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Manual # 99906425

2810 / 2820 RCS Technical Specifications

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2810 Technical Specifications

Section - 1

2810 RCS - Specifications

Performance	Unit	K2	K3	K4	K5	K6	K7	K8
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	ft-lb	185888	1825272	177932	175039	172145	169252	166359
Hydraulic reach	ft	27'1"	33'11"	41'0"	48'6"	56'1"	63'4"	70'10"
Hydraulic telescopic movement	ft	12'6"	19'1"	26'	33'2"	40'7"	47'7"	54'10"
Lifting capacity, hydraulic	lb-ft	13095-14'1"	12610-14'5"	12125-14'8"	11709-15'1"	11310-15'2"	10957-15'5"	10606-15'9"
		9061-20'4"	8664-20'8"	8267-21'0"	7916-21'0"	7561-21'4"	7319 - 21'7"	7012-22'0"
		6900-26'10"	6526-26'10"	6151-27'3"	5821-27'6"	5490-28'0"	5269 - 27'10"	5004-28'3"
			5225-33'5"	4850-33'9"	4542-34'1"	4234-34'5"	4012 - 34'5"	3748-34'9"
				4012-40'8"	3682- 41'0"	3396-41'4"	3175 - 41'4'	2932-41'8"
					3109- 48'2"	2800-48'6"	2601 - 48'6"	2359-48'11'
						2403-55'9"	2205 - 56'1"	1962-56'5"
							1940 - 63'0"	1720-63'3"
								1521-70'6"
Lifting capacity, manual extensions	lb-ft			3263-48'2"	2580-56'1"	2029-63'7"	1367-70'10"	706-78'4"
Slewing torque, gross	lbft	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Slewing angle	°	400	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24	24

Minimum Chassis Specs	
Front Axle Rating (GAWR)	14,000 lbs (6.50 kg)
Rear Axle Rating (GAWR)	40,000 lbs (18,150 kg)
Resistance to Bending Moment	2,700,00in-lbs (373,300 kg-m)

2810 - Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	ft	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"
Width	ft	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"
Width with extra valves (int. hose routing)	ft	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"
Length, no extra valves	ft	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"	3' 3"	3' 3"
Length, with extra valves (hose guides)	ft	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"		
Length, with 1 extra valve (hose reels)	ft						3' 3"	3' 3"
Length, with 2 extra valves (hose reels)	ft						3' 4"	3' 4"
Length, with extra valves (int. hose routing)	ft	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"		
Stabilizer spread, S1 (standard)	ft	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"
Stabilizer spread, D1	ft	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"
Stabilizer spread, D2	ft	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"	24' 3"

Weights, basic loader	Unit	K2	K3	K4	K5	K6	K7	K8
Standard loader 1), excl. stabilizers	lb	4178	4553	4994	5325	5634	5865	6053
Stabilizers, S1 fixed	lb	639	639	639	639	639	639	639
Stabilizers, S1 swing-up	lb	650	650	650	650	650	650	650
Stabilizers, S1 hydr. swing-up	lb	662	662	662	662	662	662	662
Stabilizers, D1 fixed	lb	805	805	805	805	805	805	805
Stabilizers, D1 swing-up	lb	882	882	882	882	882	882	882
Stabilizers, D1 hydr. swing-up	lb	904	904	904	904	904	904	904
Stabilizers, D2 fixed	lb	992	992	992	992	992	992	992
Stabilizers, D2 swing-up	lb	1.058	1.058	1.058	1.058	1.058	1.058	1.058
Stabilizers, D2 hydr. swing-up	lb	1.058	1.058	1.058	1.058	1.058	1.058	1.058
Mounting kit, 4 bolts	lb	143	143	143	143	143	143	143
Mounting kit, 8 bolts	lb	132	132	132	132	132	132	132
Tank, excl. oil (fitted on loader)	lb	99	99	99	99	99	99	99
Manual extensions	lb			176	154	132	99	77
Oil in loader (stowing position)	lb	88	99	110	121	1362	143	154

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

2810 RCS - Specifications - Continued

Weights, equipment	Unit	K2	K3	K4	K5	K6	K7	K8
Stand-up controls (HS), std.	lb	132	132	132	132	132	132	132
Stand-up controls (HS), direct valve control	lb	154	154	154	154	154	154	154
Top seat (TS)	lb	198	198	198	198	198	198	198
Top seat, ladder	lb	44	44	44	44	44	44	44
1 extra valve, hose guides	lb	121	143	165	187	209		
1 extra valve, hose reels	lb						209	209
1 extra valve, int. hose routing	lb	165	165	176	176	187		
2 extra valves, hose guides	lb	165	198	232	265	298		
2 extra valves, hose reels	lb						408	408
2 extra valves, int. hose routing	lb	287	287	309	320	331		
Winch (1.5 t), single snatch block	lb	386	386	386	386	397	397	419
Winch (1.5 t), double snatch block	lb	375	375	375	375	386	386	397
Winch (2.5 t), single snatch block	lb	441	441	441	441	452	452	463
Winch (2.5 t), double snatch block	lb	430	430	430	430	441	441	452
High-pressure filter	lb	15	15	15	15	15	15	15
Oil cooler	lb	55	55	55	55	55	55	55

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K2	K3	K4	K5	K6	K7	K8
S1, fixed	lbf	26	26	26	26	26	26	26
S1, swing-up	lbf	26	26	26	26	26	26	26
S1, hydr. swing-up	lbf	26	26	26	26	26	26	26
D, fixed	lbf	22	22	22	22	22	22	22
D, swing-up	lbf	22	22	22	22	22	22	22
D, hydr. swing-up	lbf	22	22	22	22	22	22	22

Power consumption (oil capacity)	Unit	K2	K3	K4	K5	K6	K7	K8
Working pressure	PSI	5294	5294	5294	5294	5294	5294	5294
Tank capacity (fitted on loader)	ga	24	24	24	24	24	24	24
Tank capacity, big (fitted on loader)	ga	NA	NA	NA	NA	NA	NA	NA
Max. pump performance, Danfoss fixed flow	gpm	18	18	18	18	18	18	18
Max. pump performance, Danfoss variable	gpm	32	32	32	32	32	32	32

2810 RCS - Metric Specifications

Performance	Unit	K2	K3	K4	K5	K6	K7	K8
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	tm	25.7	25.2	24.	24.2	23.8	23.5	23
Hydraulic reach	m	8.3	10.3	12.5	14.8	17.1	19.3	21.6
Hydraulic telescopic movement	mm	3830	5840	7930	10130	12370	14520	16720
Lifting capacity, hydraulic	kg-m	5950-4.3	5720-4.4	5500-4.5	5310-4.6	5130-4.6	4970-4.7	4810-4.8
		4110-6.2	3930-6.3	3750-6.4	3590-6.4	3430-6.5	3320-6.6	3180-6.7
		3130-8.2	2960-8.2	2790-8.3	2640-8.4	2490-8.5	2390-8.5	2270-8.6
			2370-10.2	2200-10.3	2060-10.4	1920-10.5	1820-10.5	1700-10.6
				1820-12.4	1670-12.5	1540-12.6	1440-12.6	1330-12.7
					1410-14.7	1270-14.8	1180-14.8	1070-14.9
						1090-17	1000-17.	890-17.2
							880-19.2	780-19.3
								690-21.5
Lifting capacity, manual extensions	kg-m			1480-14.7	1170-17.1	920-19.4	620-21.6	320-23.9
Slewing torque, gross	kNm	27.1	27.1	27.1	27.1	27.1	27.1	27.1
Slewing angle	°	400	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24	24

2810 RCS - Metric Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	mm	2295	2295	2295	2295	2295	2295	2295
Width	mm	2500	2500	2500	2500	2500	2500	2500
Width with extra valves (int. hose routing)	mm	2535	2535	2535	2535	2535		
Length, no extra valves	mm	885	885	885	885	885	995	995
Length, with extra valves (hose guides)	mm	1010	1010	1010	1010	1010		
Length, with 1 extra valve (hose reels)	mm						995	995
Length, with 2 extra valves (hose reels)	mm						1030	1030
Length, with extra valves (int. hose routing)	mm	885	885	885	885	885		
Stabilizer spread, S1 (standard)	mm	5575	5575	5575	5575	5575	5575	5575
Stabilizer spread, D1	mm	6455	6455	6455	6455	6455	6455	6455
Stabilizer spread, D2	mm	7400	7400	7400	7400	7400	7400	7400

Weights, basic loader	Unit	K2	K3	K4	K5	K6	K7	K8
Standard loader 1), excl. stabilizers	kg	1895	2065	2265	2415	2555	2660	2745
Stabilizers, S1 fixed	kg	290	290	290	290	290	290	290
Stabilizers, S1 swing-up	kg	295	295	295	295	295	295	295
Stabilizers, S1 hydr. swing-up	kg	300	300	300	300	300	300	300
Stabilizers, D1 fixed	kg	365	365	365	365	365	365	365
Stabilizers, D1 swing-up	kg	370	370	370	370	370	370	370
Stabilizers, D1 hydr. swing-up	kg	375	375	375	375	375	375	375
Stabilizers, D2 fixed	kg	365	365	365	365	365	365	365
Mounting kit, 4 bolts	kg	65	65	65	65	65	65	65
Mounting kit, 8 bolts	kg	60	60	60	60	60	60	60
Tank, excl. oil (fitted on loader)	kg	45	45	45	45	45	45	45
Manual extensions	kg			80	70	60	45	35
Oil in loader (stowing position)	kg	40	45	50	55	60	65	70

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

2810 RCS - Metric Specifications - Continued

Weights, equipment	Unit	K2	K3	K4	K5	K6	K7	K8
Stand-up controls (HS), std.	kg	60	60	60	60	60	60	60
Stand-up controls (HS), direct valve control	kg	70	70	70	70	70	70	70
Top seat (TS)	kg	90	90	90	90	90	90	90
Top seat, ladder	kg	20	20	20	20	20	20	20
1 extra valve, hose guides	kg	55	65	75	85	95		
1 extra valve, hose reels	kg						95	95
1 extra valve, int. hose routing	kg	75	75	80	80	85		
2 extra valves, hose guides	kg	75	90	105	120	135		
2 extra valves, hose reels	kg						185	185
2 extra valves, int. hose routing	kg	130	130	140	145	150		
Winch (1.5 t), single snatch block	kg	175	175	175	175	180	180	190
Winch (1.5 t), double snatch block	kg	170	170	170	170	175	175	180
Winch (2.5 t), single snatch block	kg	200	200	200	200	205	205	210
Winch (2.5 t), double snatch block	kg	195	195	195	195	200	200	205
High-pressure filter	kg	7	7	7	7	7	7	7
Oil cooler	kg	25	25	25	25	25	25	25

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K2	K3	K4	K5	K6	K7	K8
S1, fixed	kN	120	120	120	120	120	120	120
S1, swing-up	kN	120	120	120	120	120	120	120
S1, hydr. swing-up	kN	120	120	120	120	120	120	120
D, fixed	kN	100	100	100	100	100	100	100
D, swing-up	kN	100	100	100	100	100	100	100
D, hydr. swing-up	kN	100	100	100	100	100	100	100

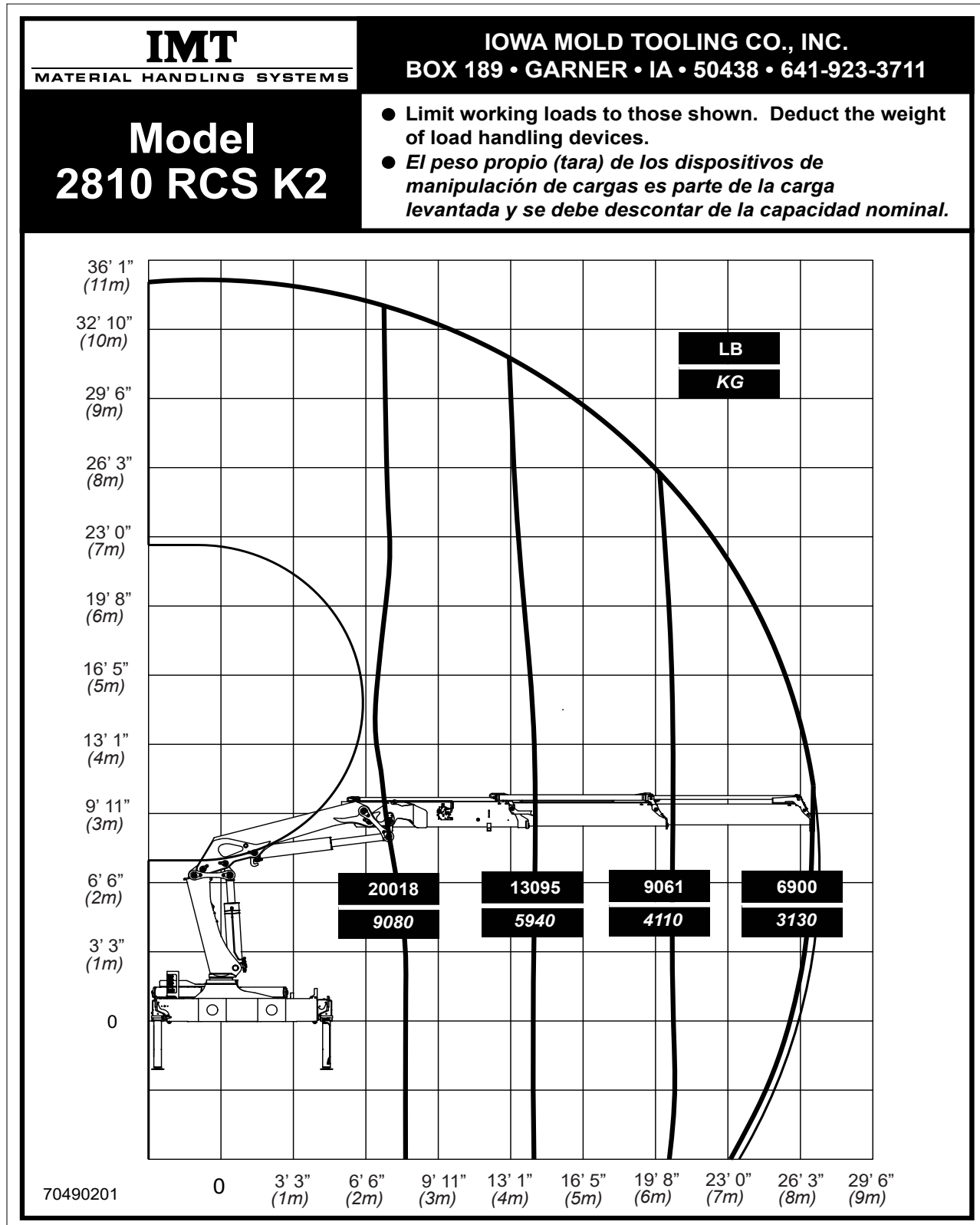
Power consumption (oil capacity)	Unit	K2	K3	K4	K5	K6	K7	K8
Working pressure	Bar	365	365	365	365	365	365	365
Tank capacity (fitted on loader)	L	90	90	90	90	90	90	90
Tank capacity, big (fitted on loader)	L	NA	NA	NA	NA	NA	NA	NA
Max. pump performance, Danfoss variable	L/min	70	70	70	70	70	70	70
Max. pump performance, Danfoss variab	L/min	120	120	120	120	120	120	12

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2810 Load Capacity Charts

Section - 2

2810 Lifting Capacity Chart, K2



2810 Lifting Capacity Chart, K3

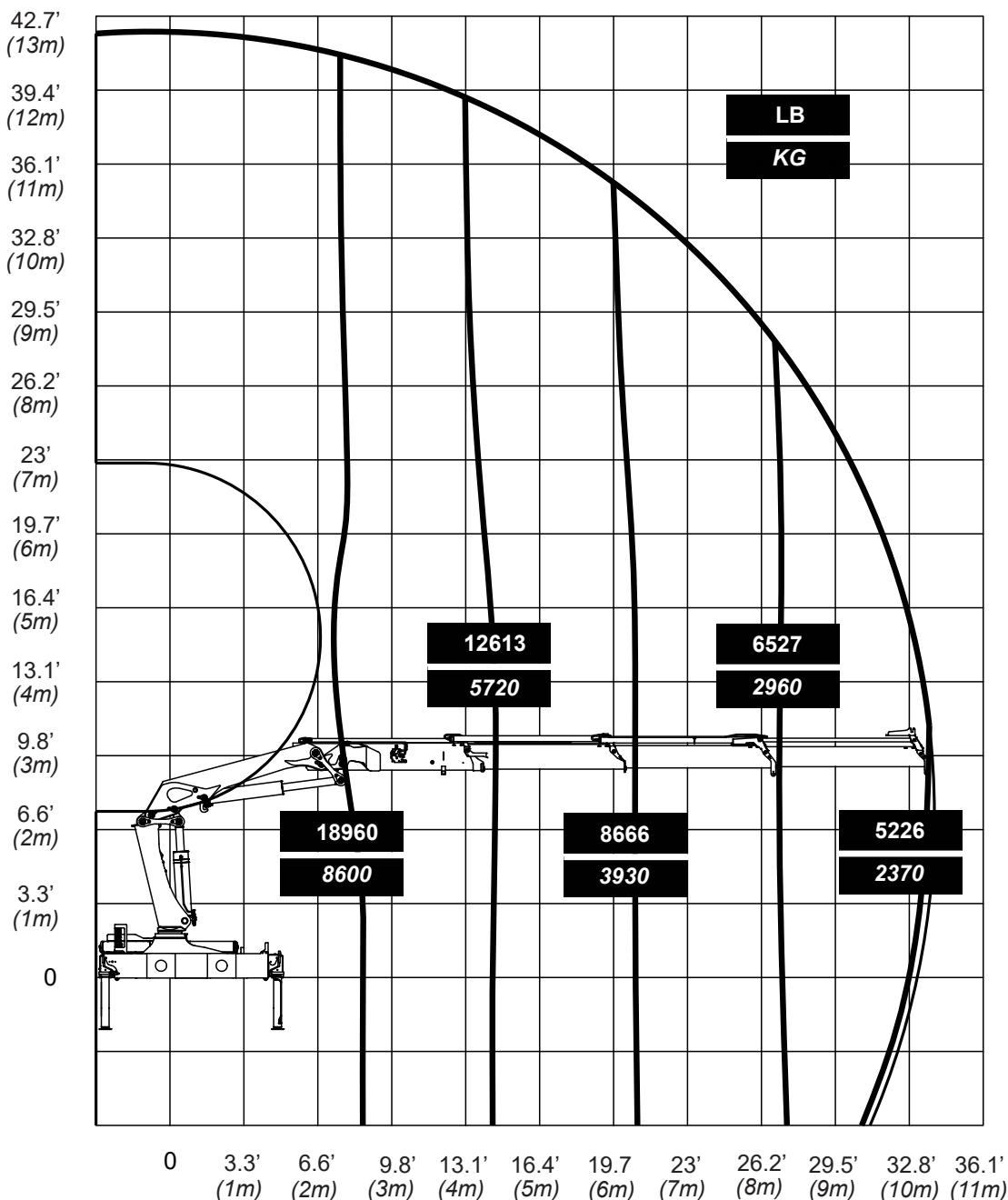
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MATERIAL HANDLING SYSTEMS

Model 2810 RCS K3

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- 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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2810 Lifting Capacity Chart, K4

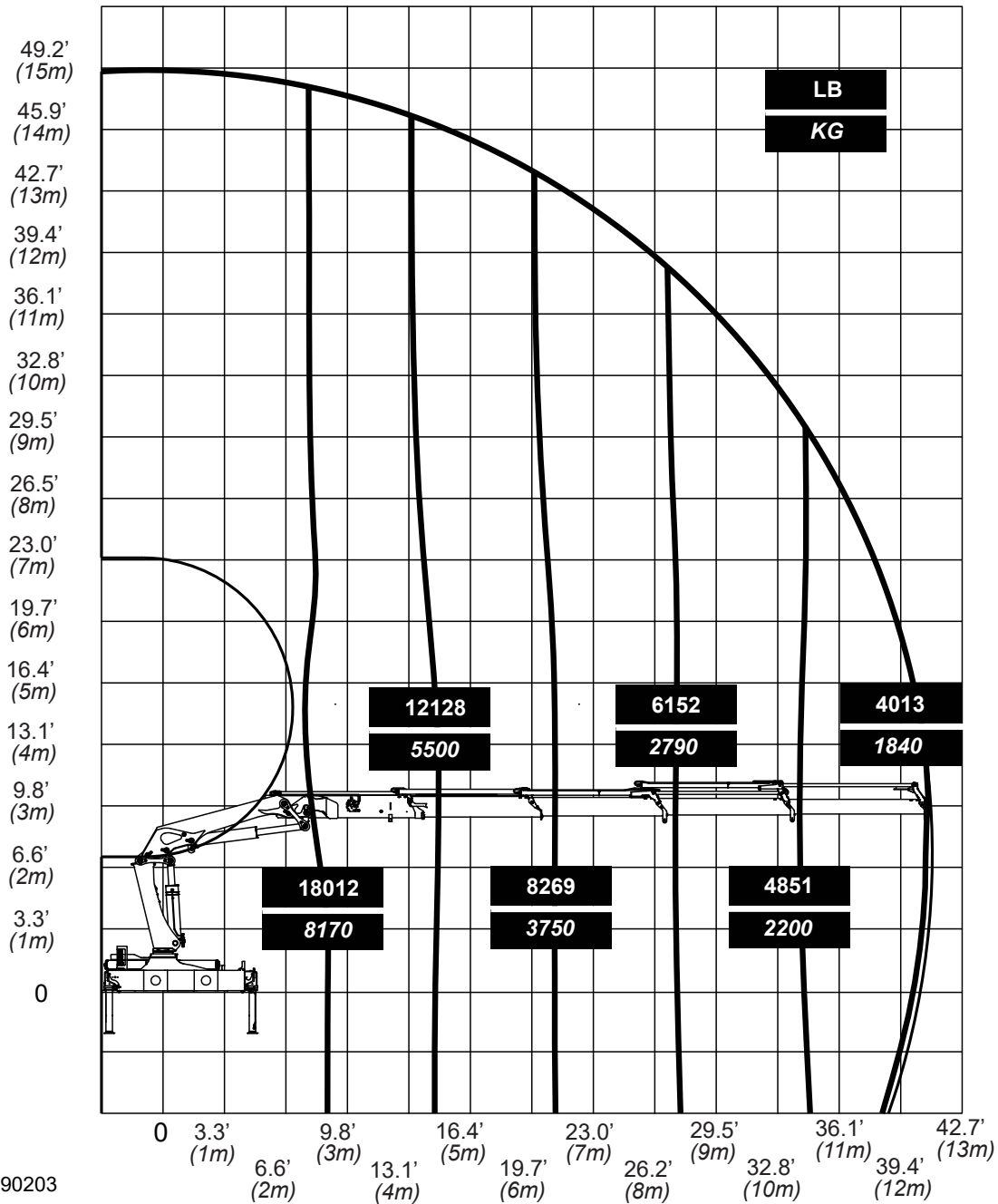
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MATERIAL HANDLING SYSTEMS

Model 2810 RCS K4

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- 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.*



70490203

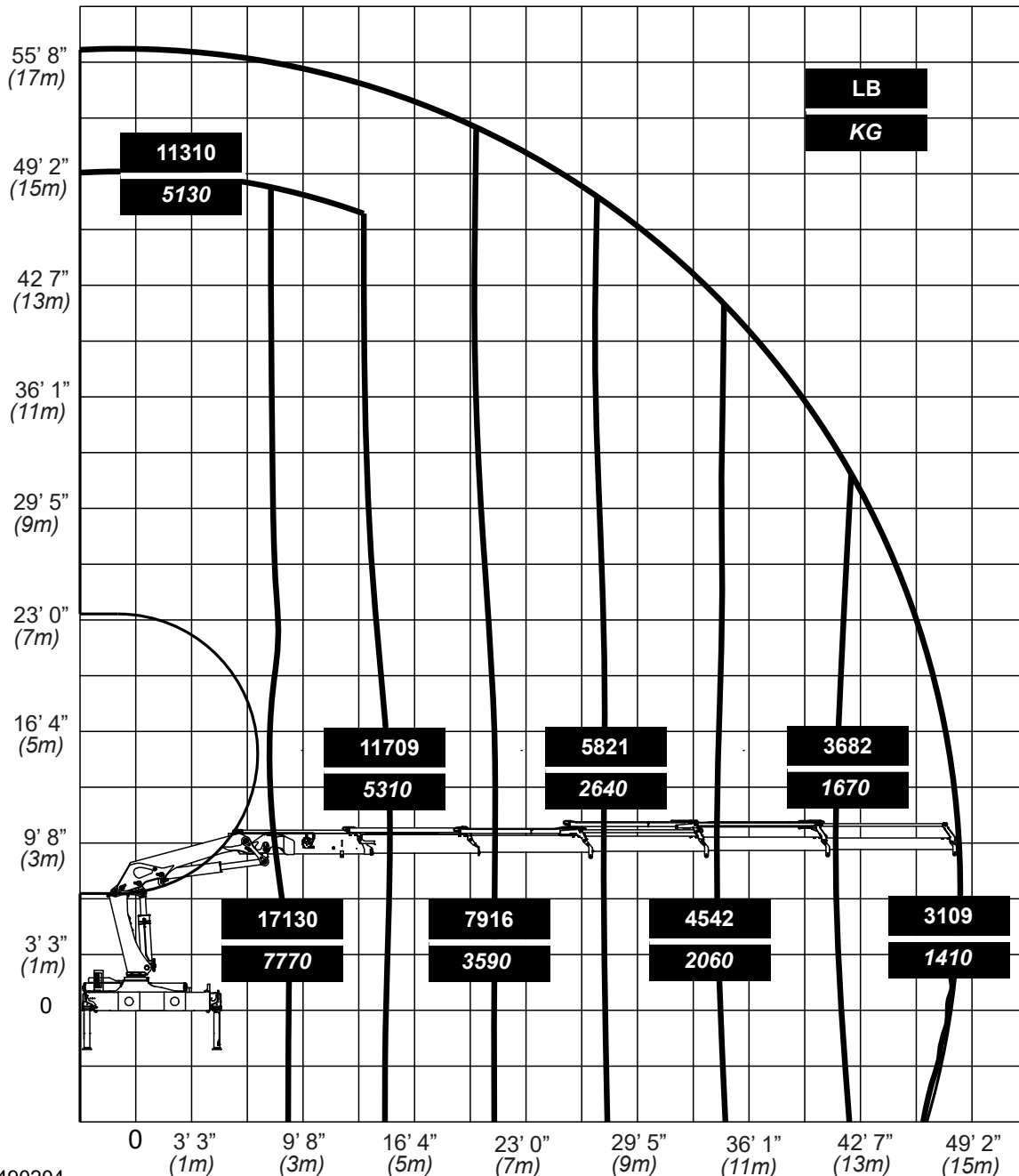
2810 Lifting Capacity Chart, K5

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Model 2810 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.*



70490204

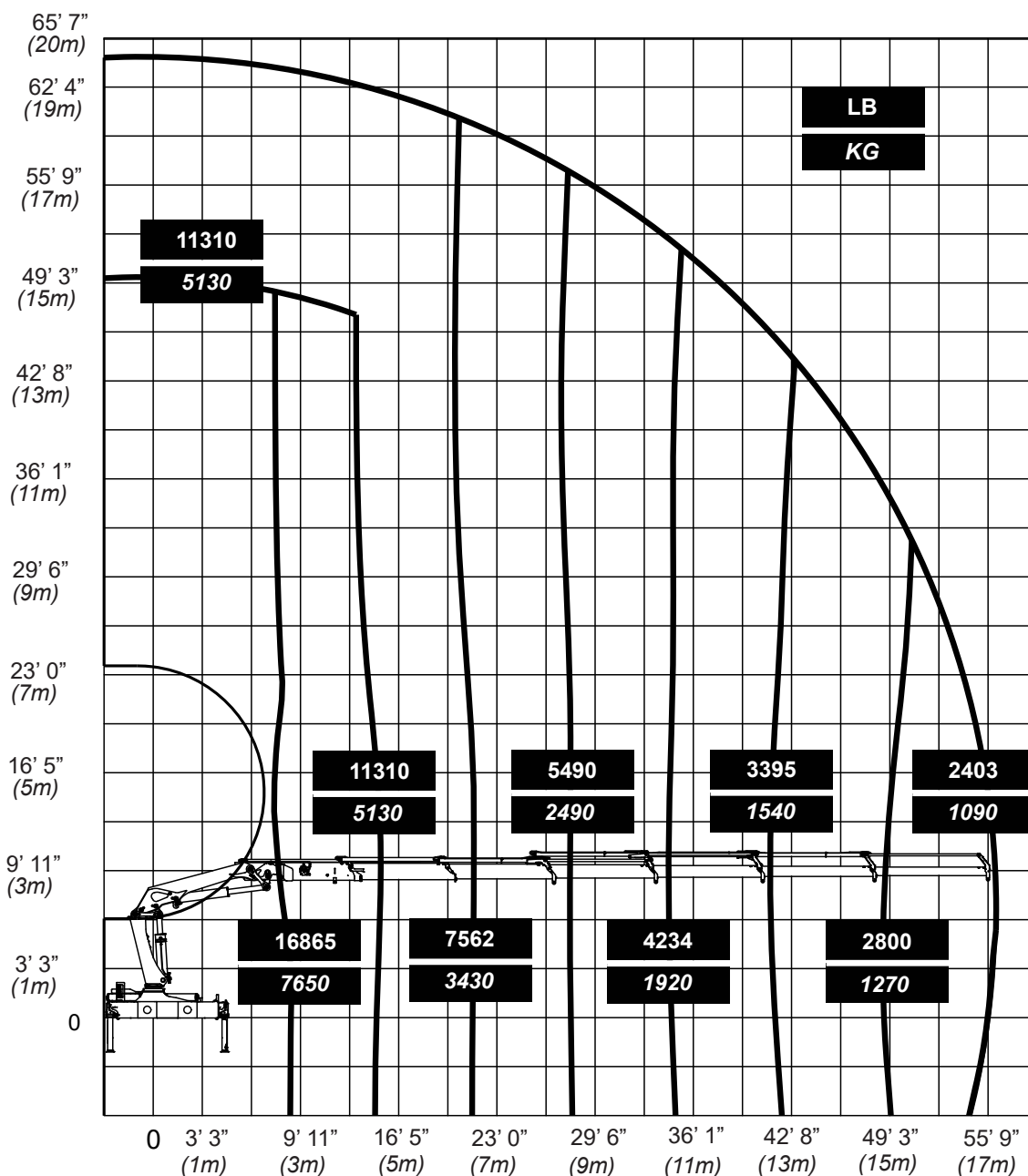
2810 Lifting Capacity Chart, K6

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MATERIAL HANDLING SYSTEMS

Model 2810 RCS K6

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- 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.*



