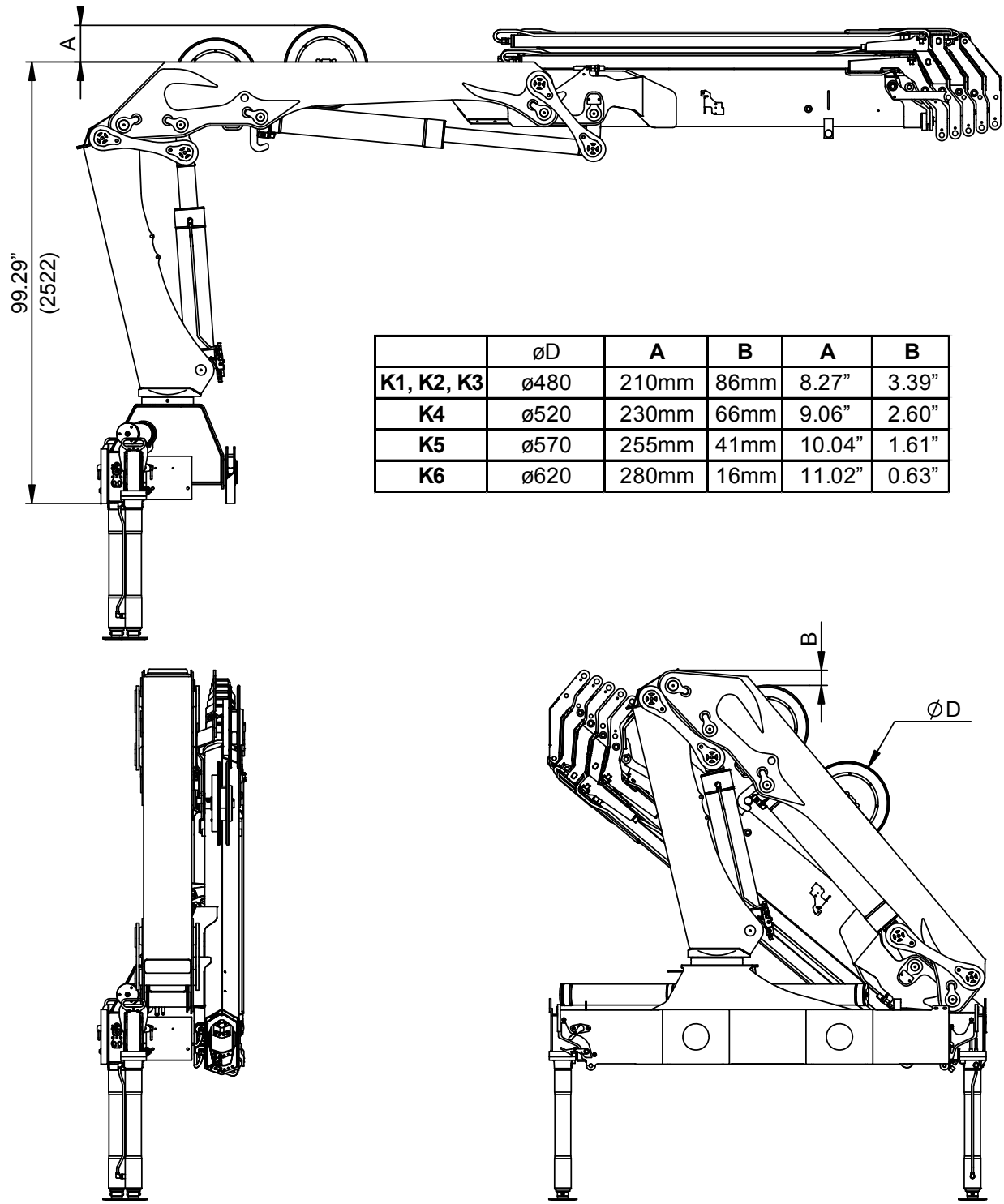
Dimension Sketch, Stand-Up Platform (standard)



