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**Manual # 99906472**

# **2310 / 2320 RCS Technical Specifications**

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**2310 RCS Technical Specifications** **Section - 1**

## 2310 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	149000	146107	142490	138874	135980	133087	130917
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' 0"	33' 2"	40' 7"	47' 7"	54' 10"
Lifting capacity, hydraulic	lb-ft	10494 - 14'1"	10097 - 14' 5"	9678 - 14' 8"	9305 - 15'1"	8951 - 15'1"	8598 - 15'5"	8356 - 15'9"
		7275 - 20' 9"	6923 - 20' 7"	6570 - 21' 0"	6239 - 21'0"	5952 - 21' 4"	5644 - 21'7"	5445 - 22'0"
		5534 - 26' 10"	5203 - 26' 10"	4850 - 27' 3"	4564 - 27' 6"	4277 - 27' 10"	3990 - 27'10"	3814 - 28' 3"
			4145 - 33' 5"	3836 - 33' 9"	3528 - 34' 1"	3263 - 34'4"	2998 - 34'5"	2822 - 34'9"
				3153 - 40' 8"	2867 - 41'0"	2601 - 41'3"	2315 - 41'4"	2161 - 41'8"
					2403 - 48' 2"	2138 - 48'6"	1874 - 48'6"	1720 - 48'11"
						1830 - 55'9"	1565 - 55'9"	1411 - 56'5"
							1367 - 63'0"	1213 - 63'4"
								1080 - 70'6"
Lifting capacity, manual extensions	lb-ft			2535 - 48' 2"	1962 - 56'1"	1521 - 63' 6"	1169 - 70' 9"	706 - 78' 4"
Slewing torque, gross	lb-ft	20000	20000	20000	20000	20000	20000	20000
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 lb
Rear Axle Rating (GAWR)	40,000 lb
Resistance to Bending Moment	2,235,000 ft-lb

## 2310 RCS- Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	ft-in	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 6"	7' 7"
Width	ft-in	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"
Width with extra valves (int. hose routing)	ft-in	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"		
Length, no extra valves	ft-in	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"
Length, with extra valves (hose guides)	ft-in	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"		
Length, with 1 extra valve (hose reels)	ft-in						3' 3"	3' 3"
Length, with 2 extra valves (hose reels)	ft-in						3' 4"	3' 4"
Length, with extra valves (int. hose routing)	ft-in	2' 10"	2' 10"	2' 10"	2' 10"	2' 10"		
Stabilizer spread, S1 (standard)	ft-in	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"
Stabilizer spread, D1	ft-in	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"
Stabilizer spread, D2	ft-in	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	3869	4311	4653	4961	5237	5468	5656
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
Stabilizer, D2 swing-up	lb	1058	1058	1058	1058	1058	1058	1058
Stabilizer, D2 Hyd. swing-up	lb	1080	1080	1080	1080	1080	1080	1080
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	77	88	99	110	121	132	143

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

## 2310 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	231	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	24	24	24	24	24	24	24
S1, swing-up	lbf	24	24	24	24	24	24	24
S1, hydr. swing-up	lbf	24	24	24	24	24	24	24
D, fixed	lbf	19	19	19	19	19	19	19
D, swing-up	lbf	19	19	19	19	19	19	19
D, hydr. swing-up	lbf	19	19	19	19	19	19	19

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						
Max. pump performance, Danfoss fixed flow	gpm	18	18	18	18	18	18	18
Max. pump performance, Danfoss variab	gpm	26	26	26	26	26	26	26

## 2310 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	20.6	20.2	19.7	19.2	18.8	18.4	18.1
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	4760 - 4.3	4580 - 4.4	4390 - 4.5	4220 - 4.6	4060 - 4.6	3900 - 4.7	3790 - 4.8
		3300 - 6.2	3140 - 6.3	2980 - 6.4	2830 - 6.4	2700 - 6.5	2560 - 6.6	2470 - 6.7
		2510 - 8.2	2360 - 8.2	2200 - 8.3	2070 - 8.4	1940 - 8.5	1810 - 8.5	1730 - 8.6
			1880 - 10.2	1740 - 10.3	1600 - 10.4	1480 - 10.5	1360 - 10.5	1280 - 10.6
				1430 - 12.4	1300 - 12.5	1180 - 12.6	1050 - 12.6	980 - 12.7
					1090 - 14.7	970 - 14.8	850 - 14.8	780 - 14.9
						830 - 17.0	710 - 17.1	640 - 17.2
							620 - 19.2	550 - 19.3
								490 - 21.5
Lifting capacity, manual extensions	kg-m			1150 - 14.7	890 - 17.1	690 - 19.4	530 - 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