70490205

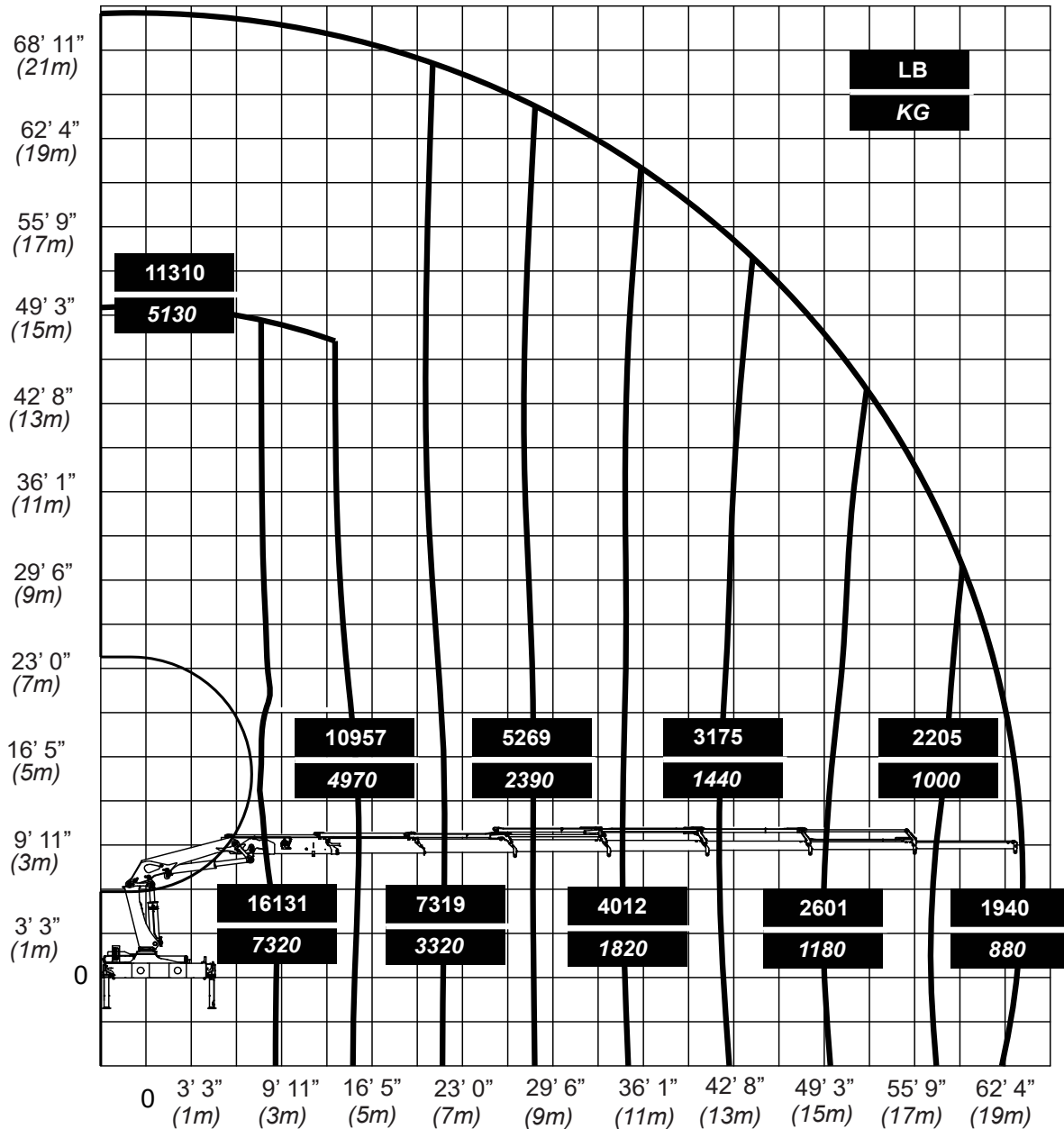
2810 Lifting Capacity Chart, K7

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MATERIAL HANDLING SYSTEMS

Model 2810 RCS K7

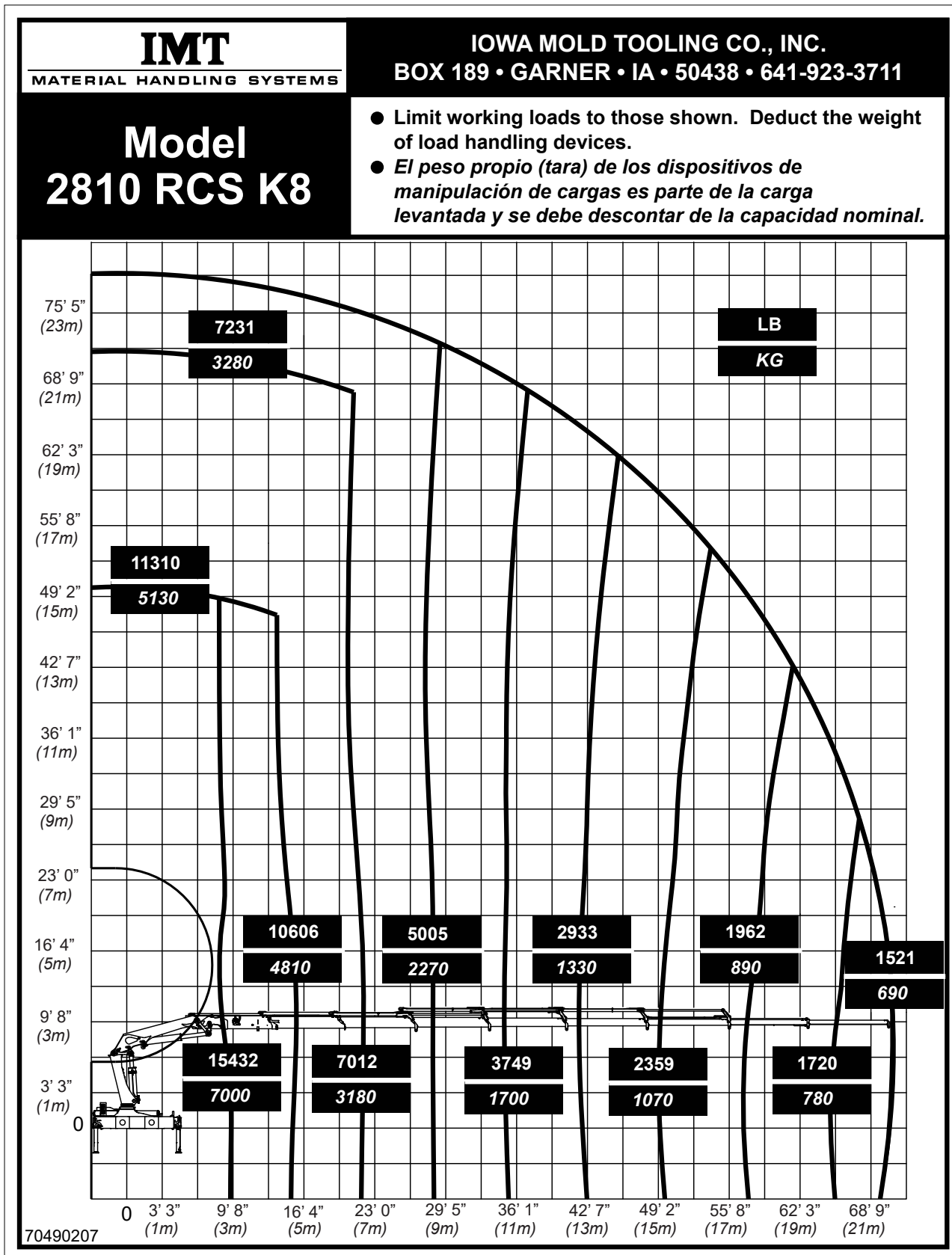
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- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*

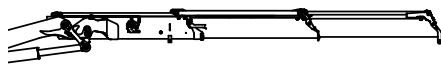


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2810 Lifting Capacity Chart, K8

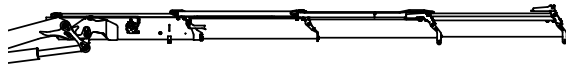


2810 Lifting Capacity K2 - K8



LB	13095	9061	6900
FT	14'1"	20'4"	26'10"
KG	5940	4110	3130
M	4,3	6,2	8,2

▽ WITH MANUAL EXTENSIONS
▼ WITHOUT MANUAL EXTENSIONS



LB	12613	8666	6527	5226
FT	14'5"	20'8"	26'10"	33'5"
KG	5720	3930	2960	2370
M	4,4	6,3	8,2	10,2



LB	12128	8269	6152	4851	4013	3263
FT	14'8"	20'10"	27'3"	33'9"	40'8"	48'2"
KG	5500	3750	2790	2200	1820	1480
M	4,5	6,4	8,3	10,3	12,4	14,7



LB	11709	7916	5821	4542	3682	3109	2580
FT	15'1"	21'0"	27'6"	34'1"	40'0"	48'2"	56'1"
KG	5310	3590	2640	2060	1670	1410	1170
M	4,6	6,4	8,4	10,4	12,5	14,7	17,1



LB	11310	7562	5490	4234	3395	2800	2403	2028
FT	15'2"	21'4"	27'10"	34'5"	41'4"	48'6"	55'9"	63'7"
KG	5130	3430	2490	1920	1540	1270	1090	920
M	4,6	6,5	8,5	10,5	12,6	14,8	17,0	19,4



LB	10957	7319	5269	4012	3175	2601	2205	1940	1367
FT	15'5"	21'7"	27'10"	34'5"	41'4"	48'6"	56'1"	63'0"	70'10"
KG	4970	3320	2390	1820	1440	1180	1000	880	620
M	4,7	6,6	8,5	10,5	12,6	14,8	17,1	19,2	21,6



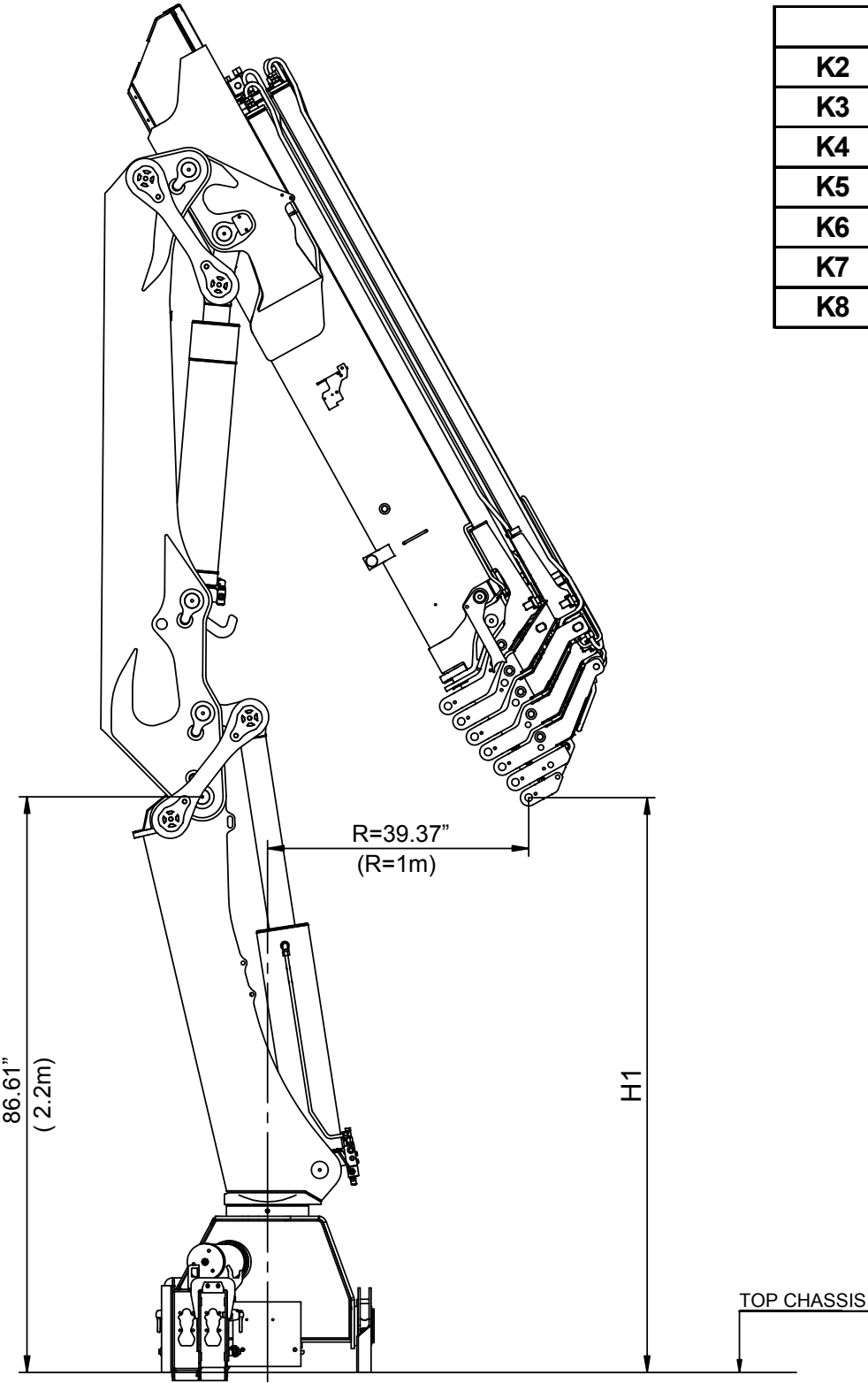
LB	10628	7011	5004	3748	2932	2359	1985	1720	1521
FT	15'9"	22'0"	28'3"	34'9"	41'8"	48'11"	56'5"	63'3"	70'6"
KG	4810	3180	2270	1700	1330	1070	890	780	690
M	4,8	6,7	8,6	10,6	12,7	14,9	17,2	19,3	21,5

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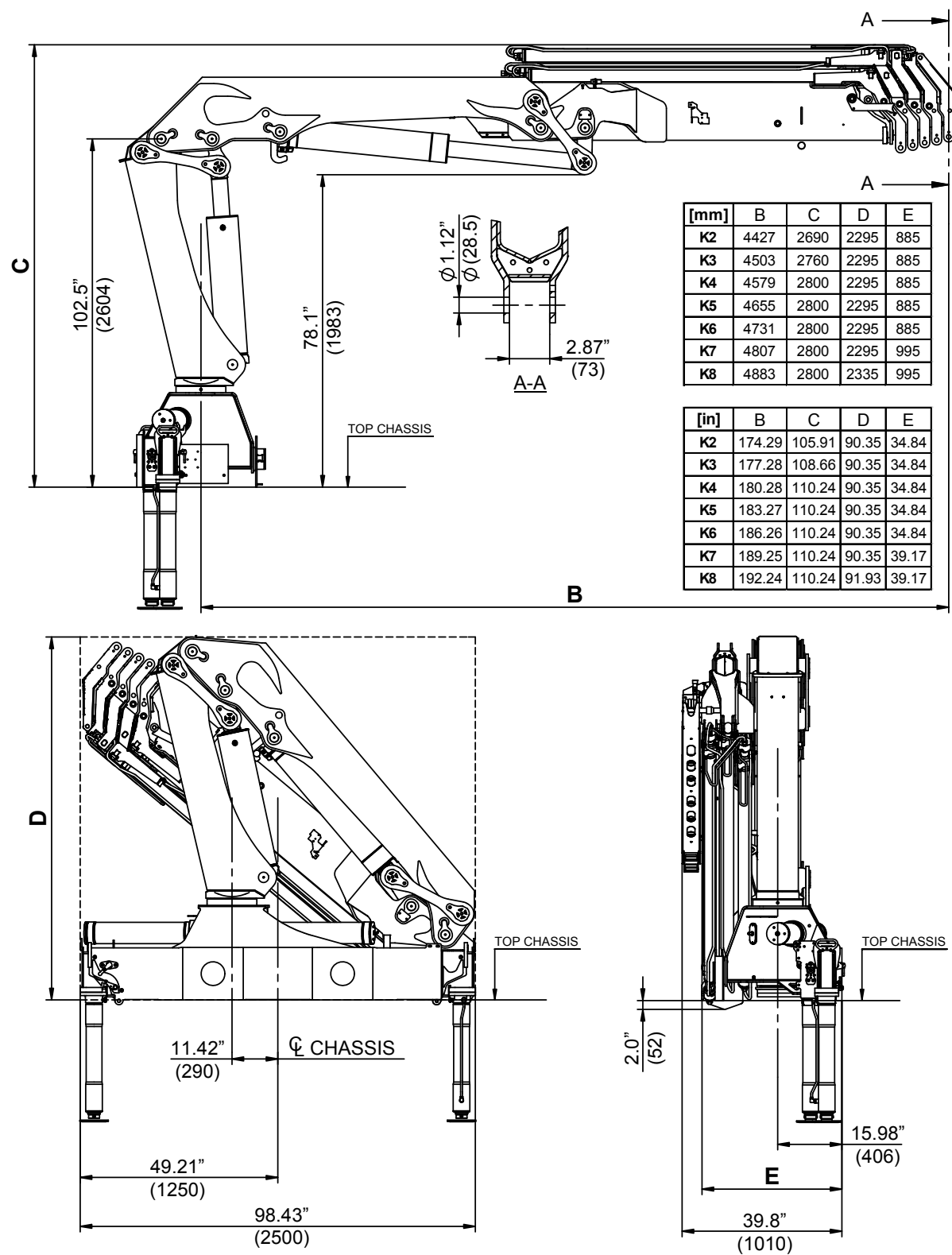
2810 Dimensional Drawings

Section - 3

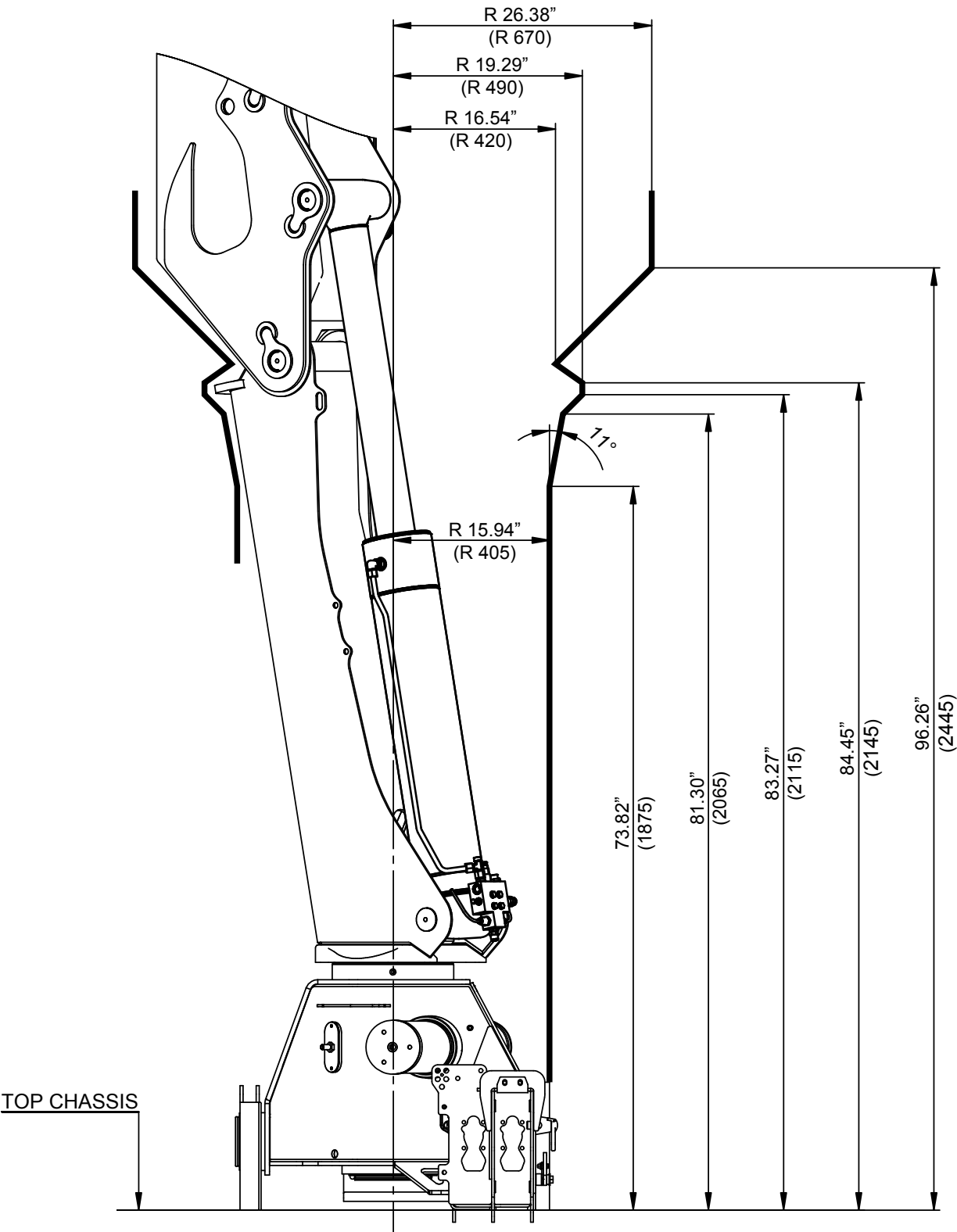
2810 RCS - Lifting Height at Column



2810 RCS - Dimension sketch

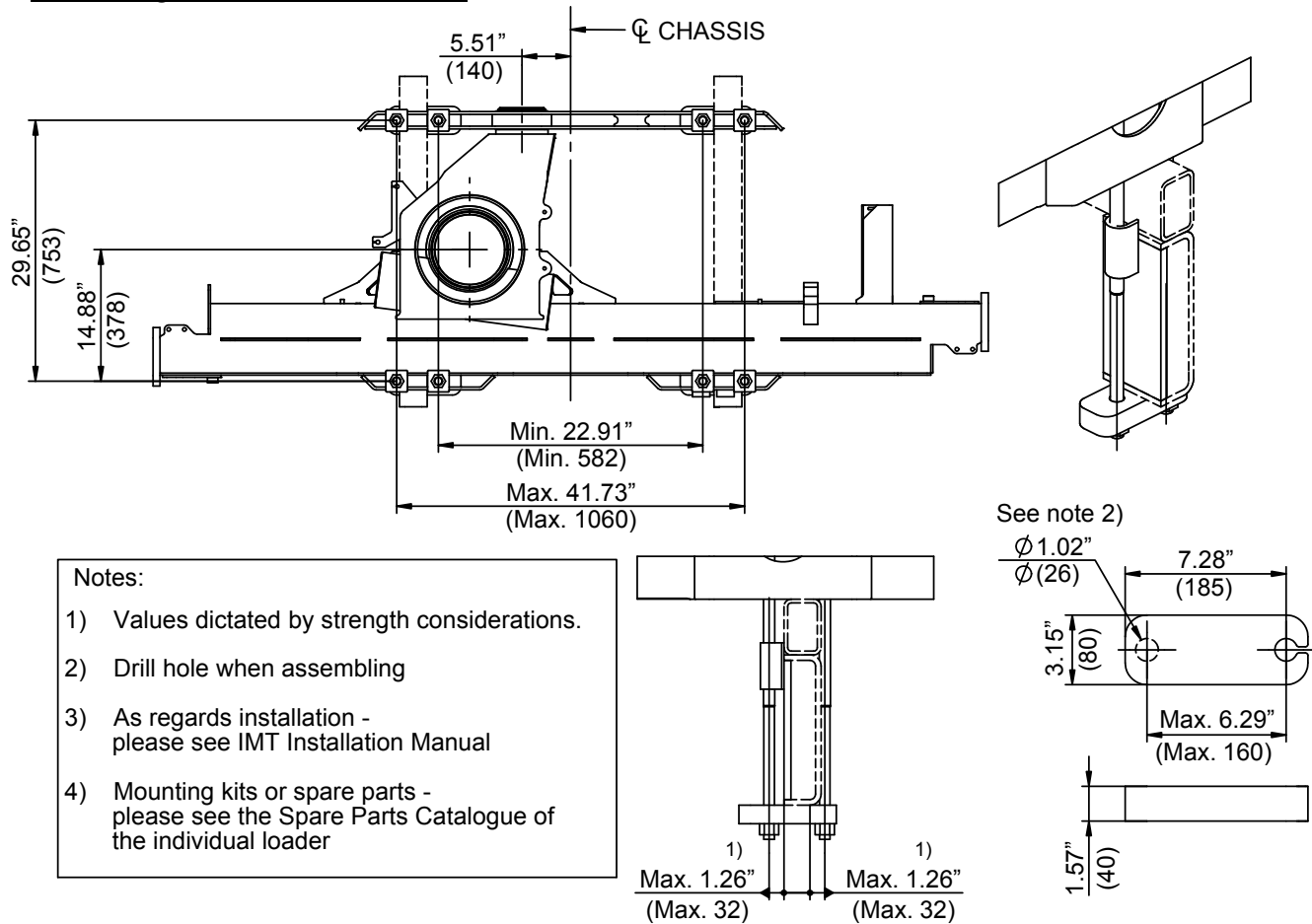


2810 RCS - Slewing Radius

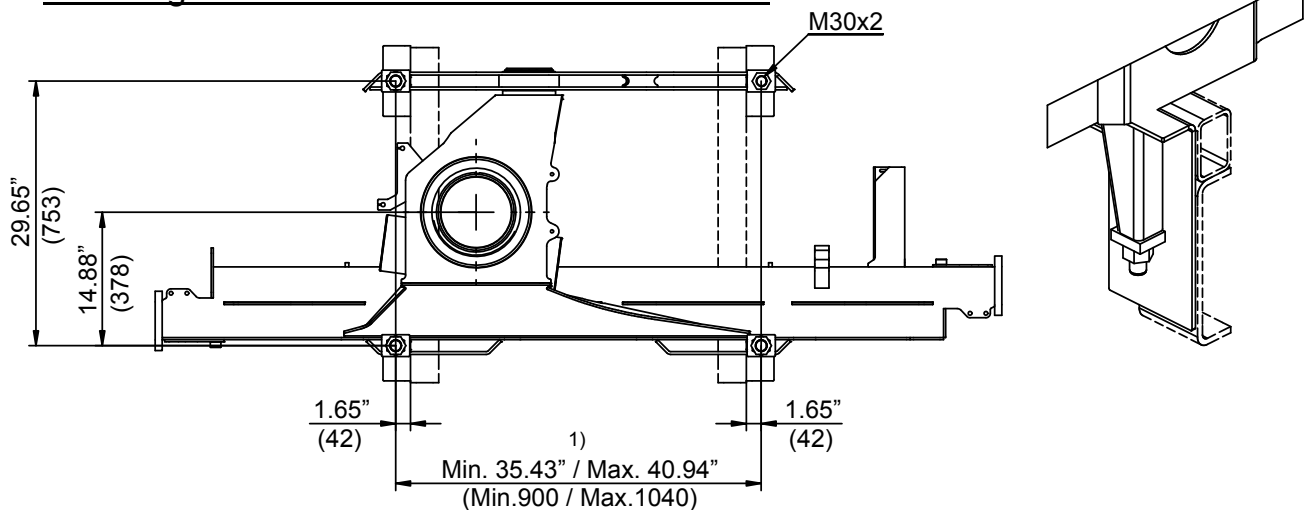


2810 RCS - Dimension sketch for truck-mounted loader

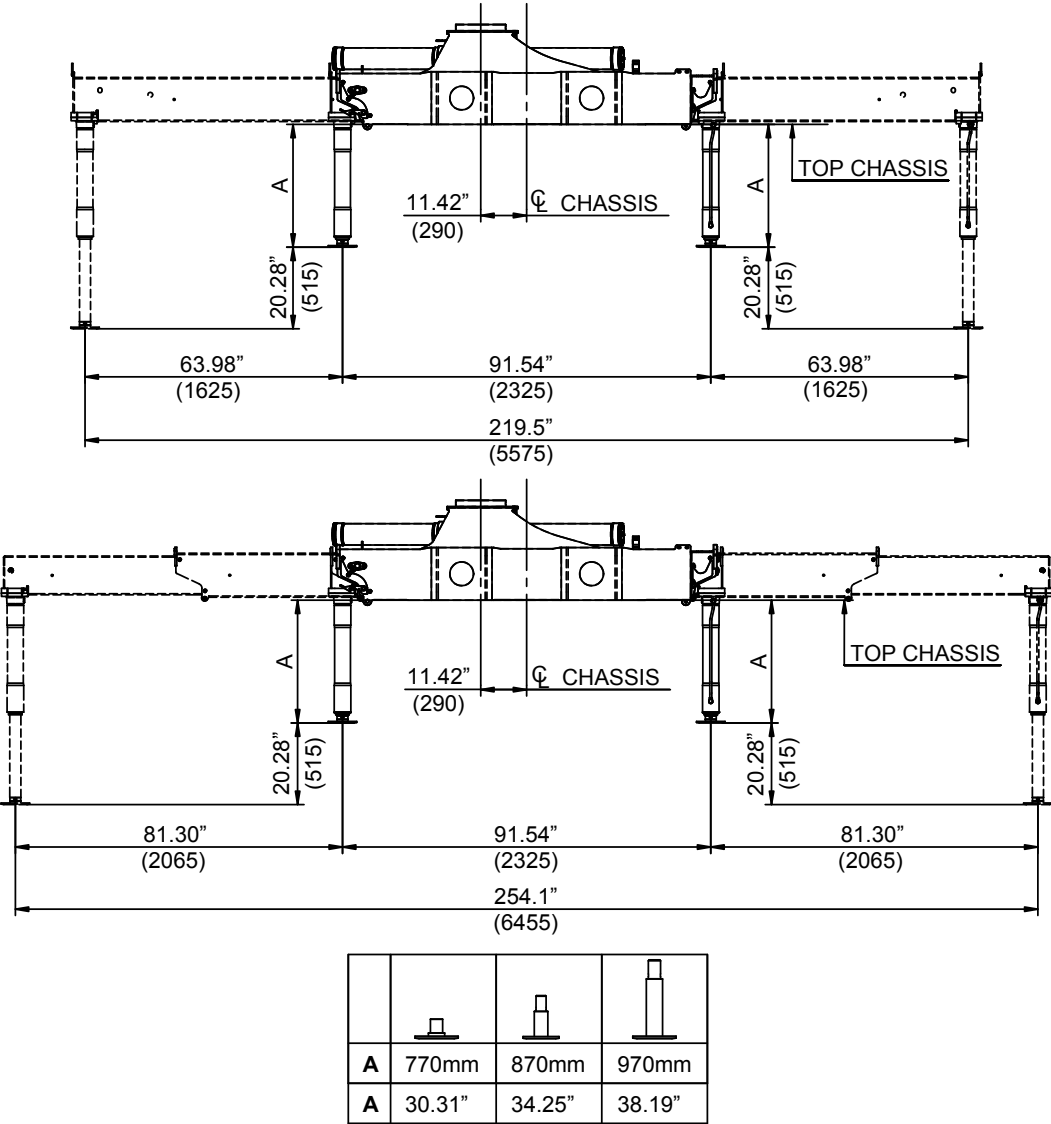
Mounting kit 8 x M24x2 bolts



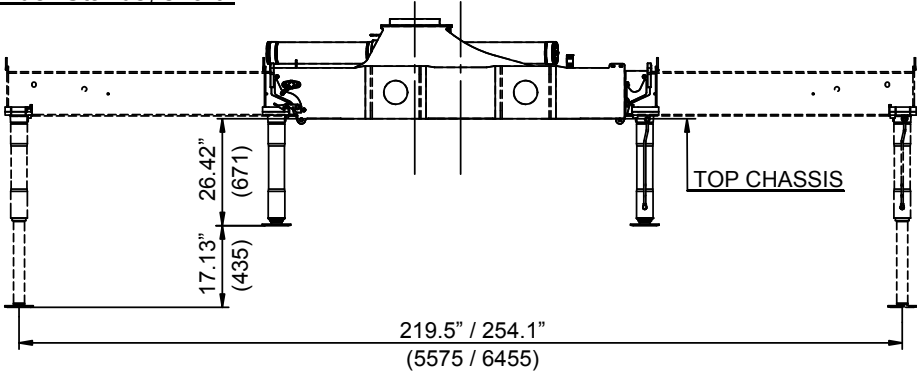
Mounting kit 3 x M33x2 bolts + 1 x M30x2 bolts

