



IOWA MOLD TOOLING CO., INC.

P.O. Box 189
Garner, IA 50438
Tel: 641.923.3711
Fax: 641.923.2424
www.imt.com

Manual # 99906442

1910 / 1920 RCS Technical Specifications

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1910 - RCS Technical Specifications

Section - 1

1910 - RCS Technical 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	131641	127301	124408	121514	118621	116451	
Hydraulic reach	ft	20'8"	27'5"	34'6"	42'0"	49'3"	56'9"	
Hydraulic telescopic movement	in	6'3"	12'11"	19'9"	27'0"	34'1"	41'3"	
Lifting capacity, hydraulic	lb-ft	9283-14'1"	8996-14'1"	8622-14'5"	8269-14'9"	7960-15'1"	7651-15'1"	
		6439-20'4"	6152-20'6"	5821-20'8"	5535-21'0"	5270-21'3"	5027-21'8"	
			4653-27'2"	4344-27'3"	4057-27'7"	3815-27'10"	3594-28'3"	
				3440-34'1"	3153-34'5"	2911-34'9"	2712-35'1"	
					2580-41'8"	2337-41'11"	2139-42'2"	
						1985-48'11"	1786-49'4"	
							1544-56'5"	
Lifting capacity, manual extensions	lb-ft		3550 - 34'1"	2690 - 41.8"	2051-49'2"	1632-56'5"	1103-64'3"	
Slewing torque, gross	lb-ft	12989						
Slewing angle	°	400°						
Max. heel at max. load moment	°	5						
Slewing speed	°/s	24						
Dimensions		Unit	K1	K2	K3	K4	K5	K6
Height above chassis		in	7'4"					
Width		in	8'2"					
Width with extra valves (int. hose routing)		in	8'3'					
Length, no extra valves		in	2'8"					
Length, with extra valves (hose guides)		in	3'1"					
Length, with extra valves (int. hose routing)		in	2'8"					
Stabilizer spread, S1 (standard)		in	15'1"					
Stabilizer spread, S2		in	18'4"					
Stabilizer spread, D		in	21'2"					

Minimum Chassis Specs

Front Axle Rating (GAWR)	12000 lb (5450 kg)
Rear Axle Rating (GAWR)	21,000 lb (9530 kg)
Resistance to Bending Moment	1,755,000 in-lb (20.225 kg-m)

Weights ± 5% because of tolerances for plate thickness

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	lb	3021	3309	3638	3936	4201	4410
Stabilizers, S1 fixed	lb	441					
Stabilizers, S1 swing-up	lb	452					
Stabilizers, S1 hydr. swing-up	lb	474					
Stabilizers, S2 fixed	lb	518					
Stabilizers, S2 swing-up	lb	529					
Stabilizers, S2 hydr. swing-up	lb	551					
Stabilizers, D1 fixed	lb	662					
Stabilizers, D swing-up	lb	662					
Stabilizers, D1 hydr. swing-up	lb	695					
Mounting kit, 4 bolts	lb	121					
Mounting kit, 8 bolts	lb	132					
Tank, excl. oil (fitted on loader)	lb	99					
Manual Extensions	lb		187	165	143	99	88
Oil in loader (stowing position)	lb	66	77	88	99	110	110
Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	lb	132					
Stand-up controls (HS), direct valve control	lb	154					
Top seat (TS)	lb	198					
Top seat, ladder	bl	44					
1 extra valve, hose routing	lb	88	121	143	165	187	209
1 extra valve, int. hose routing	lb	165	165	165	176	176	187
2 extra valves, hose guides	lb	132	165	198	232	265	298
2 extra valves, int. hose routing	lb	287	287	087	309	320	353
Winch (1.5 t), single snatch block	lb	386	386	386	386	386	397
Winch (1.5 t), double snatch block	lb	375	375	375	375	375	386
Winch (2.5 t), single snatch block	lb	441	441	441	441	441	451
Winch (2.5 t), double snatch block	lb	430	430	430	430	430	441
High-pressure filter	lb	15					
Oil cooler	lb	55					
Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	ft-lb	19108					
S1, swing-up	ft-lb	19108					
S1, hydr. swing-up	ft-lb	19108					
S2, fixed	ft-lb	19108					
S2, swing-up	ft-lb	19108					
S2, hydr. swing-up	ft-lb	19108					
D, fixed	ft-lb	15287					
D, swing-up	ft-lb	15287					
D, hydr. swing-up	ft-lb	15287					
Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	psi	4786					
Tank capacity (fitted on loader)	gal	24					

1910 - RCS Technical Specifications-Metric

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	18.2	17.6	17.2	16.8	16.4	16.1	
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	4210-4.3	4080-4.3	3910-4.4	3750-4.5	3610-4.6	3470-4.6	
		2920-6.2	2790-6.3	2640-6.3	2510-6.4	2390-6.5	2280-6.6	
			2110-8.3	1970-8.3	1840-8.4	1730-8.5	1630-8.6	
				1560-10.4	1430-10.5	1320-10.6	1230-10.7	
					1170-12.7	1060-12.8	970-12.9	
						900-14.9	810-16	
							700-17.2	
Lifting capacity, manual extensions	kg-m		1610-10.4	1220-12.7	930-15	740-17.2	500-19.6	
Slewing torque, gross	kNm	17.6						
Slewing angle	°	400°						
Max. heel at max. load moment	°	5						
Slewing speed	°/s	24						
Dimensions		Unit	K1	K2	K3	K4	K5	K6
Height above chassis		mm	2250					
Width		mm	2500					
Width with extra valves (int. hose routing)		mm	2535					
Length, no extra valves		mm	830					
Length, with extra valves (hose guides)		mm	950					
Length, with extra valves (int. hose routing)		mm	830					
Stabilizer spread, S1 (standard)		mm	4615					
Stabilizer spread, S2		mm	5590					
Stabilizer spread, D		mm	6470					
Minimum Chassis Specs								
Front Axle Rating (GAWR)				12000 lb (5450 kg)				
Rear Axle Rating (GAWR)				21,000 lb (9530 kg)				
Resistance to Bending Moment				1,755,000 in-lb (20.225 kg-m)				

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					
Stabilizers, S1 swing-up	kg	205					
Stabilizers, S1 hydr. swing-up	kg	215					
Stabilizers, S2 fixed	kg	235					
Stabilizers, S2 swing-up	kg	240					
Stabilizers, S2 hydr. swing-up	kg	250					
Stabilizers, D1 fixed	kg	300					
Stabilizers, D fixed	kg	300					
Stabilizers, D1 hydr. swing-up	kg	315					
Mounting kit, 4 bolts	kg	55					
Mounting kit, 8 bolts	kg	60					
Tank, excl. oil (fitted on loader)	kg	45					
Manual Extensions	kg		85	75	65	45	40
Oil in loader (stowing position)	kg	30	35	40	45	50	50
Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	kg	60					
Stand-up controls (HS), direct valve control	kg	70					
Top seat (TS)	kg	90					
Top seat, ladder	kg	20					
1 extra valve, hose routing	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					
Oil cooler	kg	25					
Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	kN	85					
S1, swing-up	kN	85					
S1, hydr. swing-up	kN	85					
S2, fixed	kN	85					
S2, swing-up	kN	85					
S2, hydr. swing-up	kN	85					
D, fixed	kN	63					
D, swing-up	kN	63					
D, hydr. swing-up	kN	63					
Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	Bar	365					
Tank capacity (fitted on loader)	L	90					

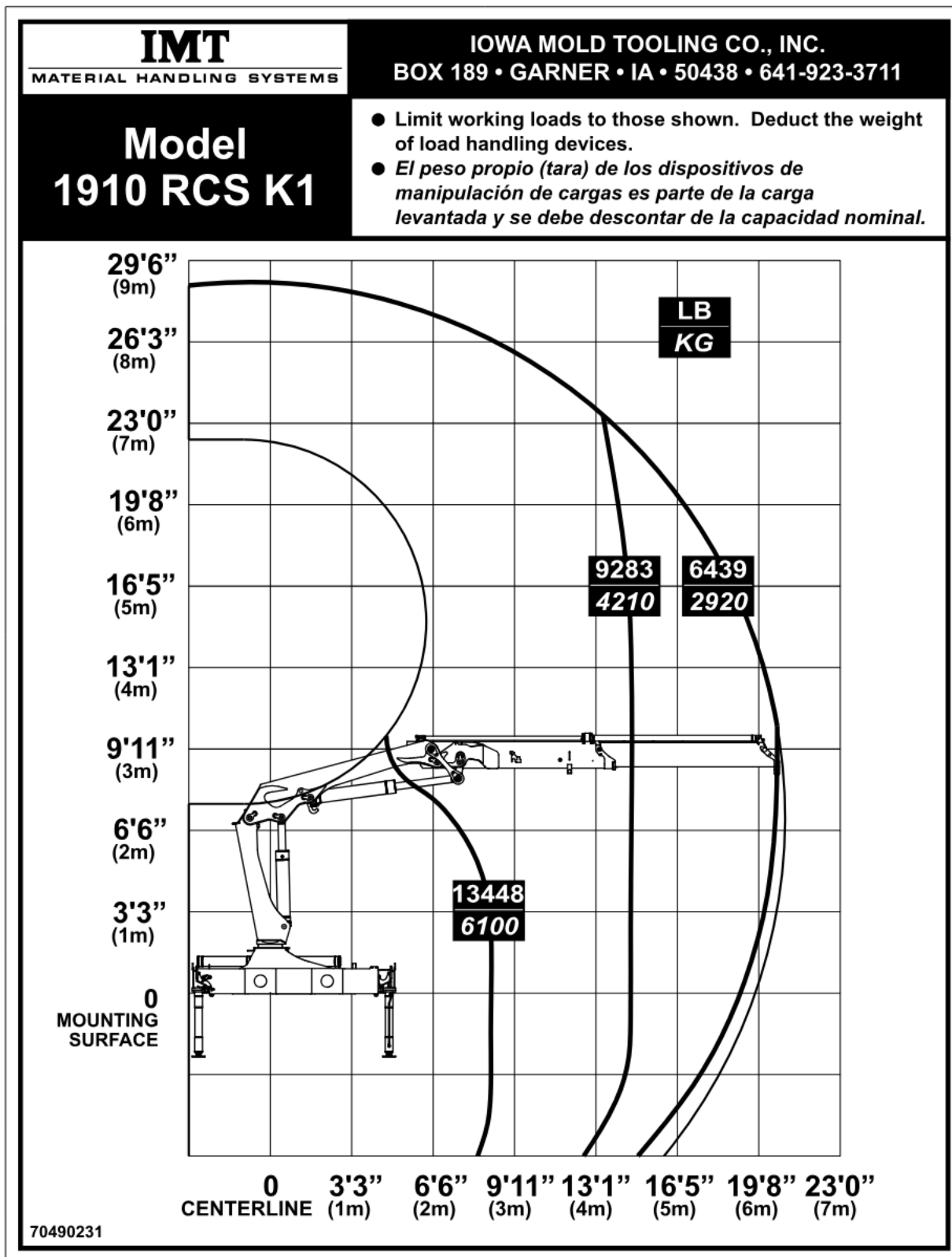
Weights ± 5% because of tolerances for plate thickness

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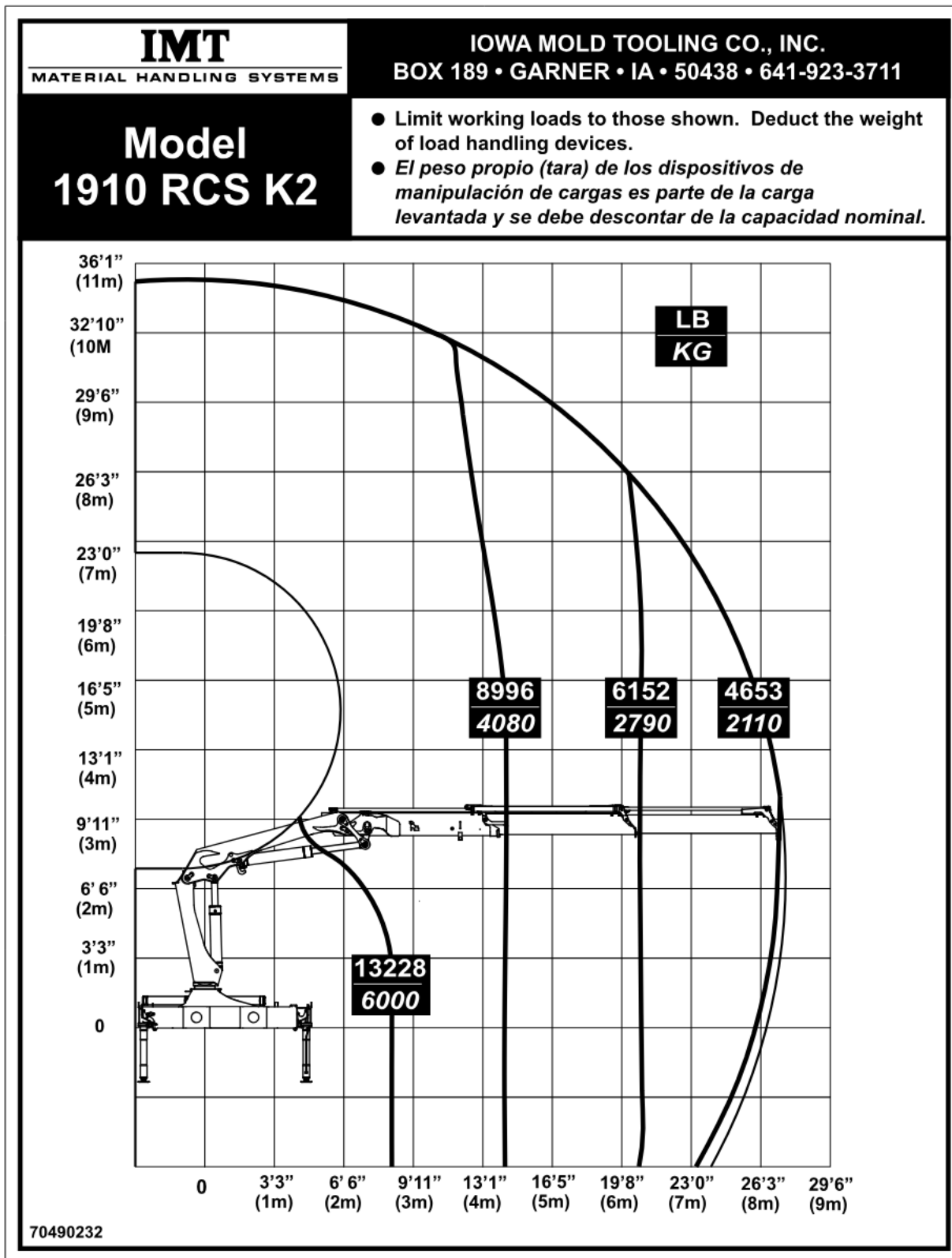
1910 - RCS Load Capacity Charts

Section - 2

1910 - RCS Lifting Capacity Chart, K1



1910 - RCS Lifting Capacity Chart, K2



1910 - RCS Lifting Capacity Chart, K3

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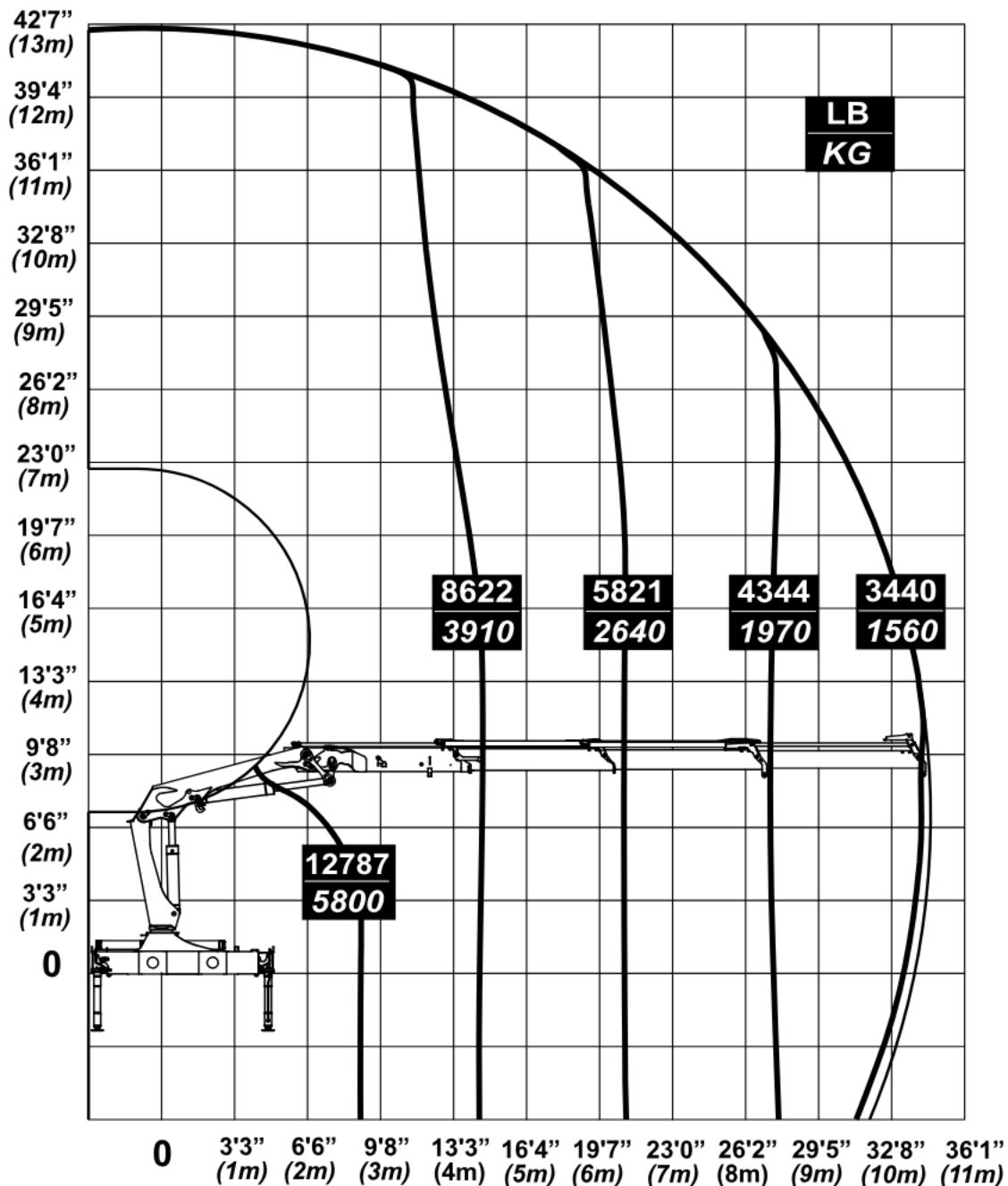
MATERIAL HANDLING SYSTEMS

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Model 1910 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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1910 - RCS Lifting Capacity Chart, K4

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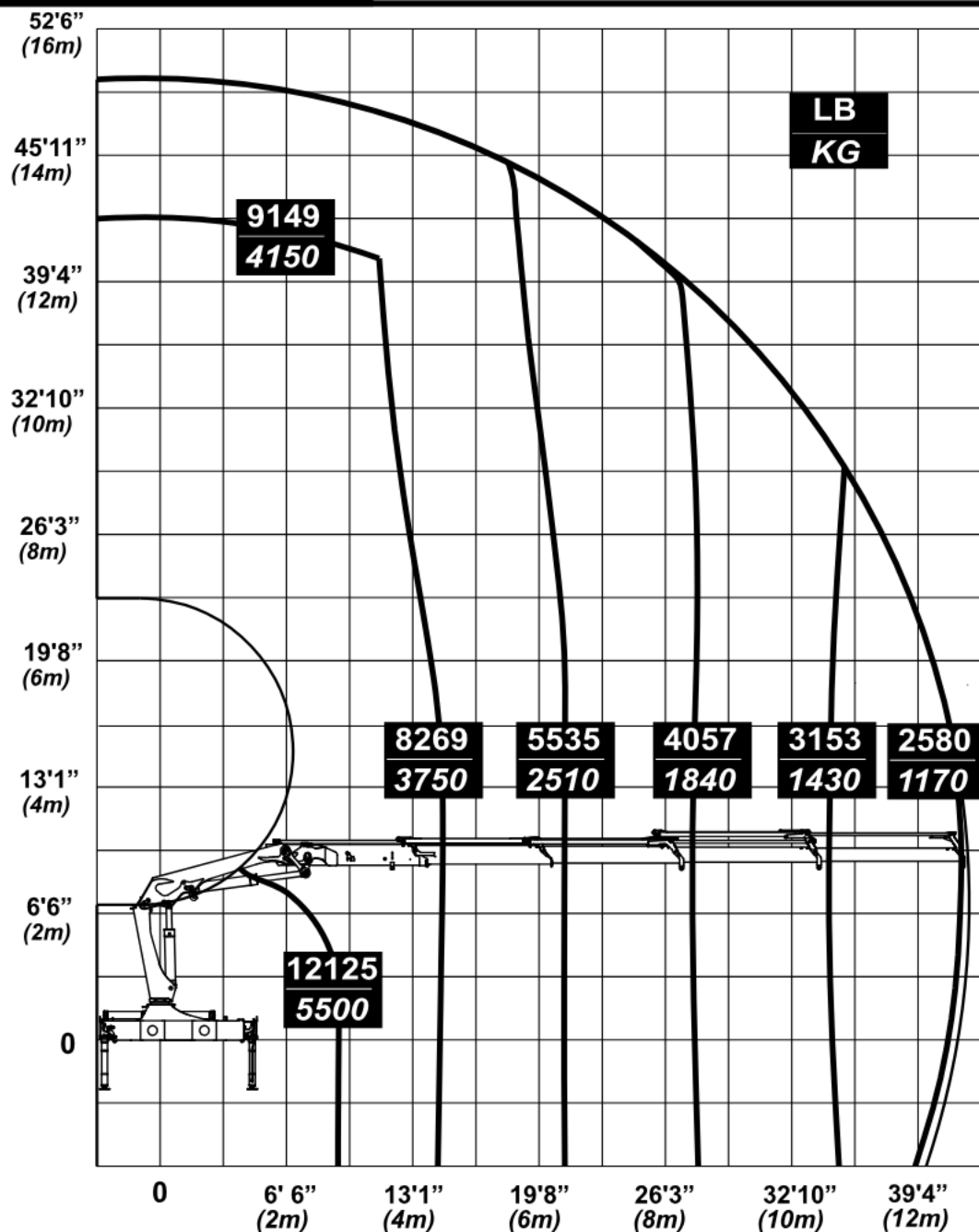
MATERIAL HANDLING SYSTEMS

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Model 1910 RCS 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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1910 - RCS Lifting Capacity Chart, K5