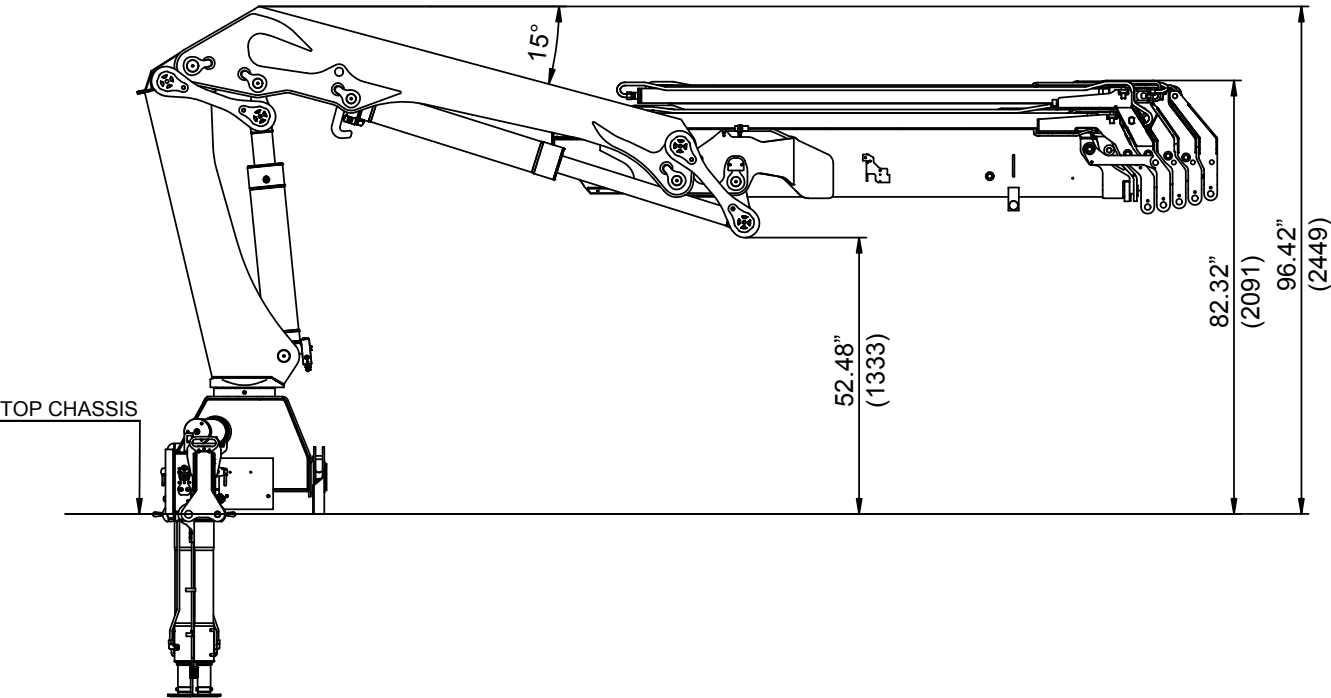
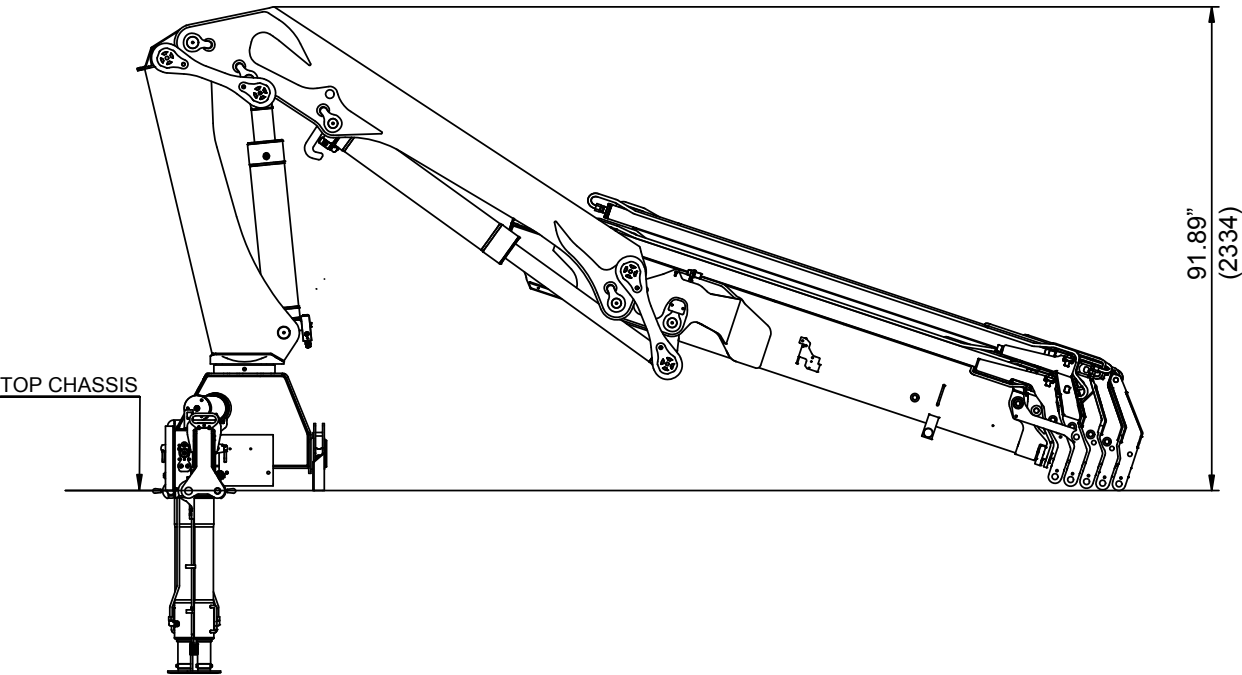
Dimension Sketch, Stand-Up Platform (Valve Control)