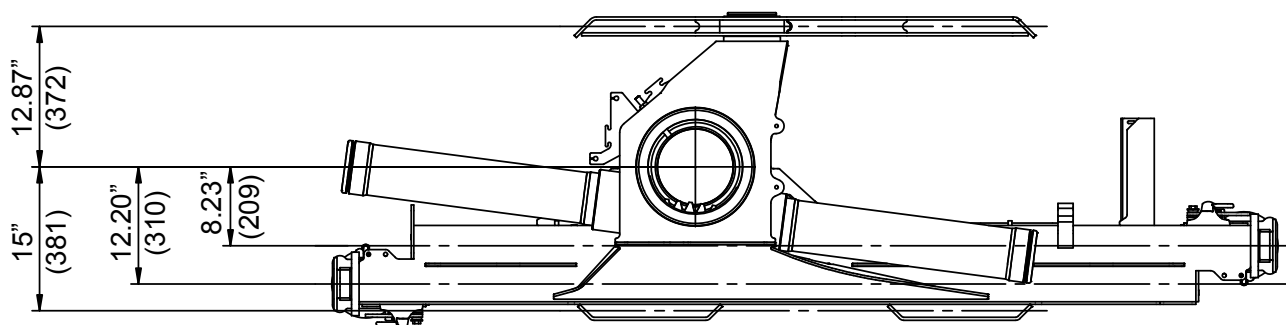


2810 RCS - Dimension Sketch, Fixed Stabilizer Legs

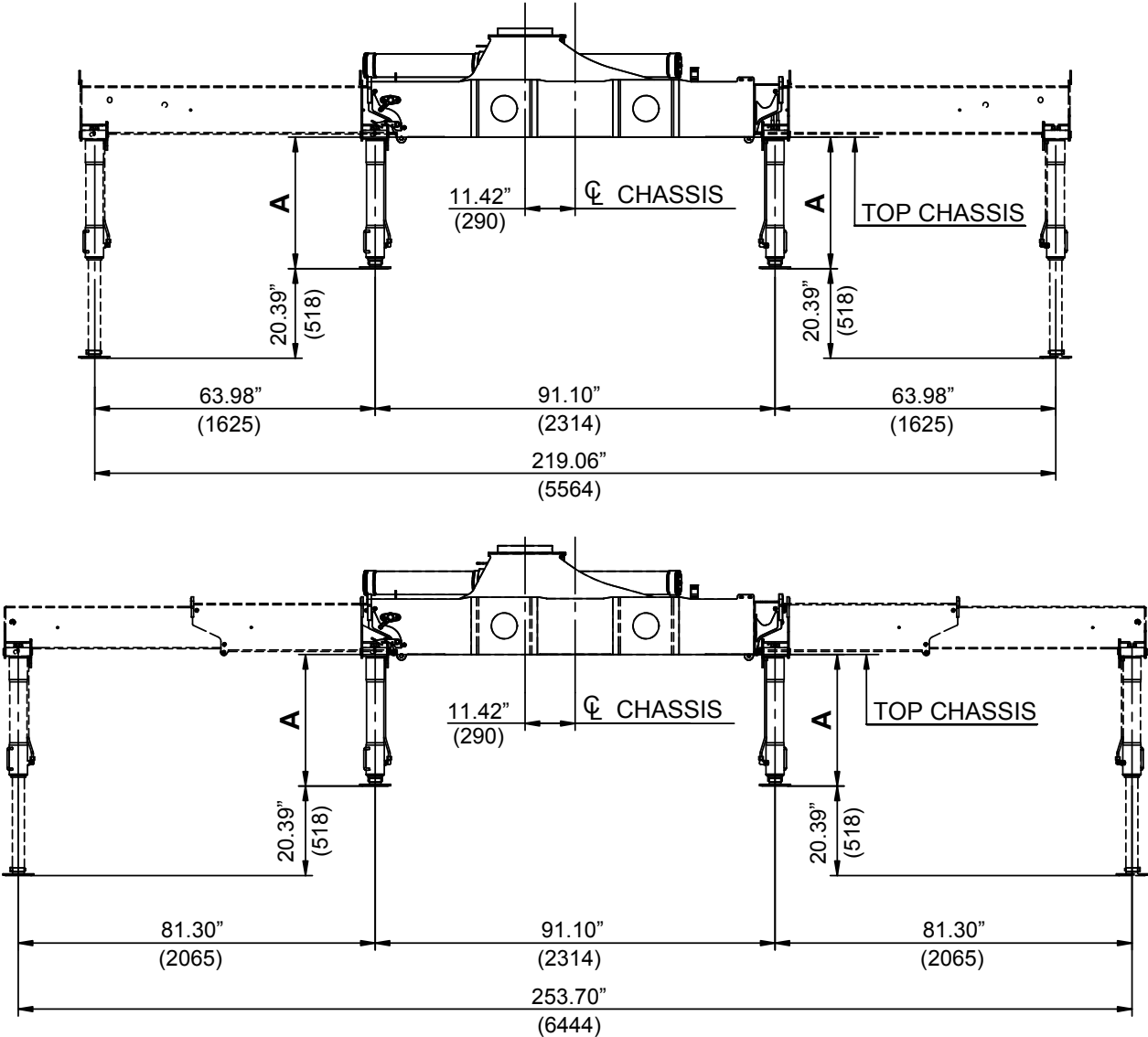


Cylinder Stands, short



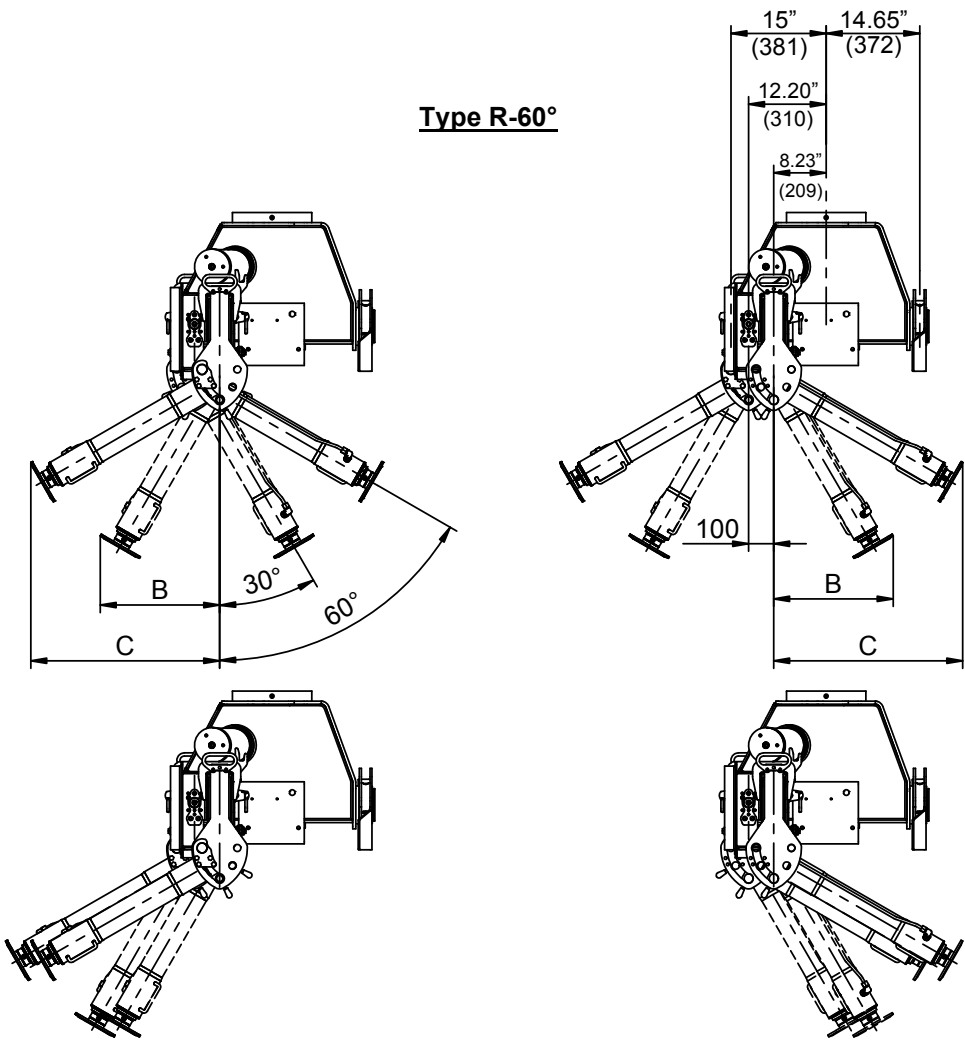
Dimension sketch, fixed stabilizer legs (Continued)

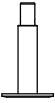
2810 RCS - Dimension sketch, swing-up stabilizer legs 30°- 60° (manual)

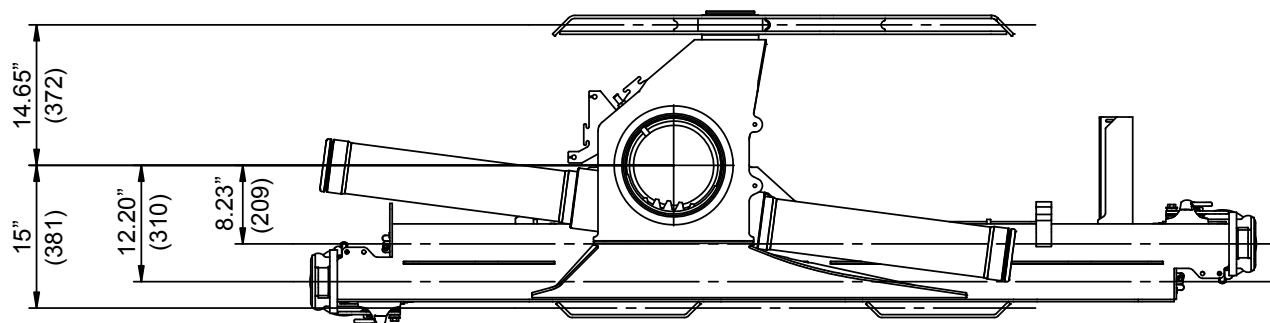


			
A Type R-60°	30.12"	34.06"	37.99"
A Type R-20° (Obsolete)	29.80"	33.74"	37.68"
A Type R-60°	765mm	865mm	965mm
A Type R-20° (Obsolete)	757mm	857mm	957mm

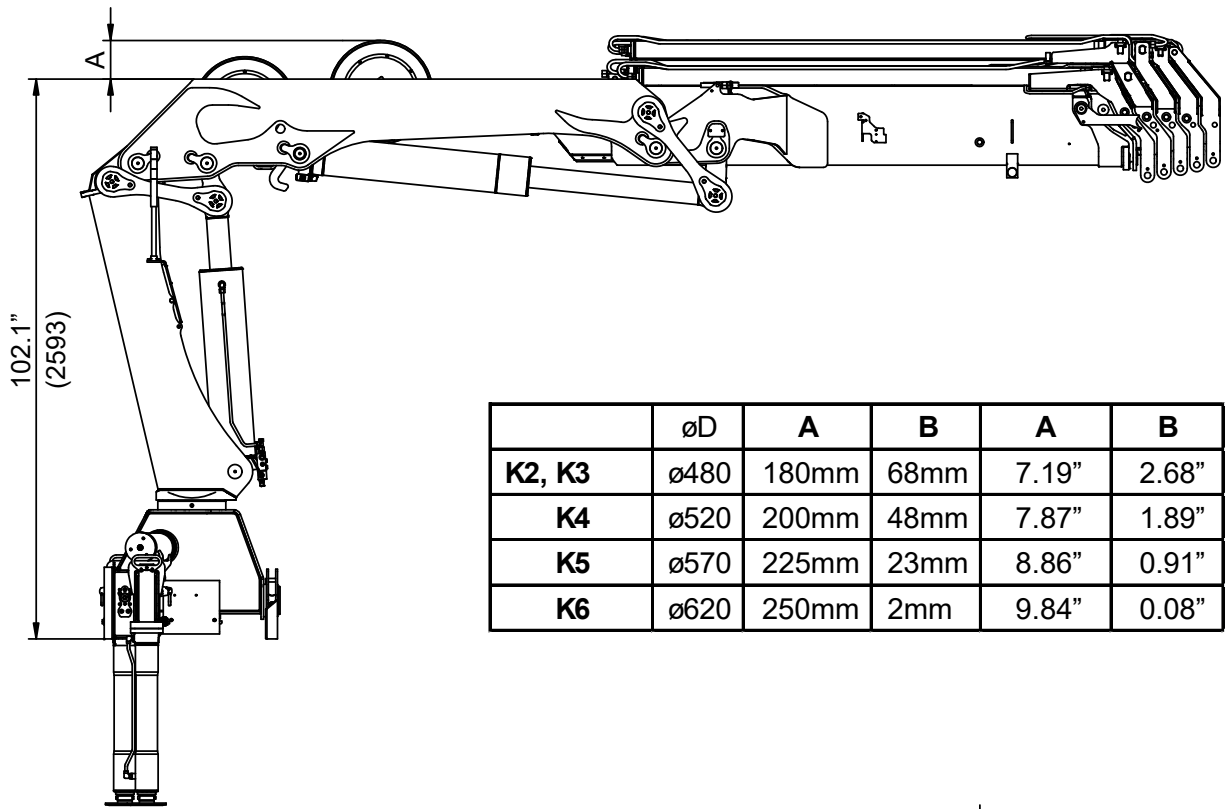
Dimension sketch, swing-up stabilizer legs 30°- 60° (manual) - CONTINUED



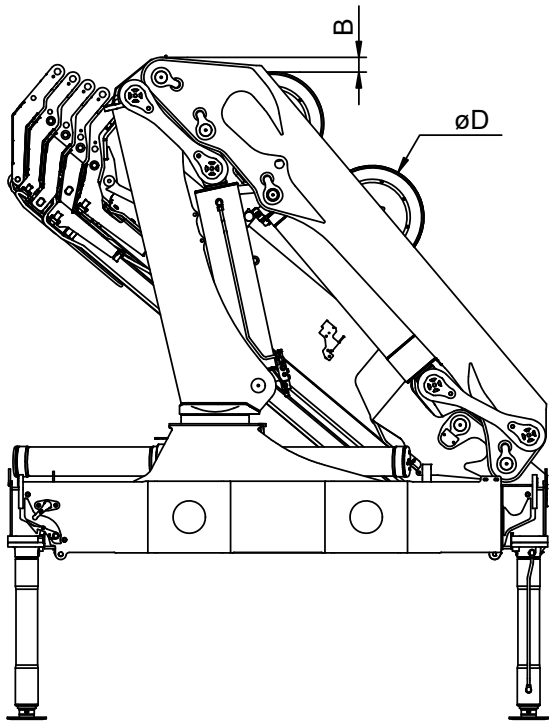
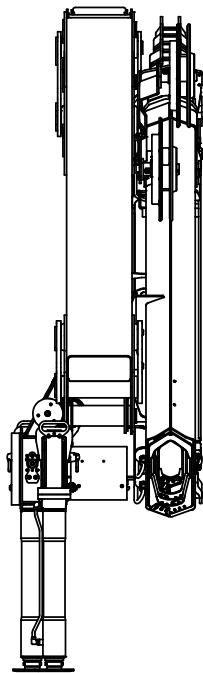
			
B	18.66"	20.63"	22.60"
C	29.53"	32.91"	36.34"
D	14.41"	15.83"	17.24"
B	474mm	524mm	574mm
C	750mm	836mm	923mm
D	366mm	402mm	438mm

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

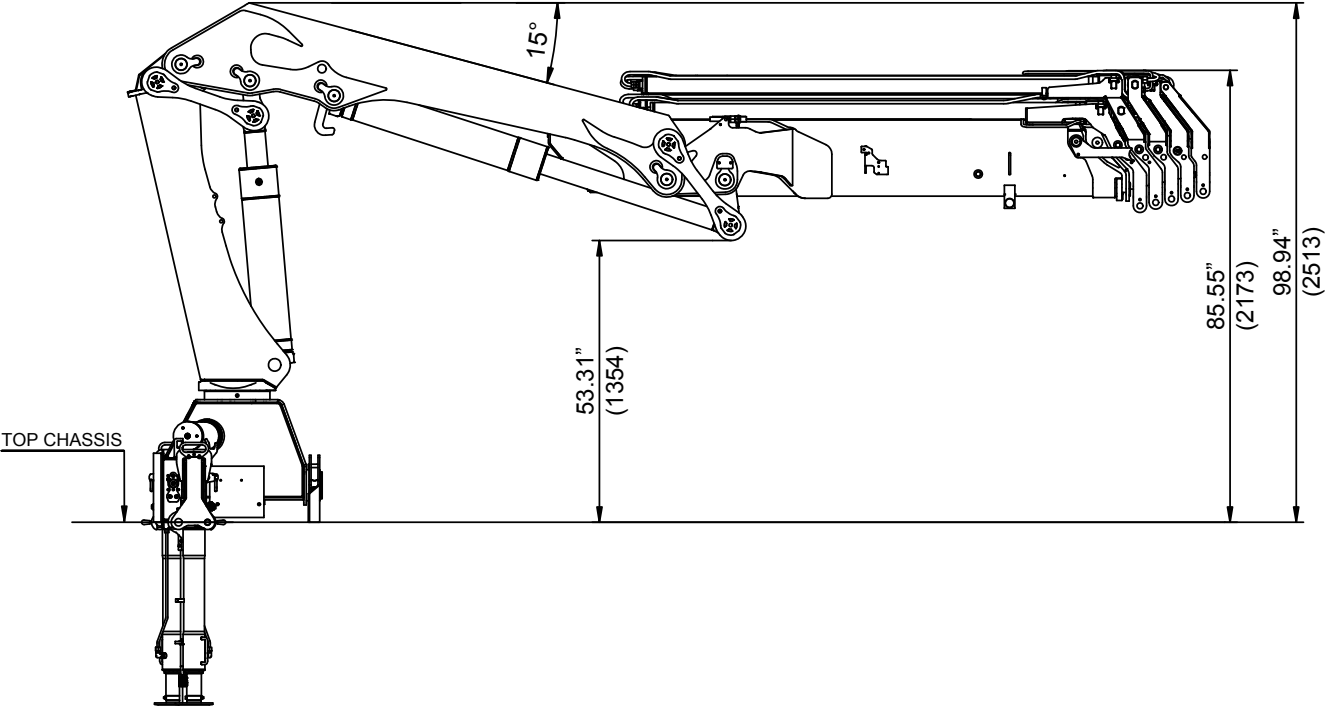
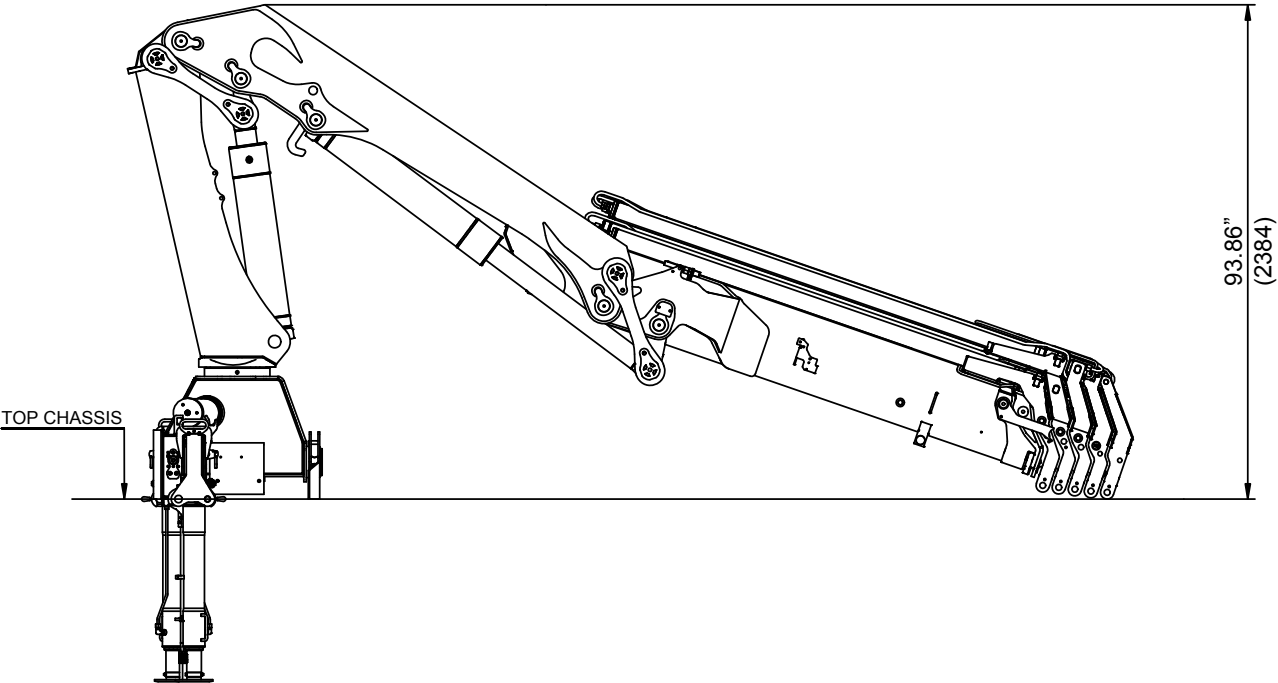
2810 RCS - Dimension Sketch, Internal Hose Routing



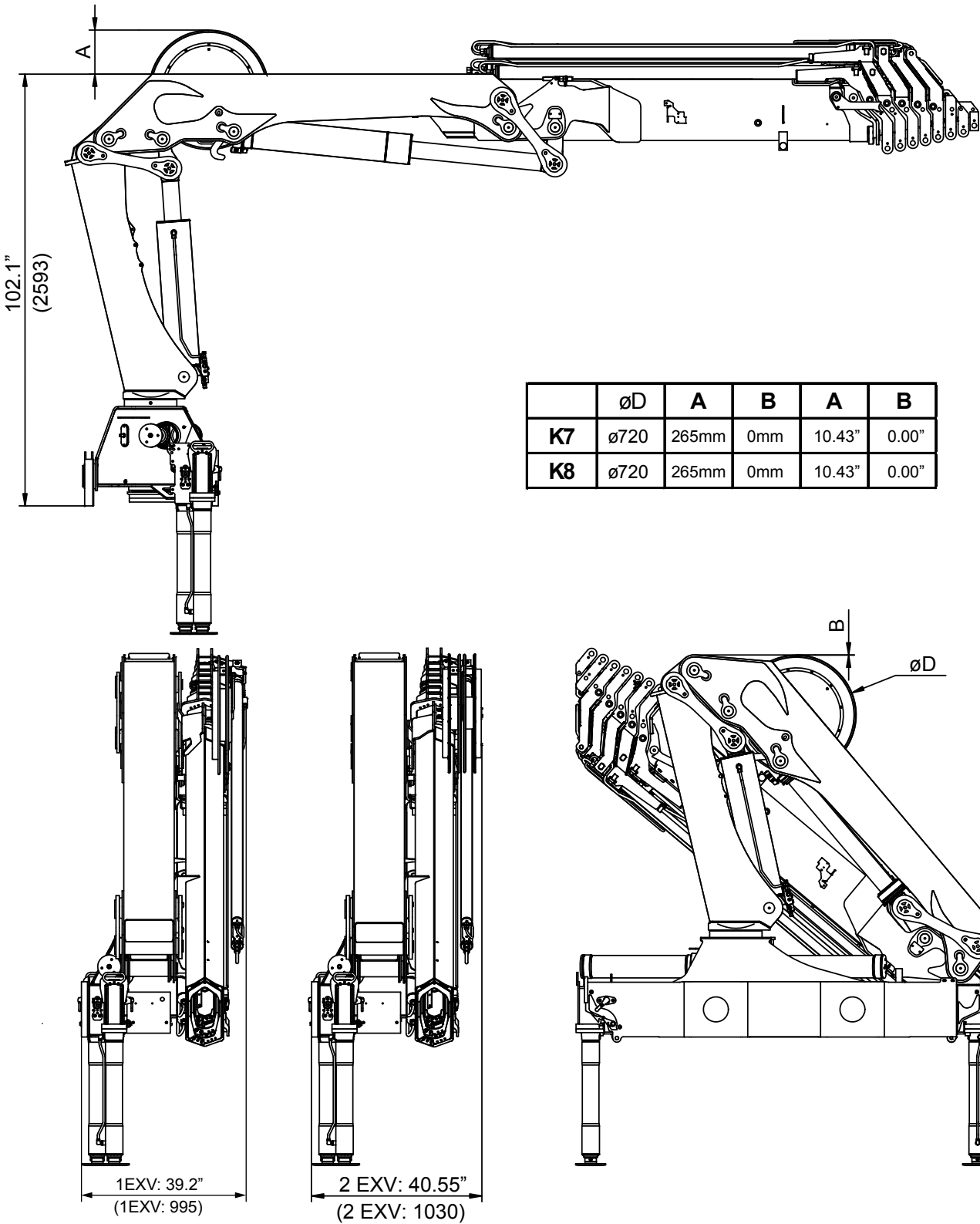
	øD	A	B	A	B
K2, K3	ø480	180mm	68mm	7.19"	2.68"
K4	ø520	200mm	48mm	7.87"	1.89"
K5	ø570	225mm	23mm	8.86"	0.91"
K6	ø620	250mm	2mm	9.84"	0.08"



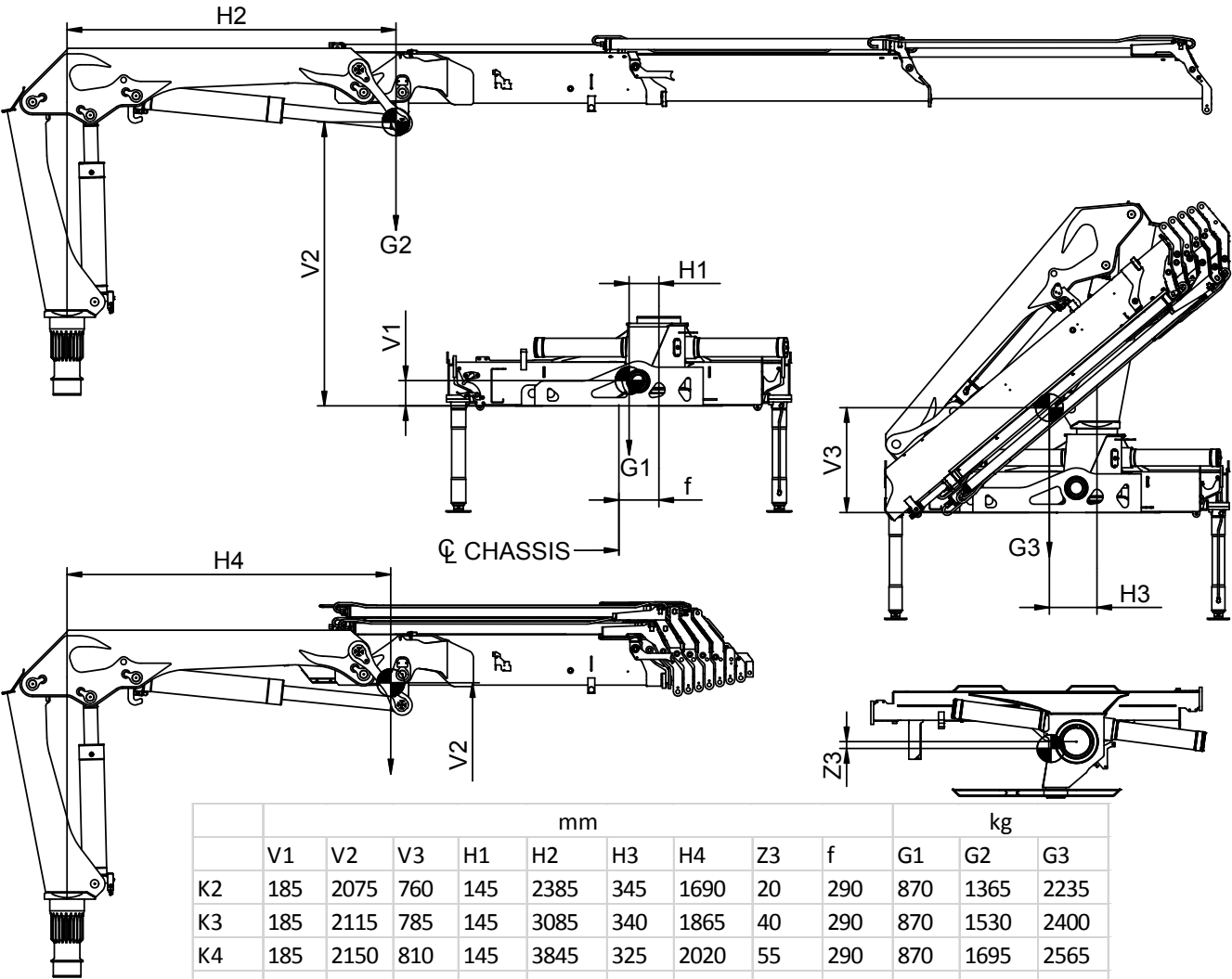
2810 RCS - Stowed in Truck Body



2810 RCS - Dimension Sketch, Extra Valves K7, K8



2810 RCS - Center of Gravity



	mm									kg		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	185	2075	760	145	2385	345	1690	20	290	870	1365	2235
K3	185	2115	785	145	3085	340	1865	40	290	870	1530	2400
K4	185	2150	810	145	3845	325	2020	55	290	870	1695	2565
K5	185	2175	830	145	4580	310	2115	75	290	870	1840	2710
K6	185	2195	845	145	5325	300	2210	85	290	870	1990	2860
K7	185	2210	865	145	5930	285	2280	100	290	870	2080	2950
K8	185	2225	880	145	6535	280	2350	110	290	870	2205	3075
	in									lbs		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	7.3	81.7	29.9	5.7	93.9	13.6	66.5	0.08	11.4	1918	3009	4927
K3	7.3	83.3	30.9	5.7	121.5	13.4	71.4	1.6	11.4	1918	3373	5291
K4	7.3	84.6	31.9	5.7	151.4	12.8	79.5	2.2	11.4	1918	3737	5655
K5	7.3	85.6	32.7	5.7	180.3	12.2	83.3	3	11.4	1918	4057	5975
K6	7.3	86.4	33.3	5.7	209.6	11.8	87	3.3	11.4	1918	4387	6305
K7	7.3	87	34.1	5.7	233.5	11.2	89.8	3.9	11.4	1918	4586	6504
K8	7.3	87.6	34.6	5.7	257.3	11	92.5	4.3	11.4	1918	4861	6779