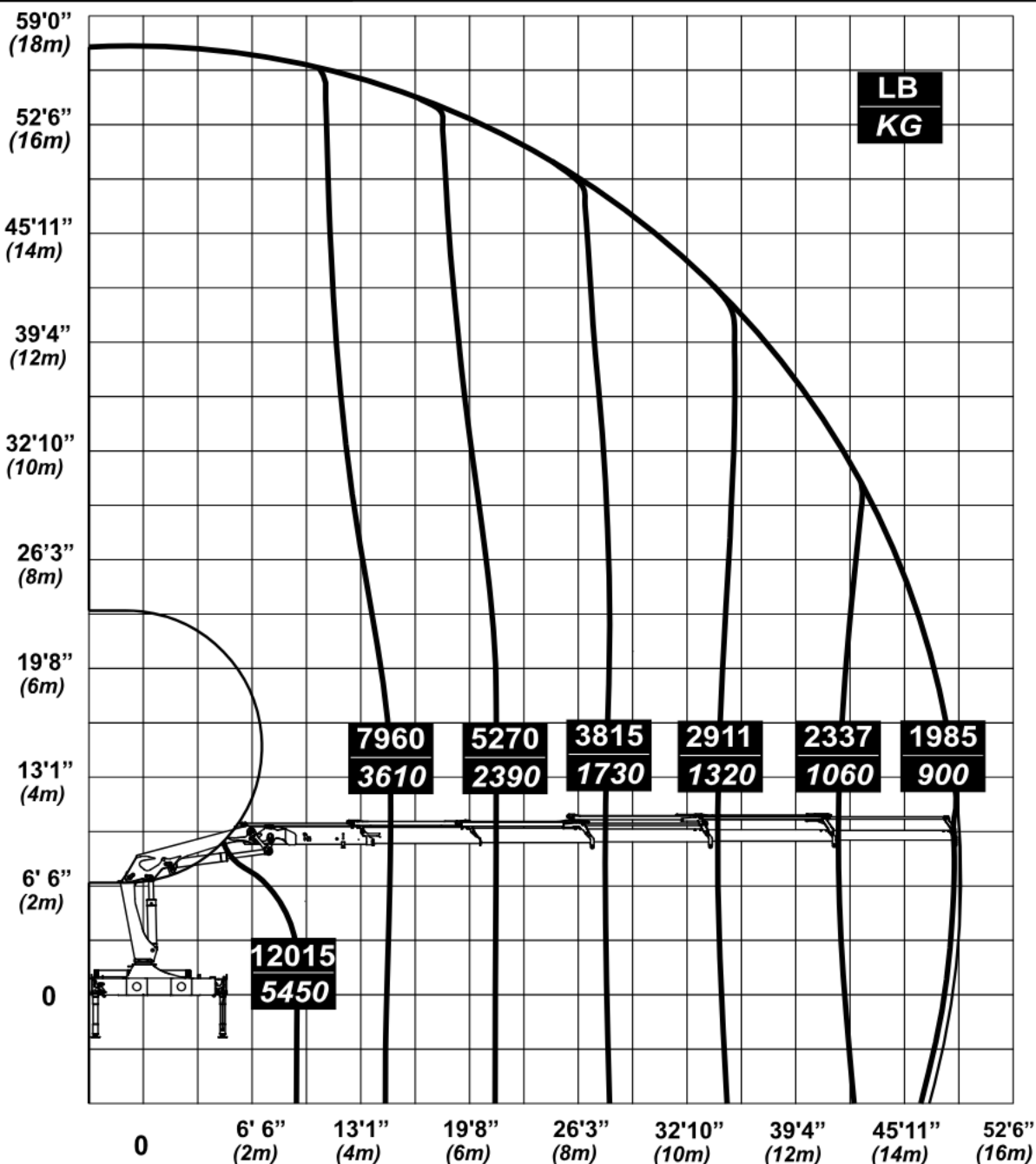
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MATERIAL HANDLING SYSTEMS

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Model 1910 RCS 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.*



1910 - RCS Lifting Capacity Chart, K6

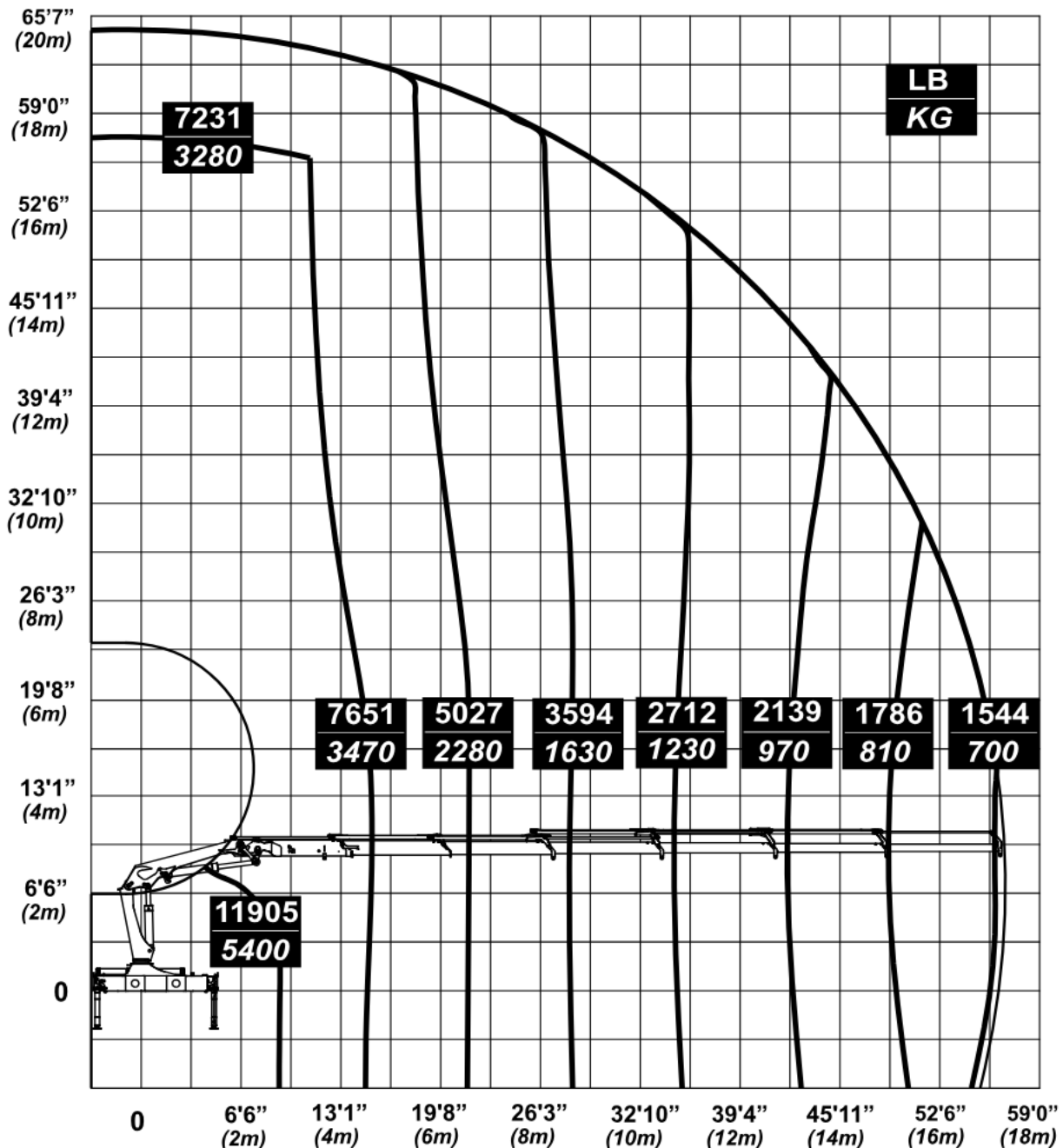
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Model 1910 RCS K6

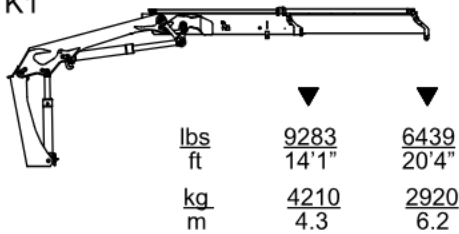
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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1910 - RCS Lifting Capacity Chart

K1



	▼	▼
lbs	9283	6439
ft	14'1"	20'4"
kg	4210	2920
m	4.3	6.2

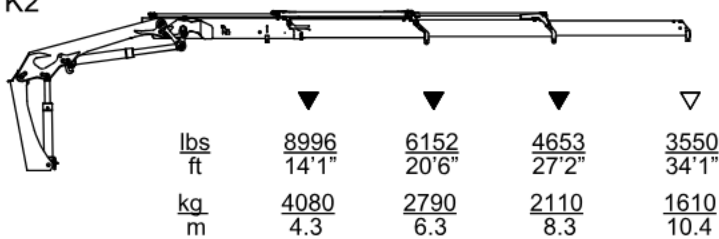


Lifting capacity with manual extensions



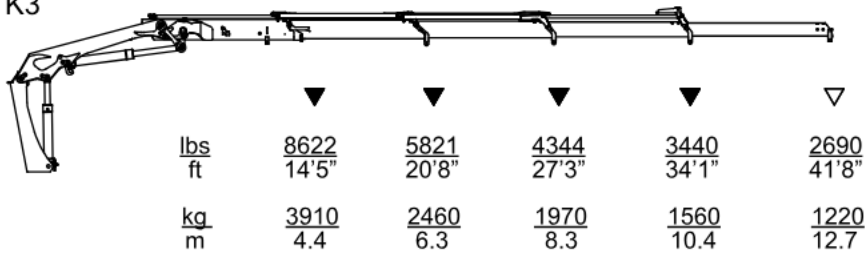
Lifting capacity without manual extensions

K2



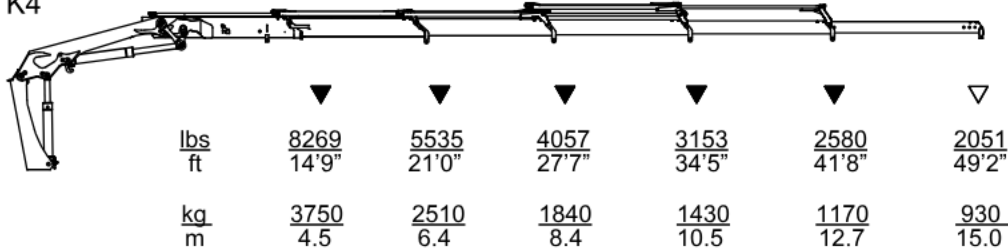
	▼	▼	▼	▽
lbs	8996	6152	4653	3550
ft	14'1"	20'6"	27'2"	34'1"
kg	4080	2790	2110	1610
m	4.3	6.3	8.3	10.4

K3



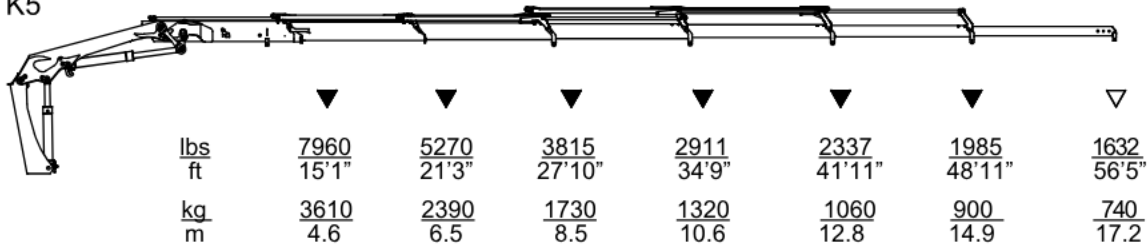
	▼	▼	▼	▼	▽
lbs	8622	5821	4344	3440	2690
ft	14'5"	20'8"	27'3"	34'1"	41'8"
kg	3910	2460	1970	1560	1220
m	4.4	6.3	8.3	10.4	12.7

K4



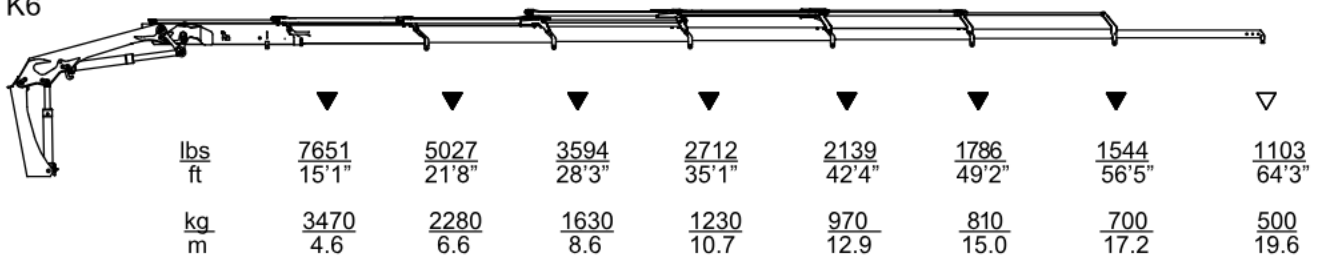
	▼	▼	▼	▼	▼	▽
lbs	8269	5535	4057	3153	2580	2051
ft	14'9"	21'0"	27'7"	34'5"	41'8"	49'2"
kg	3750	2510	1840	1430	1170	930
m	4.5	6.4	8.4	10.5	12.7	15.0

K5



	▼	▼	▼	▼	▼	▼	▽
lbs	7960	5270	3815	2911	2337	1985	1632
ft	15'1"	21'3"	27'10"	34'9"	41'11"	48'11"	56'5"
kg	3610	2390	1730	1320	1060	900	740
m	4.6	6.5	8.5	10.6	12.8	14.9	17.2

K6



	▼	▼	▼	▼	▼	▼	▼	▽
lbs	7651	5027	3594	2712	2139	1786	1544	1103
ft	15'1"	21'8"	28'3"	35'1"	42'4"	49'2"	56'5"	64'3"
kg	3470	2280	1630	1230	970	810	700	500
m	4.6	6.6	8.6	10.7	12.9	15.0	17.2	19.6

1910 - RCS Hydraulics

Section - 3

Working pressure on Main-Relief Valve & Port-Relief Valves

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			385		5584	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	2901
Extension cylinders	Extend	A	P	300	P	4351
	Retract	B	P	300	P	4351
Rotator	Right	A	P	200	P	2901
	Left	B	P	200	P	2901
Grab	Open	A	P	250	P	3626
	Close	B	P	250	P	3626
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	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	350 [bar]	5076 [PSI]
HDL	300 [bar]	4351 [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

Working pressure on Main-Relief Valve & Port-Relief Valves

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	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	2901
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	

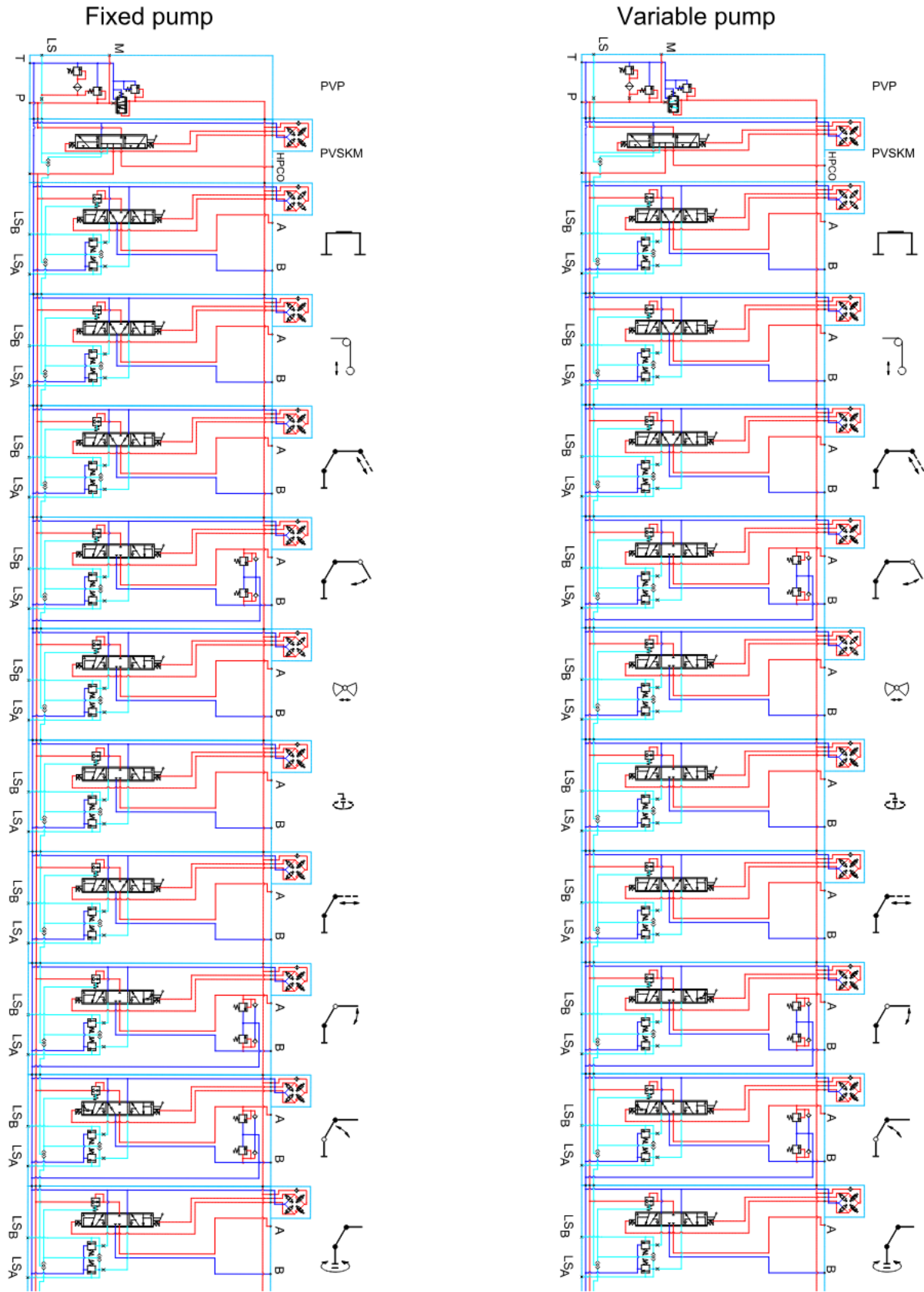
Working Pressure on Load-holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	350 [bar]	5076 [PSI]
HDL	300 [bar]	4351 [PSI]

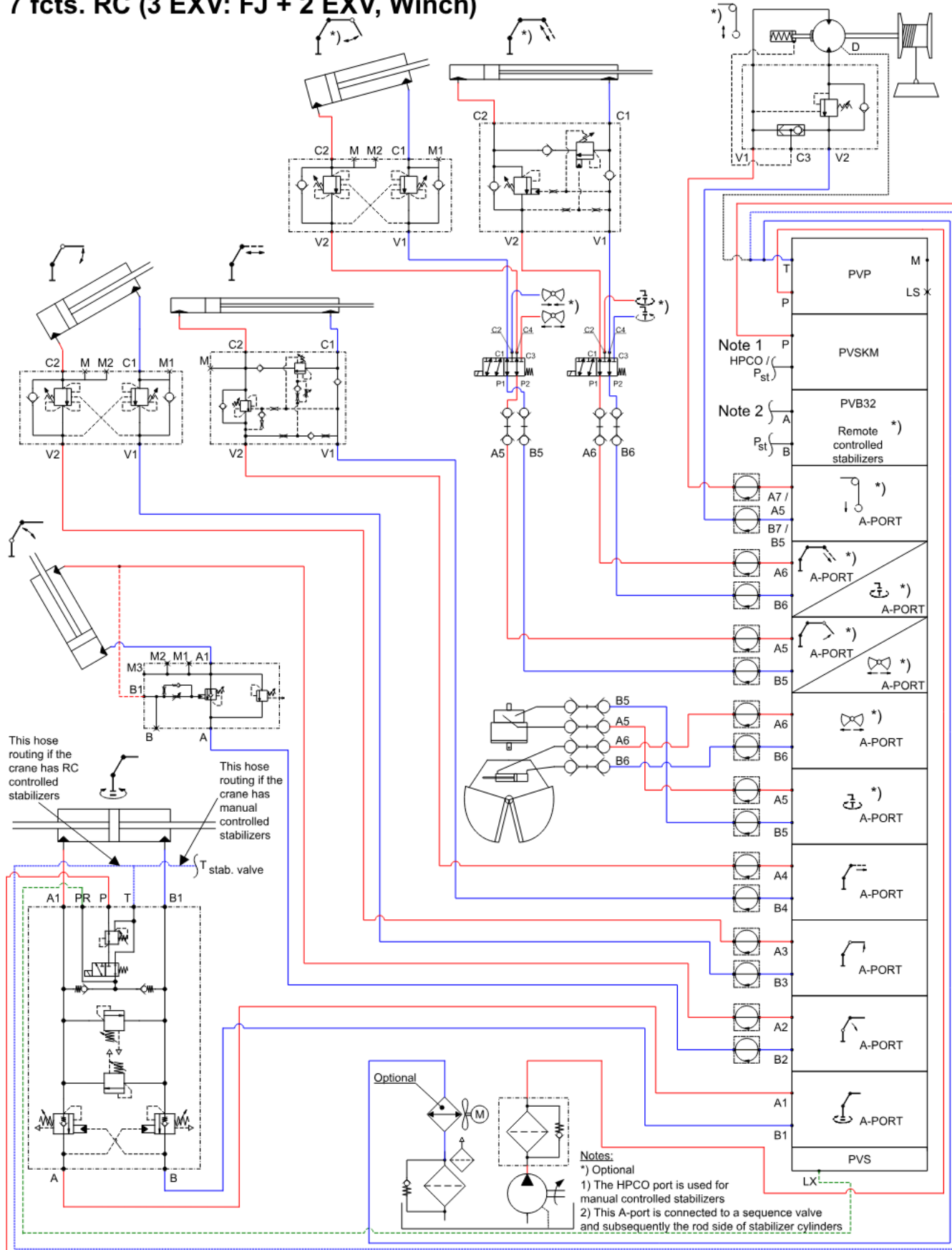
Max. pump performance		
Choice of pump	1 x Variable	1 x Variable
Pump performance	100 L/min	26.4 gpm

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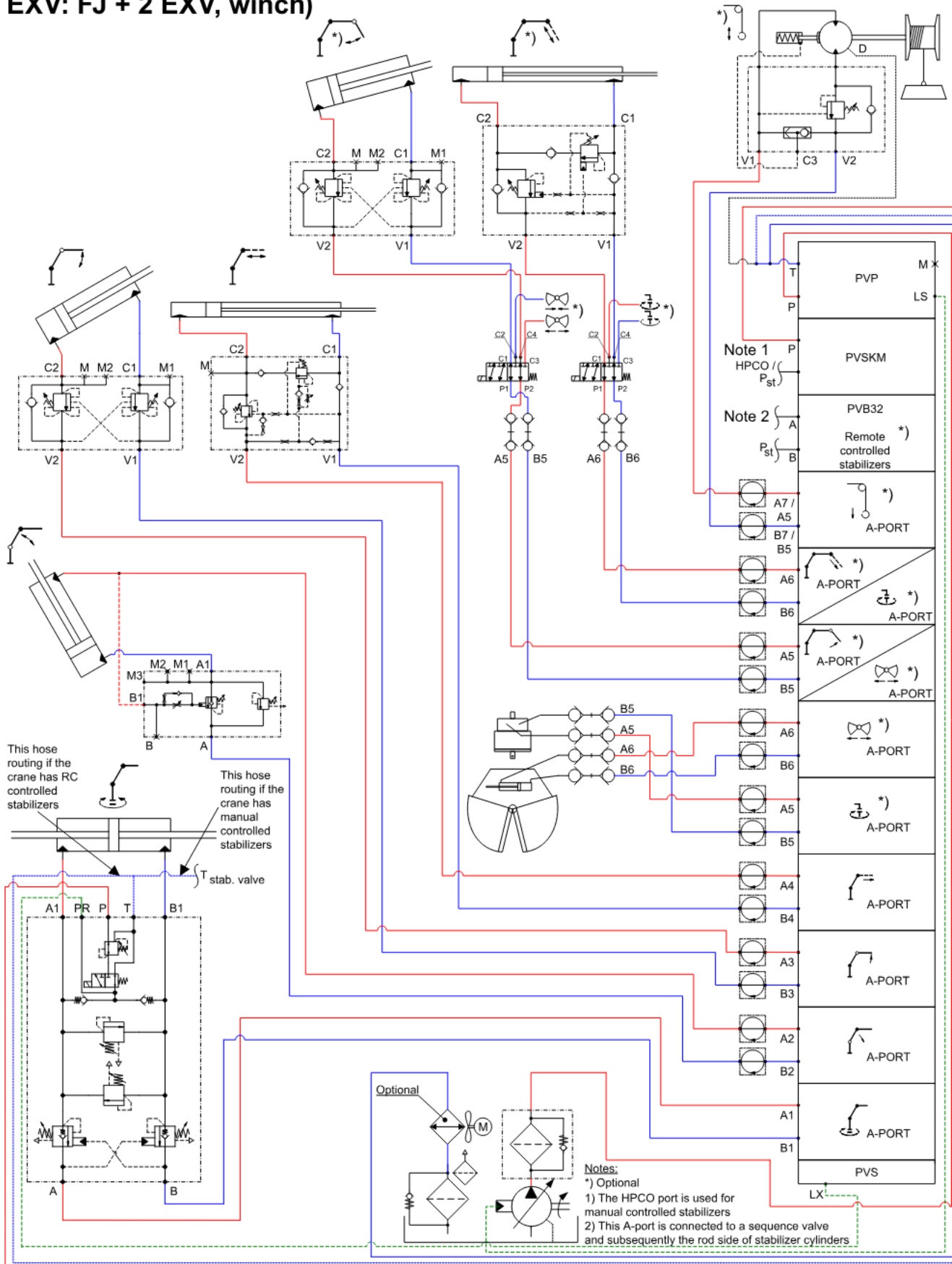
Hydraulic Diagram PVG32 - Crane Functions, Control Valve Fixed and Variable Flow Pump