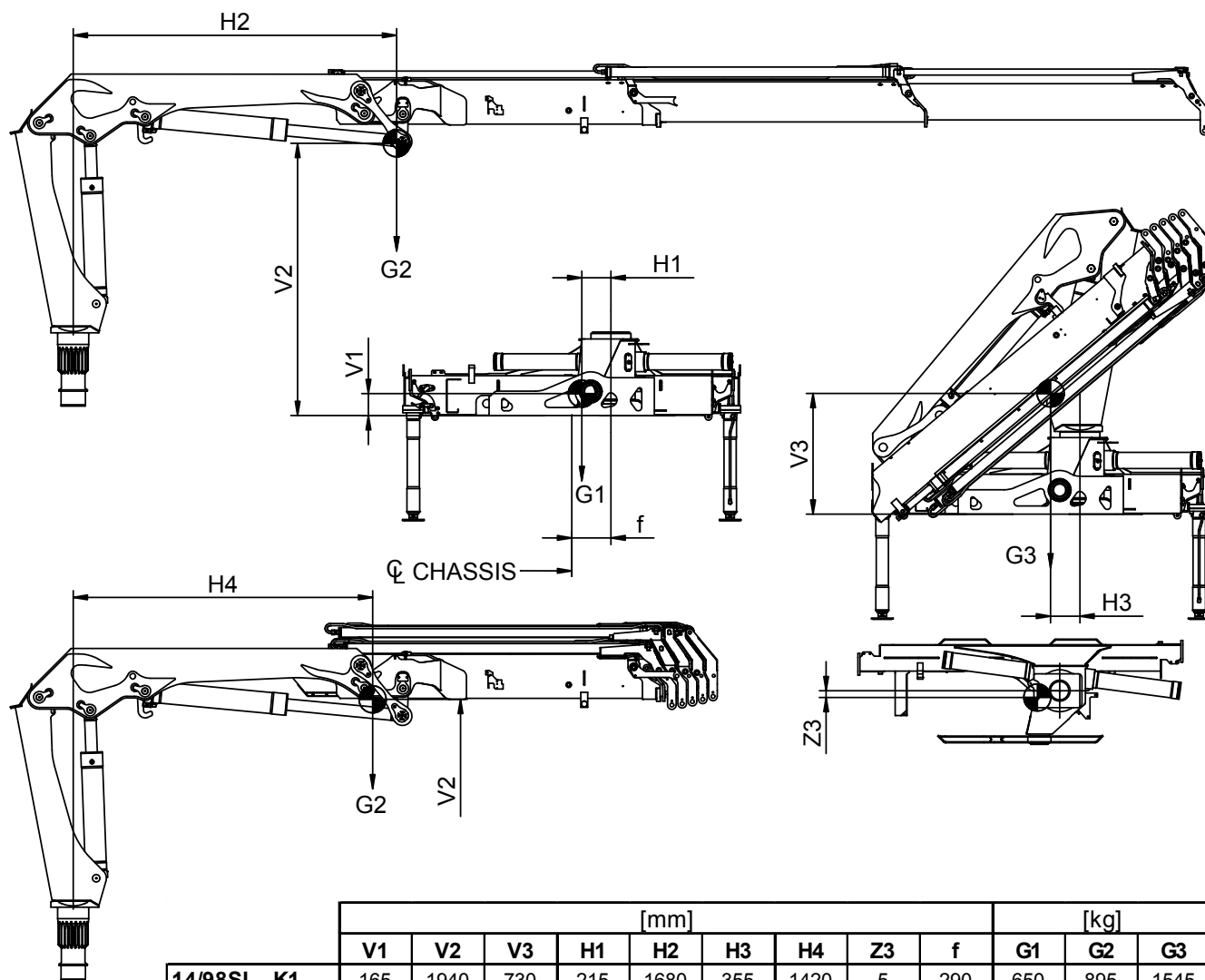
Dimension Sketch, Internal Hose Routing



Stowed in Truck Body



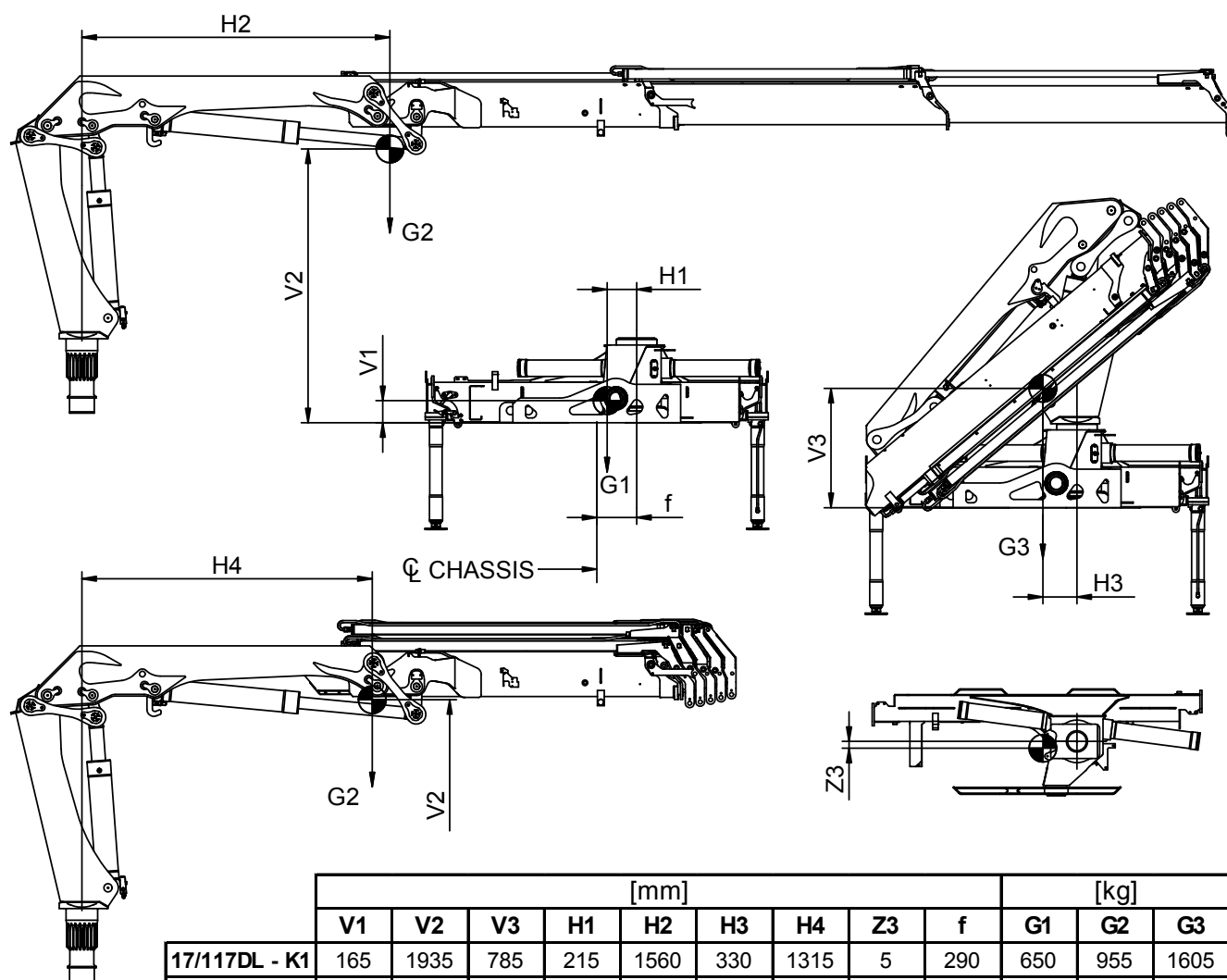
17/117SL - Centers of Gravity



	[mm]									[kg]		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
14/98SL - K1	165	1940	730	215	1680	355	1420	5	290	650	895	1545
14/98SL - K2	165	2000	755	215	2390	350	1665	30	290	650	1040	1690
14/98SL - K3	165	2045	780	215	3145	335	1850	45	290	650	1180	1830
14/98SL - K4	165	2080	805	215	3940	320	2000	60	290	650	1310	1960
14/98SL - K5	165	2100	825	215	4695	305	2115	75	290	650	1420	2070
14/98SL - K6	165	2120	840	215	5340	290	2200	85	290	650	1525	2175

	[in]									[lbs]		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
14/98SL - K1	6.50	76.38	28.74	8.46	66.14	13.98	55.91	0.20	11.42	1433	1973	3406