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2810 Hydraulic Drawings

Section - 4

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	2973
	Left	B	P	180	P	2973
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	-	P	-
	Retract	B	P	-	P	-
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	210	3046
	Left	210	3046
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
Pump performance	70 L/min	18.5 gpm

IMT reserves the right to introduce improvements and modifications

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			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	210	3046
	Left	210	3046
Boom cylinder	Up	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

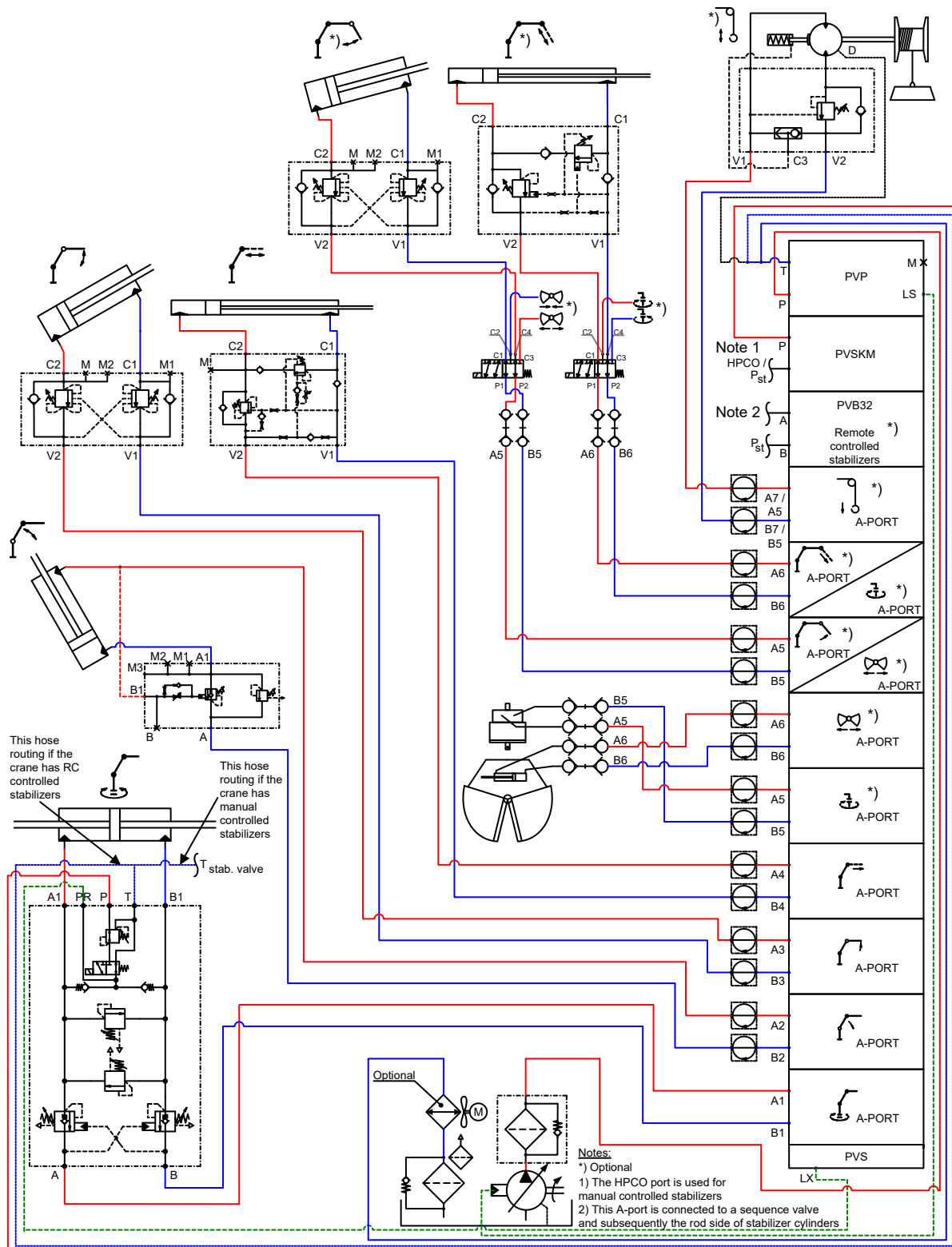
Pressure setting for Load Moment Limitation (LMB)		
Load moment limitation (LMB)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

Max. pump performance		
Choice of pump		1 x Variable
Pump performance	120 L/min	31.7 gpm

IMT reserves the right to introduce improvements and modifications

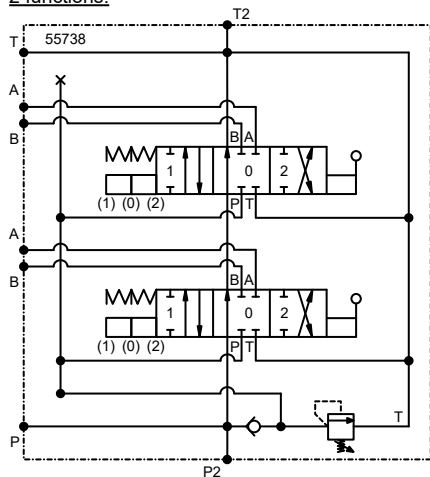
Hydraulic Diagram – Danfoss PVG32, single-circuit fixed 7 fcts. RC (3 EXV: FJ + 2 EXV, winch)

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

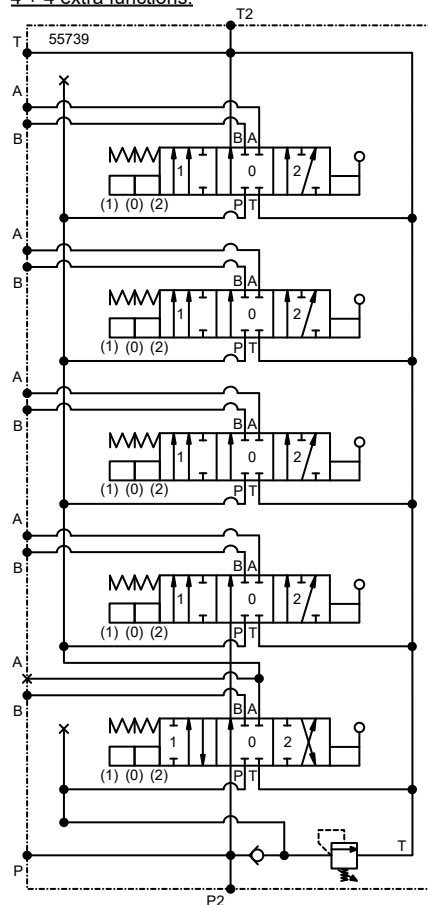


Hydraulic Diagram - Stabilizer circuit – Overview

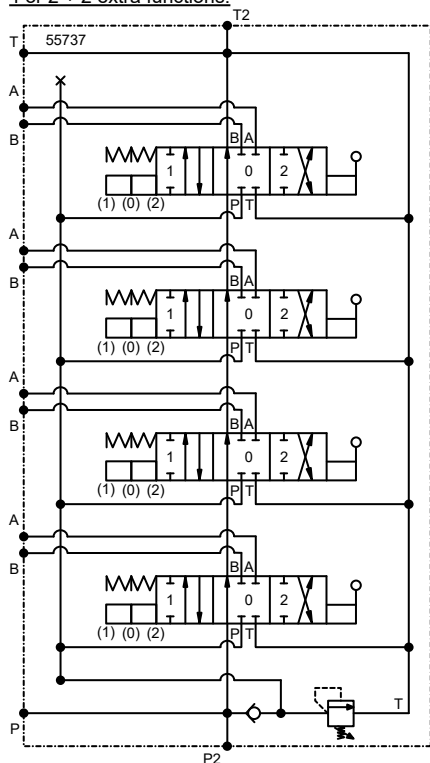
2 functions:



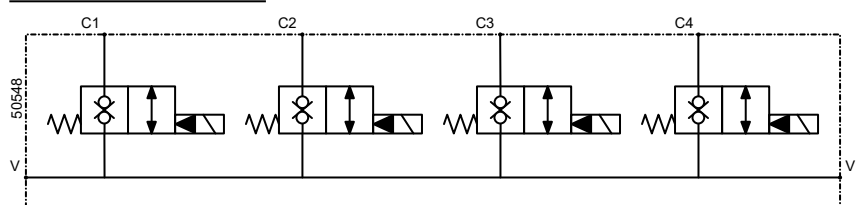
4 + 4 extra functions:



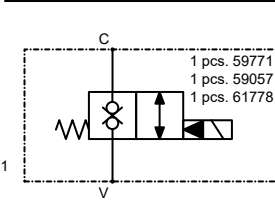
4 or 2 + 2 extra functions:



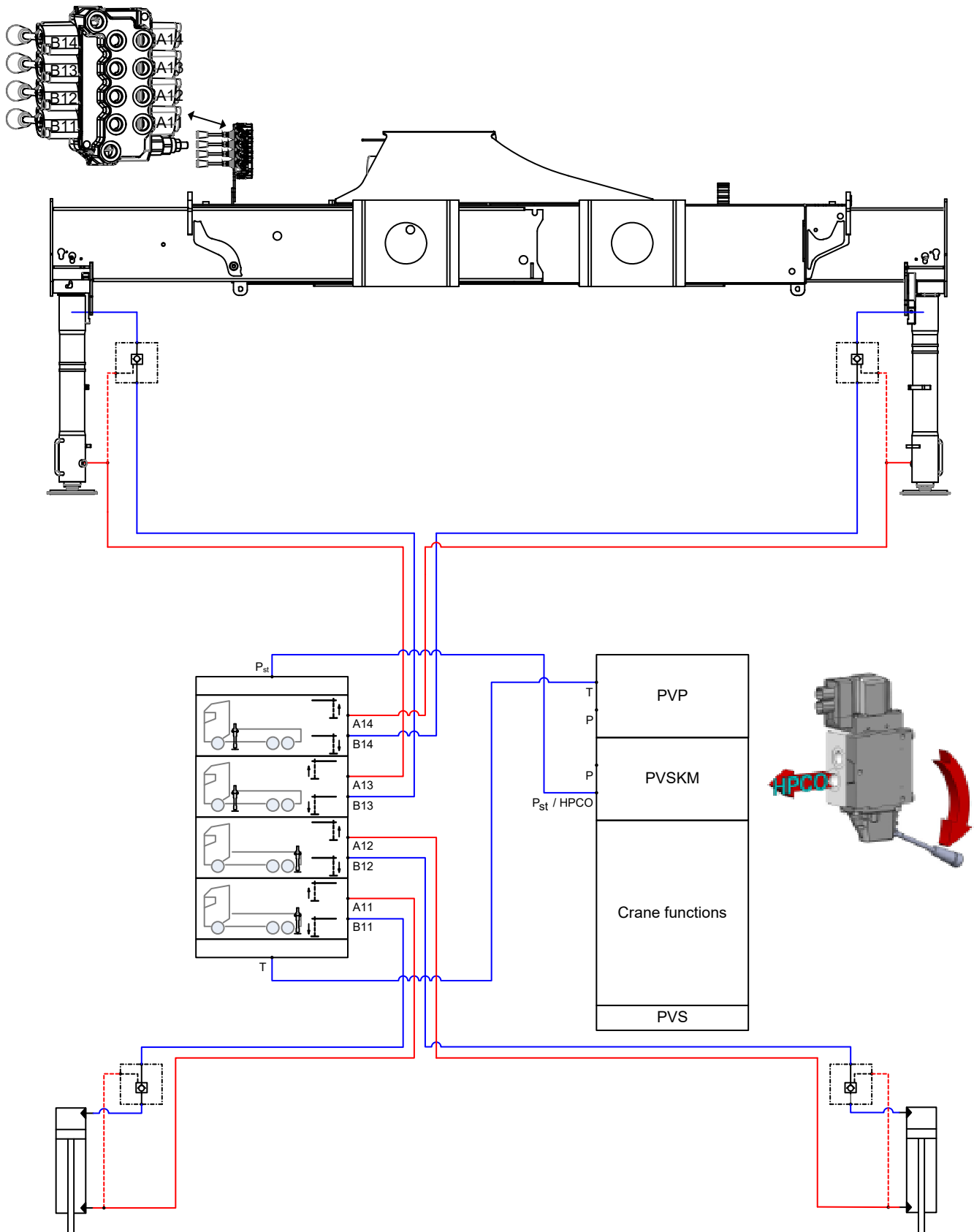
4 remote controlled functions:



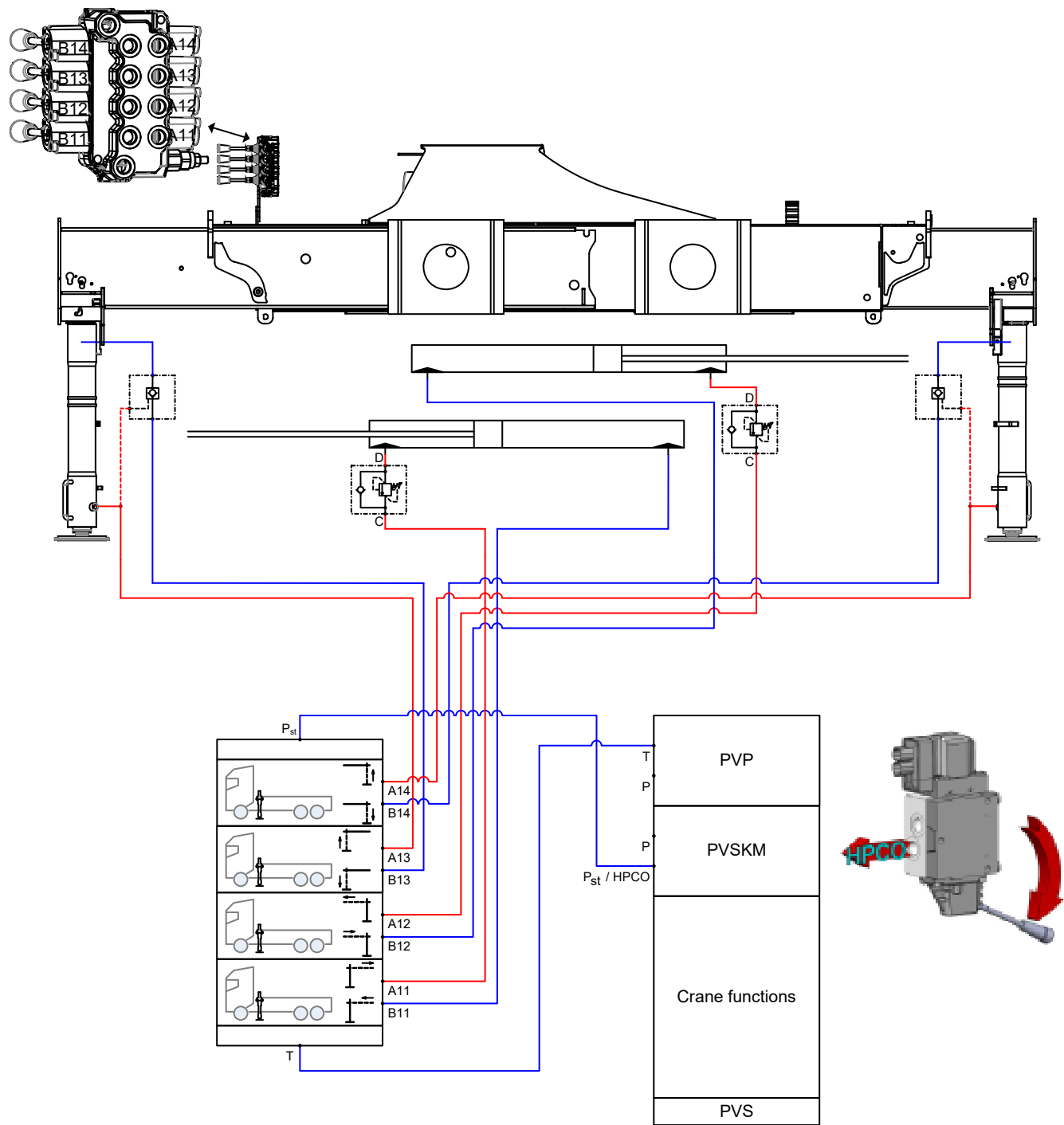
Extra remote controlled functions:



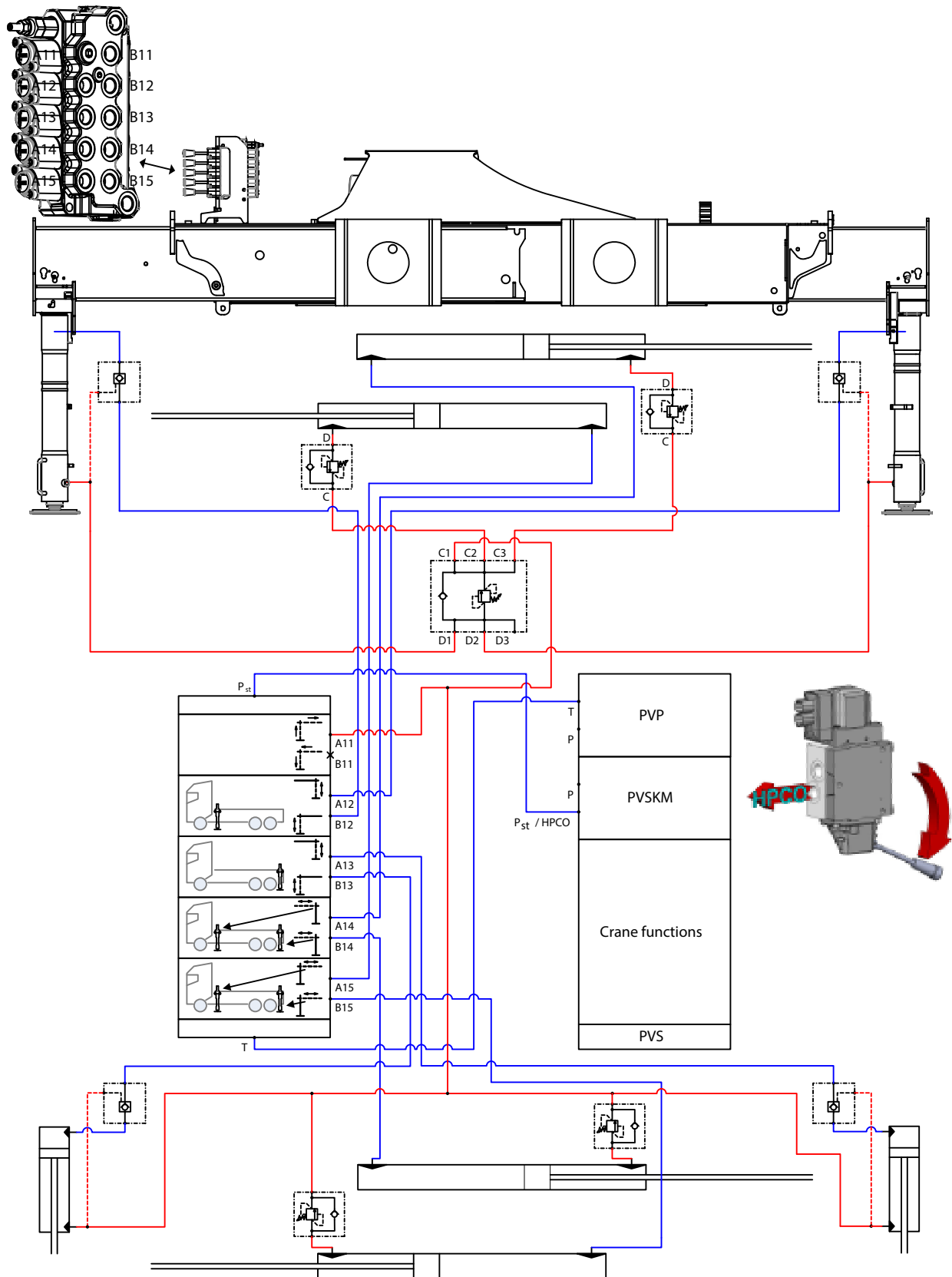
Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



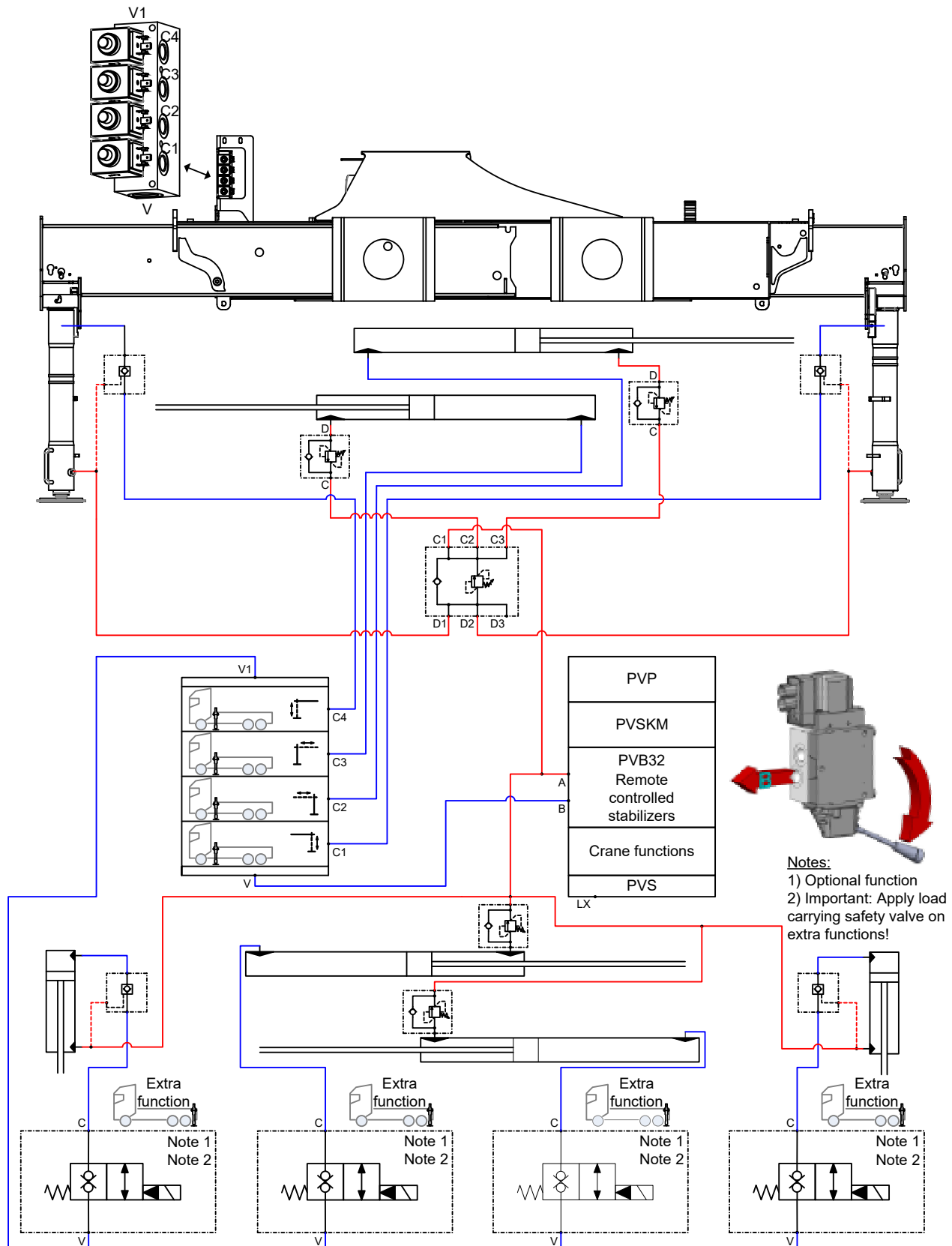
Hydraulic Diagram - Stabilizer circuit – 4 fcts.



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



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



2820 Technical Specifications

Section - 5

2820 - Specifications

Performance	Unit	K2	K3	K4	K5	K6	K7	K8
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	ft-lb	186611	182272	178655	175762	172145	169976	166359
Hydraulic reach	ft	27'1"	33'11"	41'0"	48'6"	56'1"	63'4"	70'10"
Hydraulic telescopic movement	ft	12'6"	19'1"	26'	33'2"	40'7"	47'7"	54'10"
Lifting capacity, hydraulic	lb-ft	13120-14'1"	12635-14'5"	12172-14'9"	11753-15'2'	11334-15'1"	11003-15'5"	10628-15'9"
		9085-20'4"	8688-20'8"	8291-21'0"	7938-21'0"	7585-21'0"	7343 - 21'7"	7034-22'0"
		6902-26'10"	6527-26'10"	6174-27'3"	5843-27'6"	5513-27'10"	5292 - 27'10"	5005-28'3"
			5226-33'5"	4873-33'9"	4564-34'1"	4234-34'5"	4035 - 34'5"	3771-34'9"
				4013-40'8"	3704- 41'0"	3396-41'4"	3175 - 41'4"	2933-41'7"
					3109- 48'2"	2822-48'8"	2602 - 48'6"	2359-48'11'
						2426-55'9"	2205 - 56'1"	1985-56'5"
							1940 - 63'0"	1720-63'3"
								1521-70'6"
Lifting capacity, manual extensions	lb-ft			3263-48'2"	2580-56'1"	2029-63'7"	1367-70'10"	706-78'4"
Slewing torque, gross	lbft	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Slewing angle	°	400	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24	24

Minimum Chassis Specs	
Front Axle Rating (GAWR)	14,000 lbs (6.50 kg)
Rear Axle Rating (GAWR)	40,000 lbs (18,150 kg)
Resistance to Bending Moment	2,700,00in-lbs (373,300 kg-m)

2820 - Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	ft	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"
Width	ft	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"
Width with extra valves (int. hose routing)	ft	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"
Length, no extra valves	ft	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"
Length, with extra valves (hose guides)	ft	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"		
Length, with 1 extra valve (hose reels)	ft						3' 3"	3' 3"
Length, with 2 extra valves (hose reels)	ft						3' 4"	3' 4"
Length, with extra valves (int. hose routing)	ft	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"		
Stabilizer spread, S1 (standard)	ft	18'3"	18'3"	18'3"	18'3"	18'3"	18'3"	18'3"
Stabilizer spread, D1	ft	21'2"	21'2"	21'2"	21'2"	21'2"	21'2"	21'2"
Stabilizer spread, D2	ft	24'3"	24'3"	24'3"	24'3"	24'3"	24'3"	24'3"

Weights, basic loader	Unit	K2	K3	K4	K5	K6	K7	K8
Standard loader 1), excl. stabilizers	lb	4366	4741	5182	5513	5821	6053	6240
Stabilizers, S1 fixed	lb	639	639	639	639	639	639	639
Stabilizers, S1 swing-up	lb	650	650	650	650	650	650	650
Stabilizers, S1 hydr. swing-up	lb	662	662	662	662	662	662	662
Stabilizers, D1 fixed	lb	805	805	805	805	805	805	805
Stabilizers, D1 swing-up	lb	882	882	882	882	882	882	882
Stabilizers, D1 hydr. swing-up	lb	904	904	904	904	904	904	904
Stabilizers, D2 fixed	lb	992	992	992	992	992	992	992
Mounting kit, 4 bolts	lb	143	143	143	143	143	143	143
Mounting kit, 8 bolts	lb	132	132	132	132	132	132	132
Tank, excl. oil (fitted on loader)	lb	99	99	99	99	99	99	99
Manual extensions	lb			176	154	132	99	77
Oil in loader (stowing position)	lb	99	110	121	132	143	154	154

2820 - Specifications - Continued

Weights, equipment	Unit	K2	K3	K4	K5	K6	K7	K8
Stand-up controls (HS), std.	lb	132	132	132	132	132	132	132
Stand-up controls (HS), direct valve control	lb	154	154	154	154	154	154	154
Top seat (TS)	lb	198	198	198	198	198	198	198
Top seat, ladder	lb	44	44	44	44	44	44	44
1 extra valve, hose guides	lb	121	143	165	187	209		
1 extra valve, hose reels	lb						209	209
1 extra valve, int. hose routing	lb	165	165	176	176	187		
2 extra valves, hose guides	lb	165	198	232	265	298		
2 extra valves, hose reels	lb						408	408
2 extra valves, int. hose routing	lb	287	287	309	320	331		
Winch (1.5 t), single snatch block	lb	386	386	386	386	397	397	419
Winch (1.5 t), double snatch block	lb	375	375	375	375	386	386	397
Winch (2.5 t), single snatch block	lb	441	441	441	441	452	452	463
Winch (2.5 t), double snatch block	lb	430	430	430	430	441	441	452
High-pressure filter	lb	15	15	15	15	15	15	15
Oil cooler	lb	55	55	55	55	55	55	55

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

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K2	K3	K4	K5	K6	K7	K8
S1, fixed	lbf	26	26	26	26	26	26	26
S1, swing-up	lbf	26	26	26	26	26	26	26
S1, hydr. swing-up	lbf	26	26	26	26	26	26	26
D, fixed	lbf	22	22	22	22	22	22	22
D, swing-up	lbf	22	22	22	22	22	22	22
D, hydr. swing-up	lbf	22	22	22	22	22	22	22

Power consumption (oil capacity)	Unit	K2	K3	K4	K5	K6	K7	K8
Working pressure	PSI	5294	5294	5294	5294	5294	5294	5294
Tank capacity (fitted on loader)	ga	24	24	24	24	24	24	24
Tank capacity, big (fitted on loader)	ga	40	40	40	40	40	40	40
Max. pump performance, Danfoss fixed flow	gpm	18	18	18	18	18	18	18
Max. pump performance, Danfoss variable	gpm	32	32	32	32	32	32	32