Hydraulic Diagram - Danfoss PVG32, Single-Circuit Variable 7 fcts. RC (3 EXV: FJ + 2 EXV, Winch)

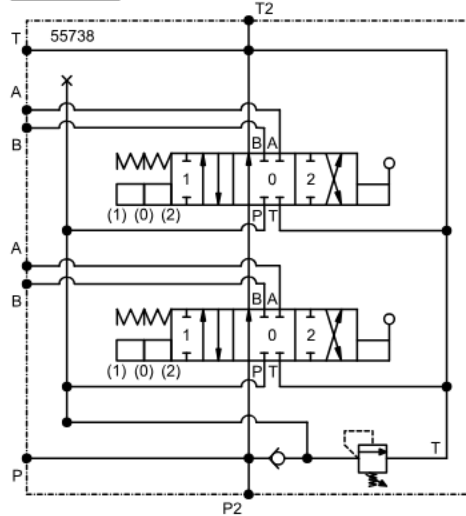


Hydraulic Diagram – Danfoss PVG32, single-circuit variable 7 fcts. RC (3 EXV: FJ + 2 EXV, winch)

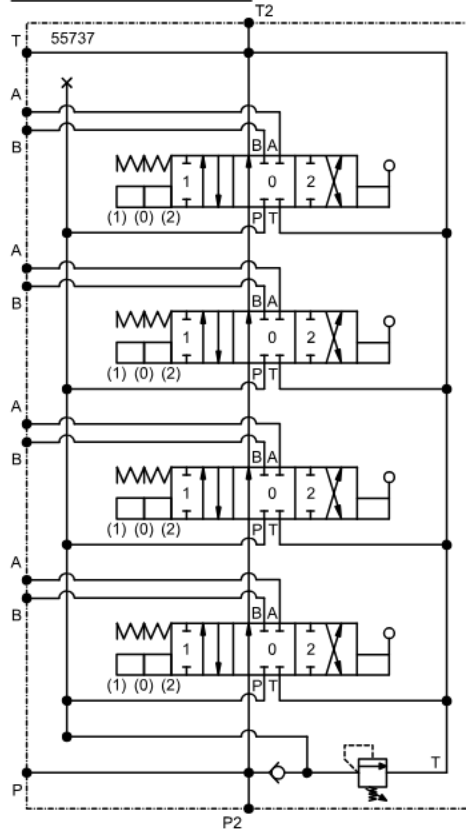


Hydraulic Diagram - Stabilizer circuit – Overview

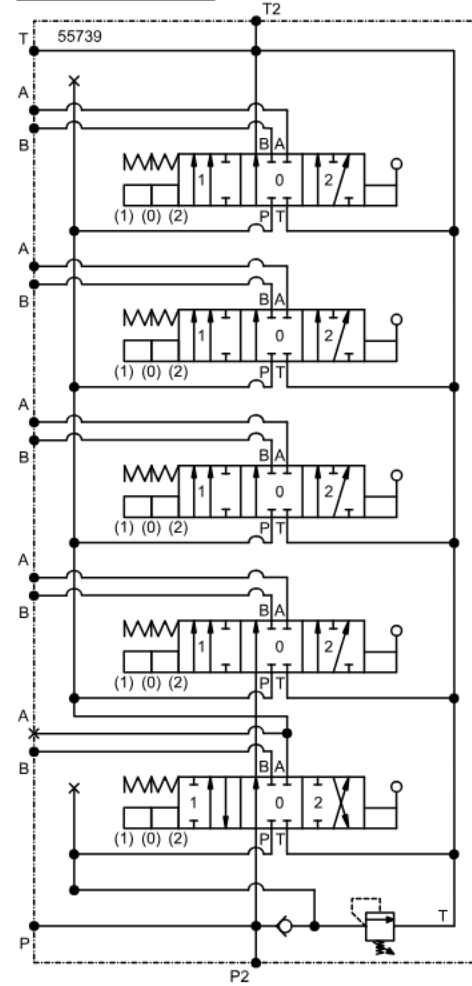
2 functions:



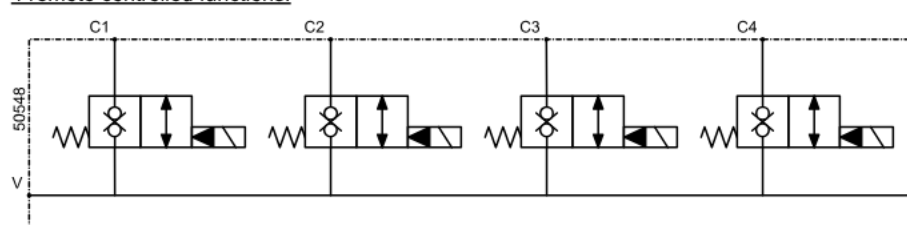
4 or 2 + 2 extra functions:



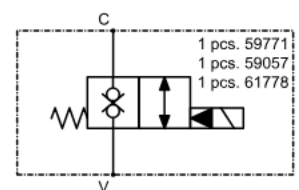
4 + 4 extra functions:



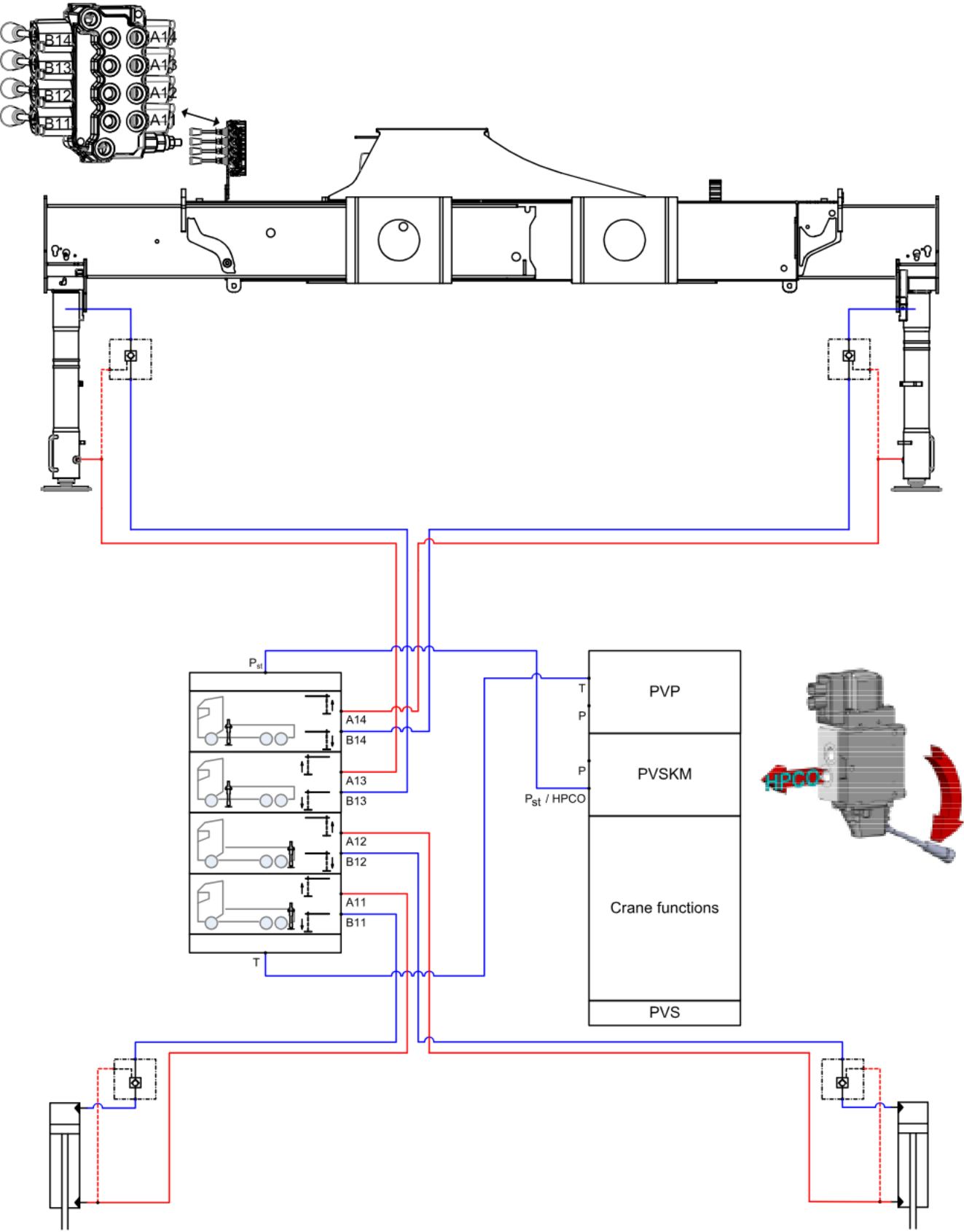
4 remote controlled functions:



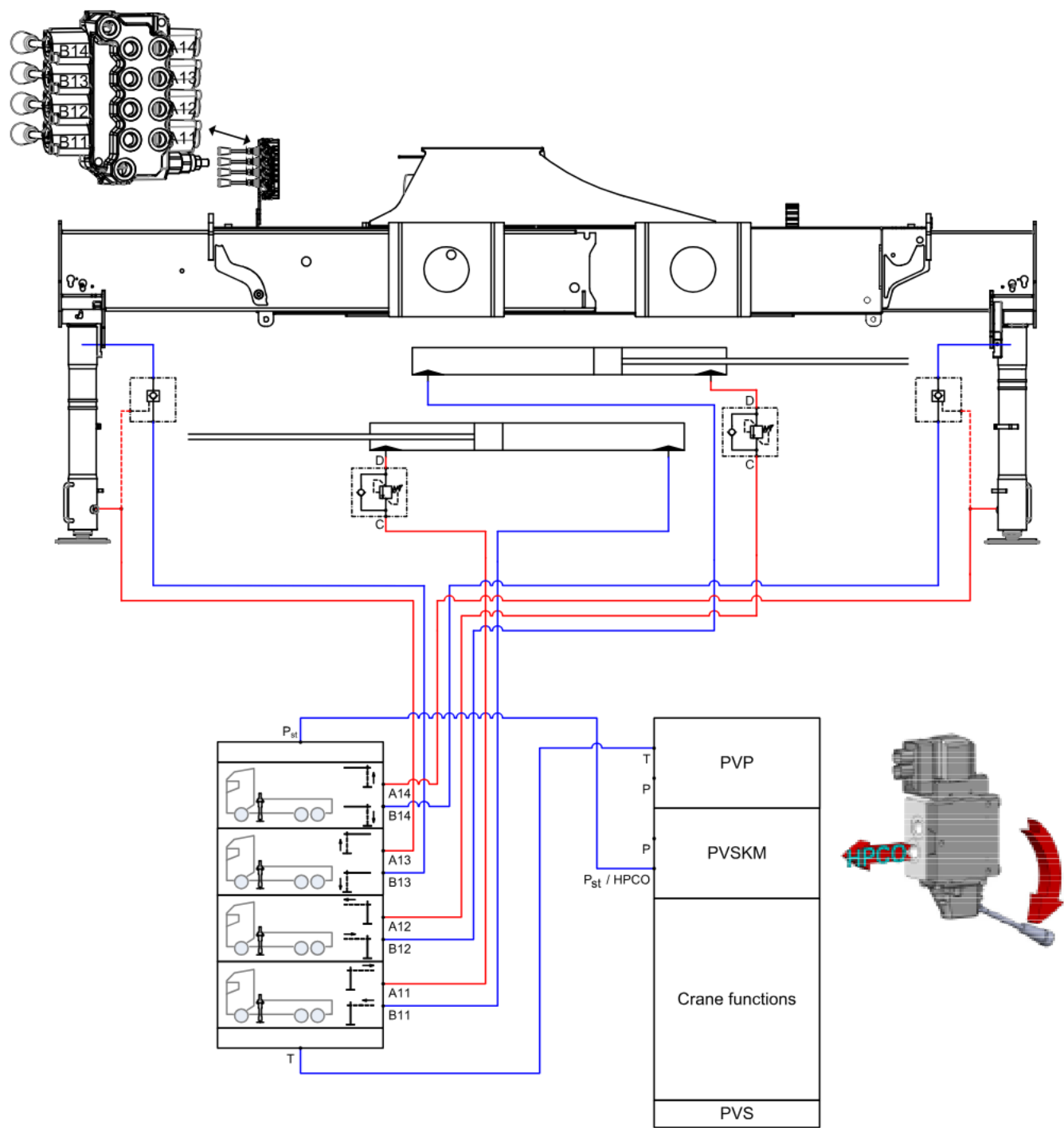
Extra remote controlled functions



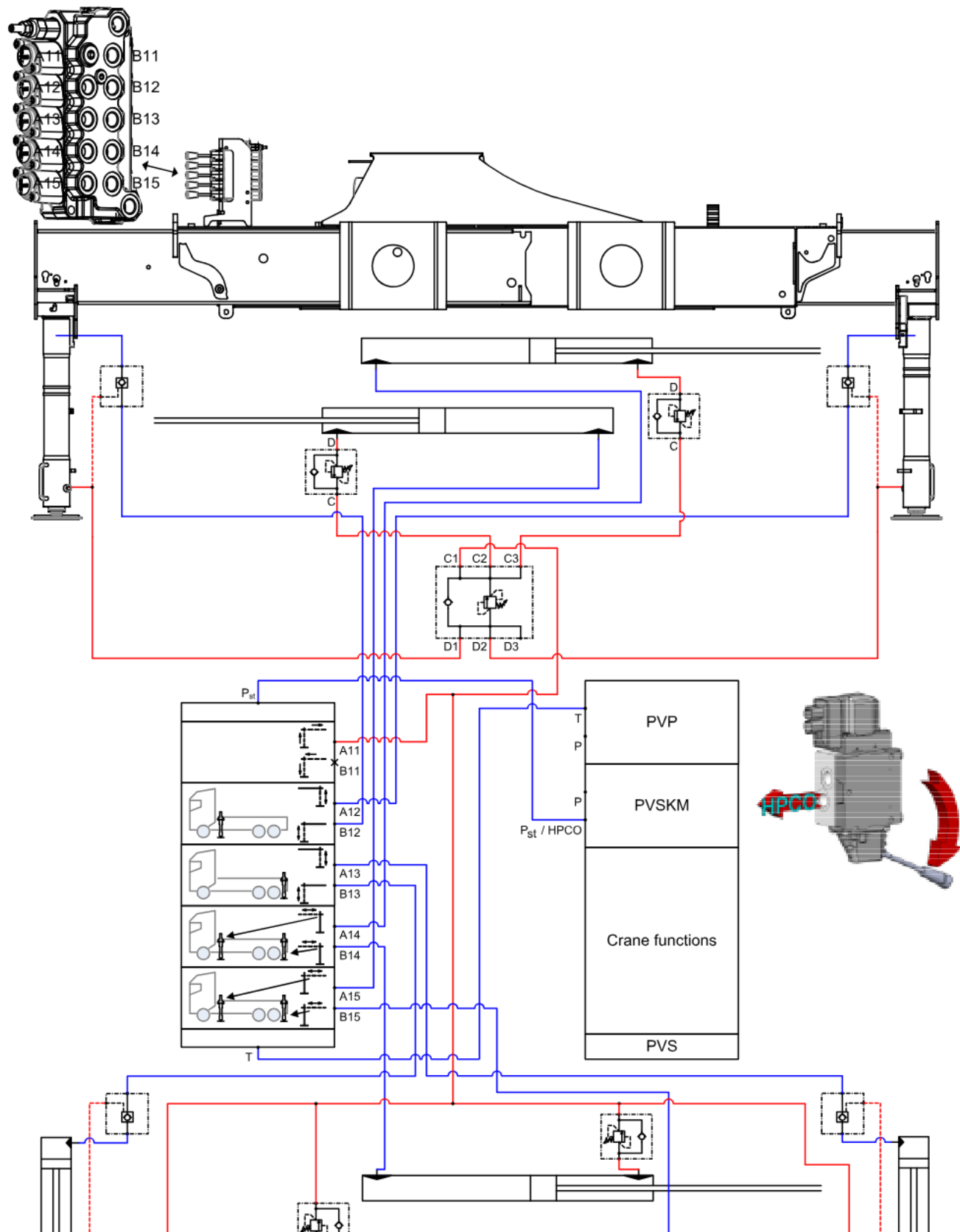
Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



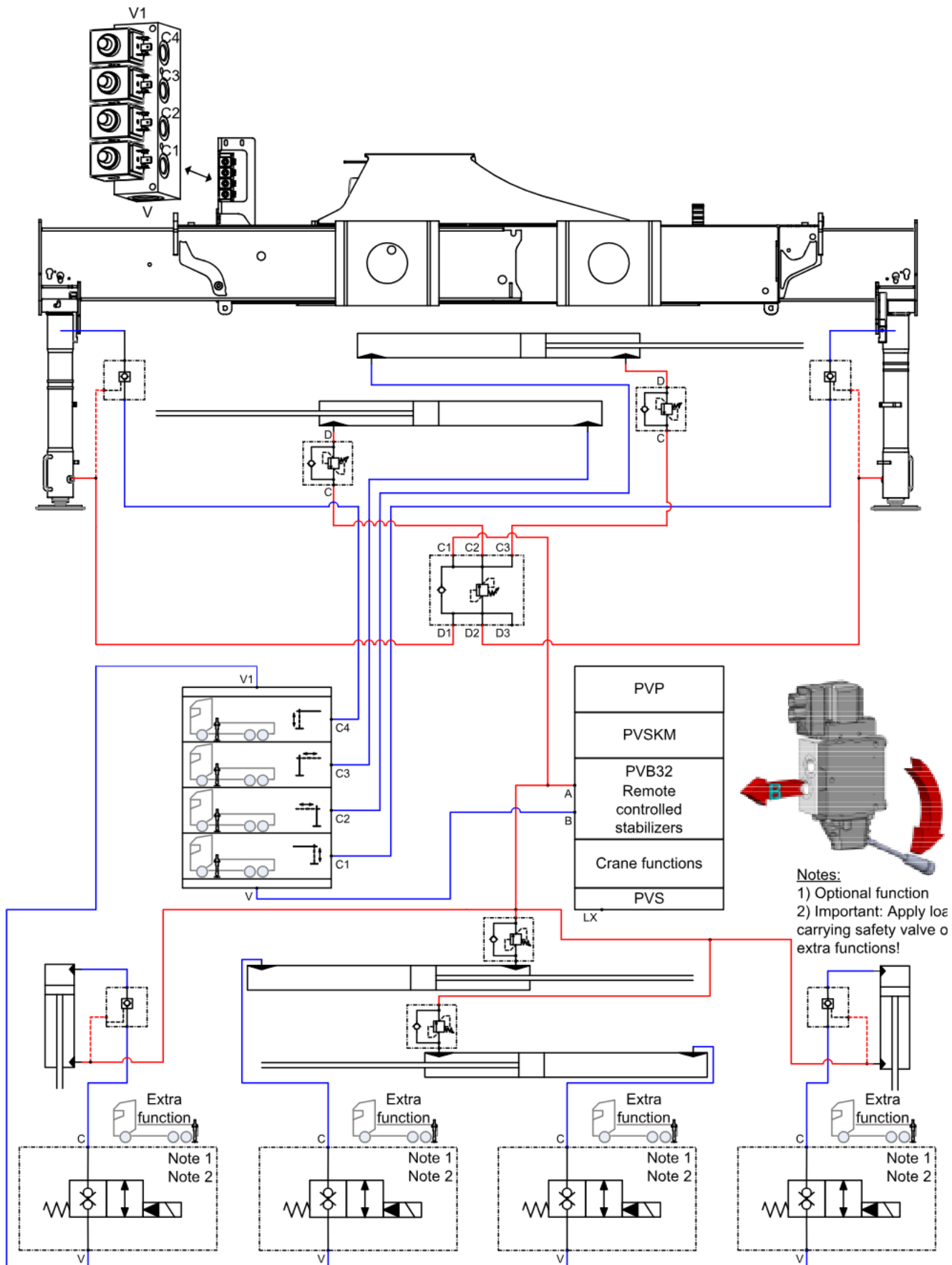
Hydraulic Diagram - Stabilizer circuit – 4 fcts.