14/98SL - K2	6.50	78.74	29.72	8.46	94.09	13.78	65.55	1.18	11.42	1433	2293	3726
14/98SL - K3	6.50	80.51	30.71	8.46	123.82	13.19	72.83	1.77	11.42	1433	2601	4034
14/98SL - K4	6.50	81.89	31.69	8.46	155.12	12.60	78.74	2.36	11.42	1433	2888	4321
14/98SL - K5	6.50	82.68	32.48	8.46	184.84	12.01	83.27	2.95	11.42	1433	3131	4564
14/98SL - K6	6.50	83.46	33.07	8.46	210.24	11.42	86.61	3.35	11.42	1433	3362	4795

17/117DL - Centers of Gravity



	[mm]									[kg]		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
17/117DL - K1	165	1935	785	215	1560	330	1315	5	290	650	955	1605
17/117DL - K2	165	1995	800	215	2245	325	1560	10	290	650	1100	1750
17/117DL - K3	165	2040	820	215	2980	315	1750	25	290	650	1240	1890
17/117DL - K4	165	2070	835	215	3755	305	1900	40	290	650	1370	2020
17/117DL - K5	165	2095	850	215	4495	300	2020	55	290	650	1480	2130
17/117DL - K6	165	2115	860	215	5130	280	2105	60	290	650	1585	2235

	[in]									[lbs]		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
17/117DL - K1	6.50	76.18	30.91	8.46	61.42	12.99	51.77	0.20	11.42	1433	2105	3538
17/117DL - K2	6.50	78.54	31.50	8.46	88.39	12.80	61.42	0.39	11.42	1433	2425	3858
17/117DL - K3	6.50	80.31	32.28	8.46	117.32	12.40	68.90	0.98	11.42	1433	2734	4167
17/117DL - K4	6.50	81.50	32.87	8.46	147.83	12.01	74.80	1.57	11.42	1433	3020	4453
17/117DL - K5	6.50	82.48	33.46	8.46	176.97	11.81	79.53	2.17	11.42	1433	3263	4696
17/117DL - K6	6.50	83.27	33.86	8.46	201.97	11.02	82.87	2.36	11.42	1433	3494	4927



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