2820 - Metric Specifications

Performance	Unit	K2	K3	K4	K5	K6	K7	K8
Loading group (EN12999)		H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3	H1/B3
Load moment	tm	25.8	25.2	24.7	24.3	23.8	23.5	23
Hydraulic reach	m	8.3	10.3	12.5	14.8	17.1	19.3	21.6
Hydraulic telescopic movement	mm	3830	5840	7930	10130	12370	14520	16720
Lifting capacity, hydraulic	kg-m	5950-4.3	5730-4.4	5520-4.5	5330-4.6	5140-4.6	4990-4.7	4820-4.8
		4120-6.2	3940-6.3	3760-6.4	3600-6.4	3440-6.5	3330-6.6	3190-6.7
		3130-8.2	2960-8.2	2800-8.3	2650-8.4	2500-8.5	2400-8.5	2270-8.6
			2370-10.2	2210-10.3	2070-10.4	1920-10.5	1830-10.5	1710-10.6
				1820-12.4	1680-12.5	1540-12.6	1440-12.6	1330-12.7
					1410-14.7	1280-14.8	1180-14.8	1070-14.9
						1100-17	1000-17.1	900-17.2
							880-19.2	780-19.3
								690-21.5
Lifting capacity, manual extensions	kg-m			1480-14.7	1170-17.1	920-19.4	620-21.6	320-23.9
Slewing torque, gross	kNm	27.1	27.1	27.1	27.1	27.1	27.1	27.1
Slewing angle	°	400	400	400	400	400	400	400
Max. heel at max. load moment	°	5	5	5	5	5	5	5
Slewing speed	°/s	24	24	24	24	24	24	24

2820 - Metric Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	mm	2295	2295	2295	2295	2295	2295	2335
Width	mm	2500	2500	2500	2500	2500	2500	2500
Width with extra valves (int. hose routing)	mm	2535	2535	2535	2535	2535	2535	2535
Length, no extra valves	mm	885	885	885	885	885	995	995
Length, with extra valves (hose guides)	mm	1005	1005	1005	1005	1005		
Length, with 1 extra valve (hose reels)	mm						995	995
Length, with 2 extra valves (hose reels)	mm						1030	1030
Length, with extra valves (int. hose routing)	mm	885	885	885	885	885		
Stabilizer spread, S1 (standard)	mm	5575	5575	5575	5575	5575	5575	5575
Stabilizer spread, D1	mm	6455	6455	6455	6455	6455	6455	6455
Stabilizer spread, D2		7400	7400	7400	7400	7400	7400	7400

Weights, basic loader	Unit	K2	K3	K4	K5	K6	K7	K8
Standard loader 1), excl. stabilizers	kg	1980	2150	2350	2500	2640	2745	2830
Stabilizers, S1 fixed	kg	290	290	290	290	290	290	290
Stabilizers, S1 swing-up	kg	295	295	295	295	295	295	295
Stabilizers, S1 hydr. swing-up	kg	300	300	300	300	300	300	300
Stabilizers, D fixed	kg	365	365	365	365	365	365	365
Stabilizers, D swing-up	kg	370	370	370	370	370	370	370
Stabilizers, D hydr. swing-up	kg	375	375	375	375	375	375	375
Stabilizers, D2 fixed	kg	365	365	365	365	365	365	365
Mounting kit, 4 bolts	kg	65	65	65	65	65	65	65
Mounting kit, 8 bolts	kg	60	60	60	60	60	60	60
Tank, excl. oil (fitted on loader)	kg	45	45	45	45	45	45	45
Manual extensions	kg			80	70	60	45	35
Oil in loader (stowing position)	kg	45	50	55	60	65	70	70

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

2820 - Metric Specifications - Continued

Weights, equipment	Unit	K2	K3	K4	K5	K6	K7	K8
Stand-up controls (HS), std.	kg	60	60	60	60	60	60	60
Stand-up controls (HS), direct valve control	kg	70	70	70	70	70	70	70
Top seat (TS)	kg	90	90	90	90	90	90	90
Top seat, ladder	kg	20	20	20	20	20	20	20
1 extra valve, hose guides	kg	55	65	75	85	95		
1 extra valve, hose reels	kg						95	95
1 extra valve, int. hose routing	kg	75	75	80	80	85		
2 extra valves, hose guides	kg	75	90	105	120	135		
2 extra valves, hose reels	kg						185	185
2 extra valves, int. hose routing	kg	130	130	140	145	150		
Winch (1.5 t), single snatch block	kg	175	175	175	175	180	180	190
Winch (1.5 t), double snatch block	kg	170	170	170	170	175	175	180
Winch (2.5 t), single snatch block	kg	200	200	200	200	205	205	210
Winch (2.5 t), double snatch block	kg	195	195	195	195	200	200	205
High-pressure filter	kg	7	7	7	7	7	7	7
Oil cooler	kg	25	25	25	25	25	25	25

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

Max. Load on stabilizers (per stabilizer cylinder)	Unit	K2	K3	K4	K5	K6	K7	K8
S1, fixed	kN	120	120	120	120	120	120	120
S1, swing-up	kN	120	120	120	120	120	120	120
S1, hydr. swing-up	kN	120	120	120	120	120	120	120
D, fixed	kN	100	100	100	100	100	100	100
D, swing-up	kN	100	100	100	100	100	100	100
D, hydr. swing-up	kN	100	100	100	100	100	100	100

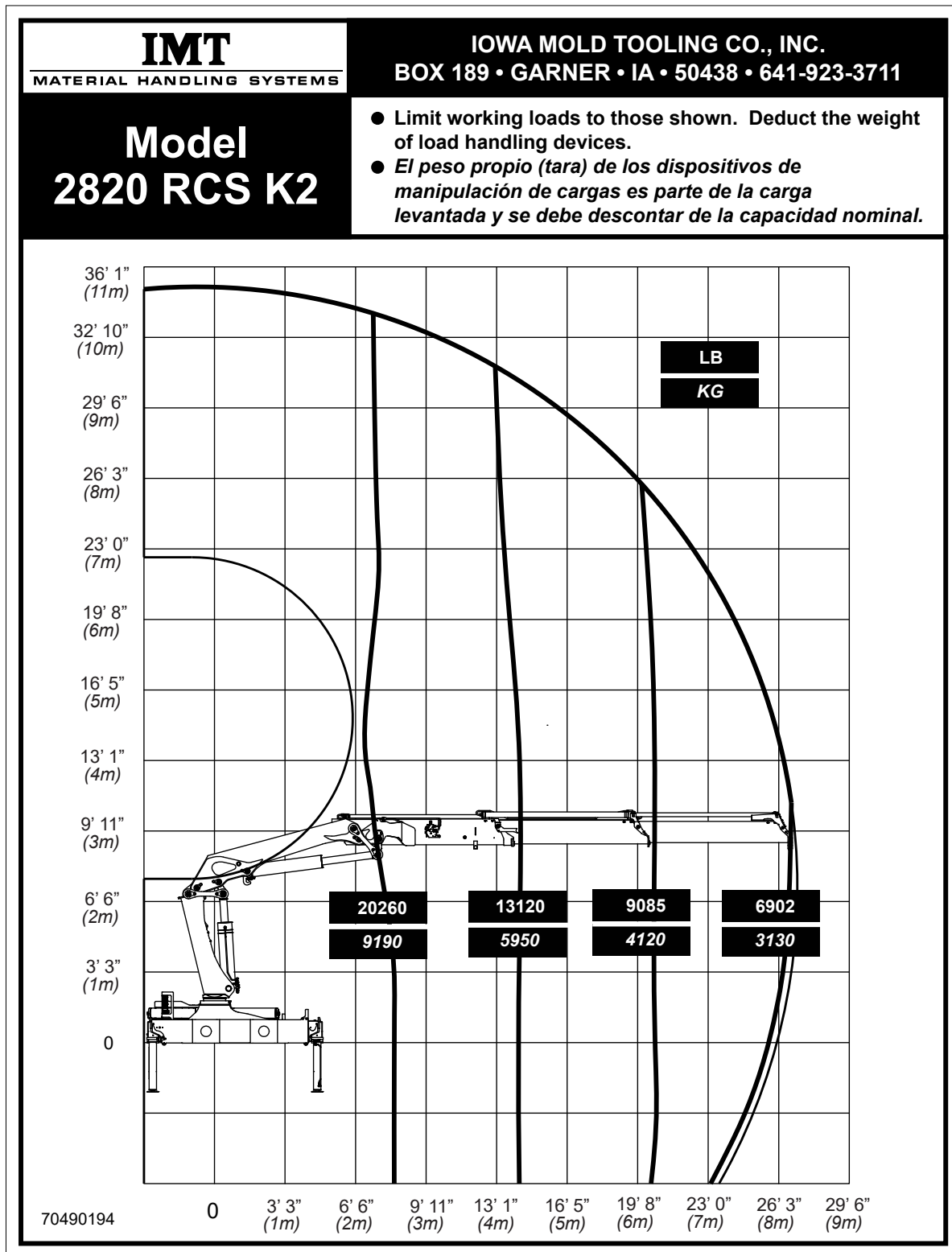
Power consumption (oil capacity)	Unit	K2	K3	K4	K5	K6	K7	K8
Working pressure	Bar	345	345	345	345	345	345	345
Tank capacity (fitted on loader)	L	90	90	90	90	90	90	90
Max. pump performance, Danfoss fixed flow	L/min	70	70	70	70	70	70	70
Max. pump performance, Danfoss variable	L/min	120	120	120	120	120	120	120

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2820 Load Capacity Charts

Section - 6

2820 - Lifting Capacity Chart, K2



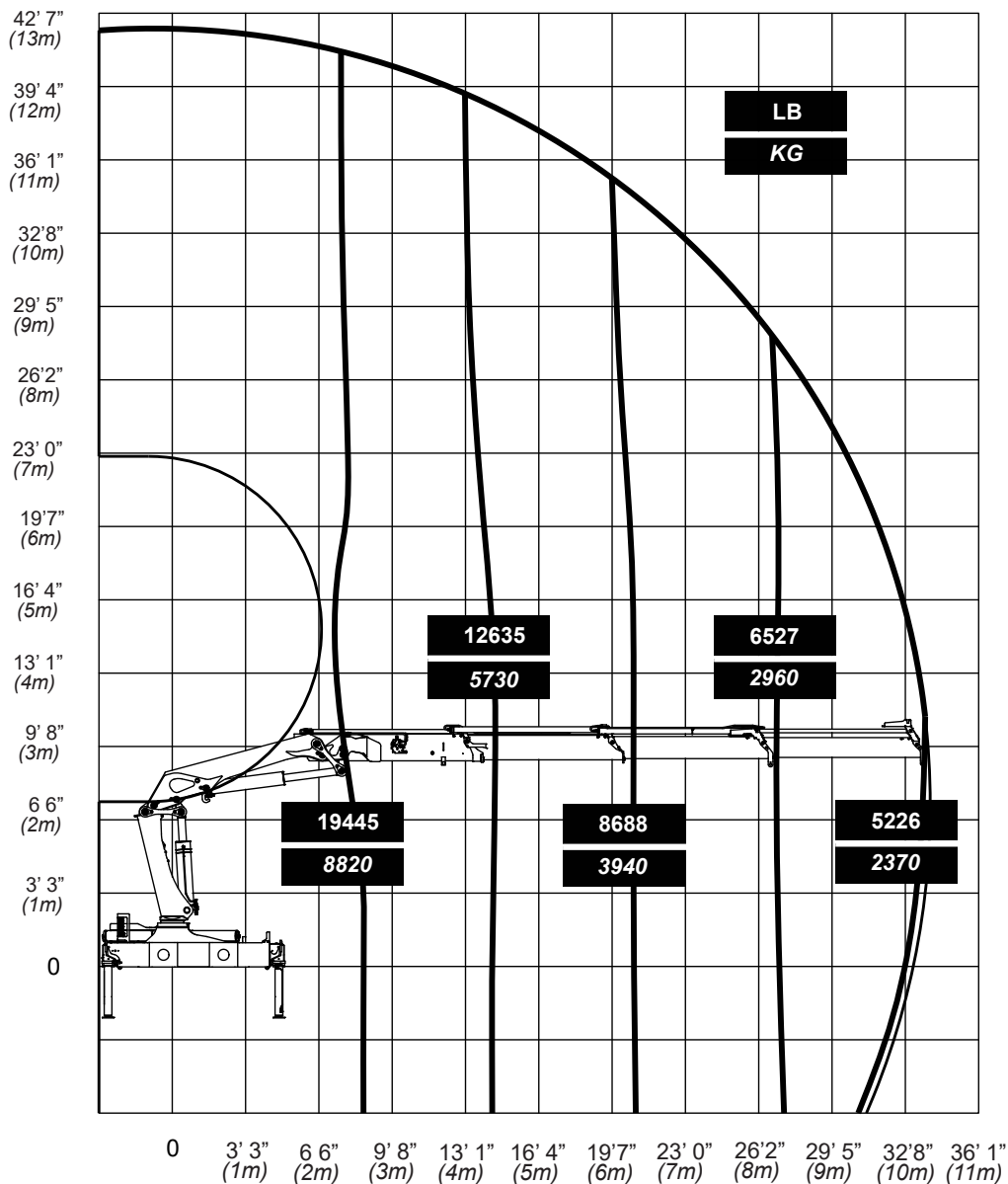
2820 - Lifting Capacity Chart, K3

IMT
MATERIAL HANDLING SYSTEMS

Model 2820 RCS K3

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.*



70490195

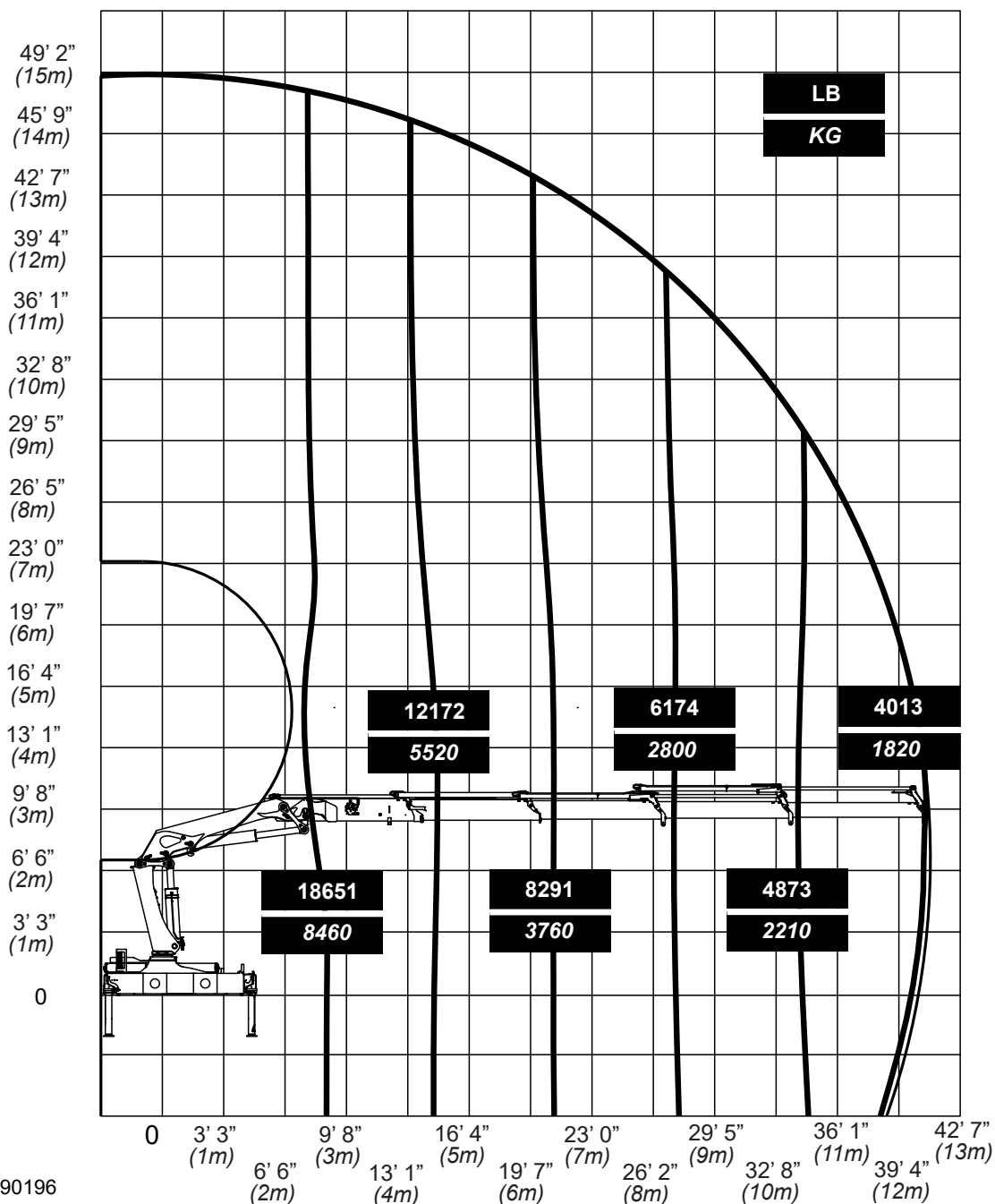
2820 - Lifting Capacity Chart, K4

IMT
MATERIAL HANDLING SYSTEMS

Model 2820 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.*



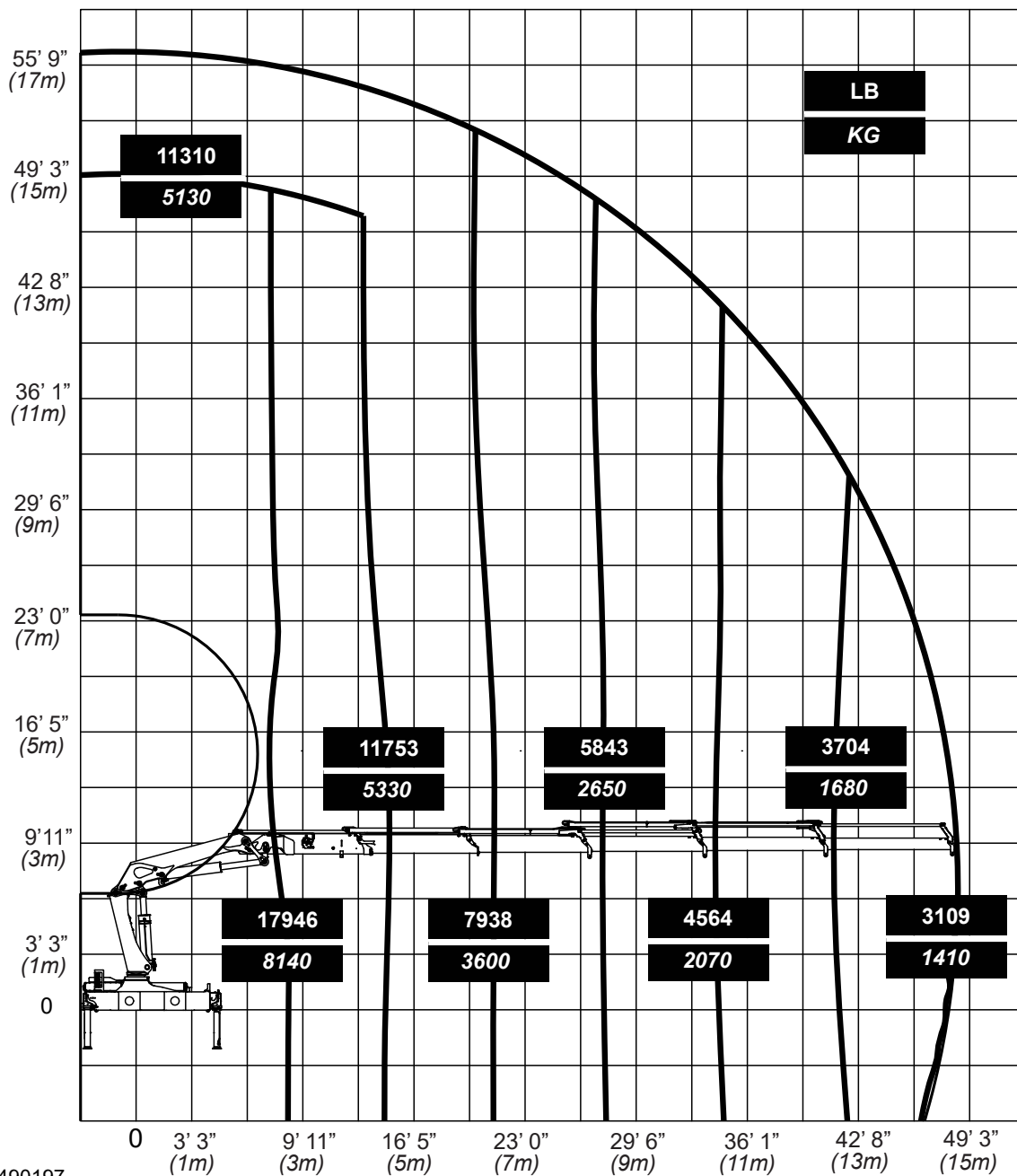
2820 - Lifting Capacity Chart, K5

IMT
MATERIAL HANDLING SYSTEMS

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

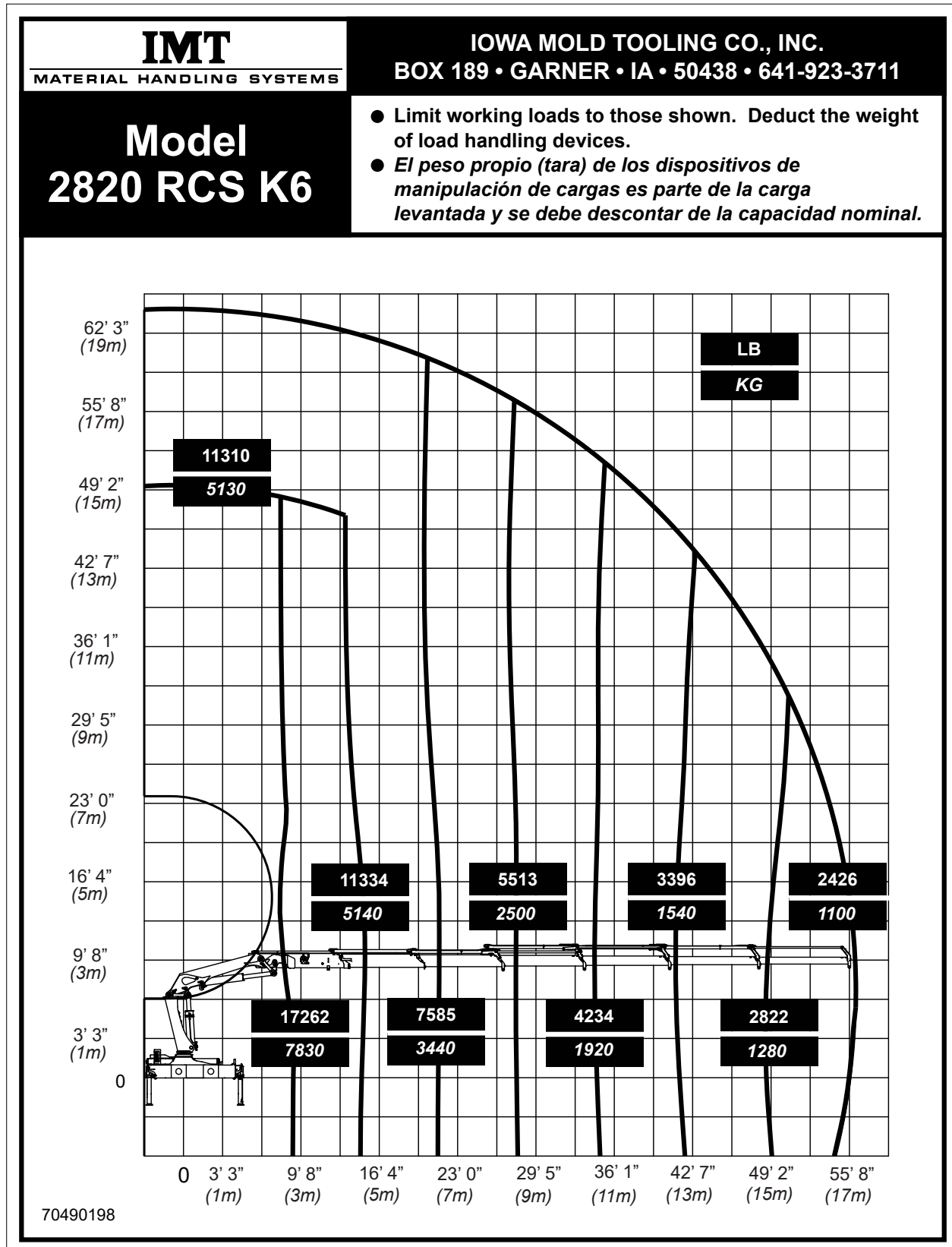
Model 2820 RCS K5

- 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.*



70490197

2820 - Lifting Capacity Chart, K6



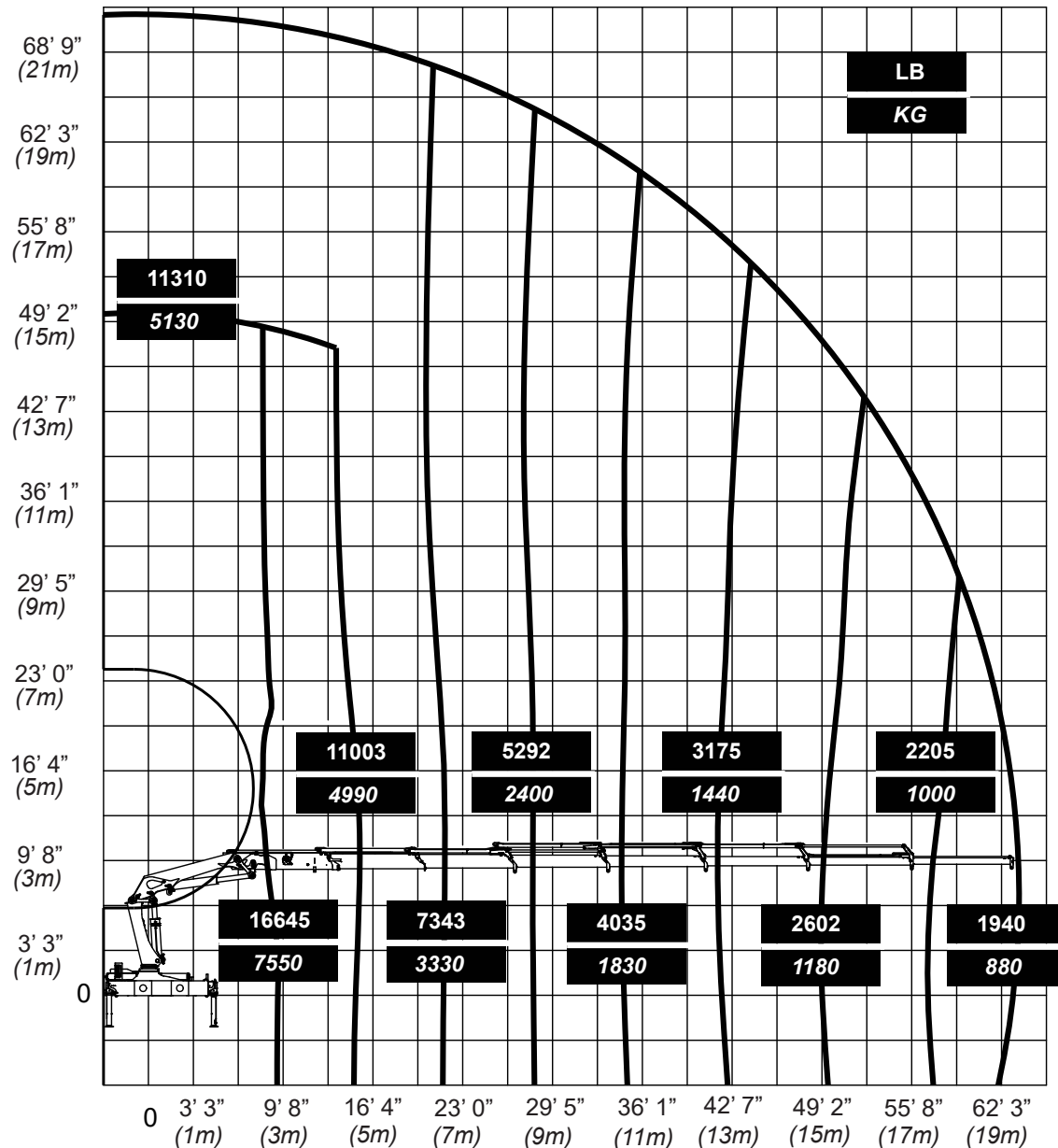
2820 - Lifting Capacity Chart, K7

IMT
MATERIAL HANDLING SYSTEMS

Model 2820 RCS K7

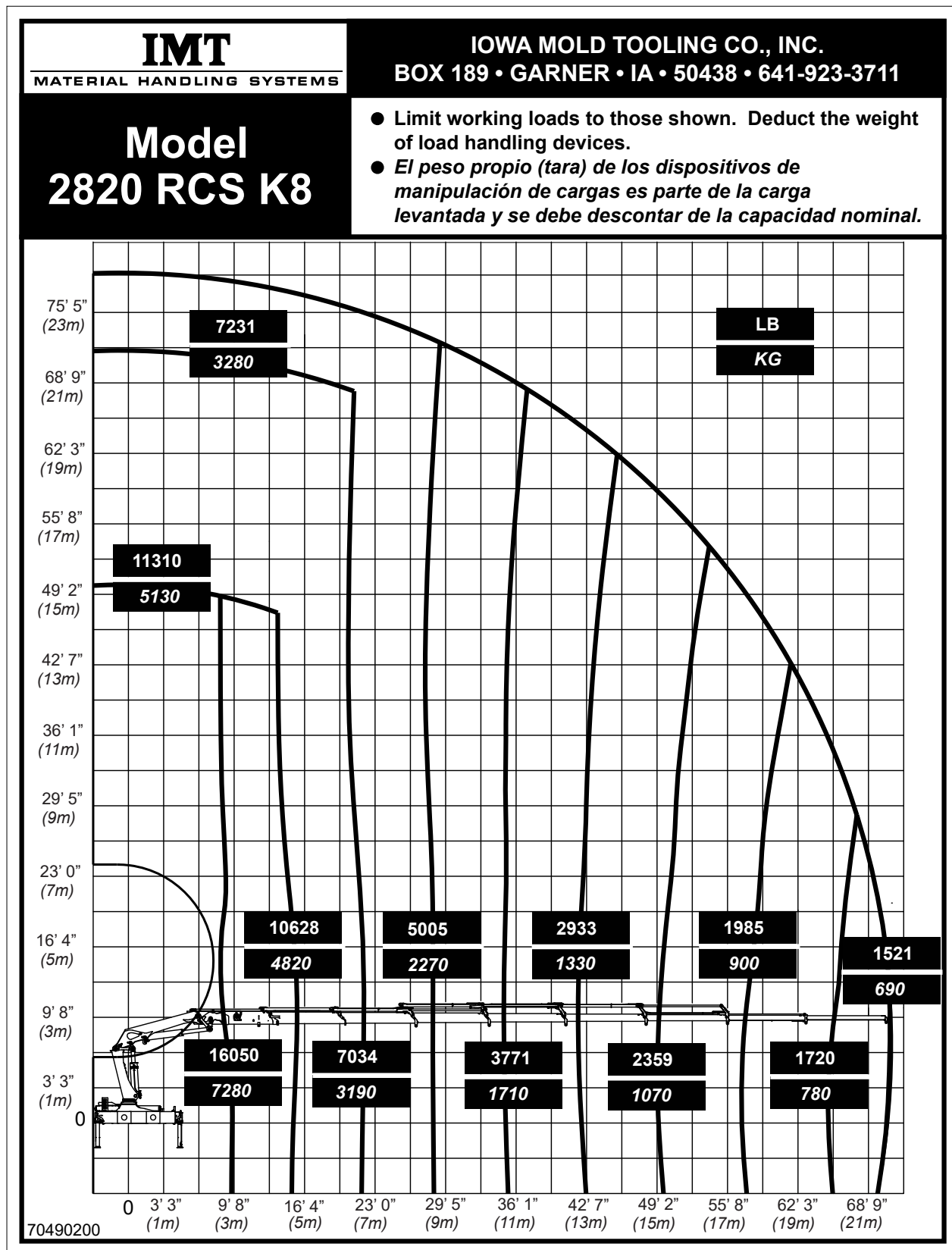
IOWA MOLD TOOLING CO., INC.
BOX 189 • GARNER • IA • 50438 • 641-923-3711