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



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



1920 - RCS Technical Specifications

Section - 4

1920 - RCS Technical 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	130917	127301	124408	121514	118621	116451	
Hydraulic reach	ft	20'8"	27'5"	34'6"	42'0"	49'3"	56'9"	
Hydraulic telescopic movement	in	6'3"	12'11"	19'9"	27'0"	34'1"	41'3"	
Lifting capacity, hydraulic	lb-ft	9261-14'0"	8794-14'2"	8600-14'5"	8247-14'8"	7938-15'2"	7651-15'2"	
		6417-20'4"	6130-20'6"	5821-20'9"	5513-21'0"	5248-21'3"	5005-21'6"	
			4631-27'1"	4322-27'4"	4057-57'7"	3793-27'10"	3572-28'1"	
				3440-34'3"	3153-34'5"	2911-34'8"	2690-34'11"	
					2580-41'8"	2337-41'11"	2139-42'2"	
						1985-49'0"	1786-49'2"	
							1544-56'5"	
Lifting capacity, manual extensions	lb-ft		3550-34'1"	2690-41'8"	2051-49'2"	1632-56'5"	1103-64'3"	
Slewing torque, gross	lb-ft	12989						
Slewing angle	°	400°						
Max. heel at max. load moment	°	5						
Slewing speed	°/s	24						
Dimensions		Unit	K1	K2	K3	K4	K5	K6
Height above chassis		in	7'4"					
Width		in	8'2"					
Width with extra valves (int. hose routing)		in	8'3'					
Length, no extra valves		in	2'8"					
Length, with extra valves (hose guides)		in	3'1"					
Length, with extra valves (int. hose routing)		in	2'8"					
Stabilizer spread, S1 (standard)		in	15'1"					
Stabilizer spread, S2		in	18'4"					
Stabilizer spread, D		in	21'2"					

Minimum Chassis Specs	
Front Axle Rating (GAWR)	12000 lb (5450 kg)
Rear Axle Rating (GAWR)	21,000 lb (9530 kg)
Resistance to Bending Moment	1,755,000 in-lb (20.225 kg-m)

Weights, basic loader	Unit	K1	K2	K3	K4	K5	K6
Standard loader 1), excl. stabilizers	lb	3131	3440	3749	4046	4311	4520
Stabilizers, S1 fixed	lb	441					
Stabilizers, S1 swing-up	lb	452					
Stabilizers, S1 hydr. swing-up	lb	474					
Stabilizers, S2 fixed	lb	518					
Stabilizers, S2 swing-up	lb	529					
Stabilizers, S2 hydr. swing-up	lb	551					
Stabilizers, D1 fixed	lb	662					
Stabilizers, D swing-up	lb	662					
Stabilizers, D1 hydr. swing-up	lb	695					
Mounting kit, 4 bolts	lb	121					
Mounting kit, 8 bolts	lb	132					
Tank, excl. oil (fitted on loader)	lb	99					
Manual Extensions	lb		187	165	143	99	88
Oil in loader (stowing position)	lb	66	77	88	99	110	110
Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	lb	132					
Stand-up controls (HS), direct valve control	lb	154					
Top seat (TS)	lb	198					
Top seat, ladder	bl	44					
1 extra valve, hose routing	lb	88	121	143	165	187	209
1 extra valve, int. hose routing	lb	165	165	165	176	176	187
2 extra valves, hose guides	lb	132	165	198	232	265	298
2 extra valves, int. hose routing	lb	287	287	287	309	320	353
Winch (1.5 t), single snatch block	lb	386	386	386	386	386	397
Winch (1.5 t), double snatch block	lb	375	375	375	375	375	386
Winch (2.5 t), single snatch block	lb	441	441	441	441	441	451
Winch (2.5 t), double snatch block	lb	430	430	430	430	430	441
High-pressure filter	lb	15					
Oil cooler	lb	55					
Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	ft-lb	19108					
S1, swing-up	ft-lb	19108					
S1, hydr. swing-up	ft-lb	19108					
S2, fixed	ft-lb	19108					
S2, swing-up	ft-lb	19108					
S2, hydr. swing-up	ft-lb	19108					
D, fixed	ft-lb	15287					
D, swing-up	ft-lb	15287					
D, hydr. swing-up	ft-lb	15287					
Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	psi	4786					
Tank capacity (fitted on loader)	gal	24					

1920 - RCS Technical Specifications-Metric

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	18.1	17.6	17.2	16.8	16.4	16.1	
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	4200-4.3	4070-4.3	3900-4.4	3750-4.5	3600-4.6	3470-4.6	
		2910-6.2	2780-6.3	2640-6.3	2500-6.4	2380-6.5	2270-6.6	
			2100-8.3	1960-8.3	1840-8.4	1720-8.5	1620-8.6	
				1560-10.4	1430-10.5	1320-10.6	1220-10.7	
					1170-12.7	1060-12.8	970-12.9	
						900-14.9	810-16	
							700-17.2	
Lifting capacity, manual extensions	kg-m		1610-10.4	1220-12.7	930-15	740-17.2	500-19.6	
Slewing torque, gross	kNm	17.6						
Slewing angle	°	400°						
Max. heel at max. load moment	°	5						
Slewing speed	°/s	24						
Dimensions		Unit	K1	K2	K3	K4	K5	K6
Height above chassis		mm	2250					
Width		mm	2500					
Width with extra valves (int. hose routing)		mm	2535					
Length, no extra valves		mm	830					
Length, with extra valves (hose guides)		mm	950					
Length, with extra valves (int. hose routing)		mm	830					
Stabilizer spread, S1 (standard)		mm	4615					
Stabilizer spread, S2		mm	5590					
Stabilizer spread, D		mm	6470					
Minimum Chassis Specs								
Front Axle Rating (GAWR)				12000 lb (5450 kg)				
Rear Axle Rating (GAWR)				21,000 lb (9530 kg)				
Resistance to Bending Moment				1,755,000 in-lb (20.225 kg-m)				

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					
Stabilizers, S1 swing-up	kg	205					
Stabilizers, S1 hydr. swing-up	kg	215					
Stabilizers, S2 fixed	kg	235					
Stabilizers, S2 swing-up	kg	240					
Stabilizers, S2 hydr. swing-up	kg	250					
Stabilizers, D1 fixed	kg	300					
Stabilizers, D fixed	kg	300					
Stabilizers, D1 hydr. swing-up	kg	315					
Mounting kit, 4 bolts	kg	55					
Mounting kit, 8 bolts	kg	60					
Tank, excl. oil (fitted on loader)	kg	45					
Manual Extensions	kg		85	75	65	45	40
Oil in loader (stowing position)	kg	30	35	40	45	50	50
Weights, equipment	Unit	K1	K2	K3	K4	K5	K6
Stand-up controls (HS), std.	kg	60					
Stand-up controls (HS), direct valve control	kg	70					
Top seat (TS)	kg	90					
Top seat, ladder	kg	20					
1 extra valve, hose routing	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					
Oil cooler	kg	25					
Max. Load on stabilizers (per stabilizer cylinder)	Unit	K1	K2	K3	K4	K5	K6
S1, fixed	kN	85					
S1, swing-up	kN	85					
S1, hydr. swing-up	kN	85					
S2, fixed	kN	85					
S2, swing-up	kN	85					
S2, hydr. swing-up	kN	85					
D, fixed	kN	63					
D, swing-up	kN	63					
D, hydr. swing-up	kN	63					

Power consumption (oil capacity)	Unit	K1	K2	K3	K4	K5	K6
Working pressure	Bar	365					
Tank capacity (fitted on loader)	L	90					

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1920 - RCS K1-K6 Load Capacity Charts

Section - 5

1920 - RCS Lifting Capacity Chart, K1

IMT

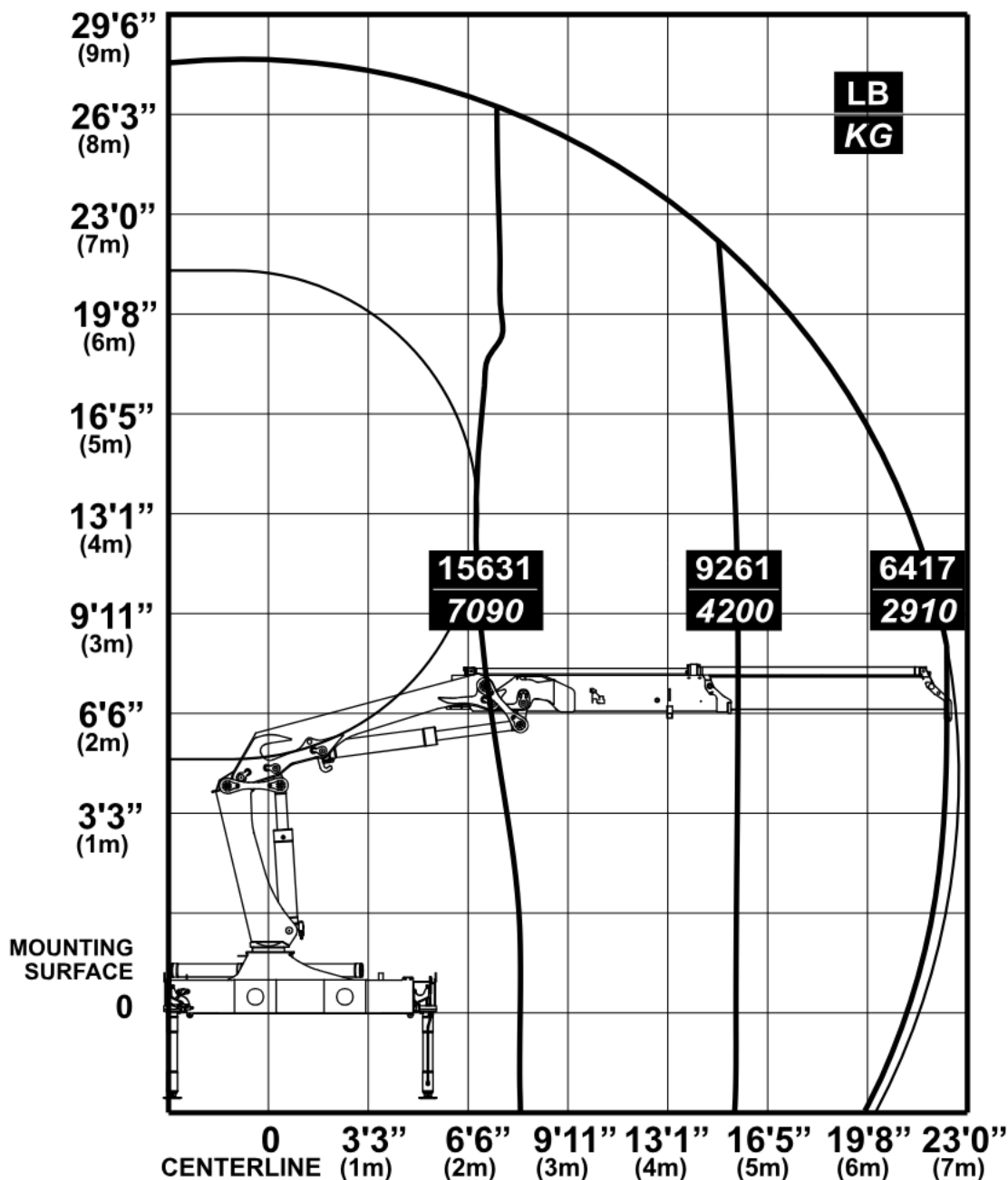
MATERIAL HANDLING SYSTEMS

IOWA MOLD TOOLING CO., INC.