- 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.*



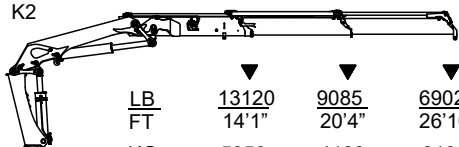
70490199

2820 - Lifting Capacity Chart, K8



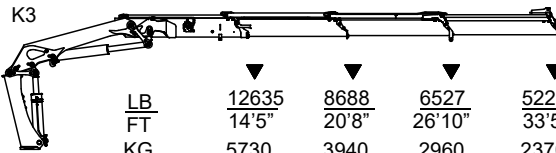
2820 - Lifting Capacities, K2-K8

K2



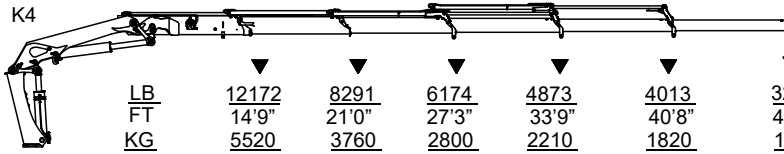
	▼	▼	▼
LB	13120	9085	6902
FT	14'1"	20'4"	26'10"
KG	5950	4120	3130
M	4,3	6,2	8,2

K3



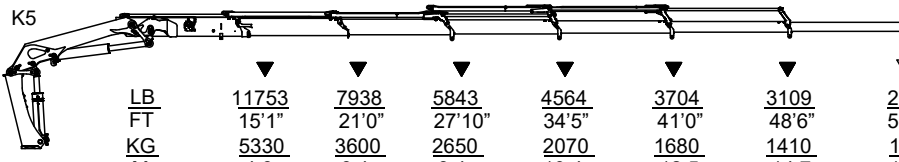
	▼	▼	▼	▼
LB	12635	8688	6527	5226
FT	14'5"	20'8"	26'10"	33'5"
KG	5730	3940	2960	2370
M	4,4	6,3	8,2	10,2

K4



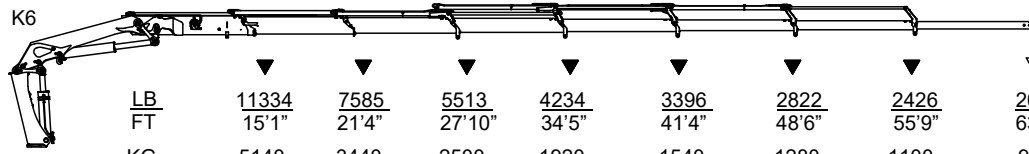
	▼	▼	▼	▼	▼	▽
LB	12172	8291	6174	4873	4013	3263
FT	14'9"	21'0"	27'3"	33'9"	40'8"	48'2"
KG	5520	3760	2800	2210	1820	1480
M	4,5	6,4	8,3	10,3	12,4	14,7

K5



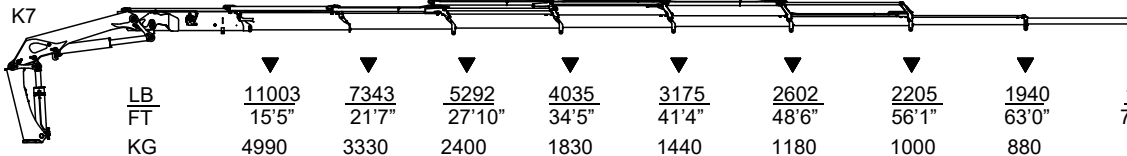
	▼	▼	▼	▼	▼	▼	▽
LB	11753	7938	5843	4564	3704	3109	2580
FT	15'1"	21'0"	27'10"	34'5"	41'0"	48'6"	56'0"
KG	5330	3600	2650	2070	1680	1410	1170
M	4,6	6,4	8,4	10,4	12,5	14,7	17,1

K6



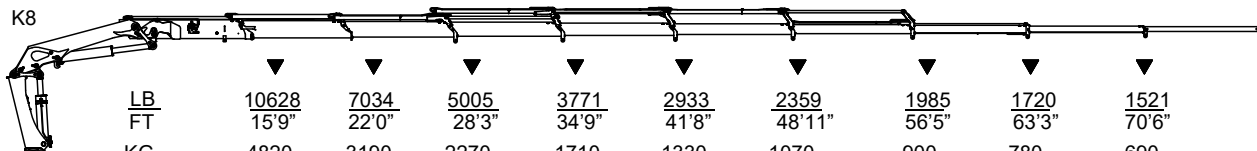
	▼	▼	▼	▼	▼	▼	▼	▽
LB	11334	7585	5513	4234	3396	2822	2426	2029
FT	15'1"	21'4"	27'10"	34'5"	41'4"	48'6"	55'9"	63'7"
KG	5140	3440	2500	1920	1540	1280	1100	920
M	4,6	6,5	8,5	10,5	12,6	14,8	17,0	19,4

K7



	▼	▼	▼	▼	▼	▼	▼	▼	▽
LB	11003	7343	5292	4035	3175	2602	2205	1940	1367
FT	15'5"	21'7"	27'10"	34'5"	41'4"	48'6"	56'1"	63'0"	70'10"
KG	4990	3330	2400	1830	1440	1180	1000	880	620
M	4,7	6,6	8,5	10,5	12,6	14,8	17,1	19,2	21,6

K8



	▼	▼	▼	▼	▼	▼	▼	▼	▼	▽
LB	10628	7034	5005	3771	2933	2359	1985	1720	1521	706
FT	15'9"	22'0"	28'3"	34'9"	41'8"	48'11"	56'5"	63'3"	70'6"	78'4"
KG	4820	3190	2270	1710	1330	1070	900	780	690	320
M	4,8	6,7	8,6	10,6	12,7	14,9	17,2	19,3	21,5	23,9

▽ WITH MANUAL EXTENSIONS

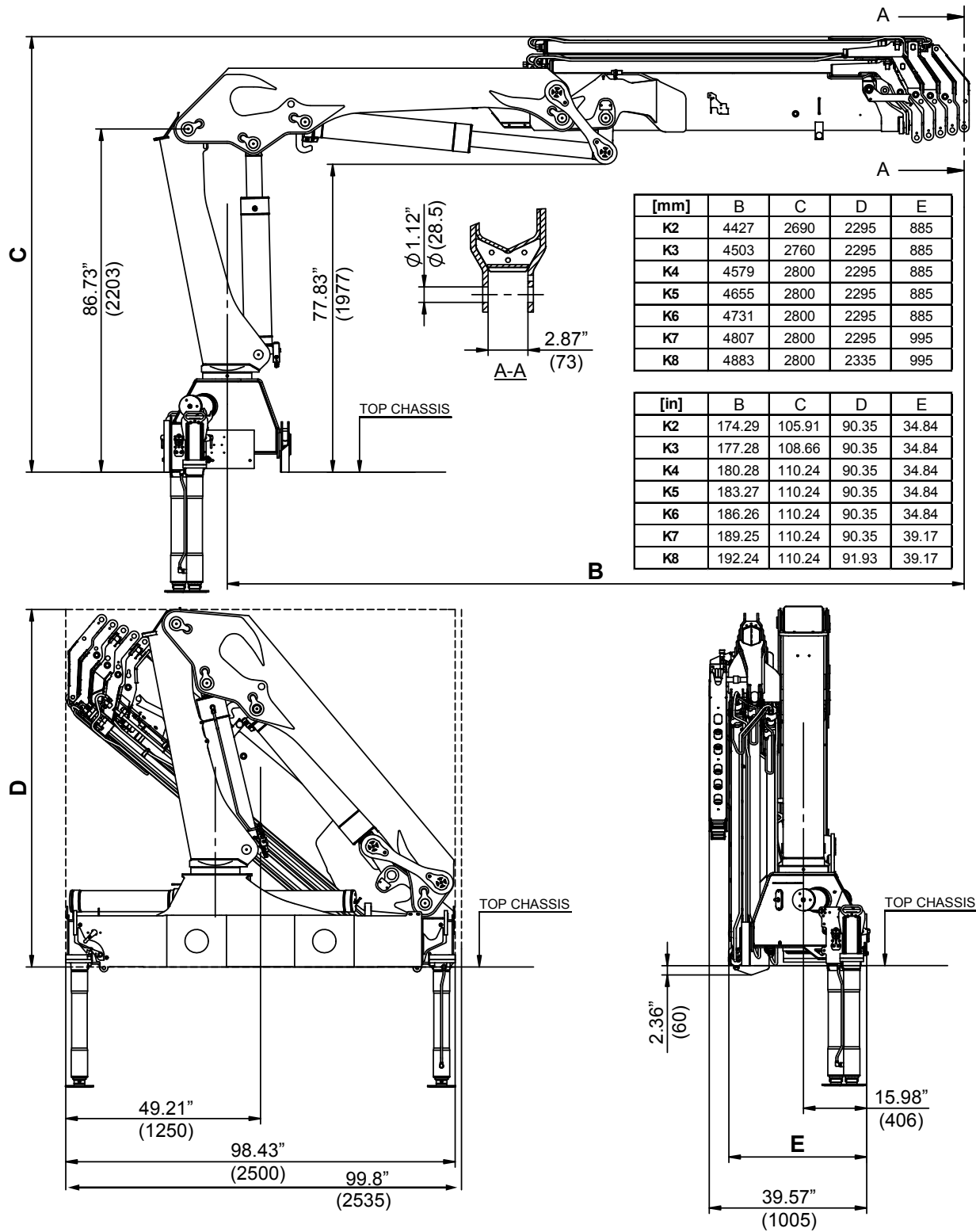
▼ WITHOUT MANUAL EXTENSIONS

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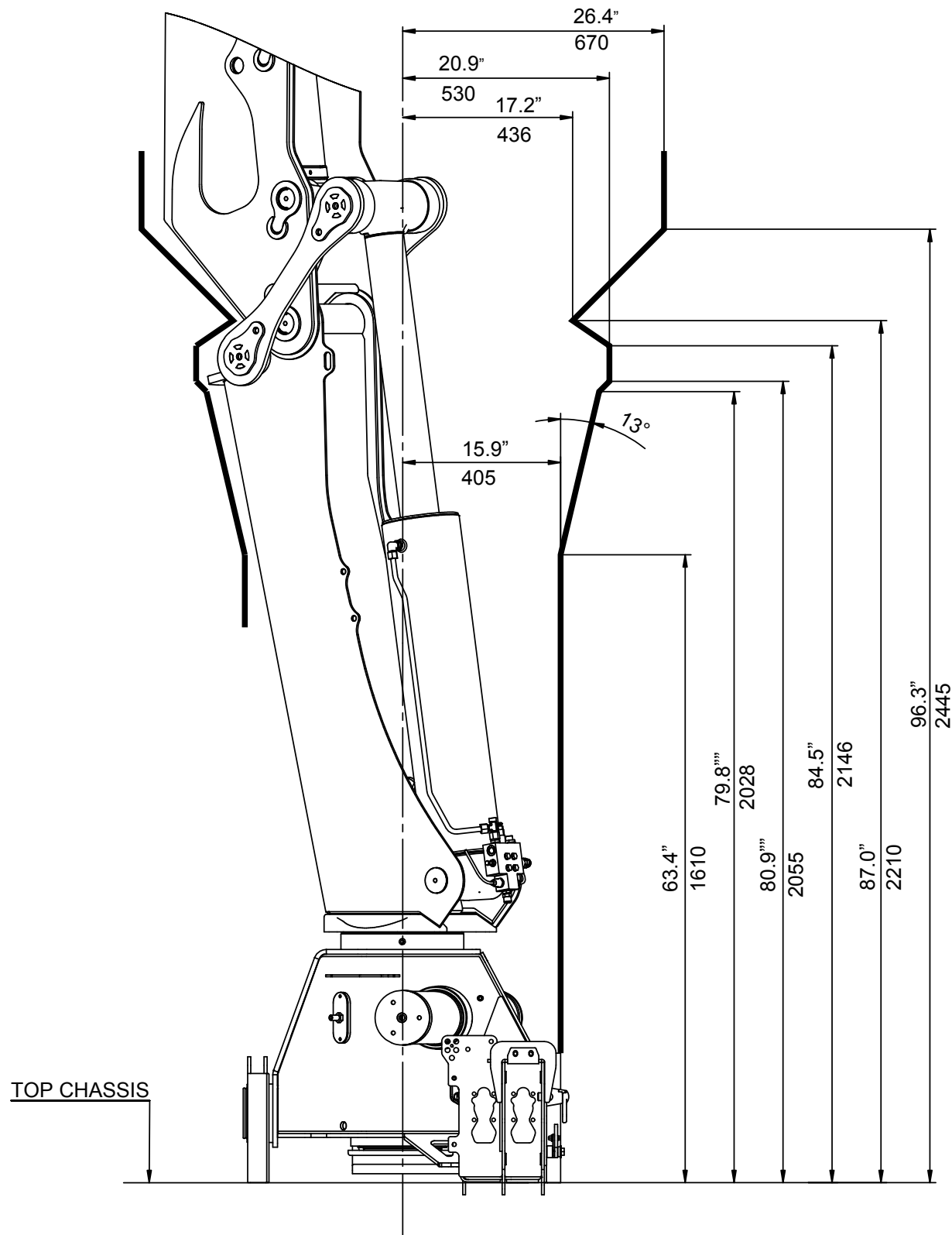
2820 Dimensional Drawings

Section - 7

2820 - Dimension Sketch

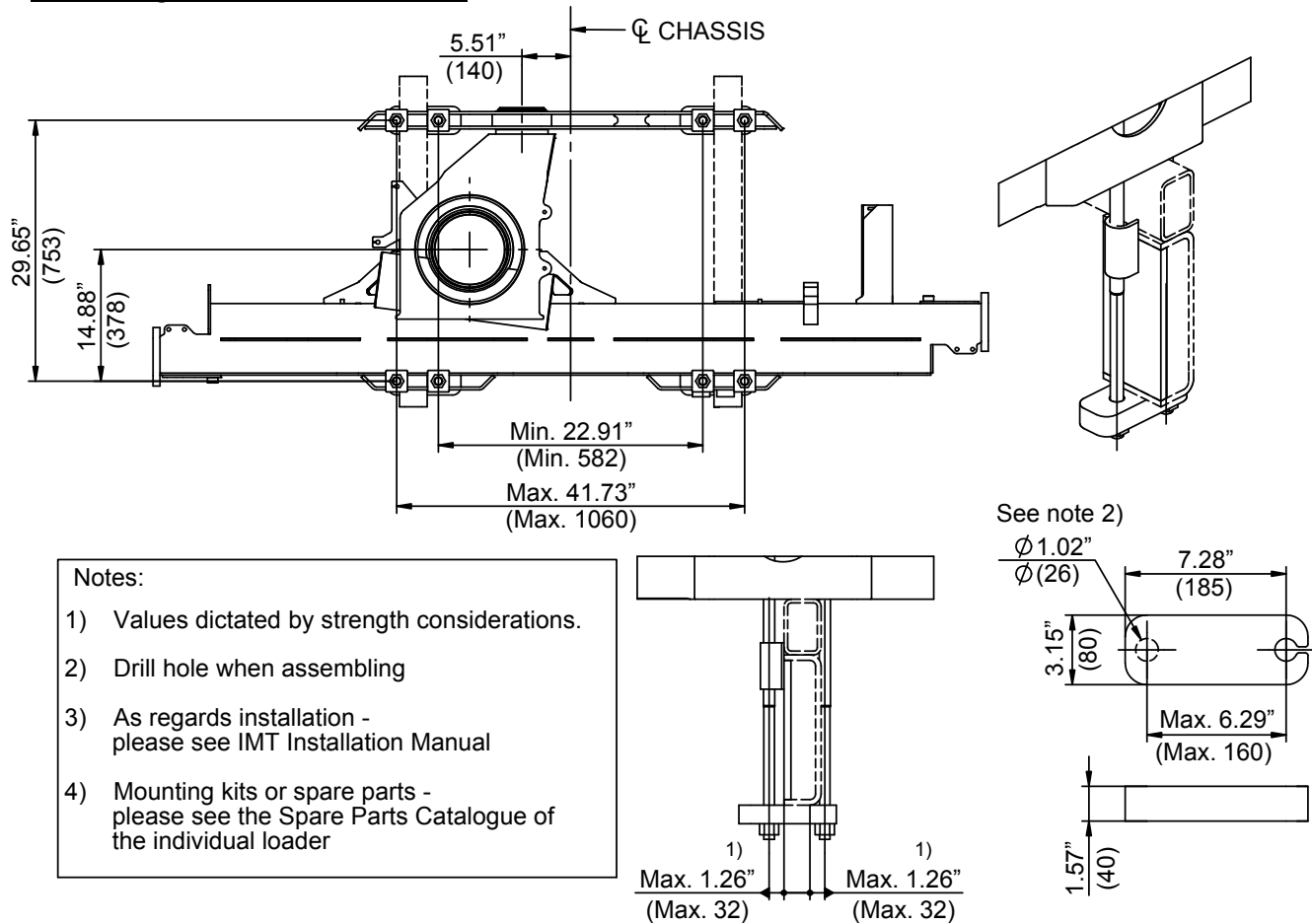


2820 - Slewing Radius

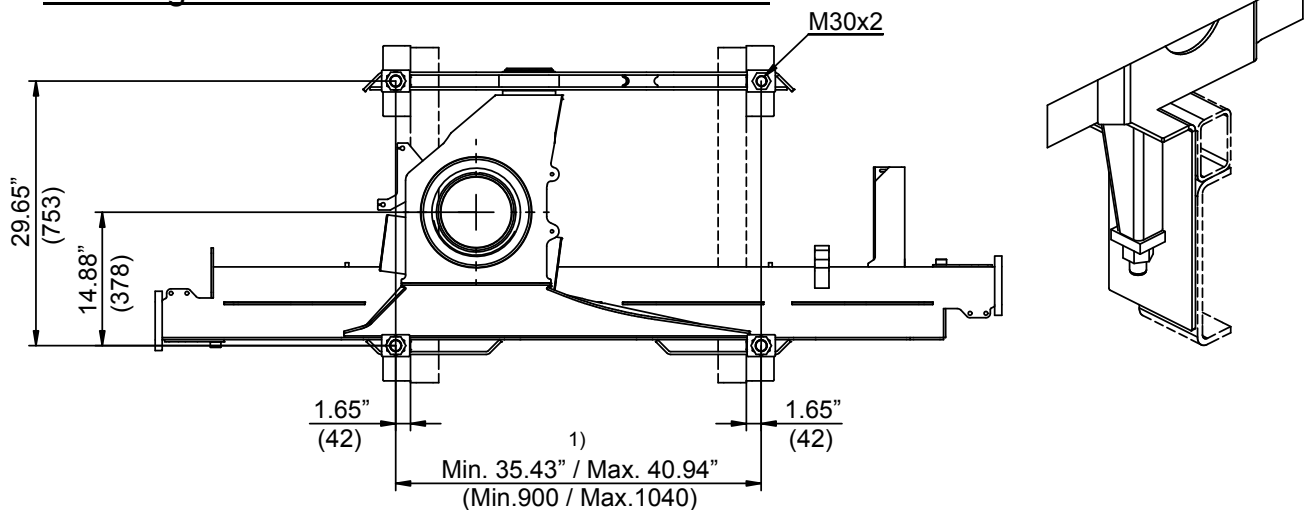


2820 - Dimension sketch for truck-mounted loader

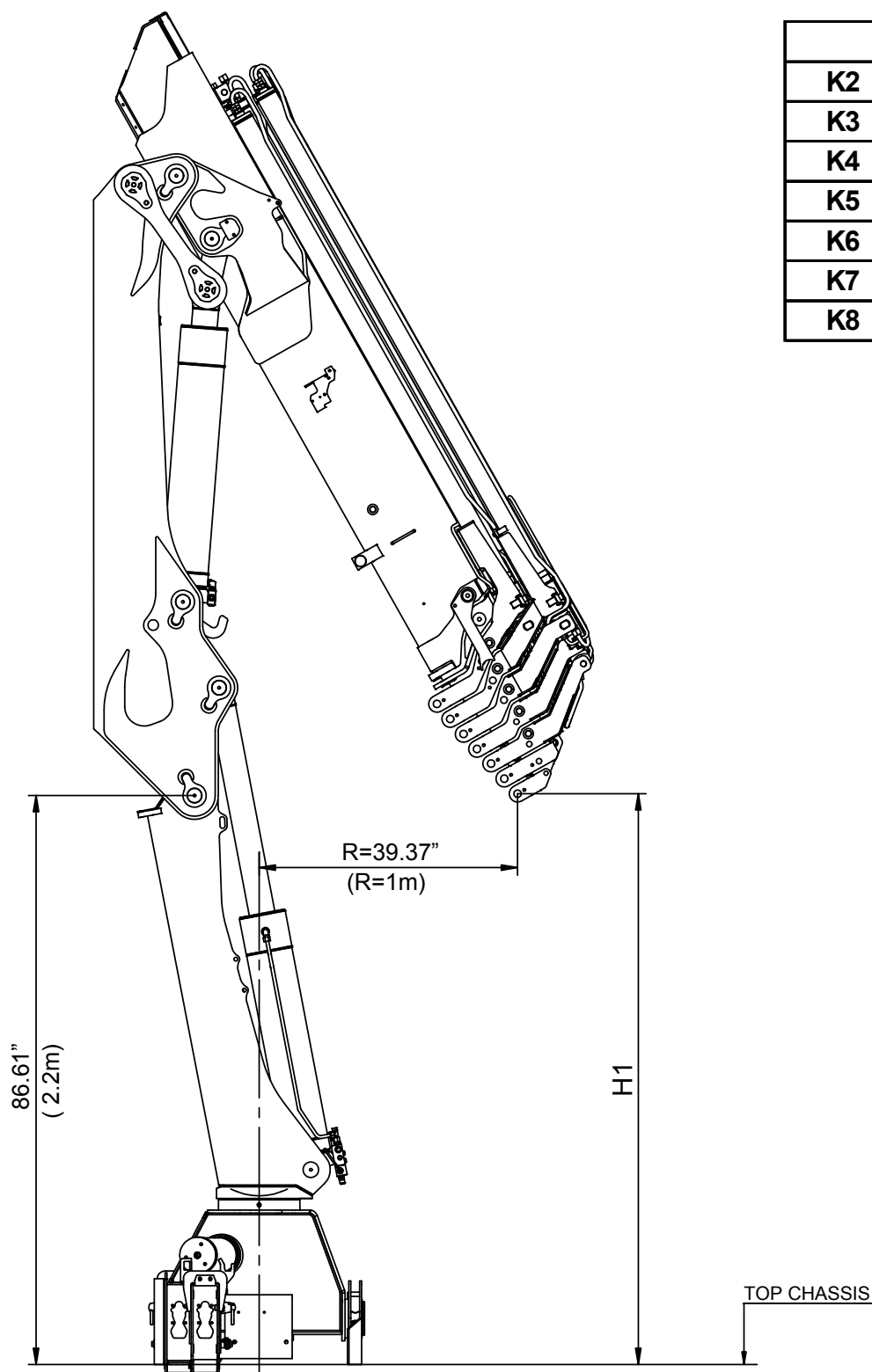
Mounting kit 8 x M24x2 bolts



Mounting kit 3 x M33x2 bolts + 1 x M30x2 bolts

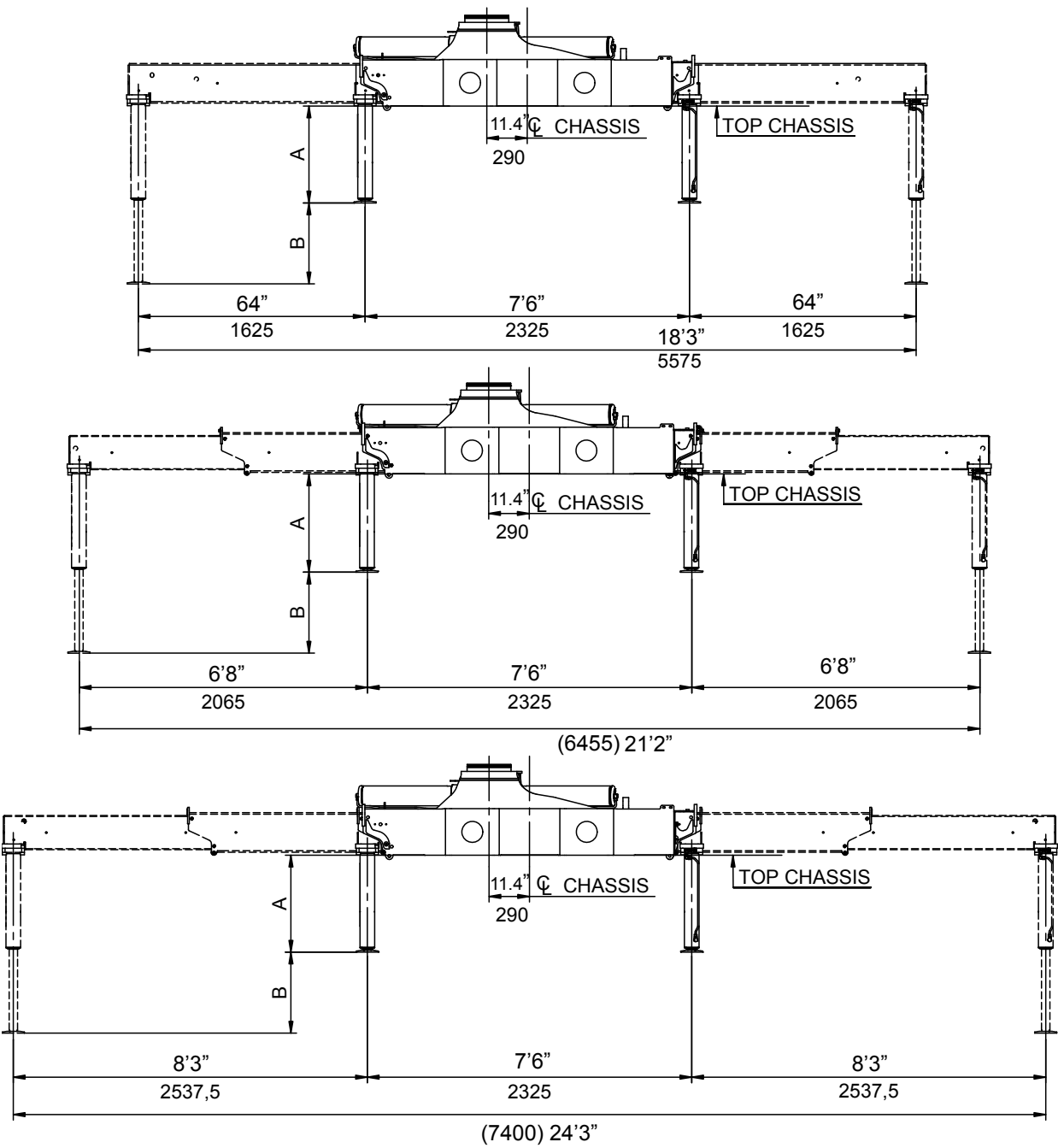


2820 - Lifting height at column



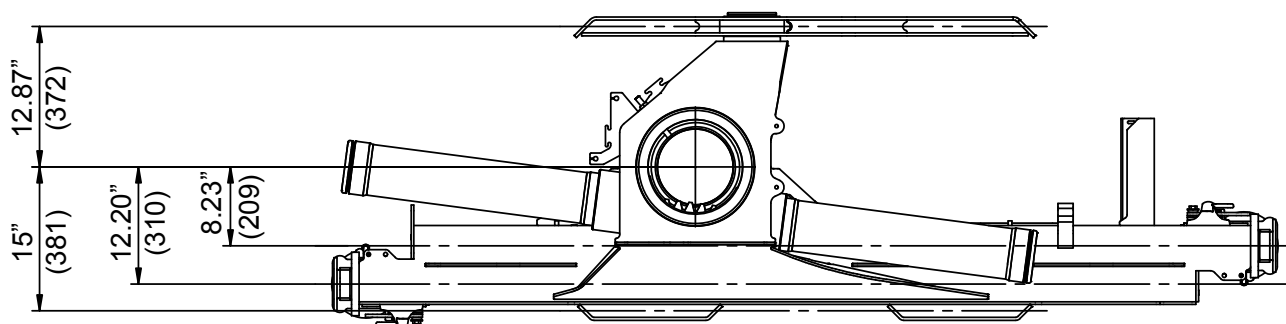
	H1	H1
K2	2.74 m	107.87"
K3	2.65 m	104.33"
K4	2.56 m	100.79"
K5	2.47 m	97.24"
K6	2.38 m	93.70"
K7	2.29 m	90.16"
K8	2.21 m	87.01"

2820 - Dimension sketch, fixed stabilizer legs

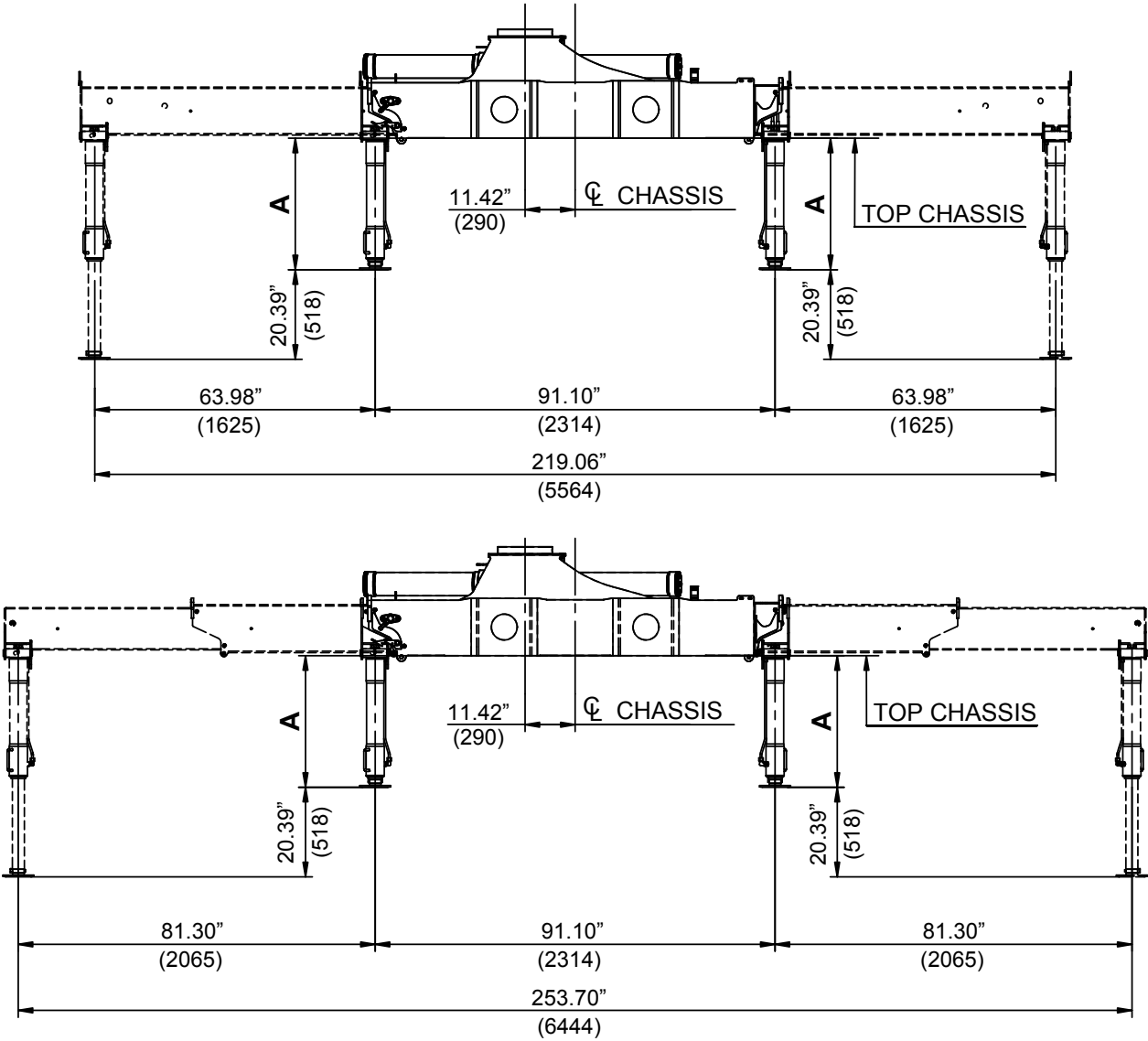


B			
580	A	695	762
680	A	795	862
580	A	27.4"	31.3"
680	A	30"	33.9"

B			
580	A	763	825
680	A	863	925
580	A	30"	34"
680	A	32.5"	36.4"

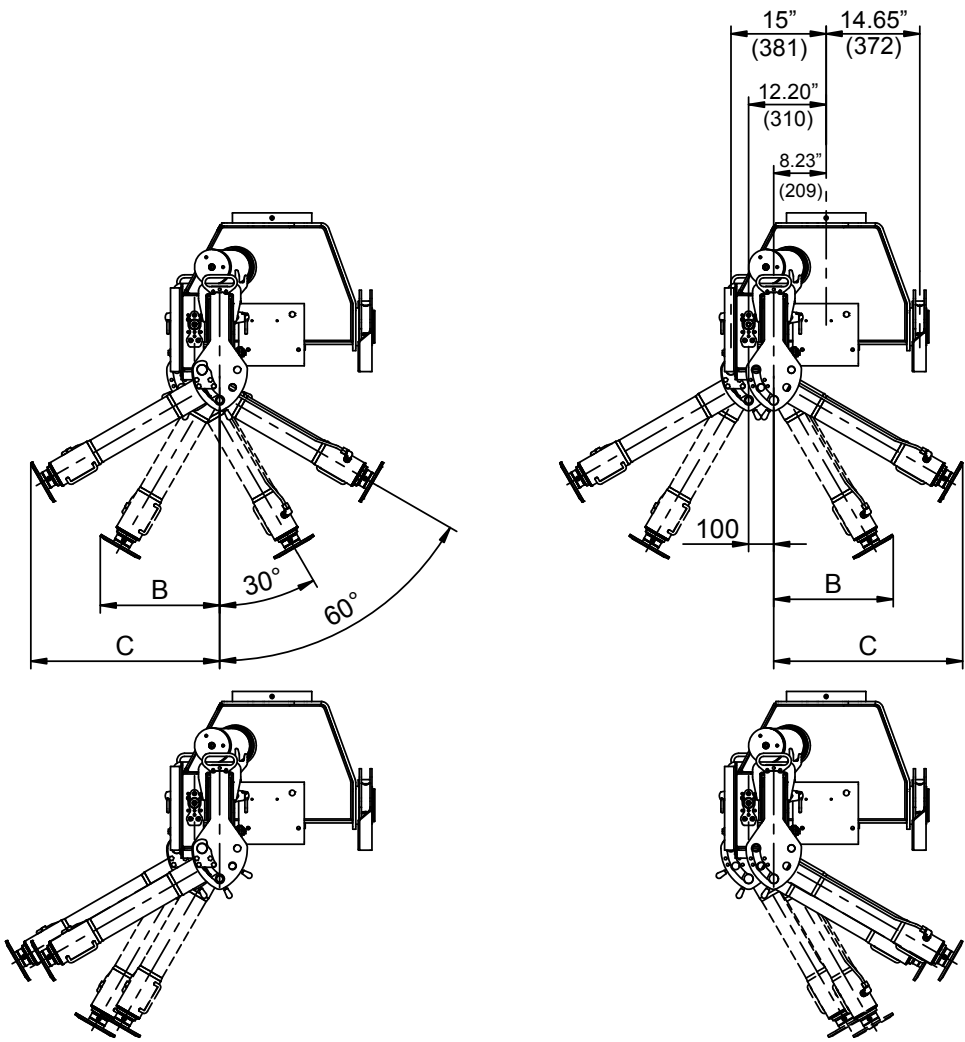
2820 - Dimension sketch, fixed stabilizer legs

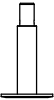
2820 - Dimension sketch, swing-up stabilizer legs 30° - 60° (manual)



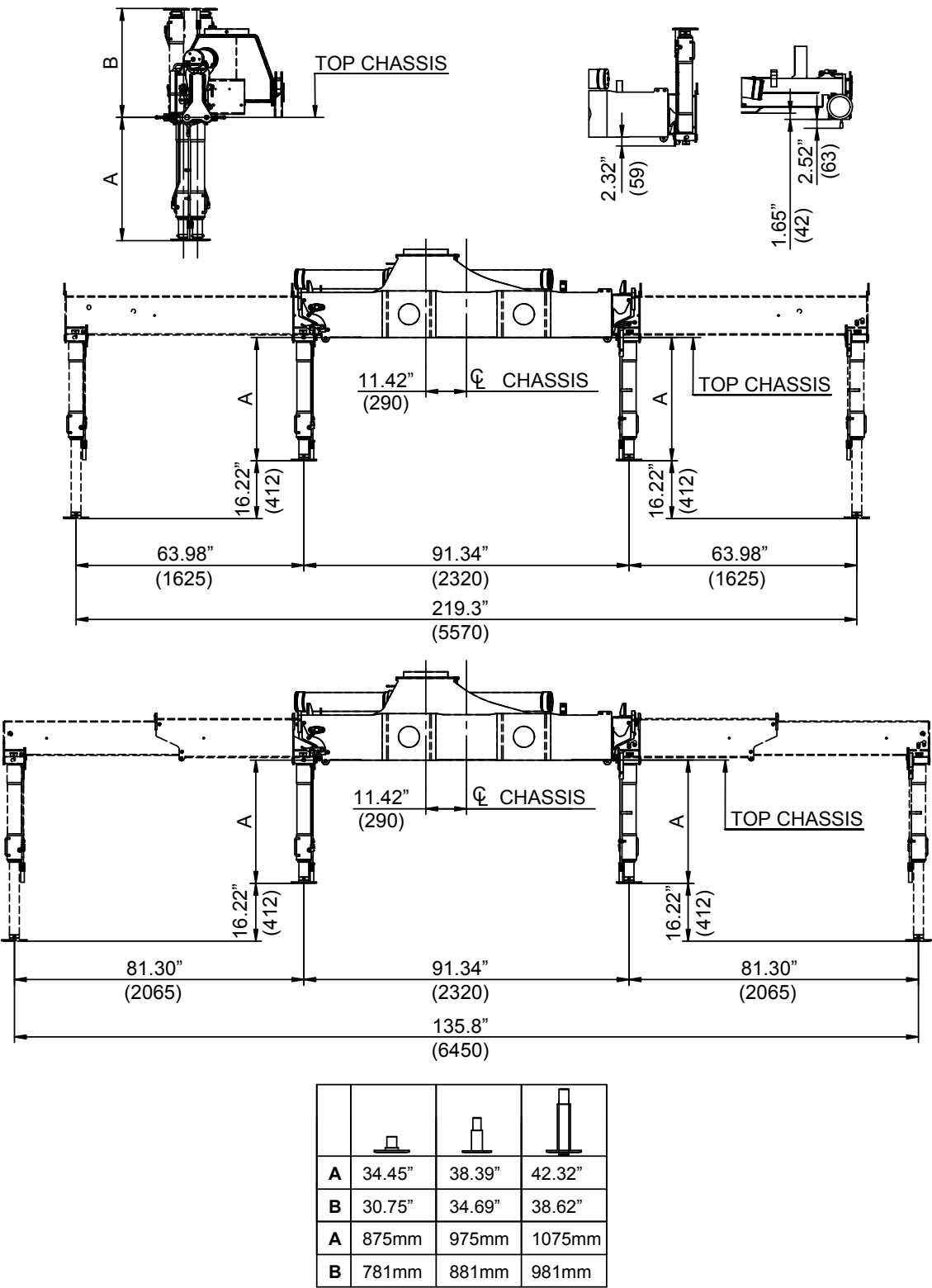
			
A Type R-60°	30.12"	34.06"	37.99"
A Type R-20° (Obsolete)	29.80"	33.74"	37.68"
A Type R-60°	765mm	865mm	965mm
A Type R-20° (Obsolete)	757mm	857mm	957mm

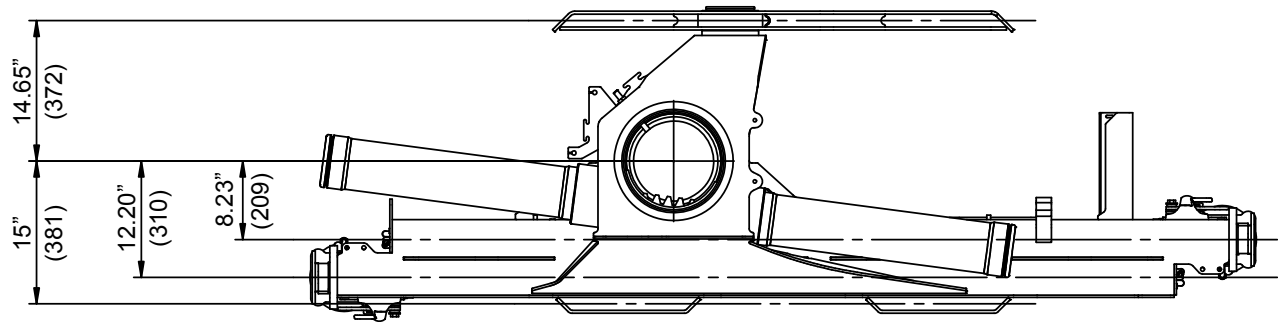
2820 - Dimension sketch, swing-up stabilizer legs 30° - 60° (manual)



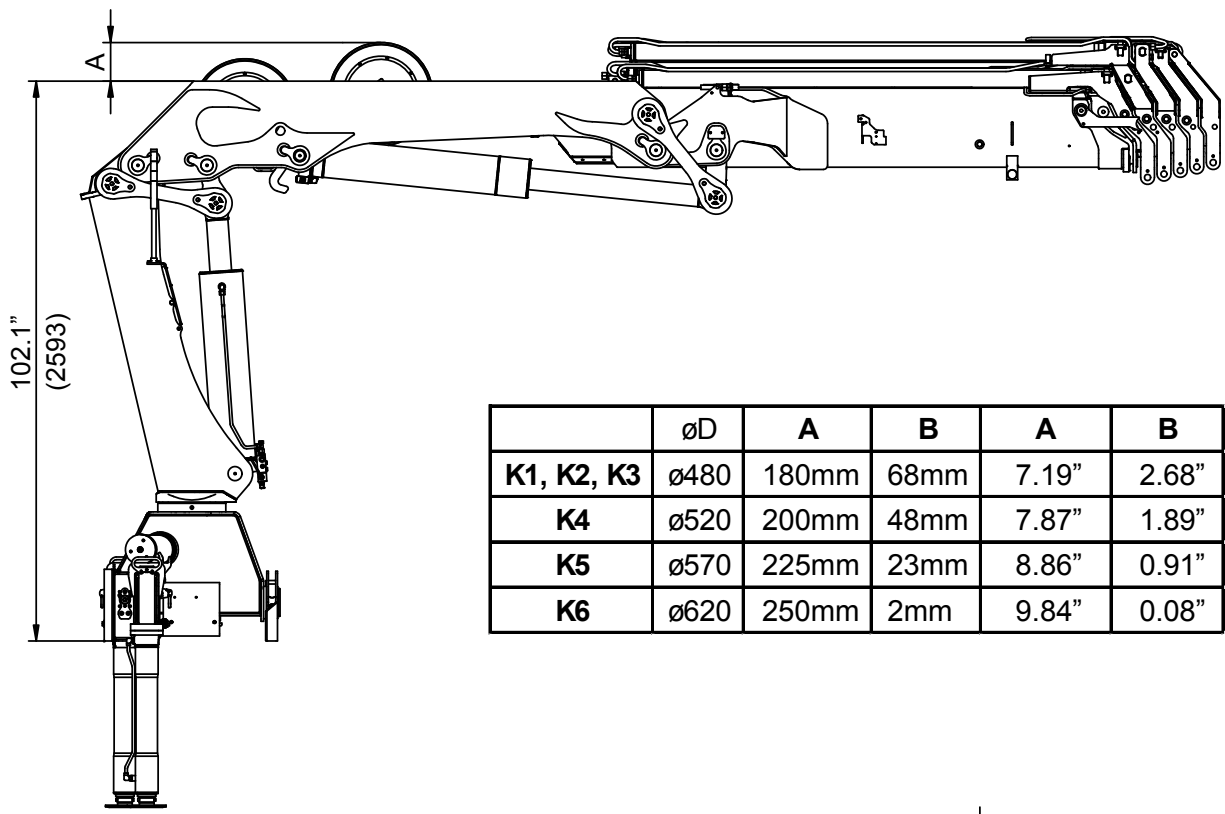
			
B	18.66"	20.63"	22.60"
C	29.53"	32.91"	36.34"
B	474mm	524mm	574mm
C	750mm	836mm	923mm

2820 - Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)

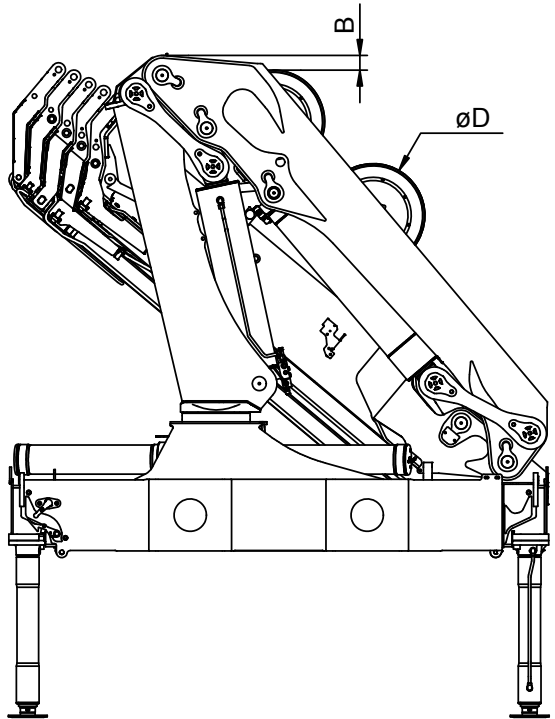
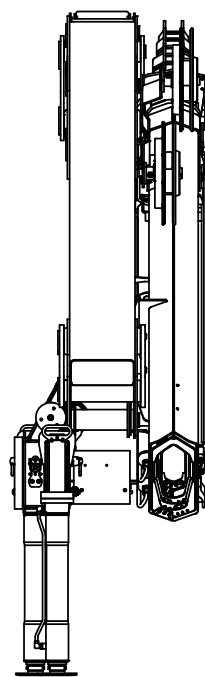


2820 - Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)

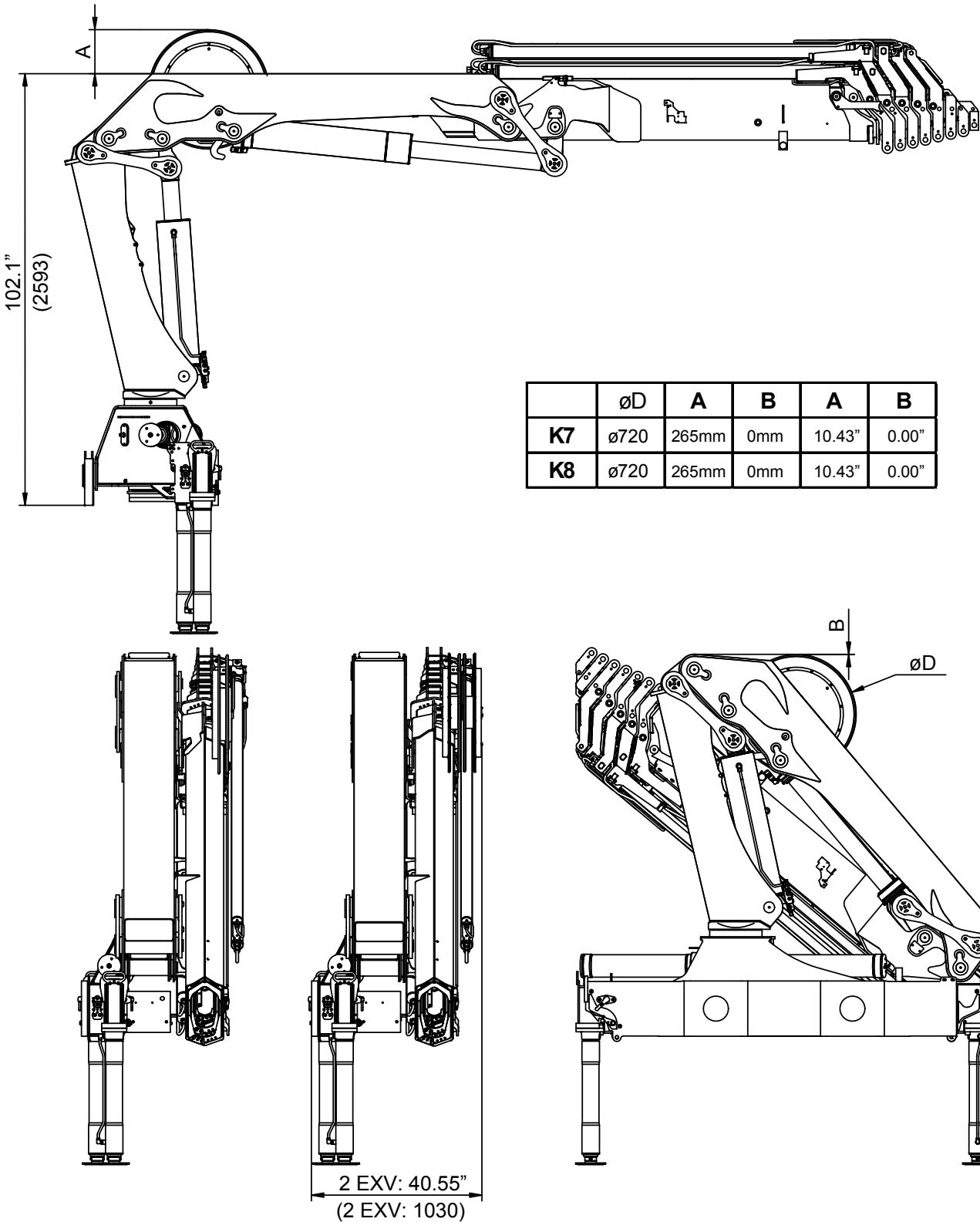
2820 - Dimension sketch, internal hose routing



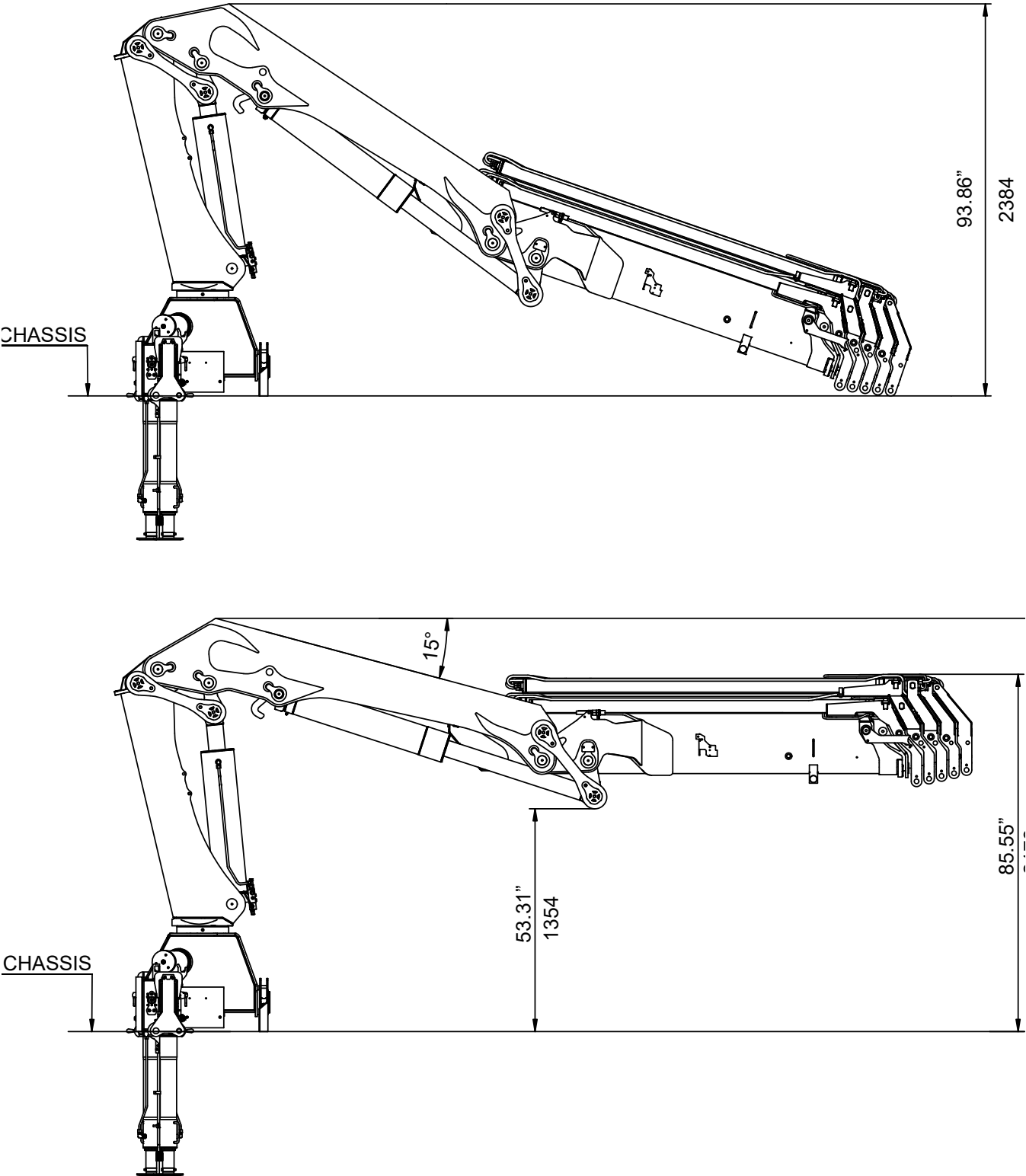
	øD	A	B	A	B
K1, K2, K3	ø480	180mm	68mm	7.19"	2.68"
K4	ø520	200mm	48mm	7.87"	1.89"
K5	ø570	225mm	23mm	8.86"	0.91"
K6	ø620	250mm	2mm	9.84"	0.08"



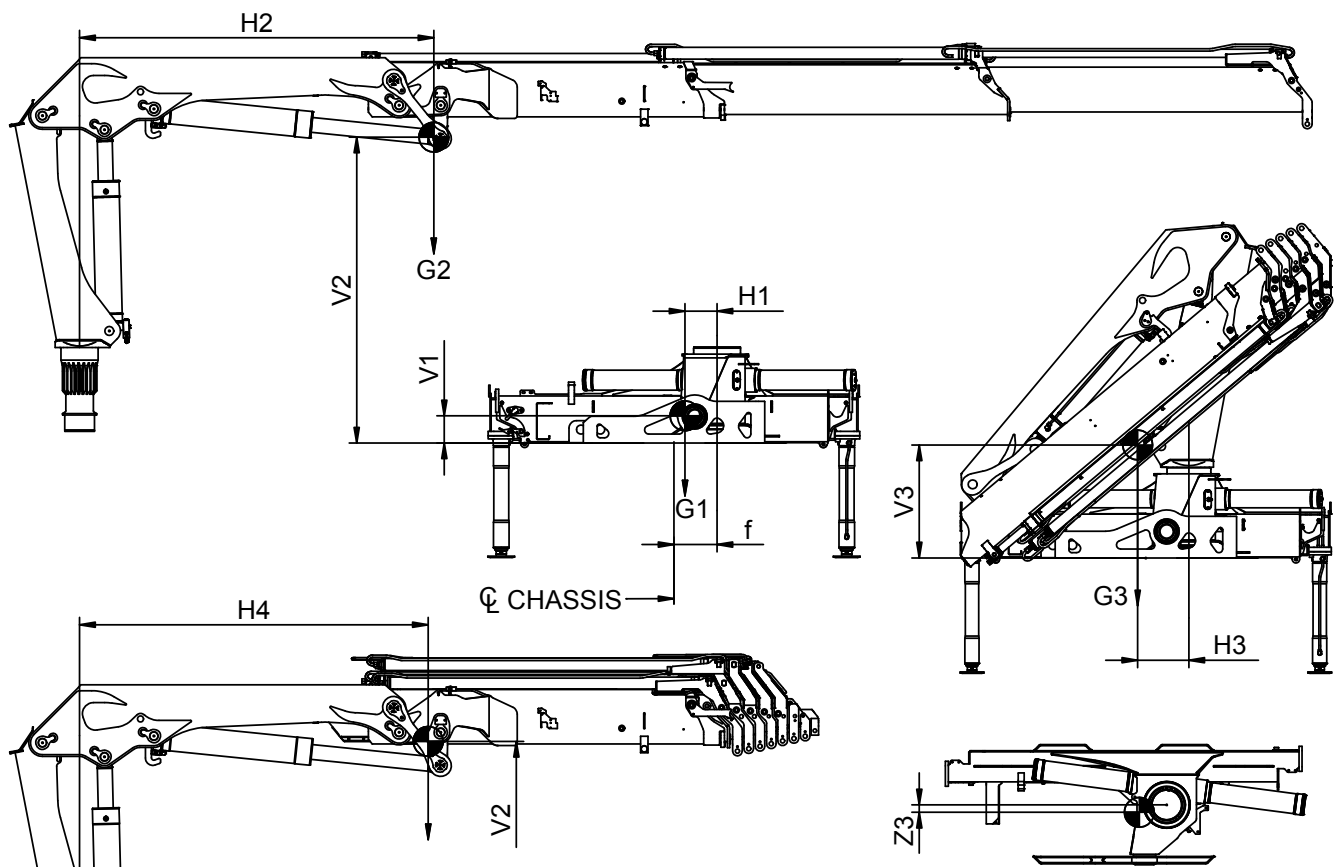
2820 - Dimension sketch, extra valves K7, K8



2820 - Stowed in truck body



2820 - Center of Gravity



	mm									kg		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	185	2065	760	145	2385	345	1690	20	290	870	1435	2305
K3	185	2105	785	145	3085	340	1865	40	290	870	1600	2470
K4	185	2140	810	145	3845	325	2020	55	290	870	1765	2635
K5	185	2165	830	145	4580	310	2115	75	290	870	1910	2780
K6	185	2185	845	145	5325	300	2210	85	290	870	2060	2930
K7	185	2195	865	145	5930	285	2280	100	290	870	2150	3020
K8	185	2210	880	145	6535	280	2350	110	290	870	2275	3145
	in									lbs		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	7.3	83.1	29.9	5.7	88.9	13	63	0.08	11.4	1918	3164	5082
K3	7.3	82.9	32.3	5.7	115.7	12.8	69.7	1.4	11.4	1918	3527	5445
K4	7.3	84.3	33.1	5.7	145.1	12.2	76	2.2	11.4	1918	3891	5809
K5	7.3	85.2	33.7	5.7	173.4	11.8	79.9	2.8	11.4	1918	4211	6129
K6	7.3	86	34.3	5.7	202.2	11.4	83.7	3.3	11.4	1918	4542	6460
K7	7.3	86.4	35	5.7	225.6	10.8	86.6	3.7	11.4	1918	4740	6658
K8	7.3	87	35.6	5.7	249	10.6	89.4	4.1	11.4	1918	5016	6934

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2820 Hydraulic Drawings

Section - 8

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	2973
	Left	B	P	180	P	2973
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	210	3046
	Left	210	3046
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
Pump performance	70 L/min	18.5 gpm

IMT reserves the right to introduce improvements and modifications

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	210	3046
	Left	210	3046
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)	330 [bar]	4786 [PSI]
HDL	285 [bar]	4134 [PSI]