BOX 189 • GARNER • IA • 50438 • 641-923-3711

Model 1920 RCS 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.*



70490221

1920 - RCS Lifting Capacity Chart, K2

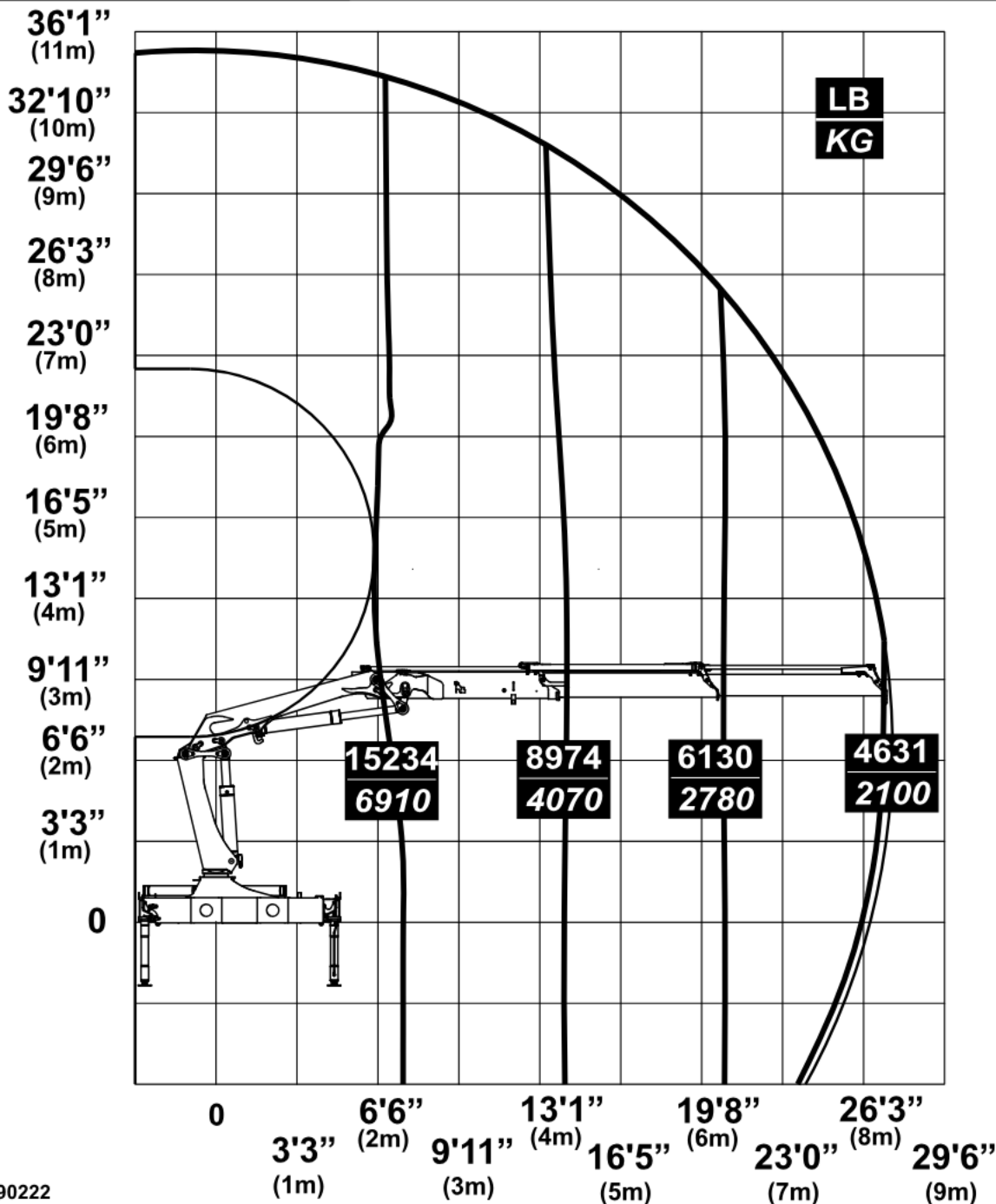
IMT

MATERIAL HANDLING SYSTEMS

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

Model 1920 RCS 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.*



70490222

1920 - RCS Lifting Capacity Chart, K3

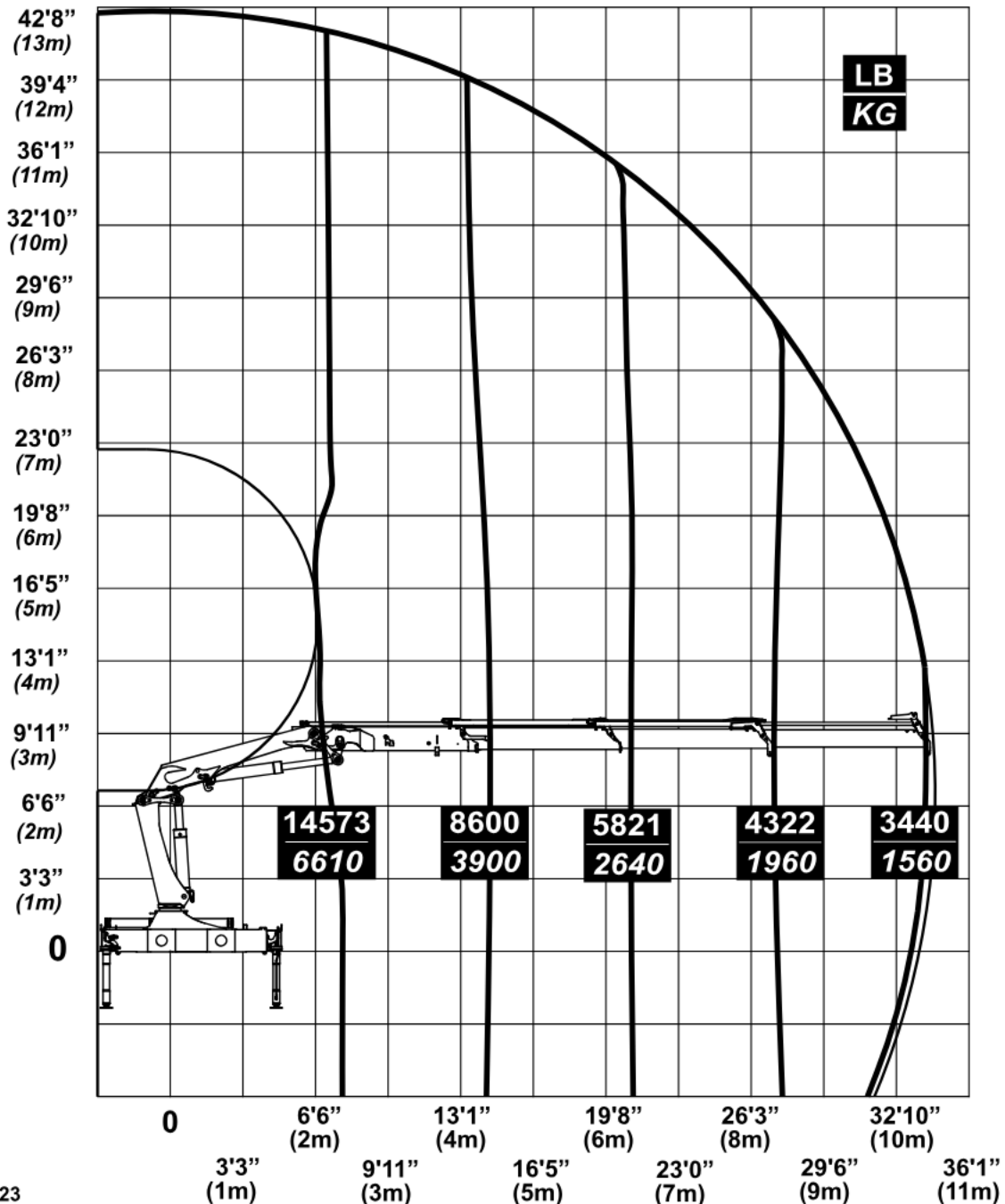
IMT

MATERIAL HANDLING SYSTEMS

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

Model 1920 RCS 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.*



70490223

1920 - RCS Lifting Capacity Chart, K4

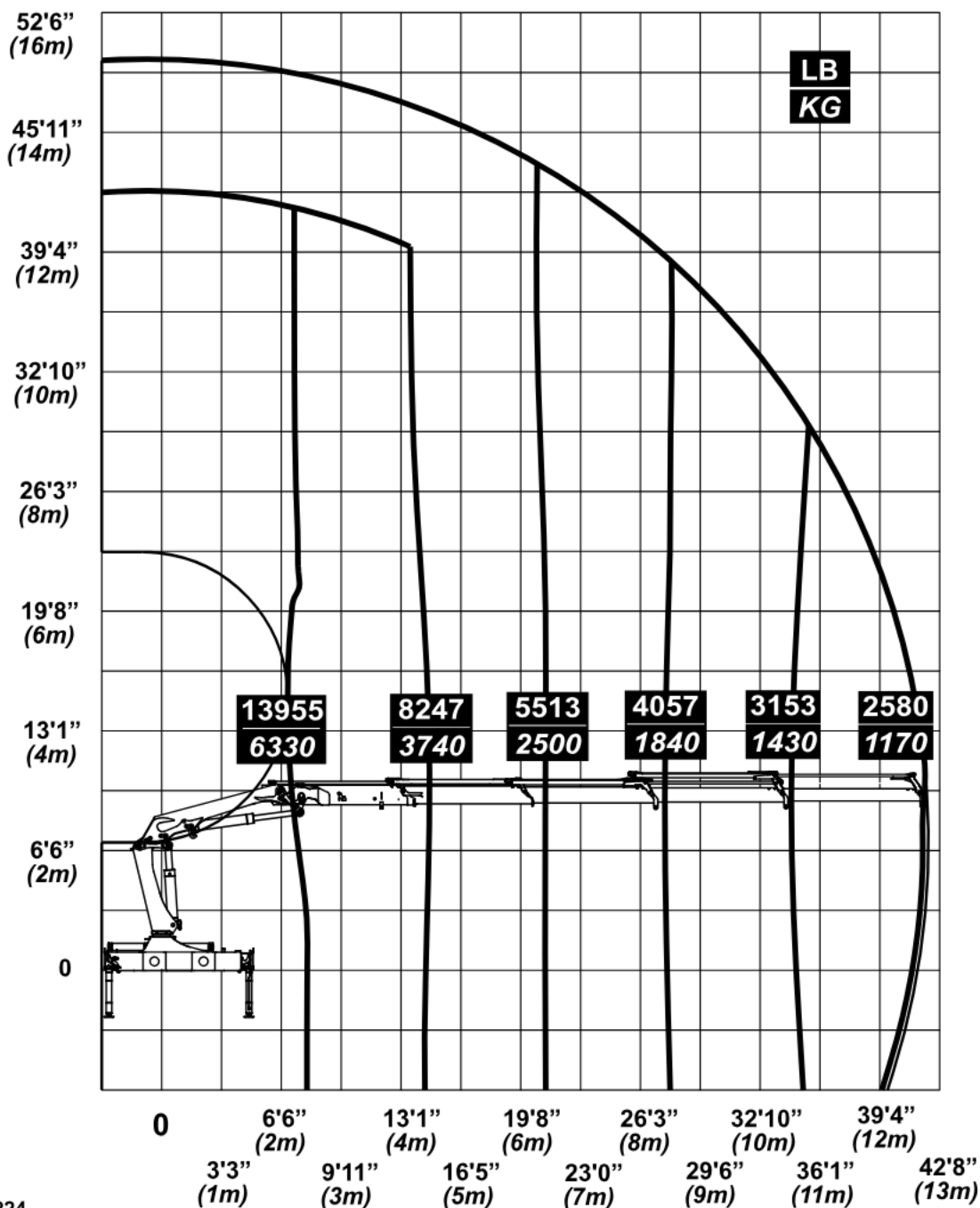
IMT

MATERIAL HANDLING SYSTEMS

Model 1920 RCS K4

 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.*



70490224

1920 - RCS Lifting Capacity Chart, K5

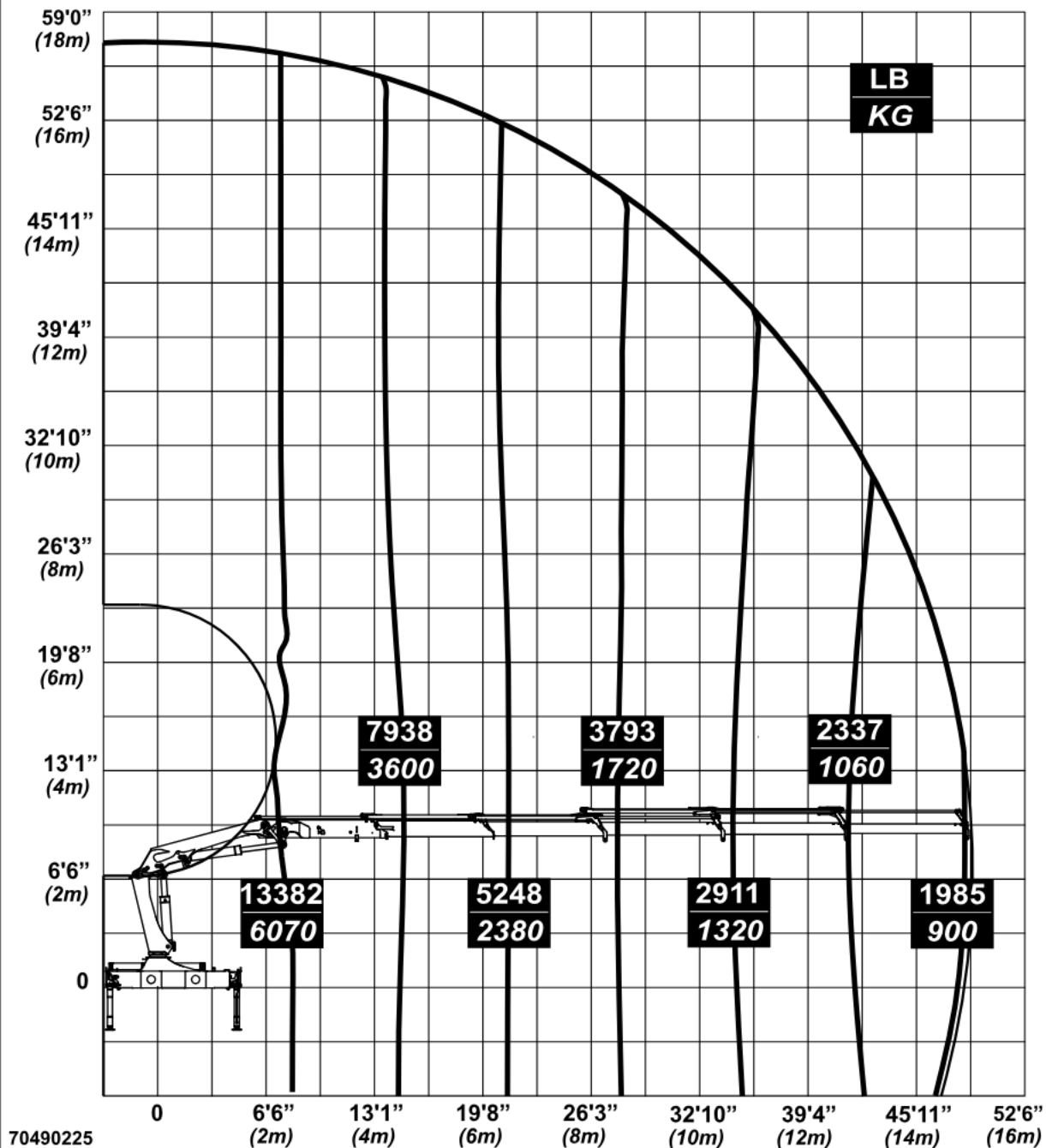
IMT

MATERIAL HANDLING SYSTEMS

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

Model 1920 RCS 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.*



1920 - RCS Lifting Capacity Chart, K6

IMT

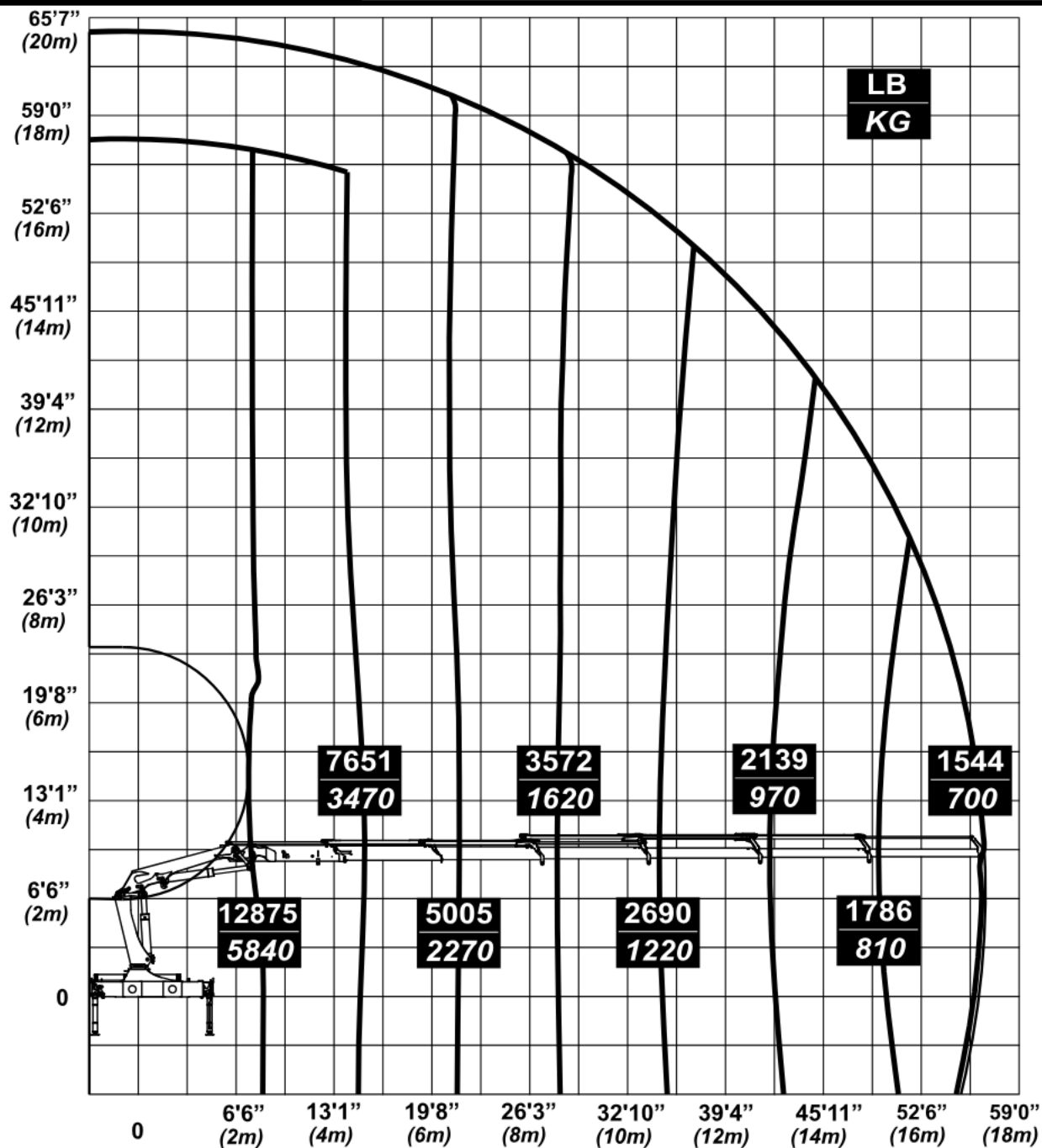
MATERIAL HANDLING SYSTEMS

IOWA MOLD TOOLING CO., INC.

BOX 189 • GARNER • IA • 50438 • 641-923-3711

**Model
1920 RCS K6**

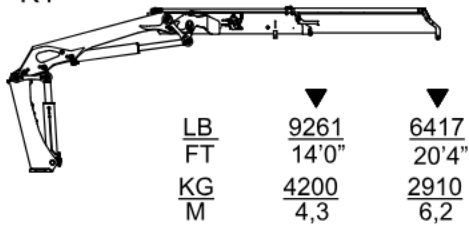
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



70490226

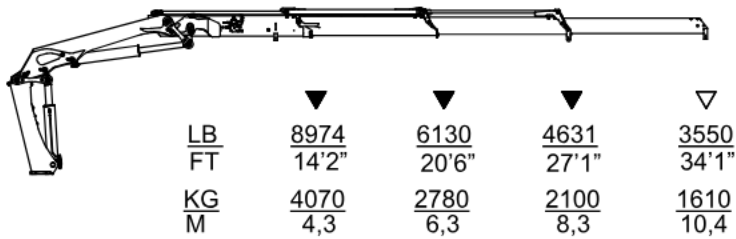
1920 - RCS Lifting Capacity Chart K1 - K6

K1



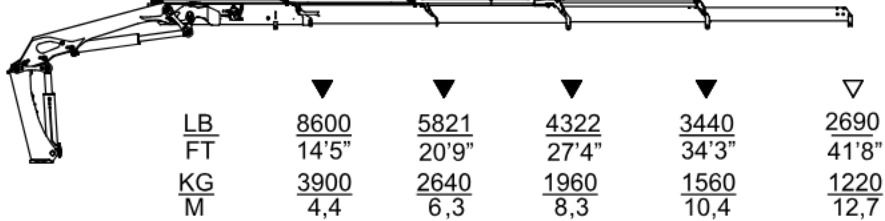
	▼	▼
LB	9261	6417
FT	14'0"	20'4"
KG	4200	2910
M	4,3	6,2

K2



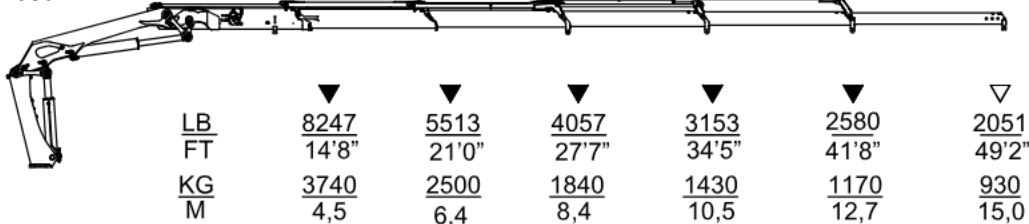
	▼	▼	▼	▽
LB	8974	6130	4631	3550
FT	14'2"	20'6"	27'1"	34'1"
KG	4070	2780	2100	1610
M	4,3	6,3	8,3	10,4

K3



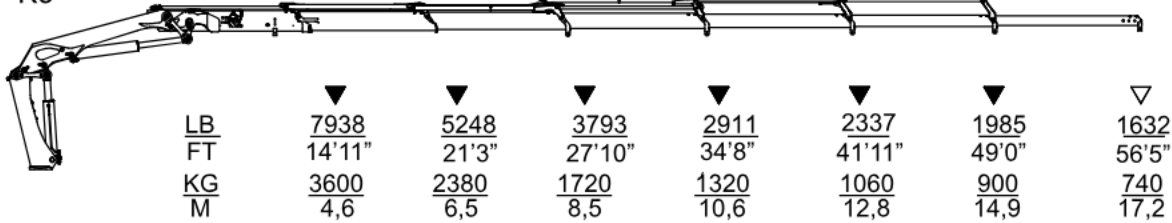
	▼	▼	▼	▼	▽
LB	8600	5821	4322	3440	2690
FT	14'5"	20'9"	27'4"	34'3"	41'8"
KG	3900	2640	1960	1560	1220
M	4,4	6,3	8,3	10,4	12,7

K4



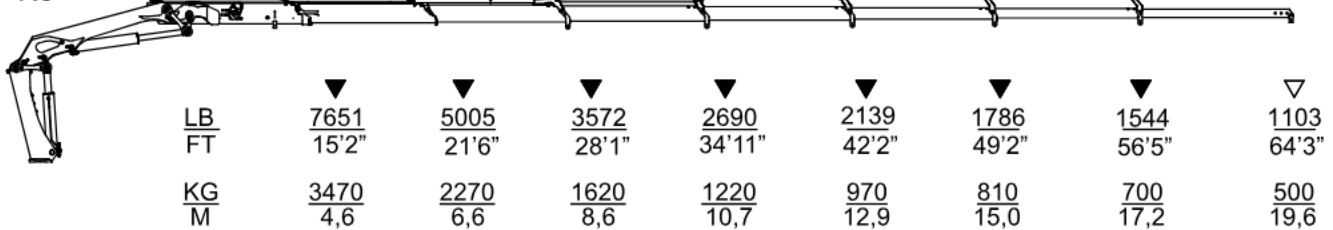
	▼	▼	▼	▼	▼	▽
LB	8247	5513	4057	3153	2580	2051
FT	14'8"	21'0"	27'7"	34'5"	41'8"	49'2"
KG	3740	2500	1840	1430	1170	930
M	4,5	6,4	8,4	10,5	12,7	15,0

K5



	▼	▼	▼	▼	▼	▼	▽
LB	7938	5248	3793	2911	2337	1985	1632
FT	14'11"	21'3"	27'10"	34'8"	41'11"	49'0"	56'5"
KG	3600	2380	1720	1320	1060	900	740
M	4,6	6,5	8,5	10,6	12,8	14,9	17,2

K6



	▼	▼	▼	▼	▼	▼	▼	▽
LB	7651	5005	3572	2690	2139	1786	1544	1103
FT	15'2"	21'6"	28'1"	34'11"	42'2"	49'2"	56'5"	64'3"
KG	3470	2270	1620	1220	970	810	700	500
M	4,6	6,6	8,6	10,7	12,9	15,0	17,2	19,6

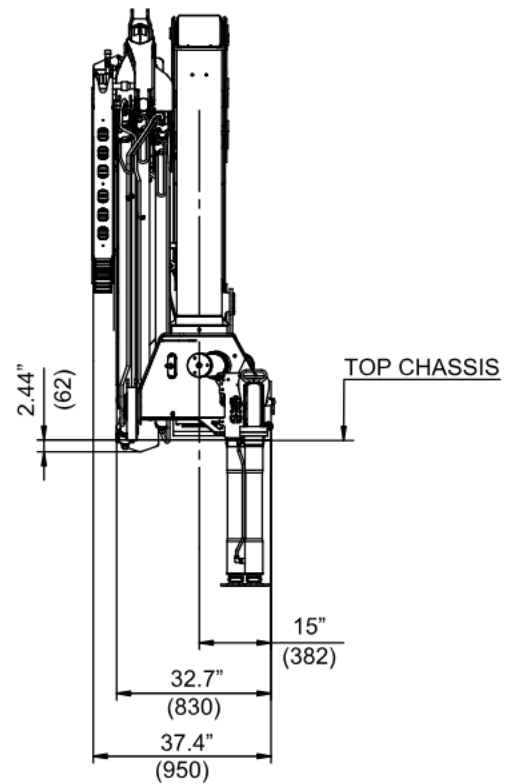
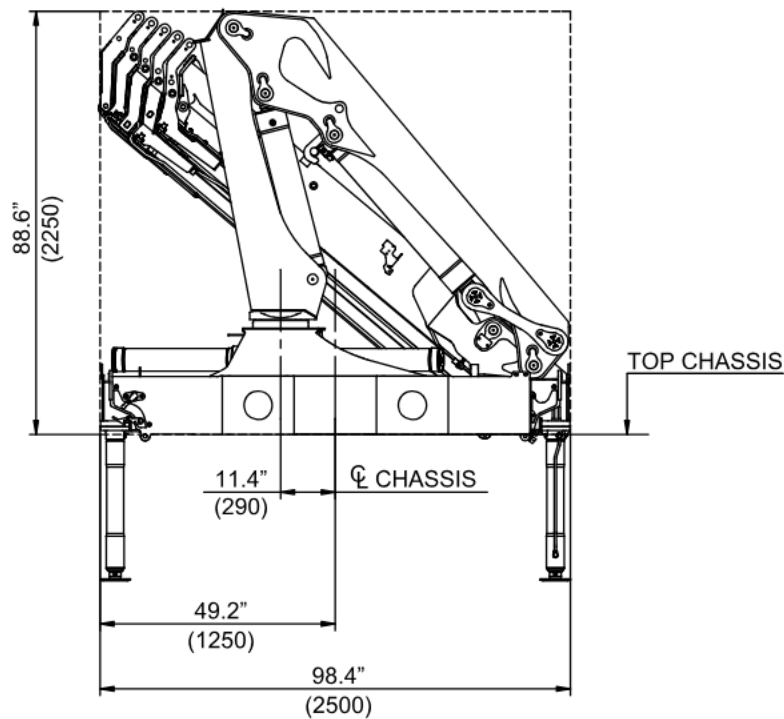
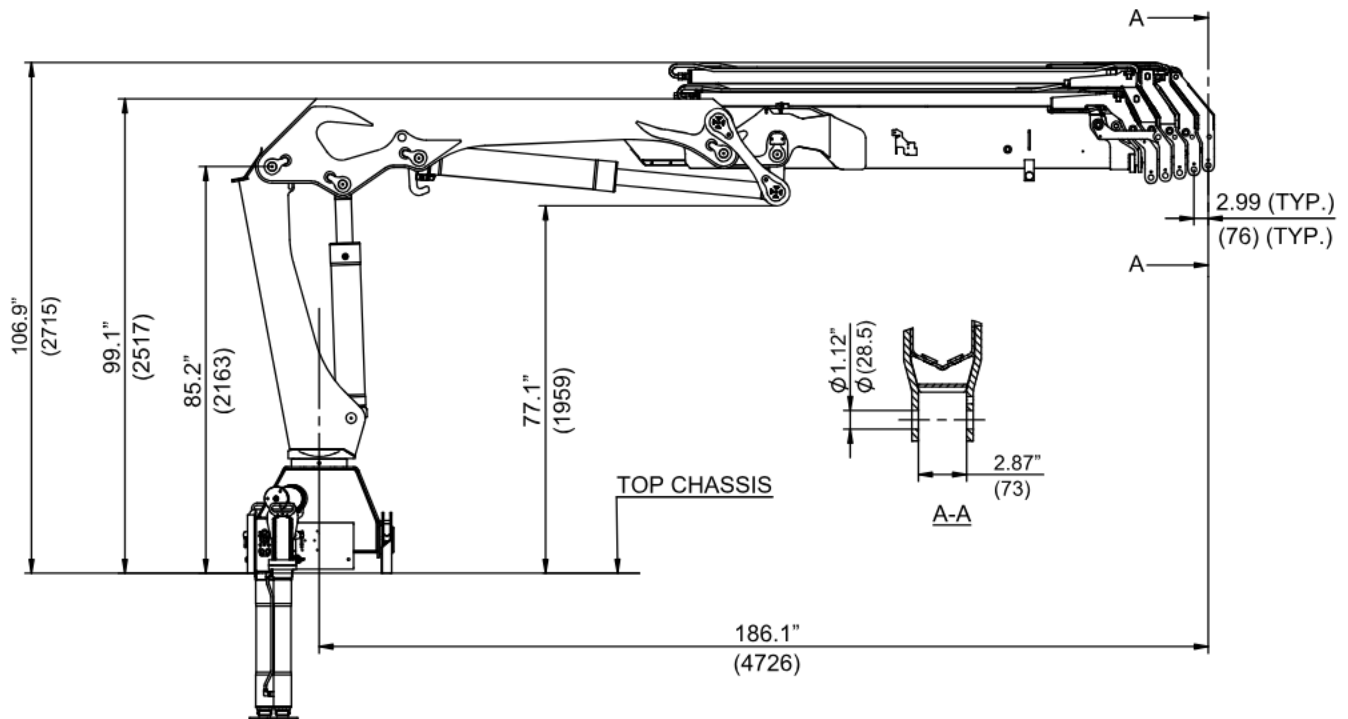
▽ Lifting capacity with manual extension

▼ Lifting capacity without manual extension

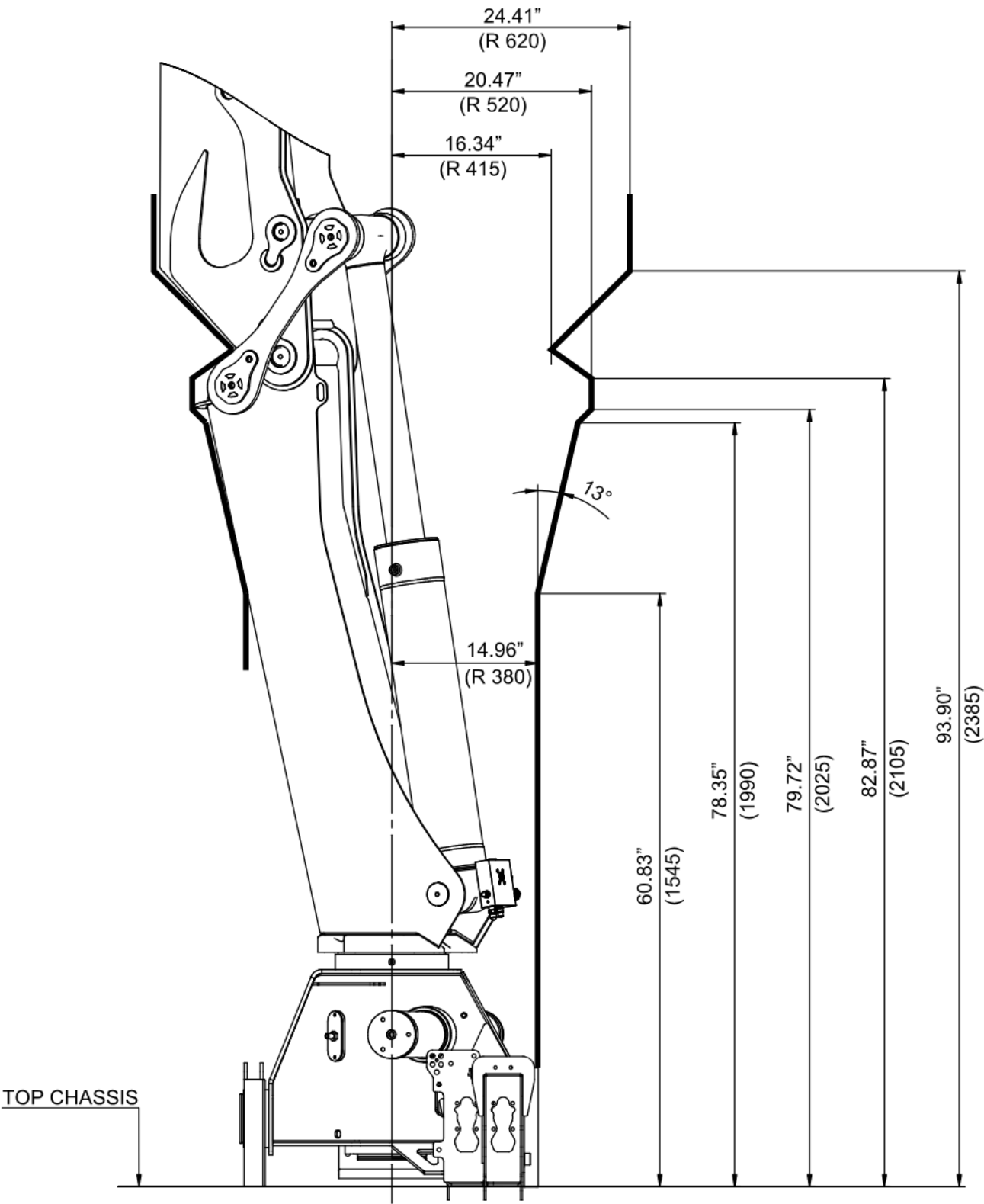
1920 - RCS Dimension Drawings

Section - 6

Dimension Sketch

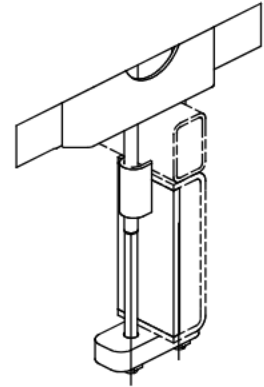
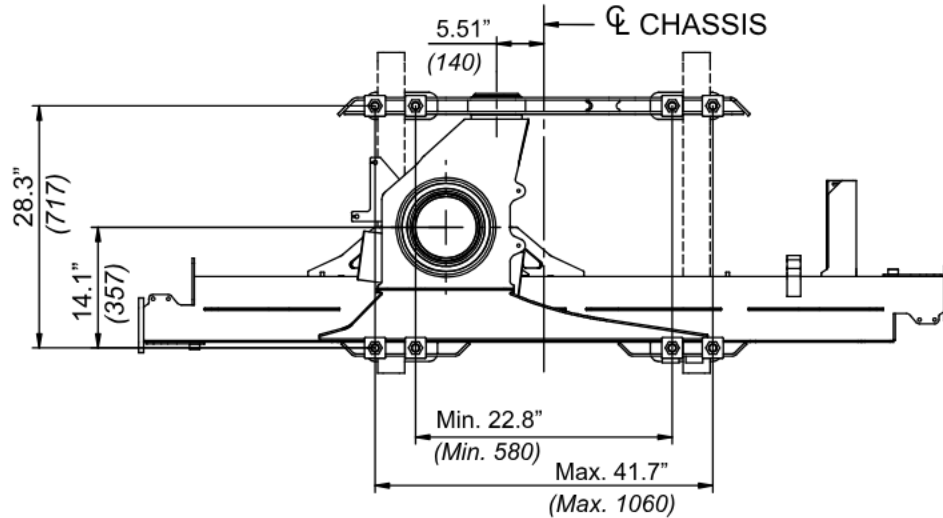


Slewing Radius



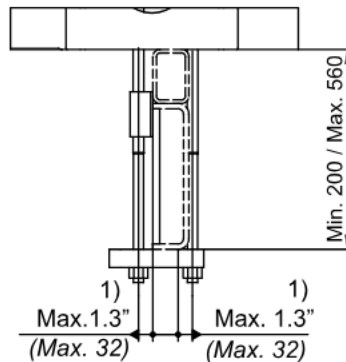
Dimension Sketch for Truck-Mounted Loader

MOUNTING KIT 8 x M24 x 2 BOLTS

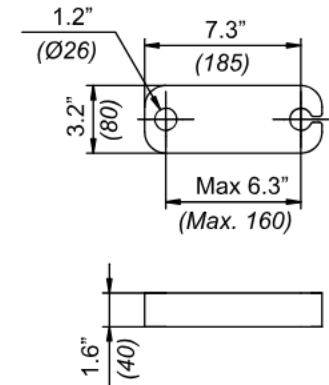


Notes:

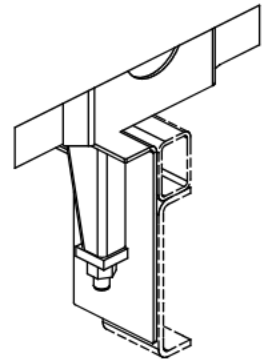
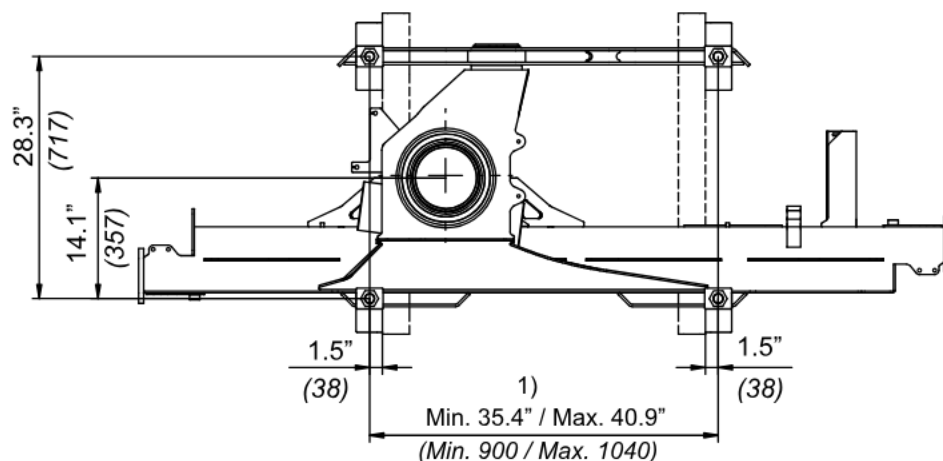
1. Values dictated by strength considerations.
2. Drill hole when assembling.
3. For installation, please see IMT Installation Manual.
4. For mounting kits or spare parts, please see the Spart Parts Catalog.



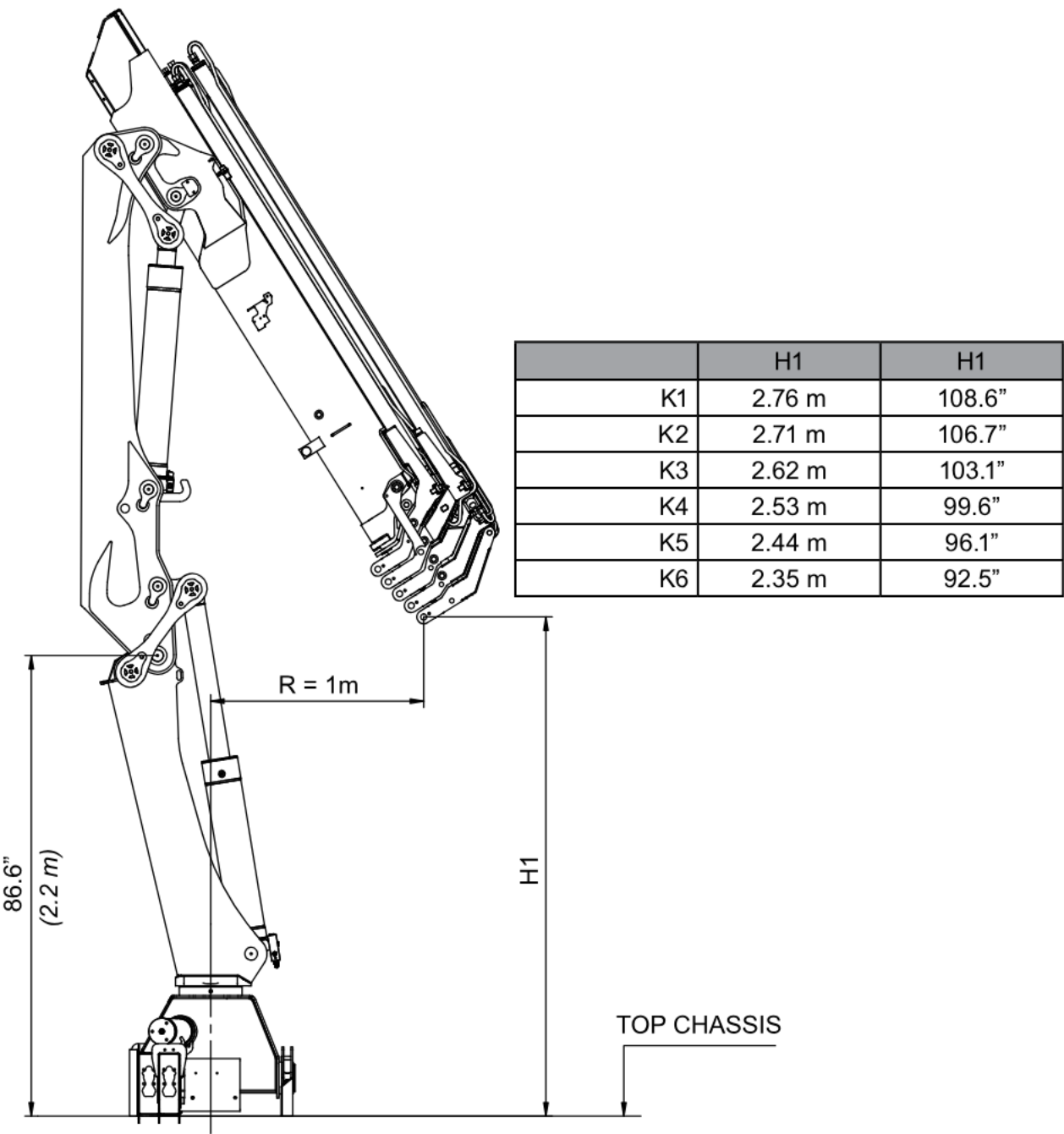
(See Note 2)



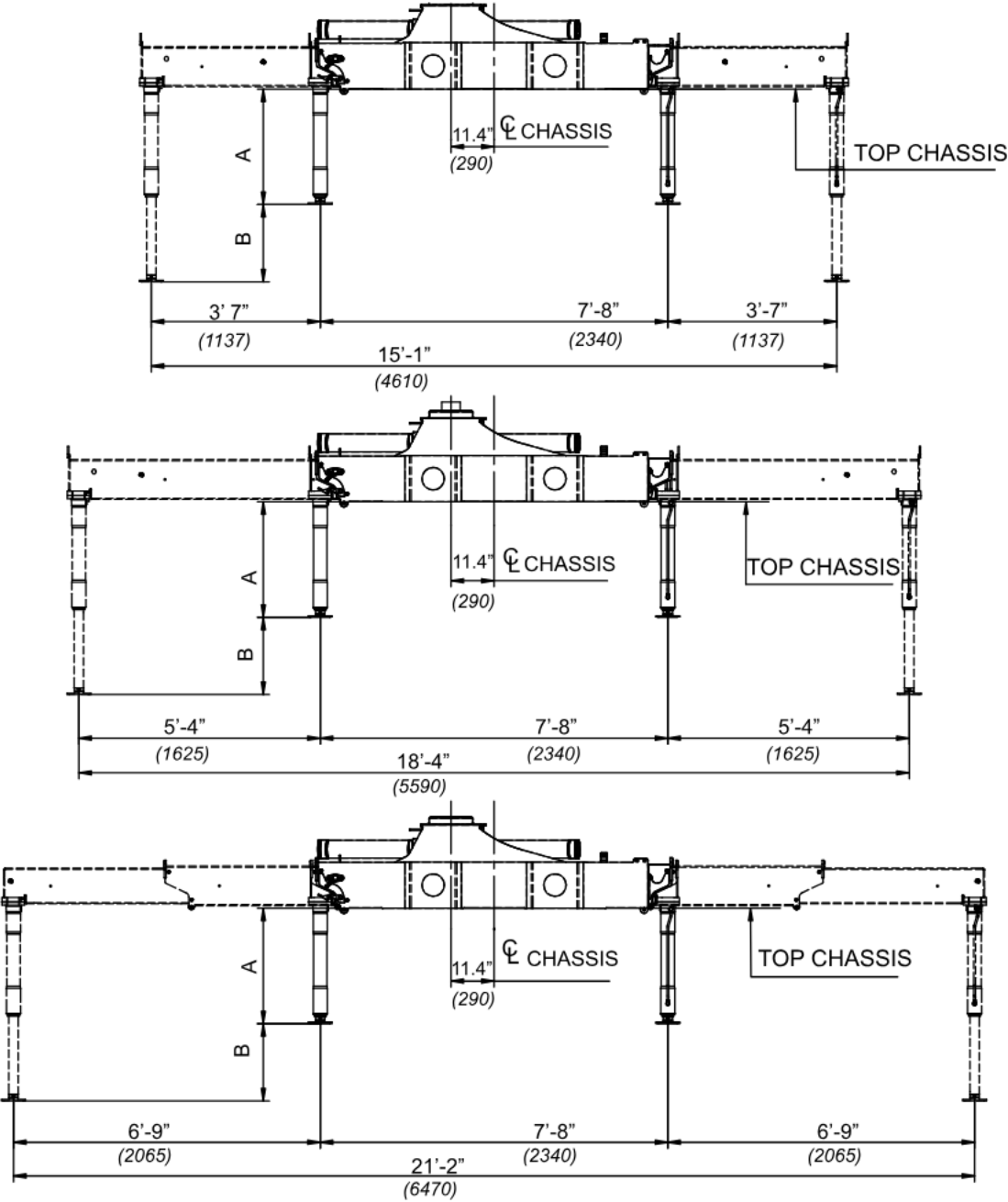
MOUNTING KIT 4 x M30 x 2 BOLTS



Lifting Height at Column



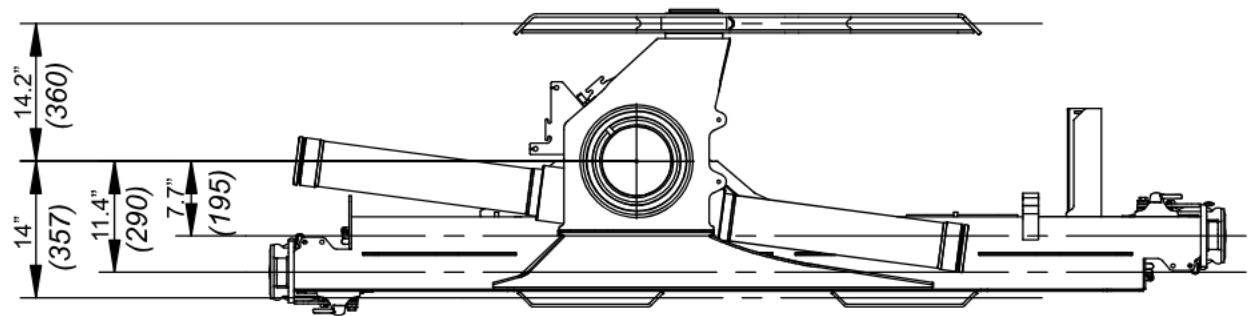
Dimension Sketch, Fixed Stabilizer Legs



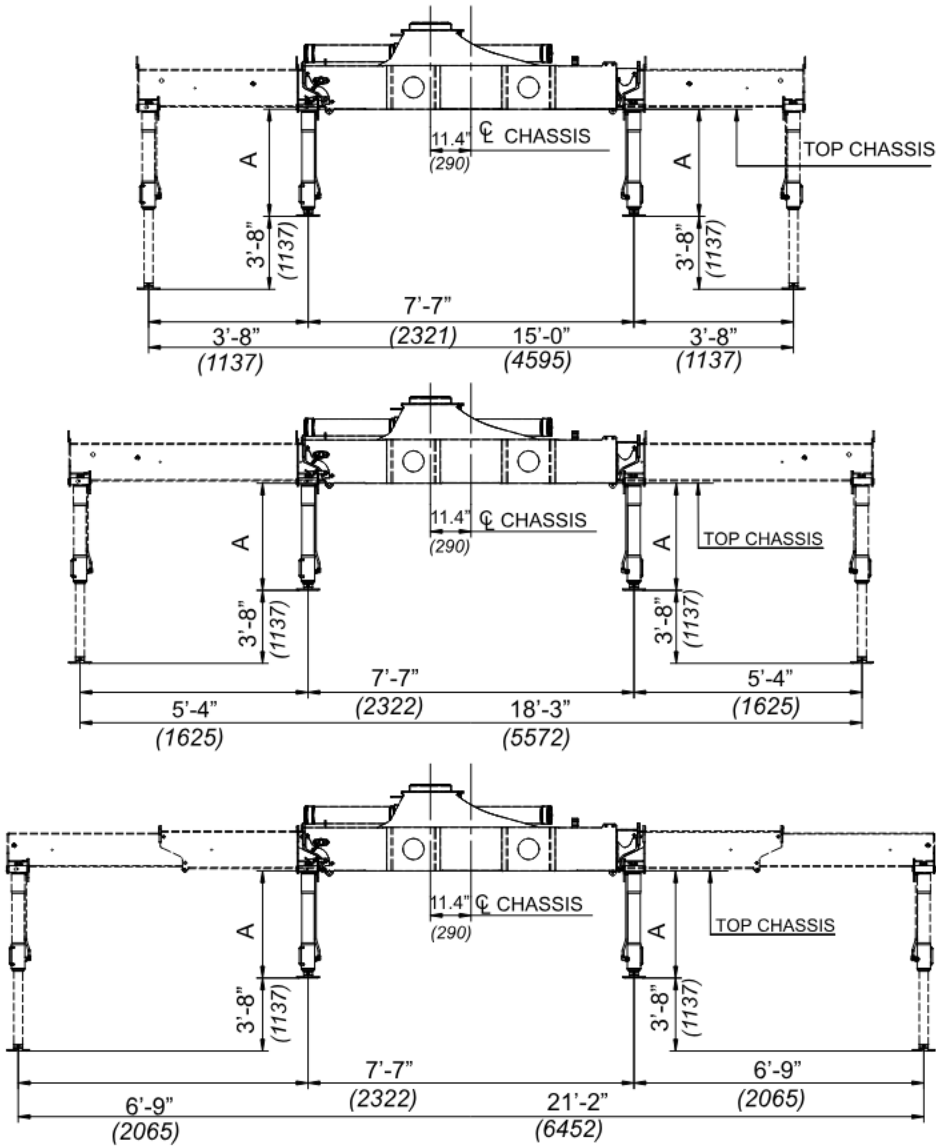
B			
22.8"	A	27.8"	30.4"
26.8"	A	31.7"	34.3"

B			
22.8"	A	30.4"	32.9"
26.8"	A	34.4"	36.8"

CONTINUED

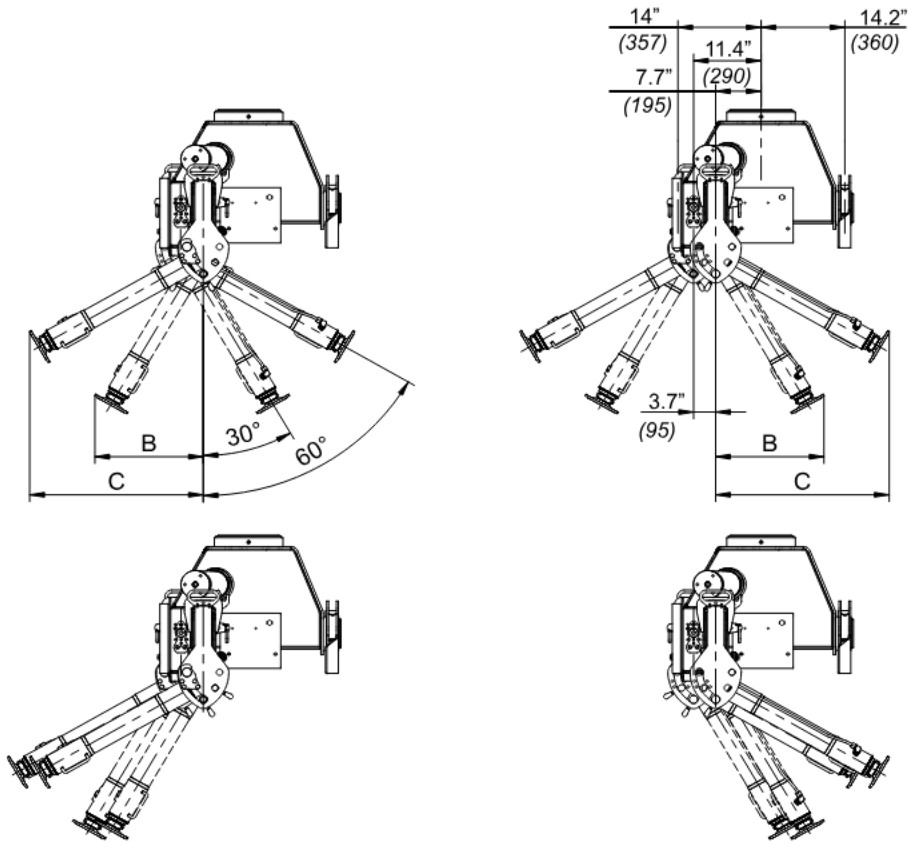


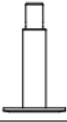
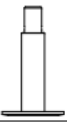
Dimension sketch, swing-up stabilizer legs 30°- 60° (manual)



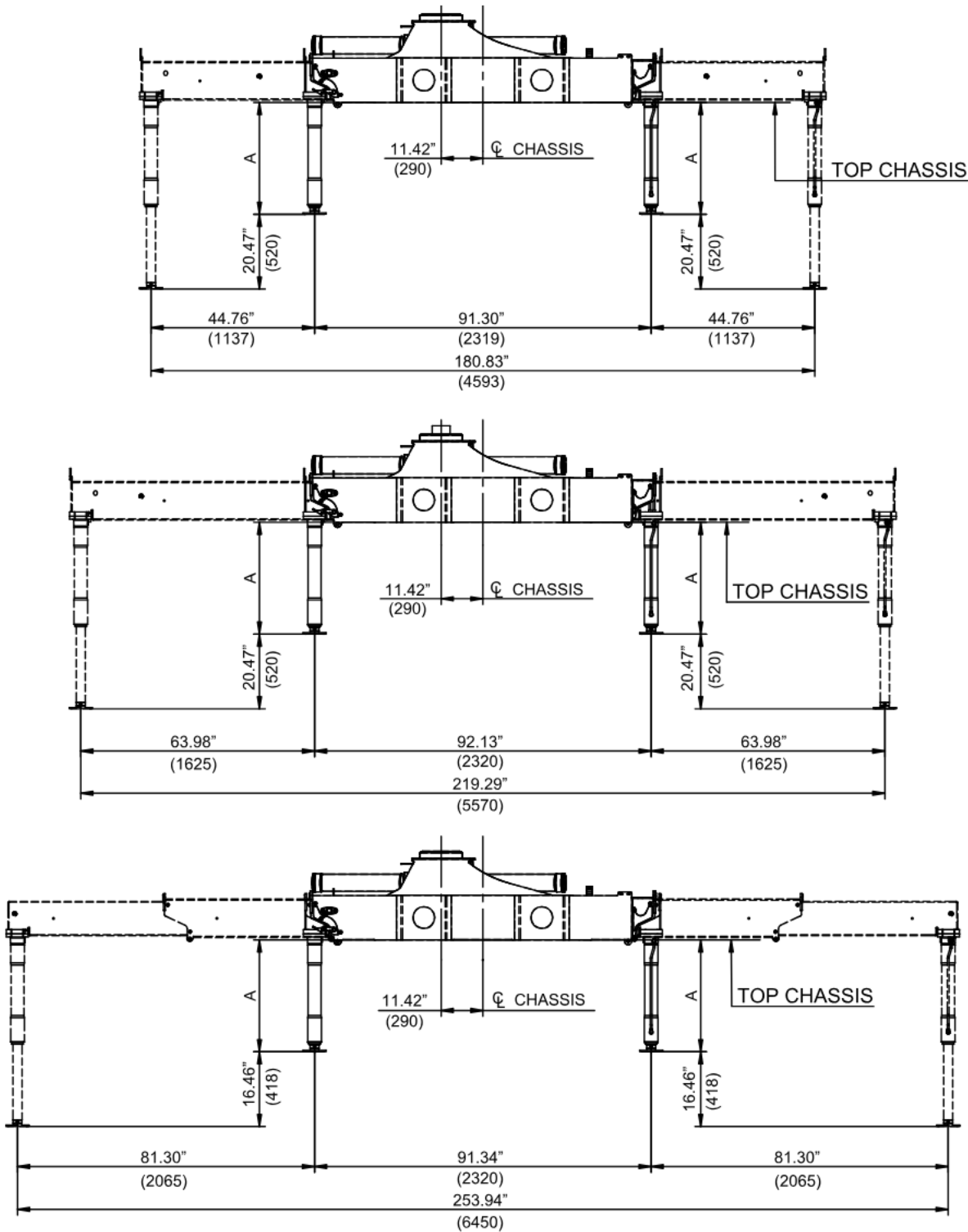
			
A Type R-60°	30.4"	34.3"	38.2"
A Type R-20° (Obsolete)	30.0"	34.0"	38.0"
A Type R-60°	771mm	871mm	971mm
A Type R-20° (Obsolete)	763mm	863mm	963mm

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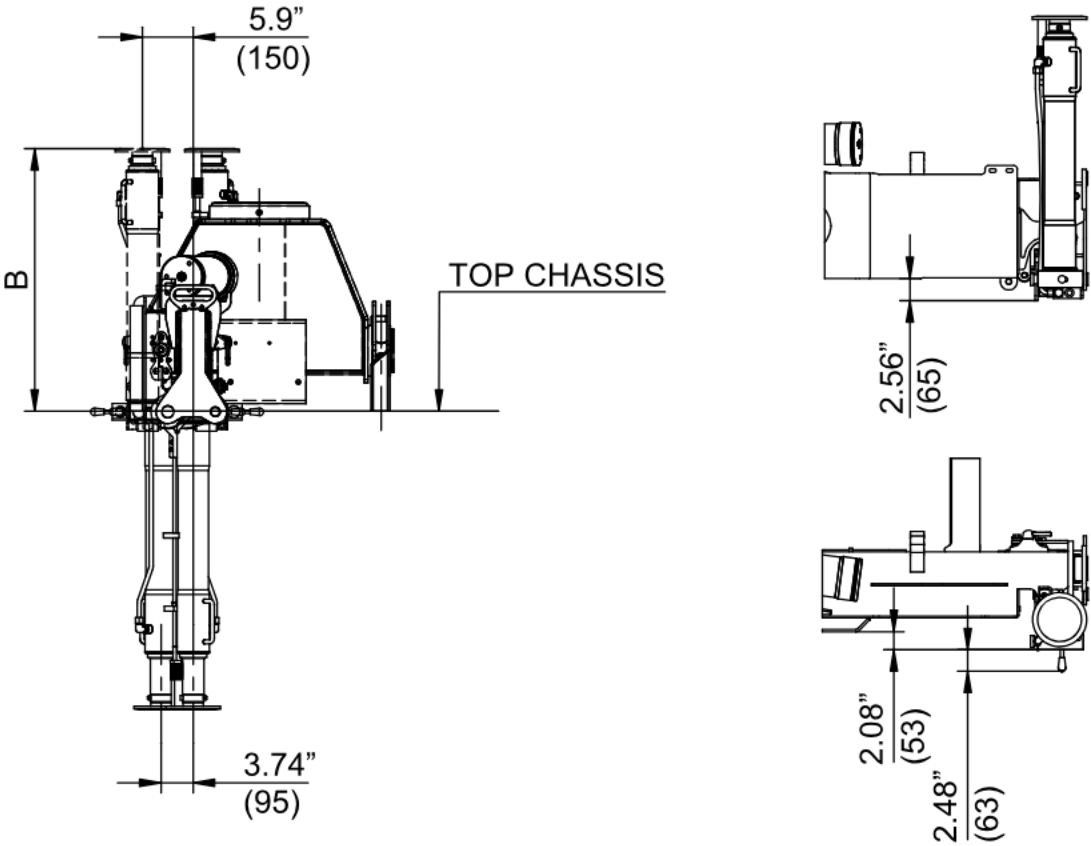
						