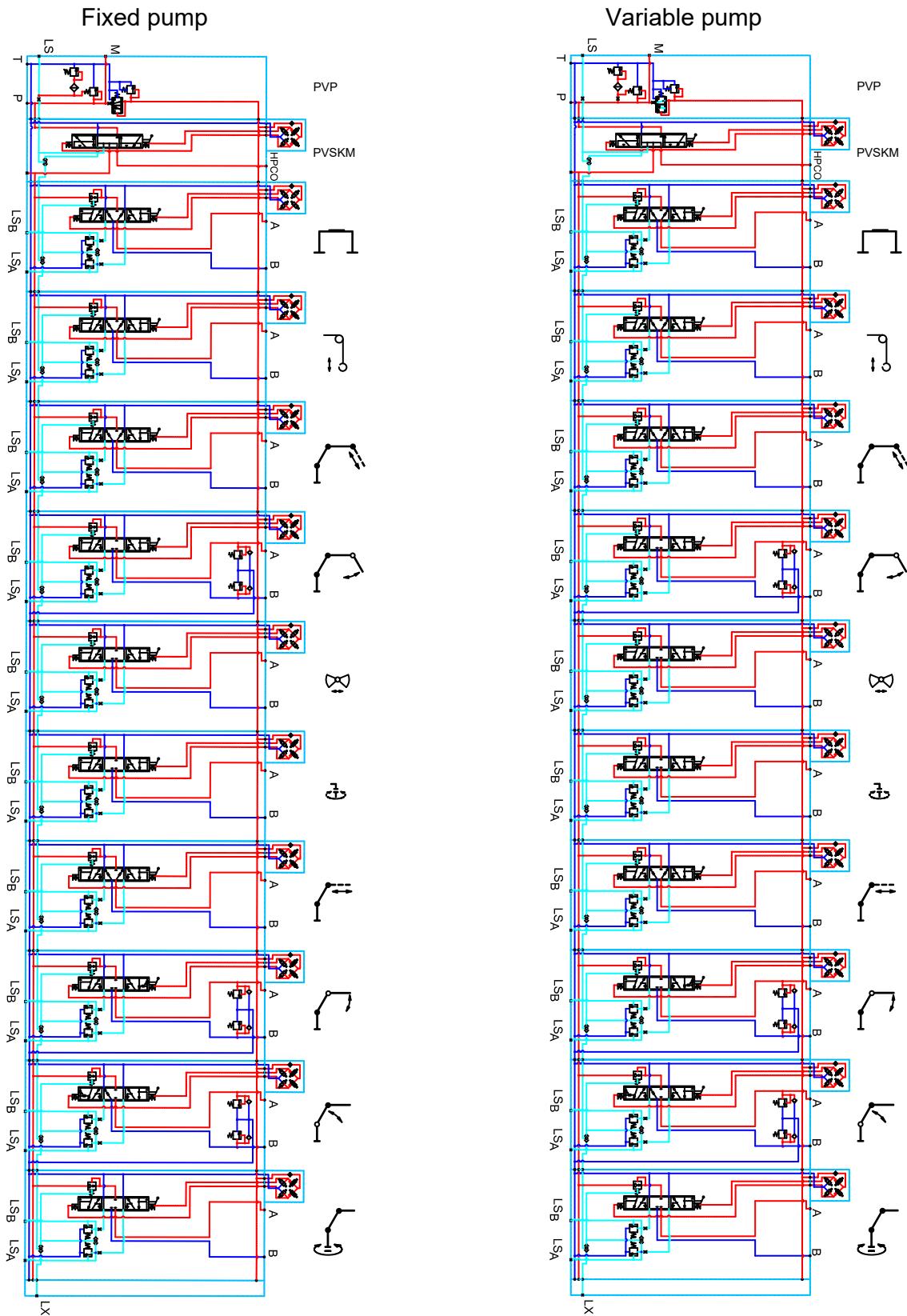
Max. pump performance		
Choice of pump		1 x Variable
Pump performance	120 L/min	31.7 gpm

IMT reserves the right to introduce improvements and modifications

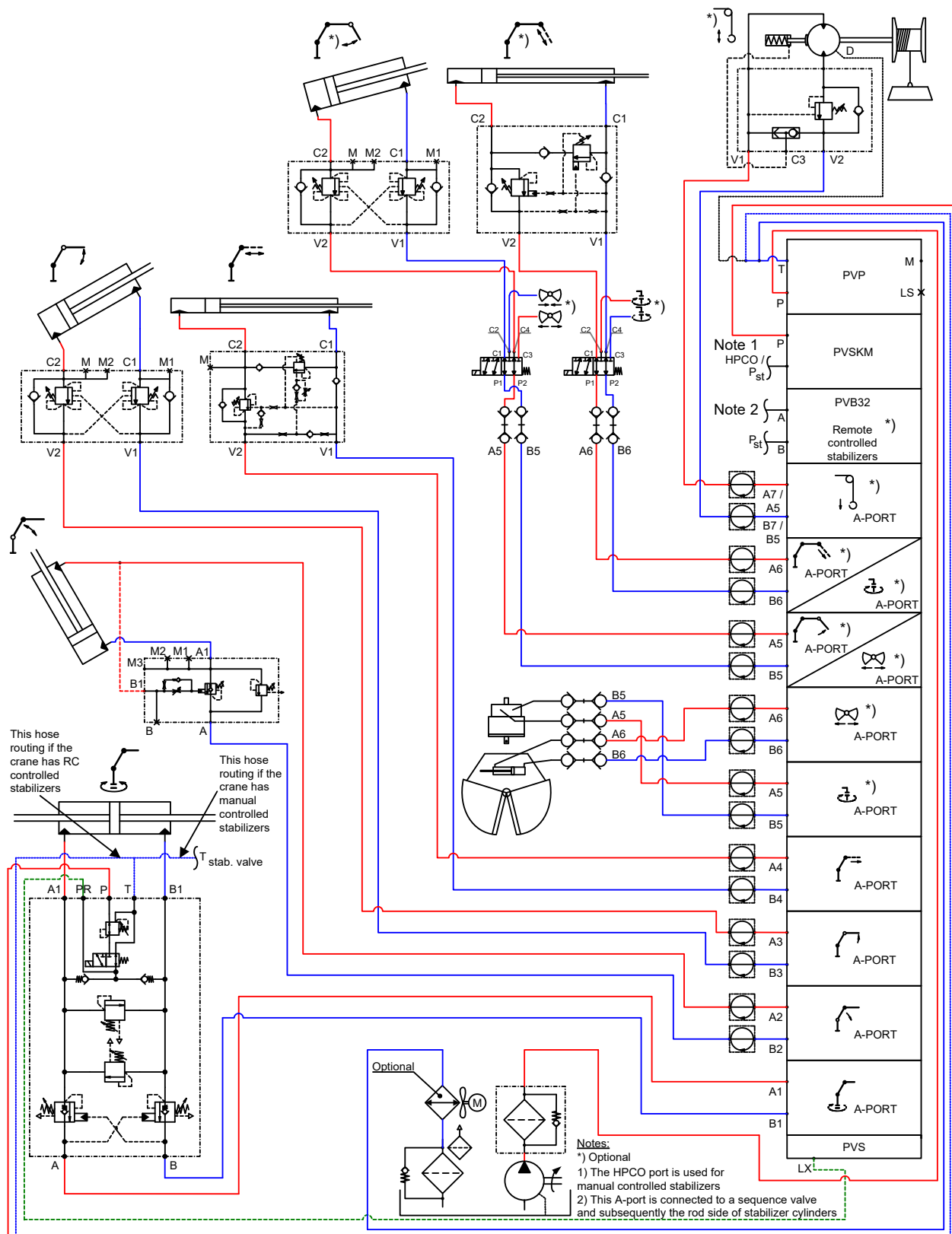
Pressure setting diagram, Fly-Jib 700

Function		Direction	Port	2820 K4F J700 (Bar)	2820 K4 FJF700 (psi)	2820 K5 FJ700 (Bar)	2820 K5 FJF700 (psi)
Jib Cylinder	LS-pressure adjustment	Up	A	320	4641	270	3916
		Down	B	250	3626	250	3626
	Port-relief valves	Up	A	350	5076	350	5076
		Down	B	300	4351	300	4351
	Working Pressure on Load- holding Valves	Up		365	5294	310	4496
		Down		250	3626	250	3626
Extension Cylinder	LS-pressure adjustment	Extend	A	275	3989	275	3989
		Retract	B	275	3989	275	3989
	Working Pressure on Load- holding Valves	Extend		210	3046	210	3046
		Retract		430	6237	430	6237
Load Moment Limitation (LMB)				300	4351	260	3771

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

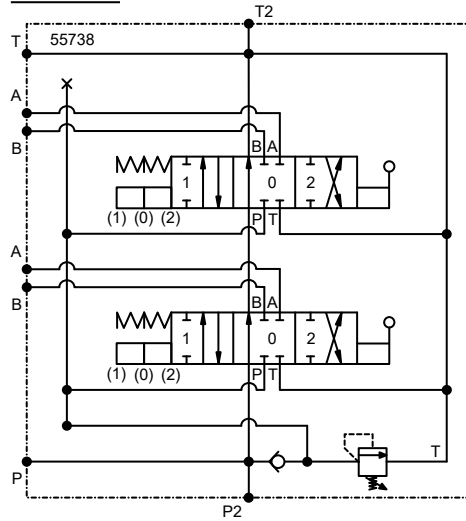


Hydraulic Diagram – Danfoss PVG32, single-circuit fixed 7 fcts. RC (3 EXV: FJ + 2 EXV, winch)

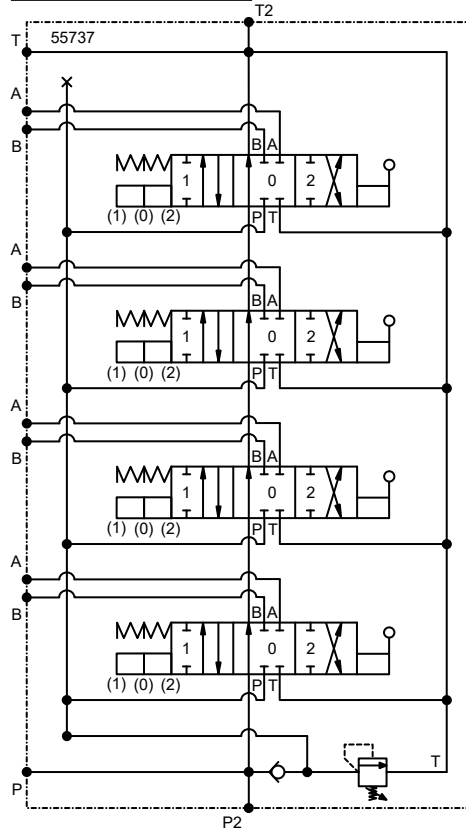


Hydraulic Diagram - Stabilizer circuit – Overview

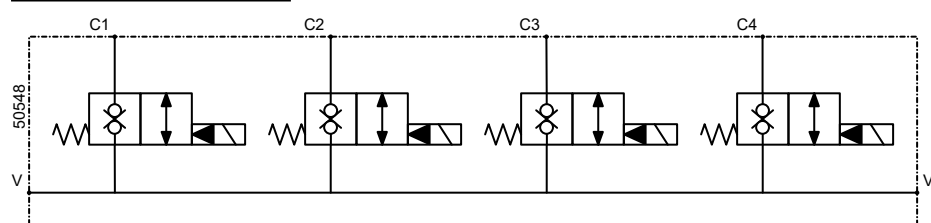
2 functions:



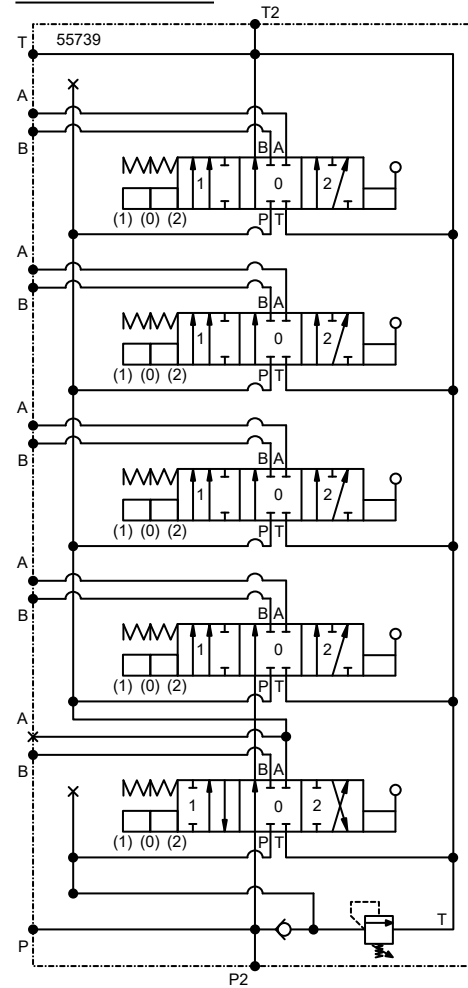
4 or 2 + 2 extra functions:



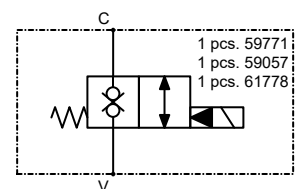
4 remote controlled functions:



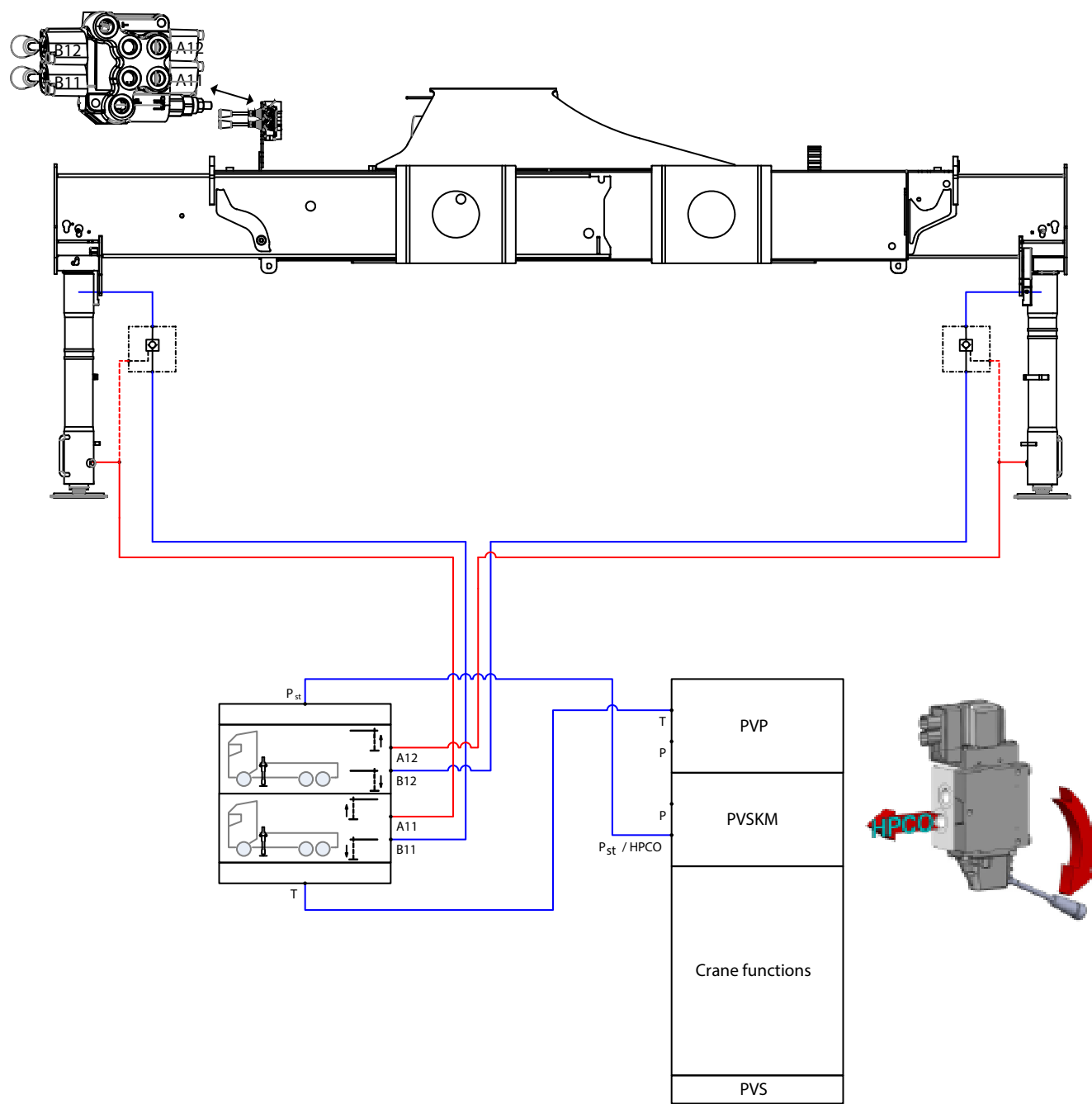
4 + 4 extra functions:



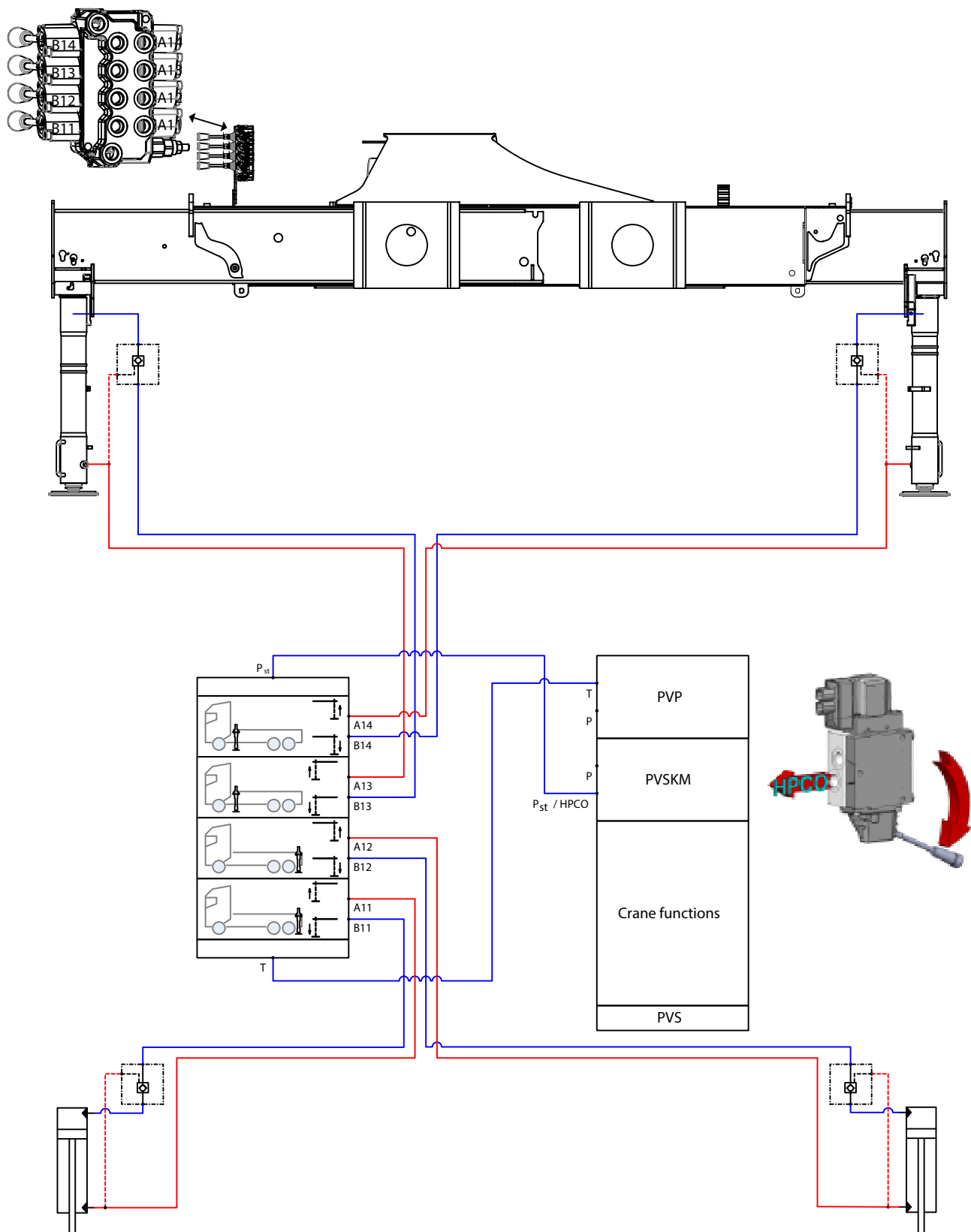
Extra remote controlled functions:



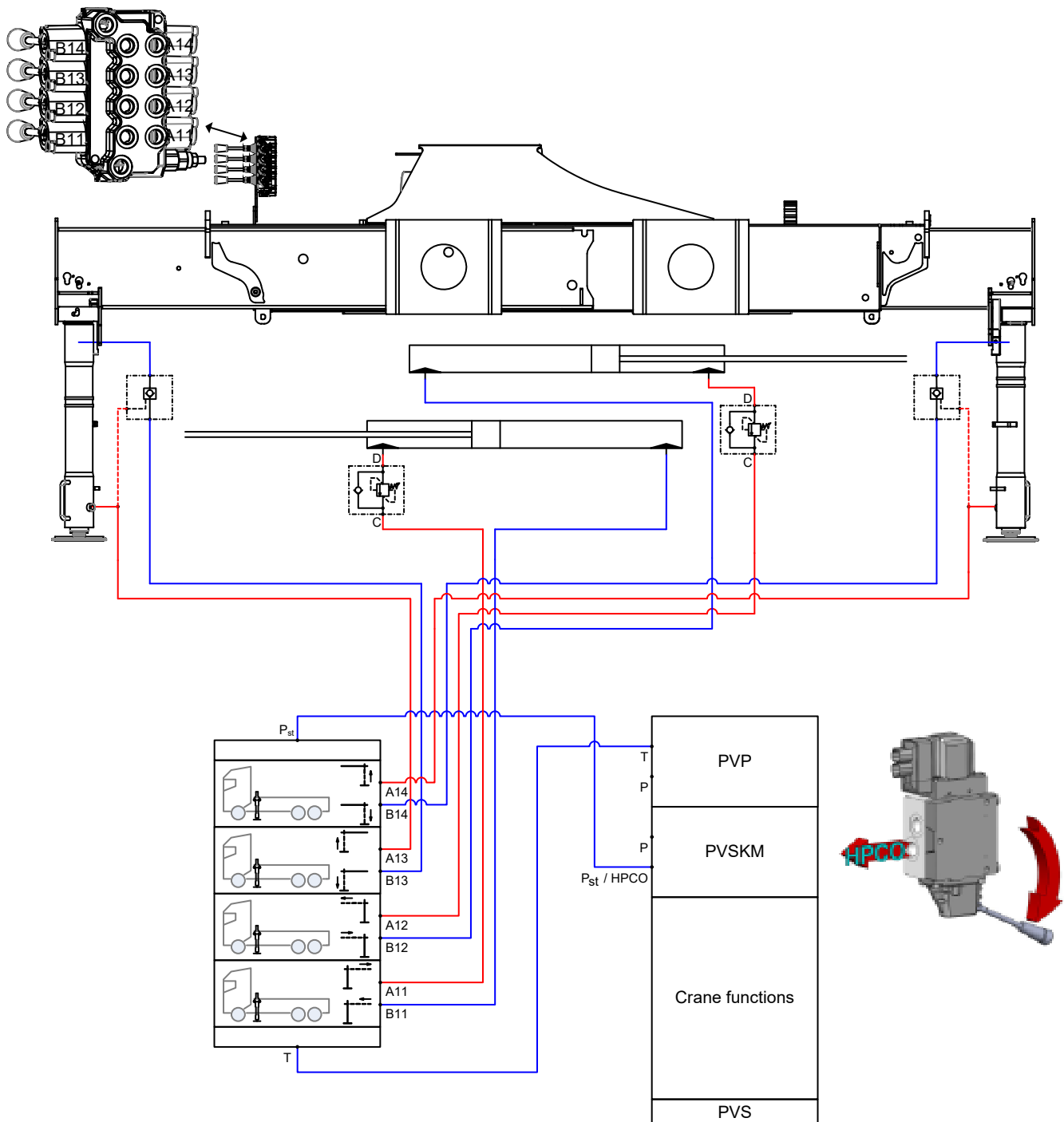
Hydraulic Diagram - Stabilizer circuit – 2 fcts.



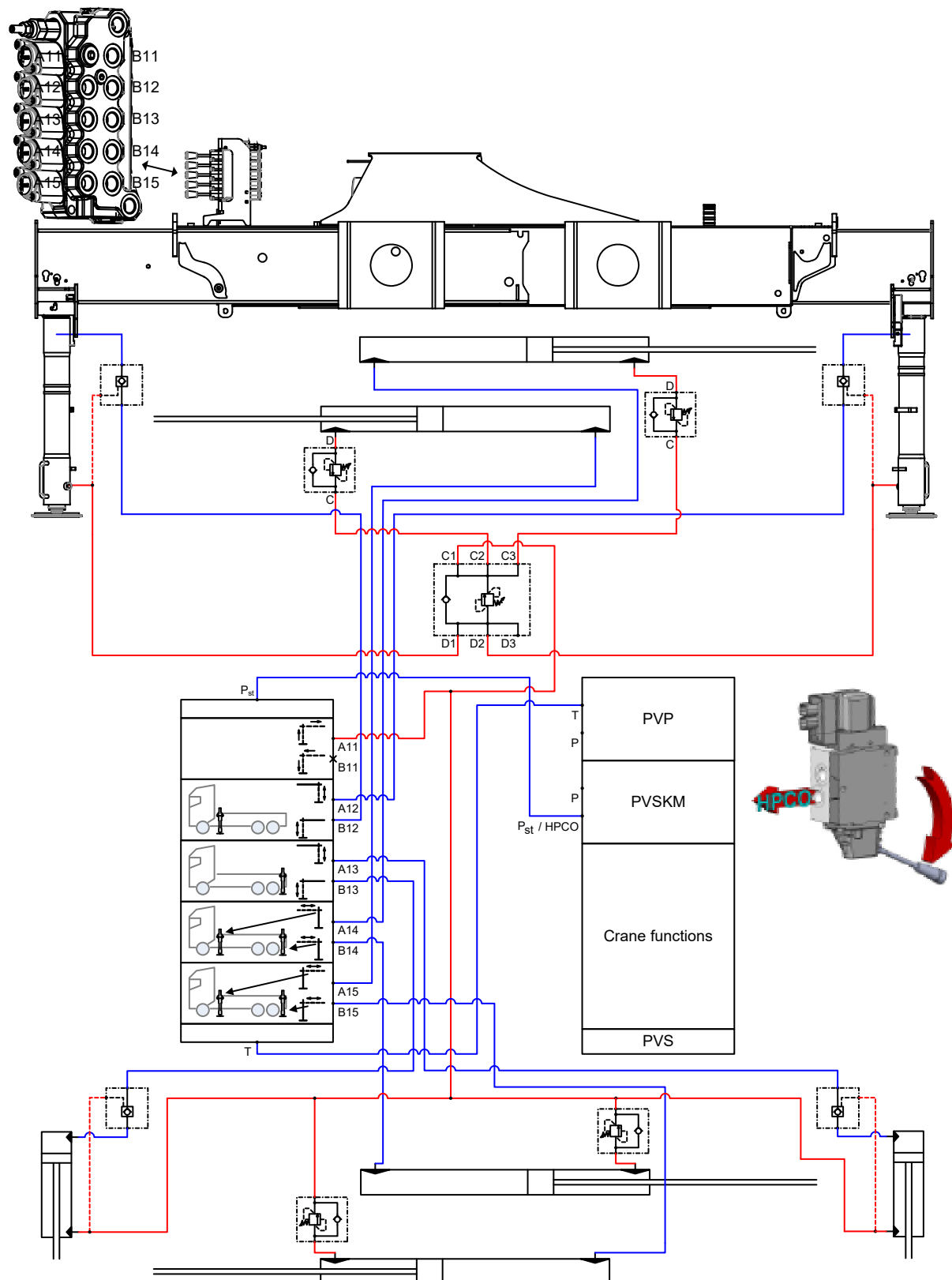
Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



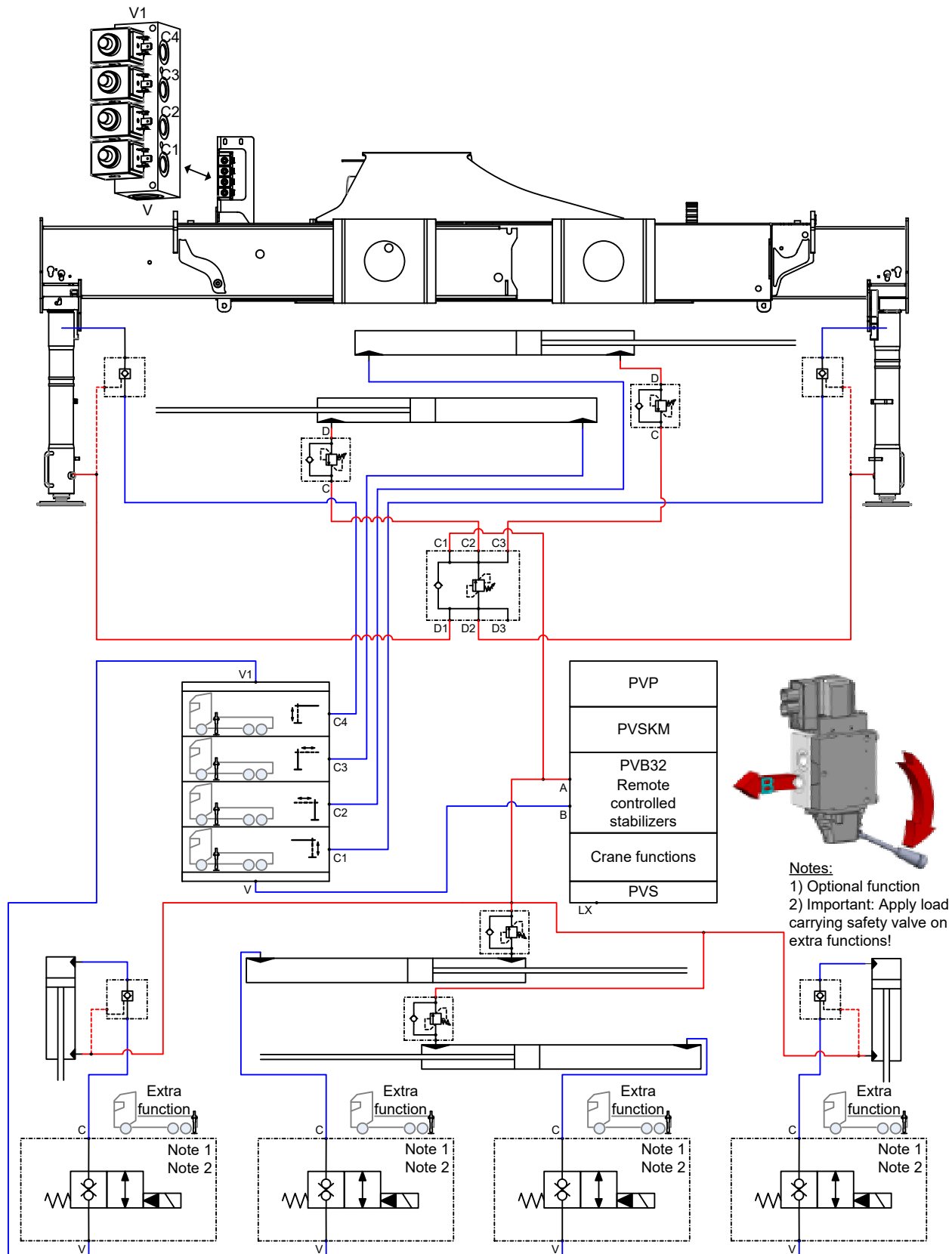
Hydraulic Diagram - Stabilizer circuit – 4 fcts.



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



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



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