B	465mm	515mm	565mm	18.3"	20.3"	22.2"
C	744mm	831mm	918mm	29.3"	32.8"	36.1"

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

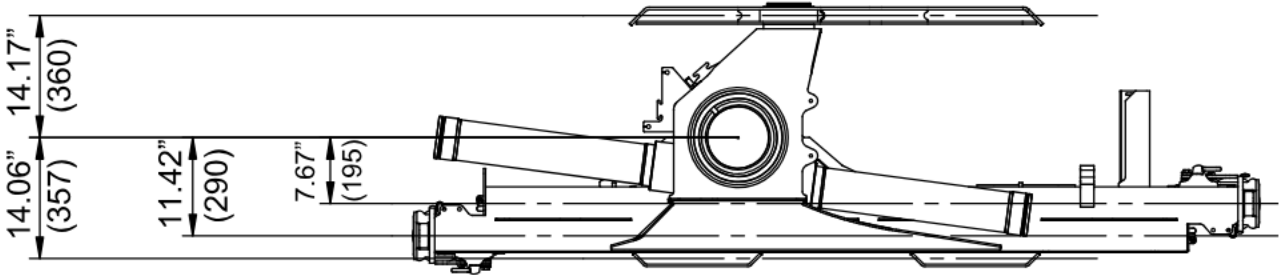


			
A	881	981	1081
A	34.69"	38.62"	42.56"

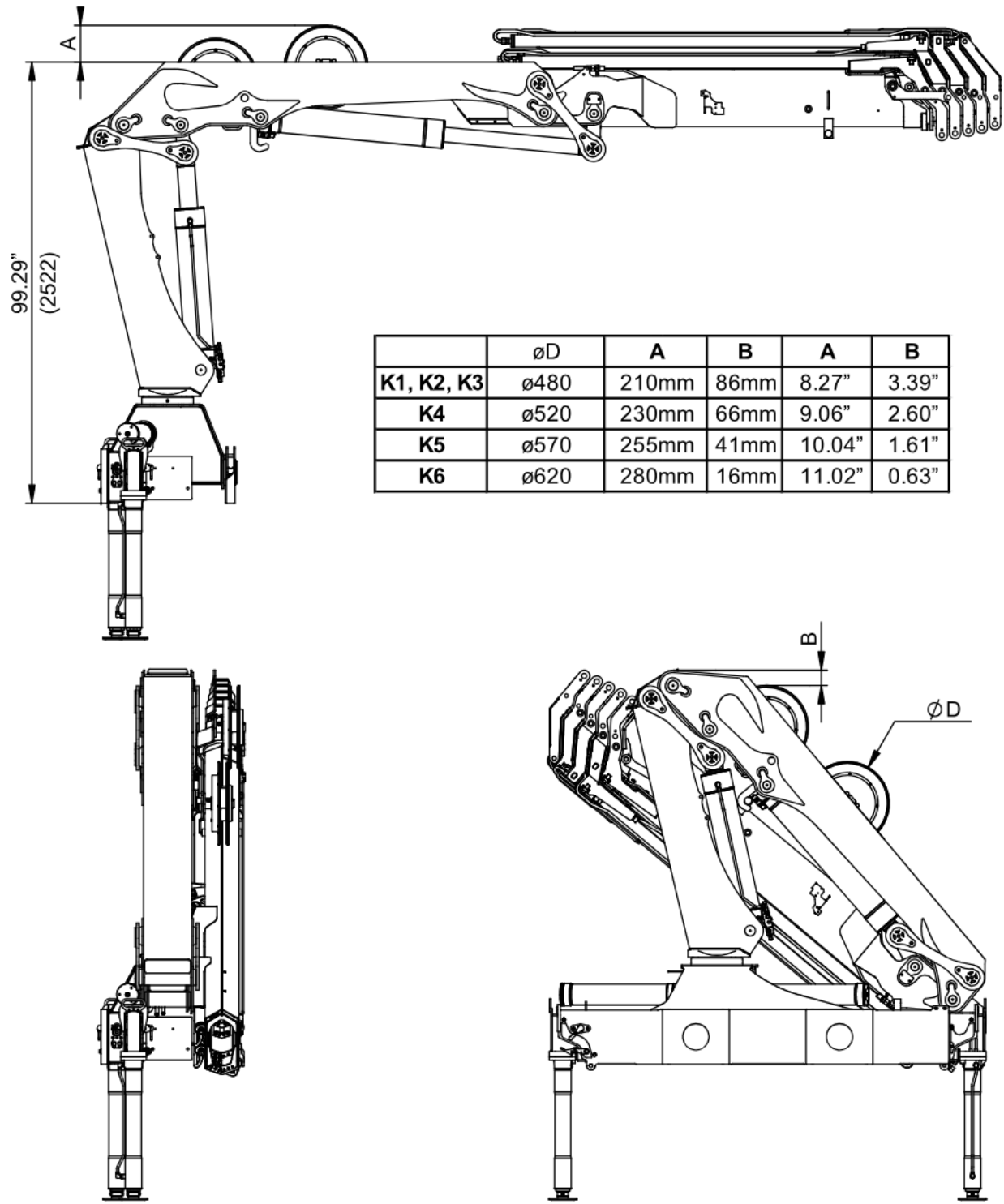
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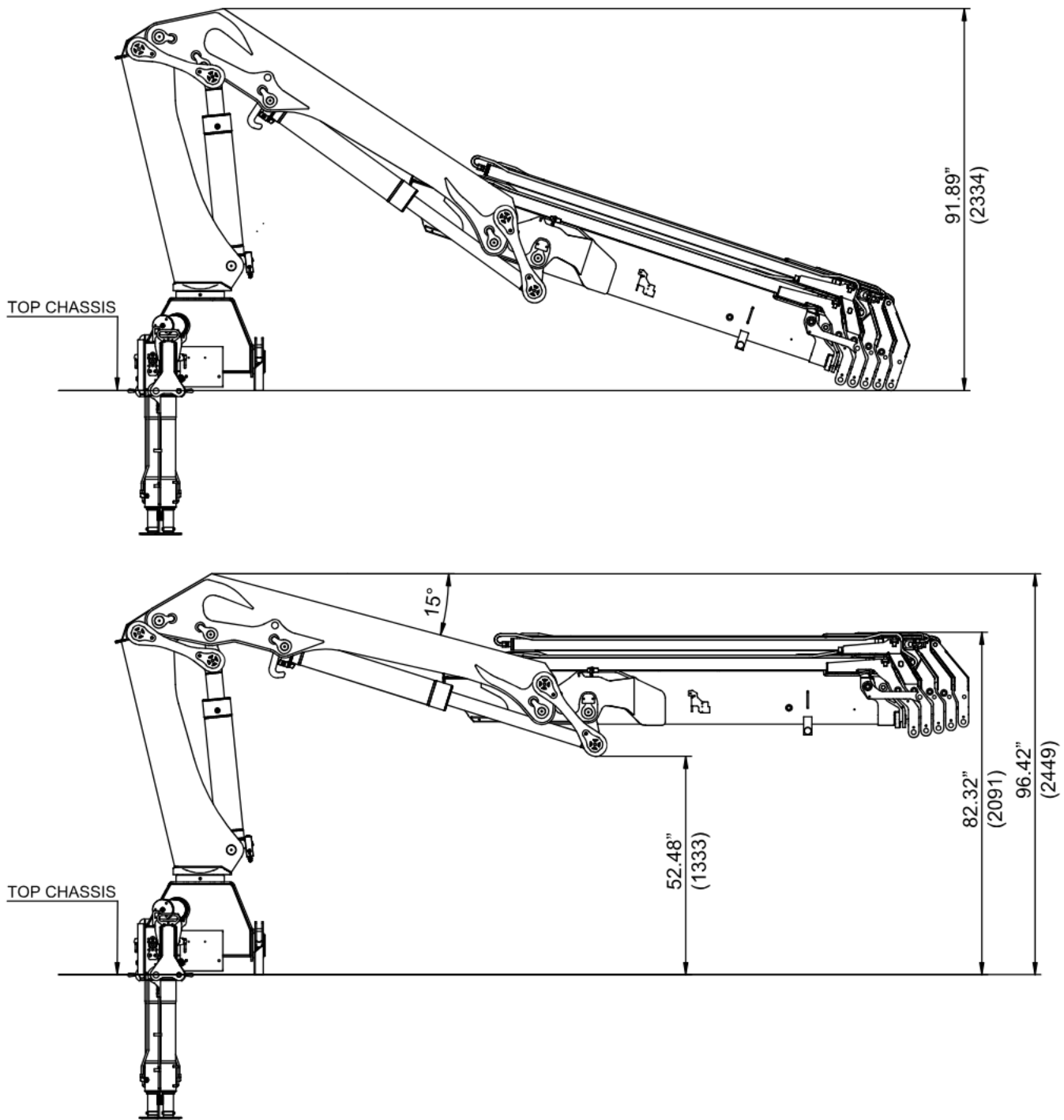
			
B	775mm	875mm	975mm
B	30.51"	34.45"	38.39"



Dimension Sketch, Internal Hose Routing

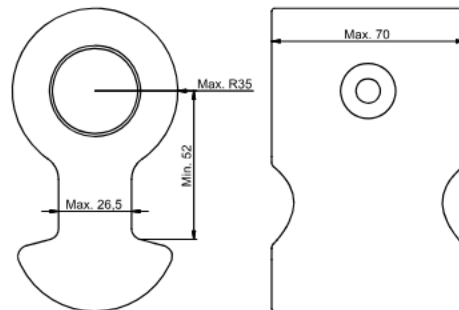
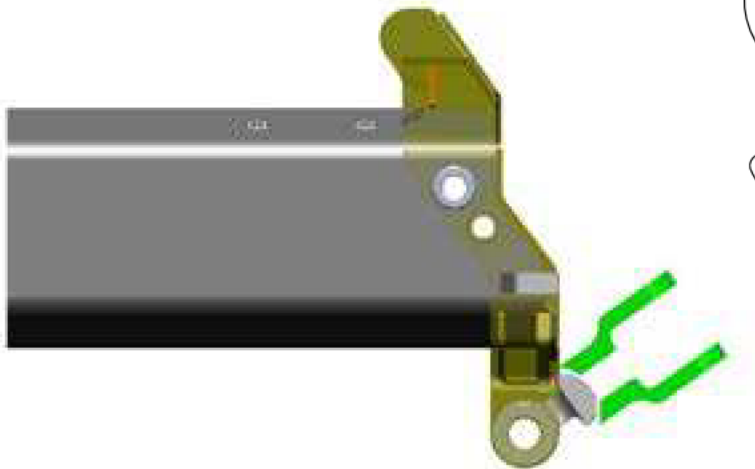
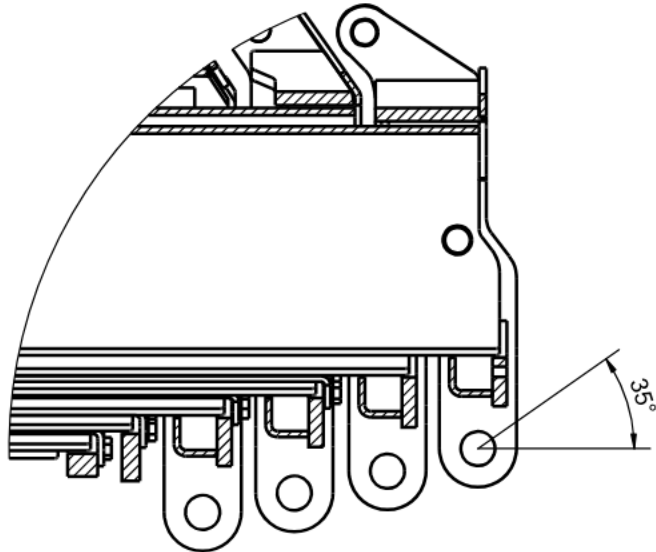


Stowed in Truck Body

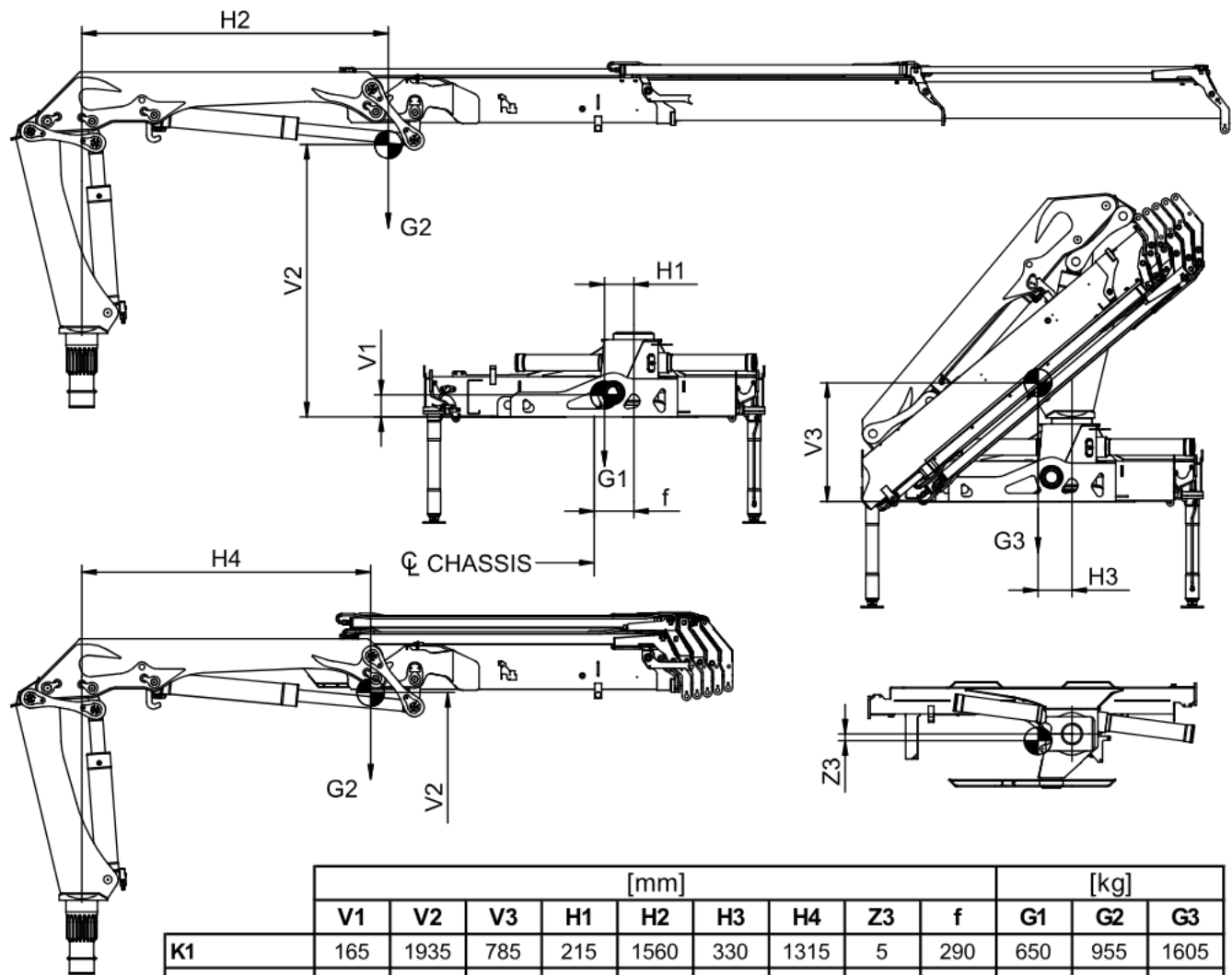


Dimension Sketch for Connecting Link

The connection link must be able to move freely at an angle of 35° (minimum) in both directions in relation to the longitudinal direction of the jib extension. This is to minimize the risk of damage to the hook suspension when placing crane equipment in the truck body.



Centers of Gravity



	[mm]									[kg]		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K1	165	1935	785	215	1560	330	1315	5	290	650	955	1605
K2	165	1995	800	215	2245	325	1560	10	290	650	1100	1750
K3	165	2040	820	215	2980	315	1750	25	290	650	1240	1890
K4	165	2070	835	215	3755	305	1900	40	290	650	1370	2020
K5	165	2095	850	215	4495	300	2020	55	290	650	1480	2130
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
K1	6.50	76.18	30.91	8.46	61.42	12.99	51.77	0.20	11.42	1433	2105	3538
K2	6.50	78.54	31.50	8.46	88.39	12.80	61.42	0.39	11.42	1433	2425	3858
K3	6.50	80.31	32.28	8.46	117.32	12.40	68.90	0.98	11.42	1433	2734	4167
K4	6.50	81.50	32.87	8.46	147.83	12.01	74.80	1.57	11.42	1433	3020	4453
K5	6.50	82.48	33.46	8.46	176.97	11.81	79.53	2.17	11.42	1433	3263	4696
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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1920 - RCS Hydraulic Drawings

Section - 7

Pressure setting diagram, fixed flow pump & 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			385		5584	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	2901
Extension cylinders	Extend	A	P	300	P	4351
	Retract	B	P	300	P	4351
Rotator	Right	A	P	200	P	2901
	Left	B	P	200	P	2901
Grab	Open	A	P	250	P	3626
	Close	B	P	250	P	3626
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	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	350 [bar]	5076 [PSI]
HDL	300 [bar]	4351 [PSI]

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

Pressure setting diagram, variable flow pump & RC

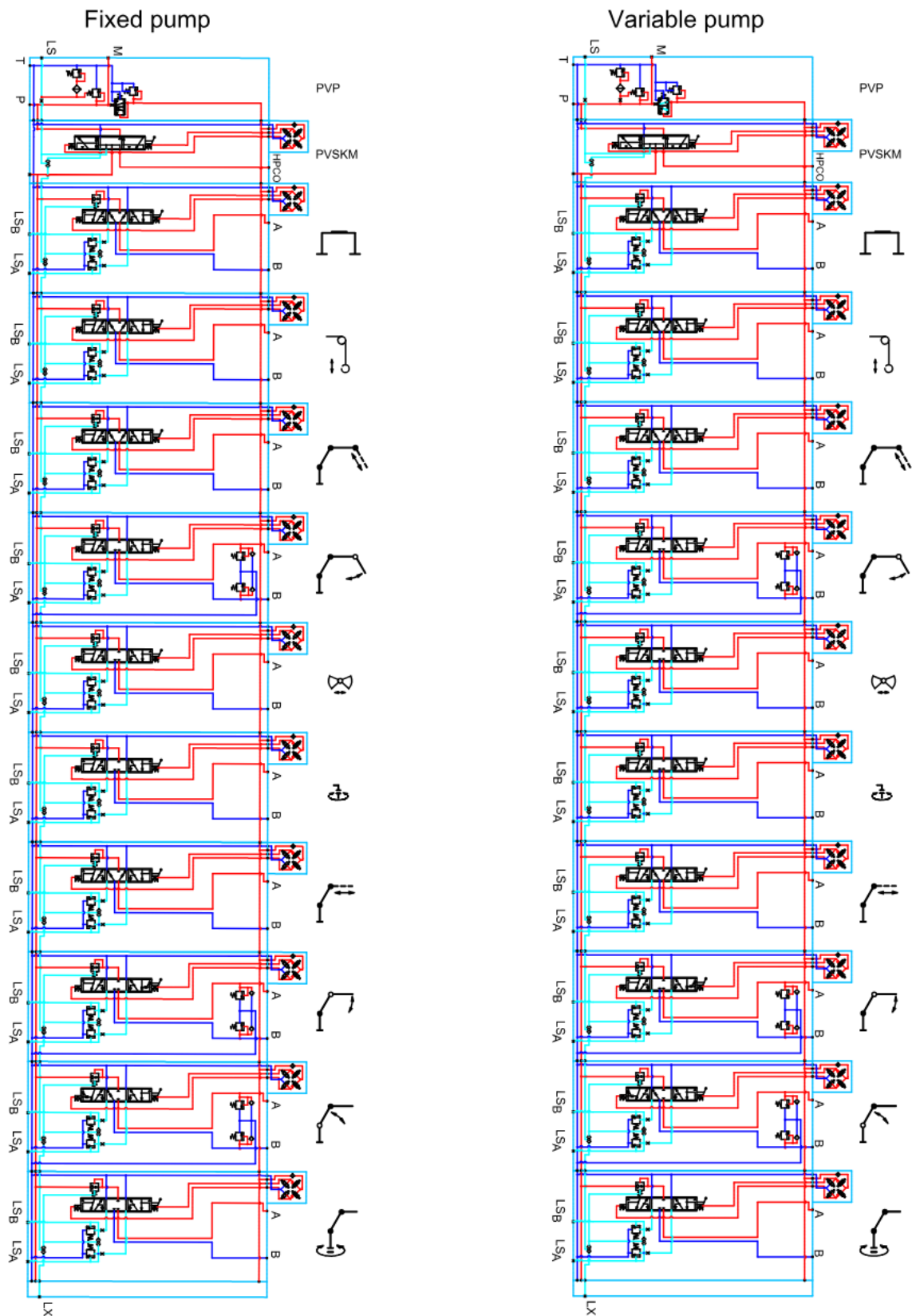
Working Pressure on Main-Relief Valve & Port- Relief Valves						
Function	Direction	Port	Port-relief valves [bar]	LS-pressure adjustment [bar]	Port-relief valves [PSI]	LS-pressure adjustment [PSI]
Main-relief valve			385		5584	
Slewing system	Right	A	P	180	P	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1813	1450
	Up	B	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	2901
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	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

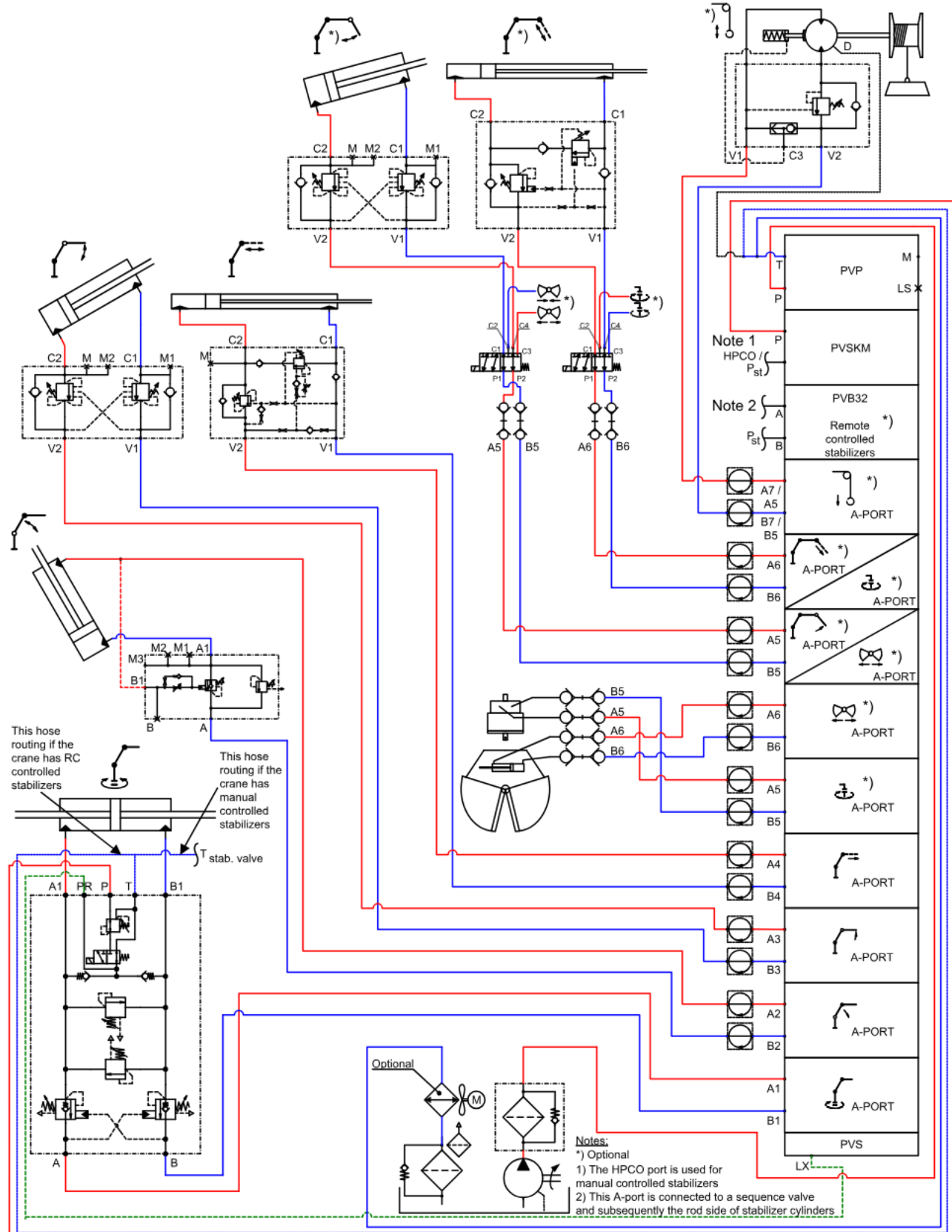
Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	350 [bar]	5076 [PSI]
HDL	300 [bar]	4351 [PSI]

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

Hydraulic Diagram PVG32 - Crane functions, control valve fixed and variable flow pump

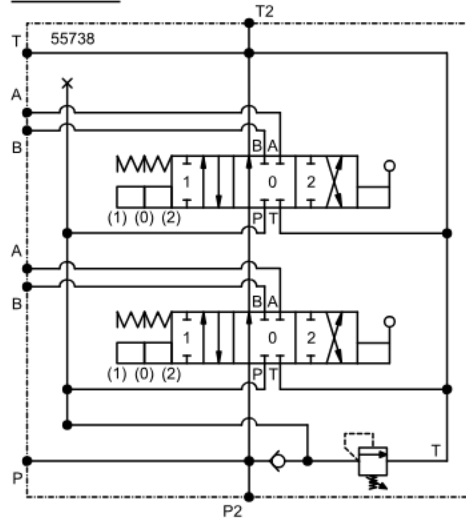


Hydraulic Diagram – Danfoss PVG32, single-circuit fixed 7 fcts. RC (3 EXV: FJ + 2 EXV, winch)

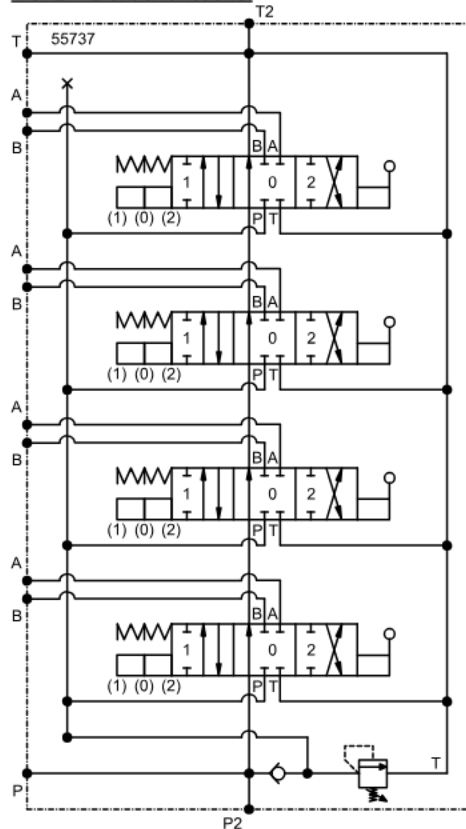


Hydraulic Diagram - Stabilizer circuit – Overview

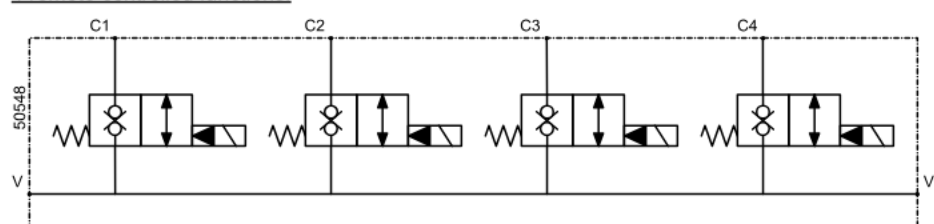
2 functions:



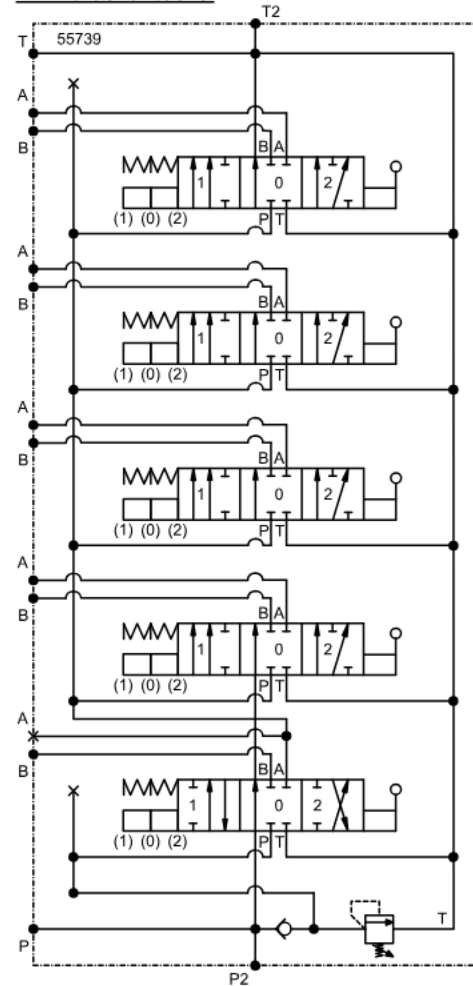
4 or 2 + 2 extra functions:



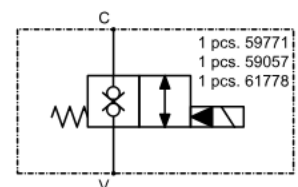
4 remote controlled functions:



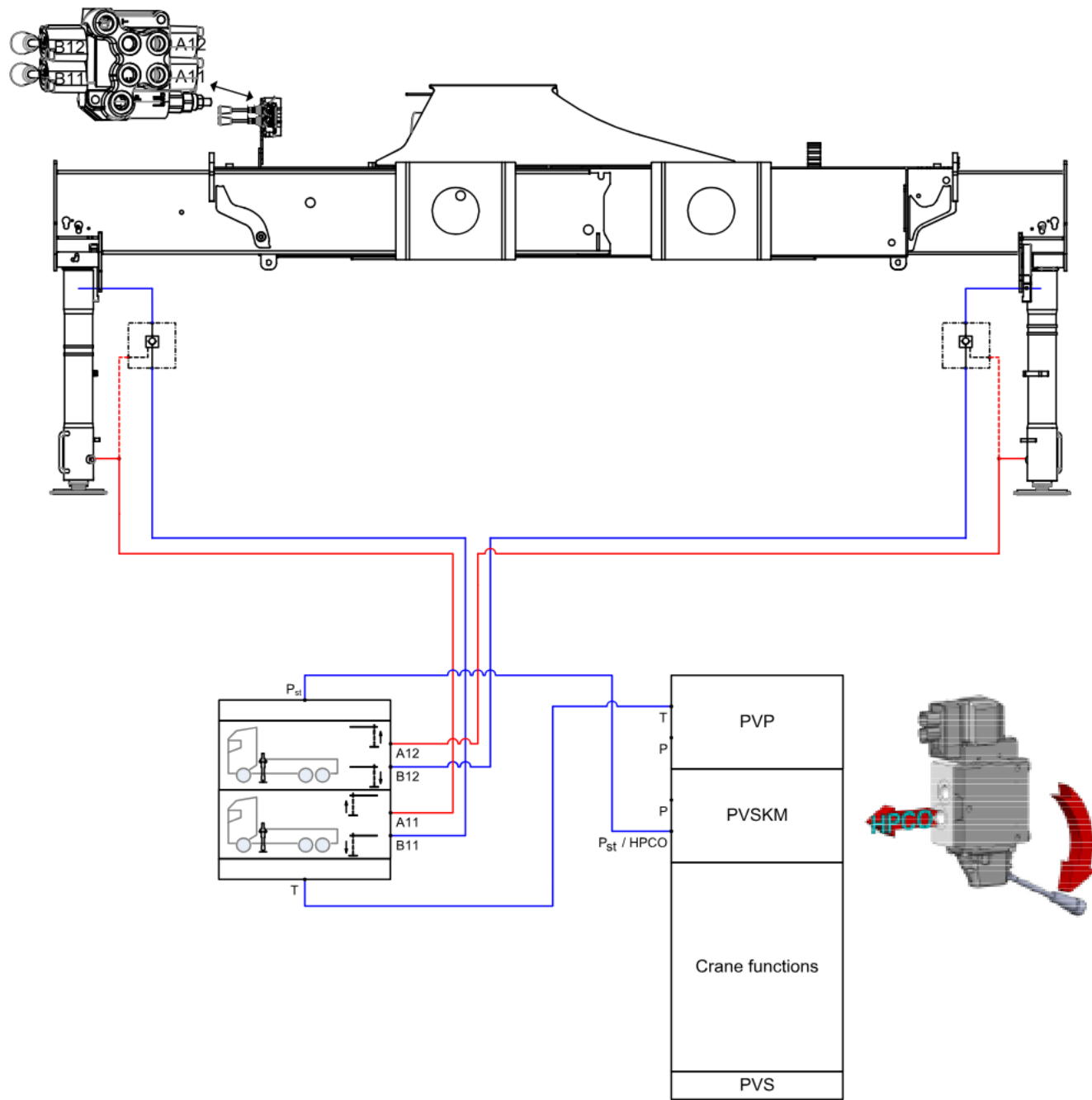
4 + 4 extra functions:



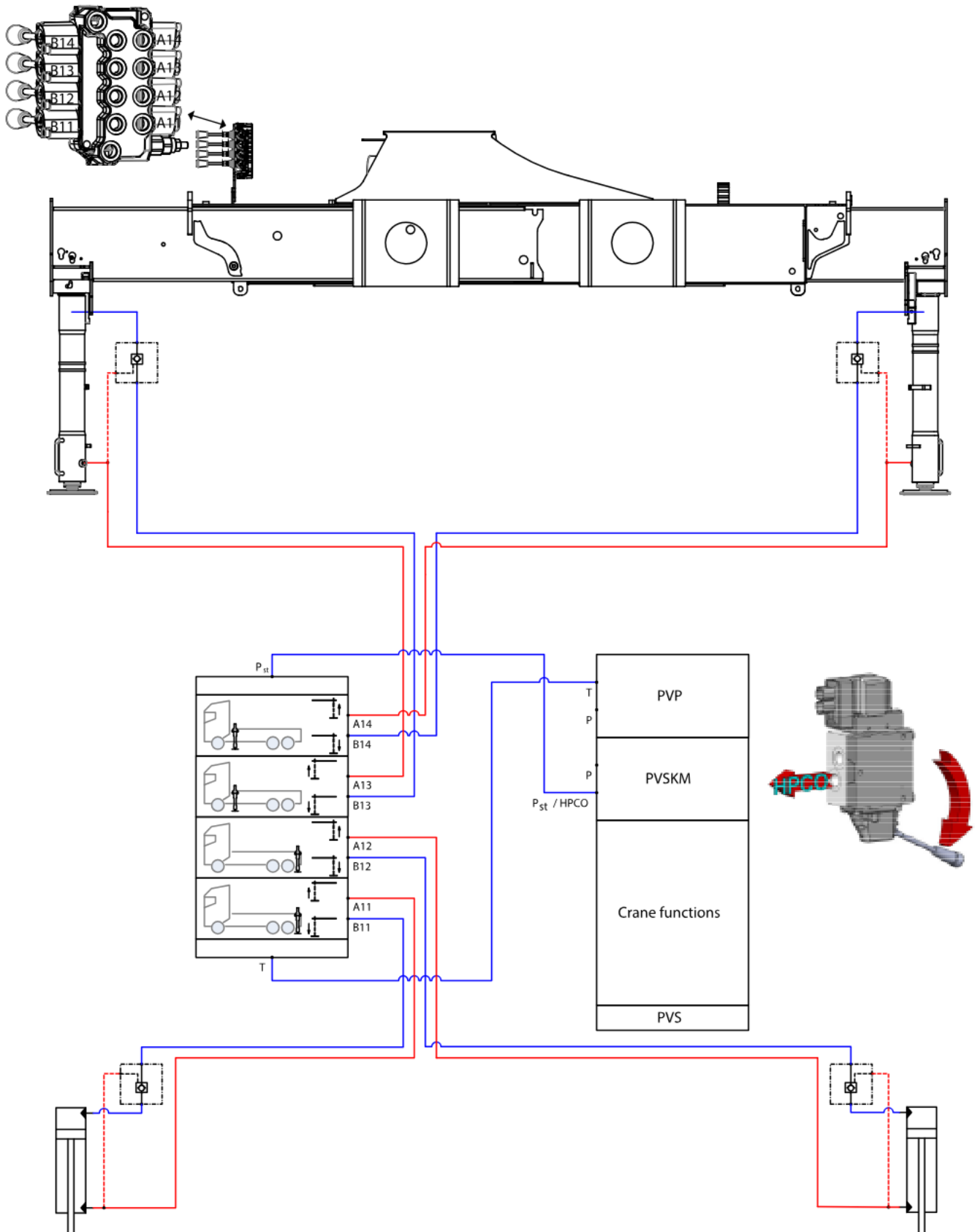
Extra remote controlled functions



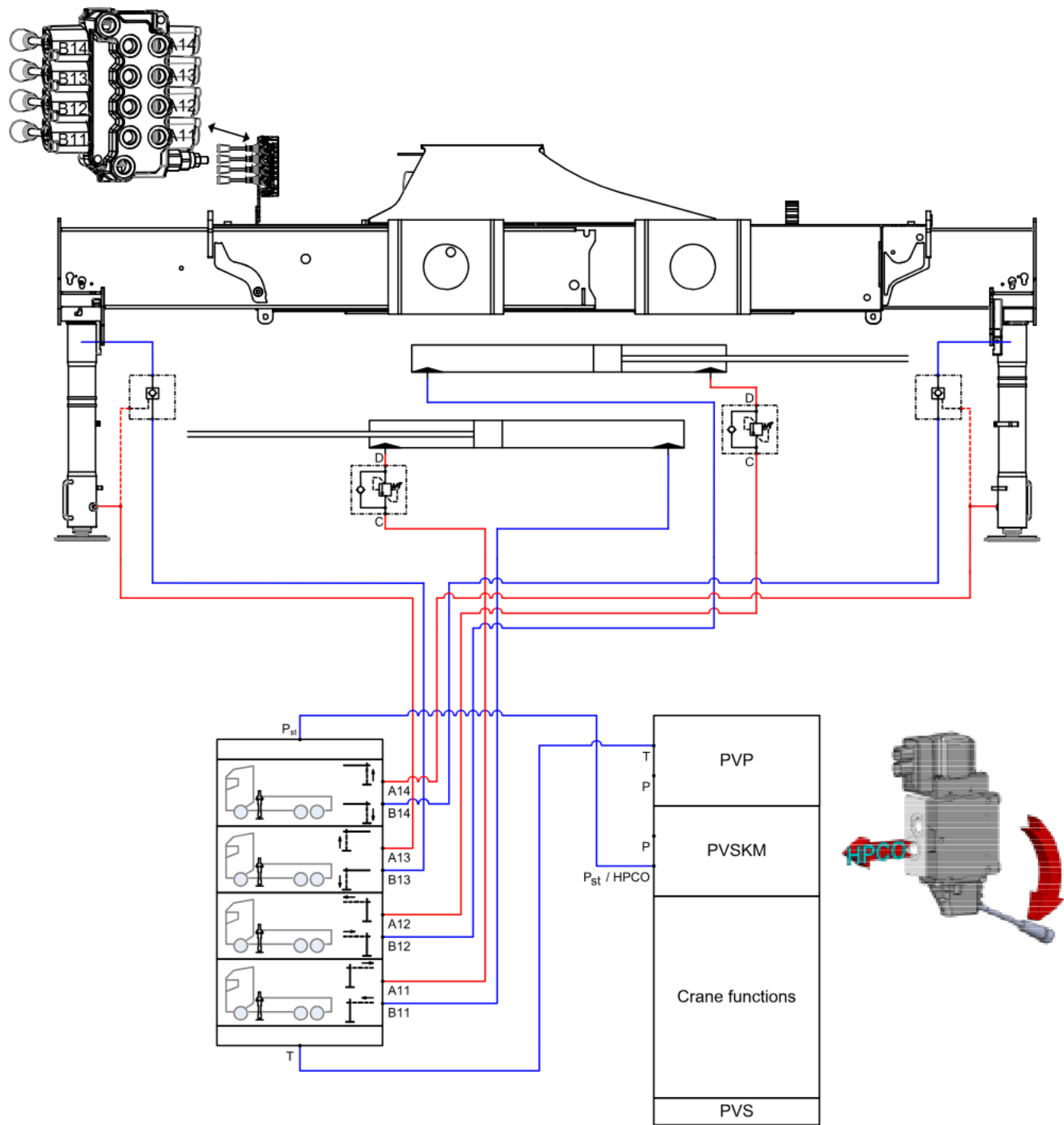
Hydraulic Diagram - Stabilizer circuit – 2 fcts.



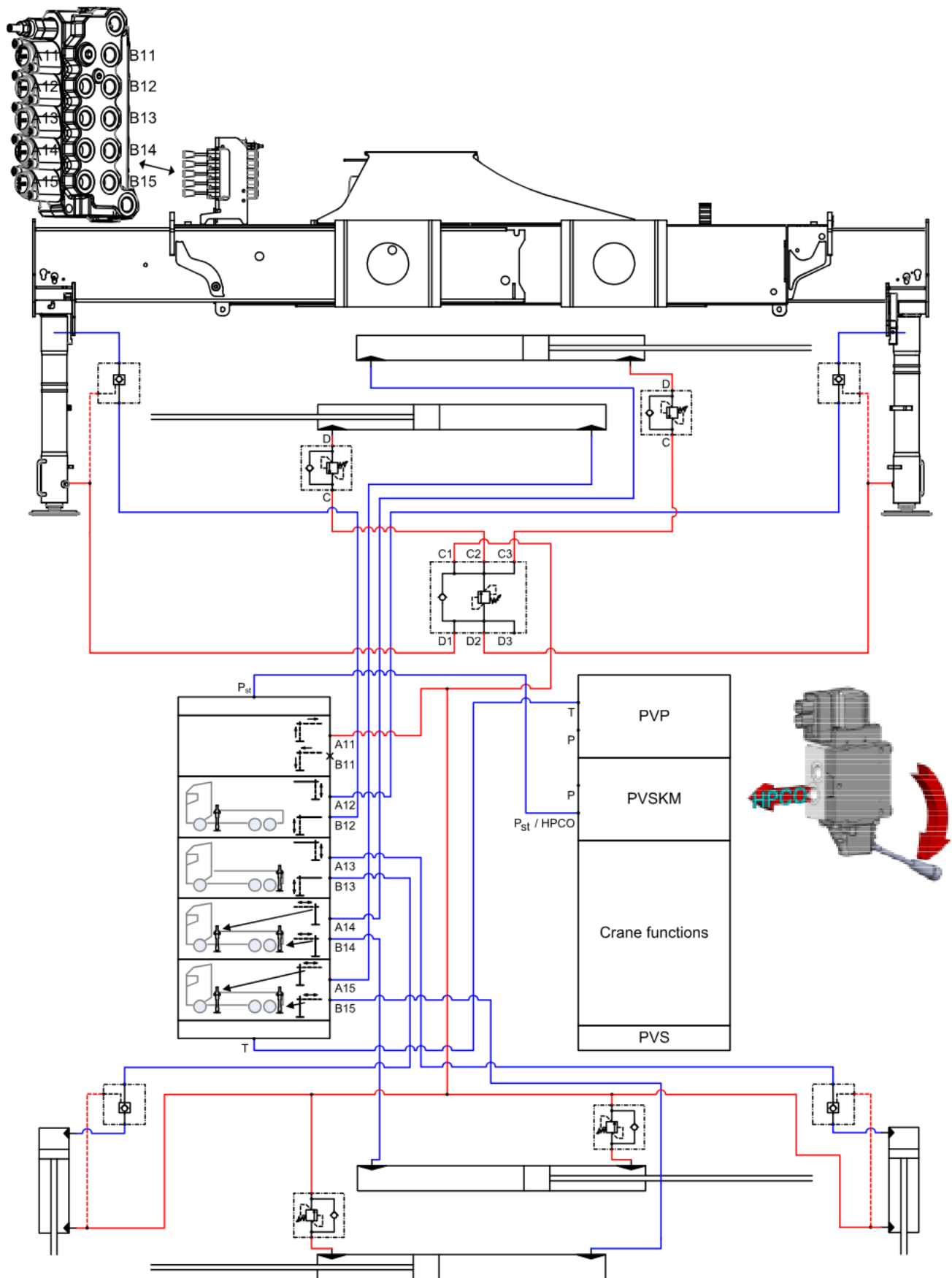
Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



Hydraulic Diagram - Stabilizer circuit – 4 fcts.



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



1920 RCS - Pressure Setting for Diagram, Fly-Jib 700

Function		Direction	Port	1920-K3 FJ700 (Bar)	1920-K3 FJ700 (psi)
Jib Cylinder	LS-pressure adjustment	Up	A	320	4641
		Down	B	250	3626
	Port-relief valves	Up	A	350	5076
		Down	B	300	4351
	Working Pressure on Load-holding Valves	Up		365	5294
		Down		250	3626
Extension Cylinder	LS-pressure adjustment	Extend	A	275	3989
		Retract	B	275	3989
	Working Pressure on Load-holding Valves	Extend		210	3046
		Retract		430	6237
		Load Moment Limitation (LMB)			



IOWA MOLD TOOLING CO., INC.

P.O. Box 189 Garner, IA 50438

Tel: 641.923.3711

Fax: 641.923.2424

www.imt.com

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