## 2310 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	1800	1955	2110	2250	2375	2480	2565
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	35	40	45	50	55	60	65

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

## 2310 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	110	110	110	110	110	110	110
S1, swing-up	kN	110	110	110	110	110	110	110
S1, hydr. swing-up	kN	110	110	110	110	110	110	110
D, fixed	kN	85	85	85	85	85	85	85
D, swing-up	kN	85	85	85	85	85	85	85
D, hydr. swing-up	kN	85	85	85	85	85	85	85

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						
Max. pump performance, Danfoss variable	L/min	70	70	70	70	70	70	70
Max. pump performance, Danfoss variab	L/min	100	100	100	100	100	100	100

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**2310 RCS Load Capacity Charts** **Section - 2**

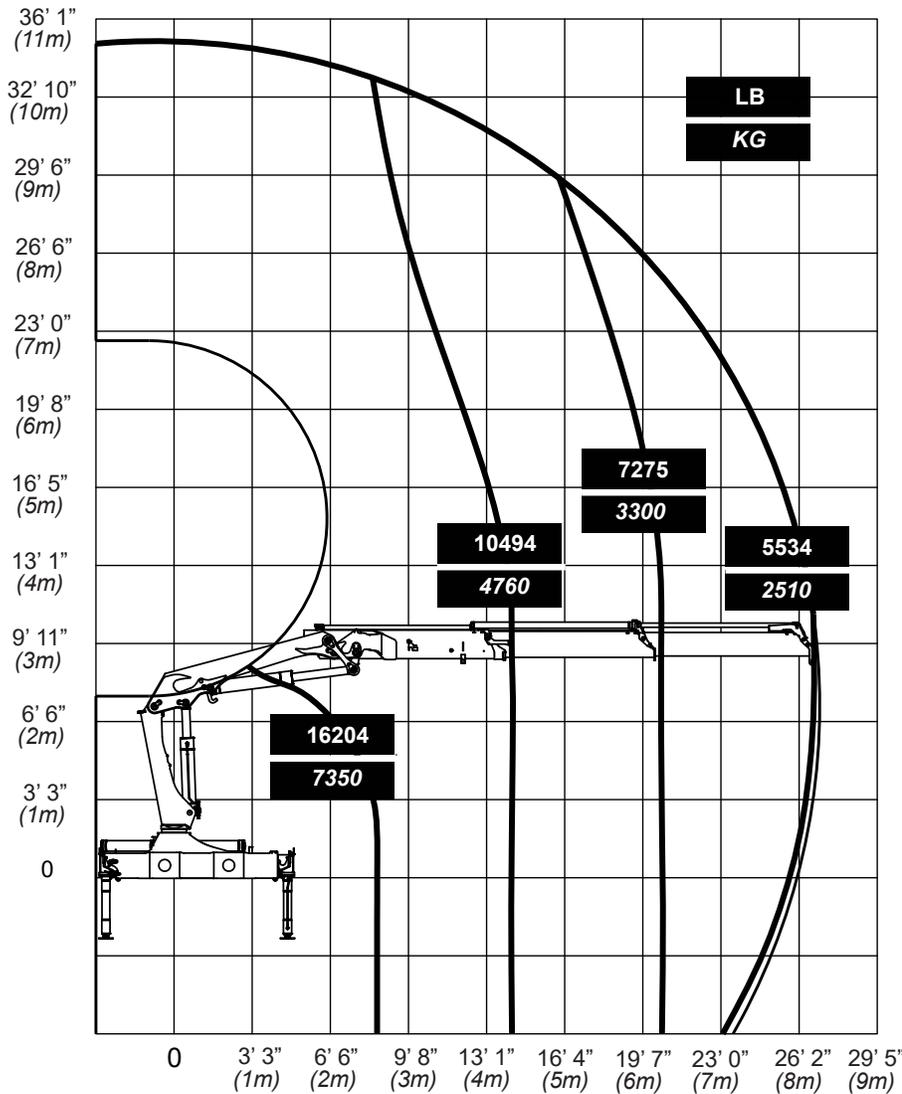
# 2310 RCS - Lifting Capacity Chart, K2

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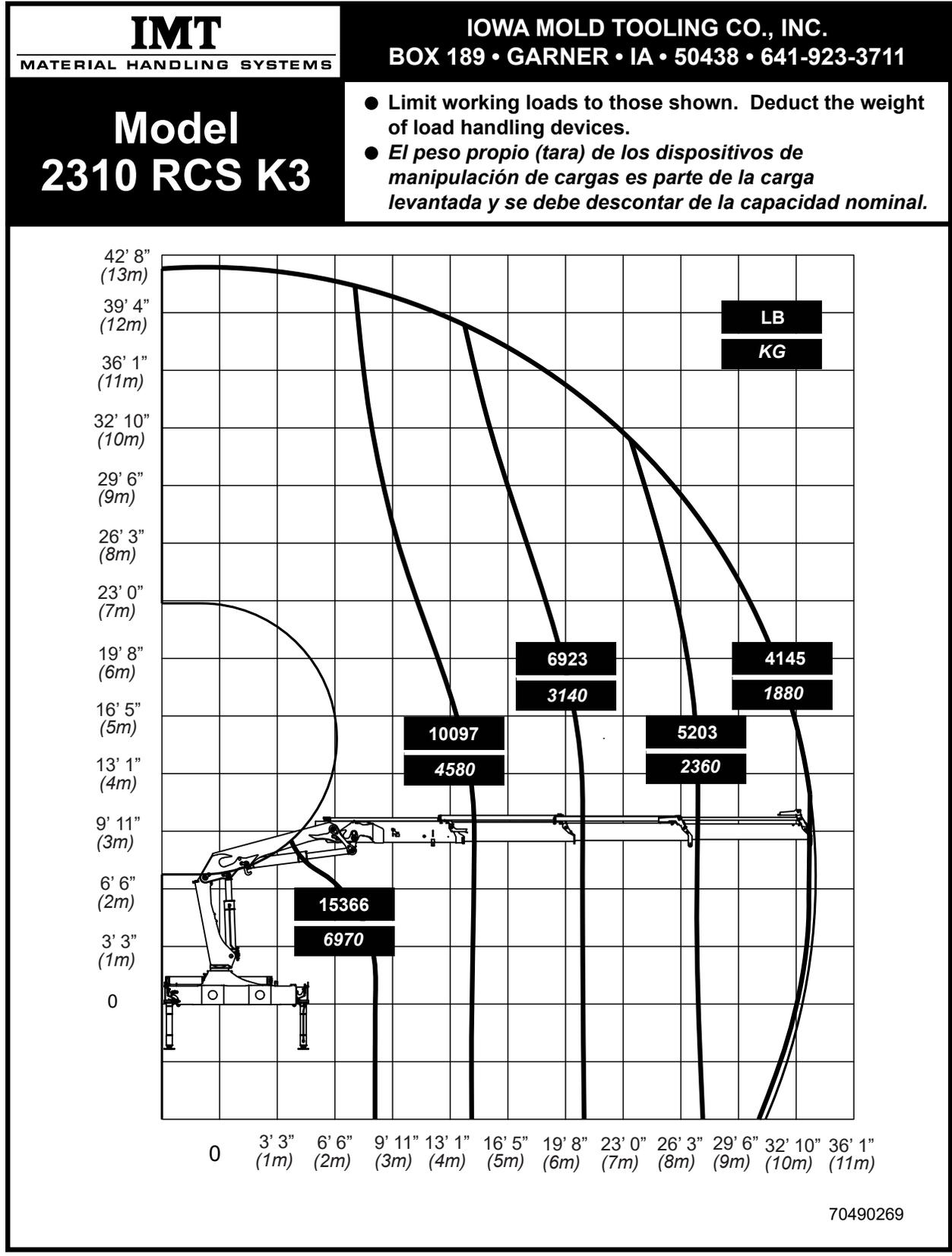
## Model 2310 RCS K2

- 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.*



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## 2310 RCS - Lifting Capacity Chart, K3



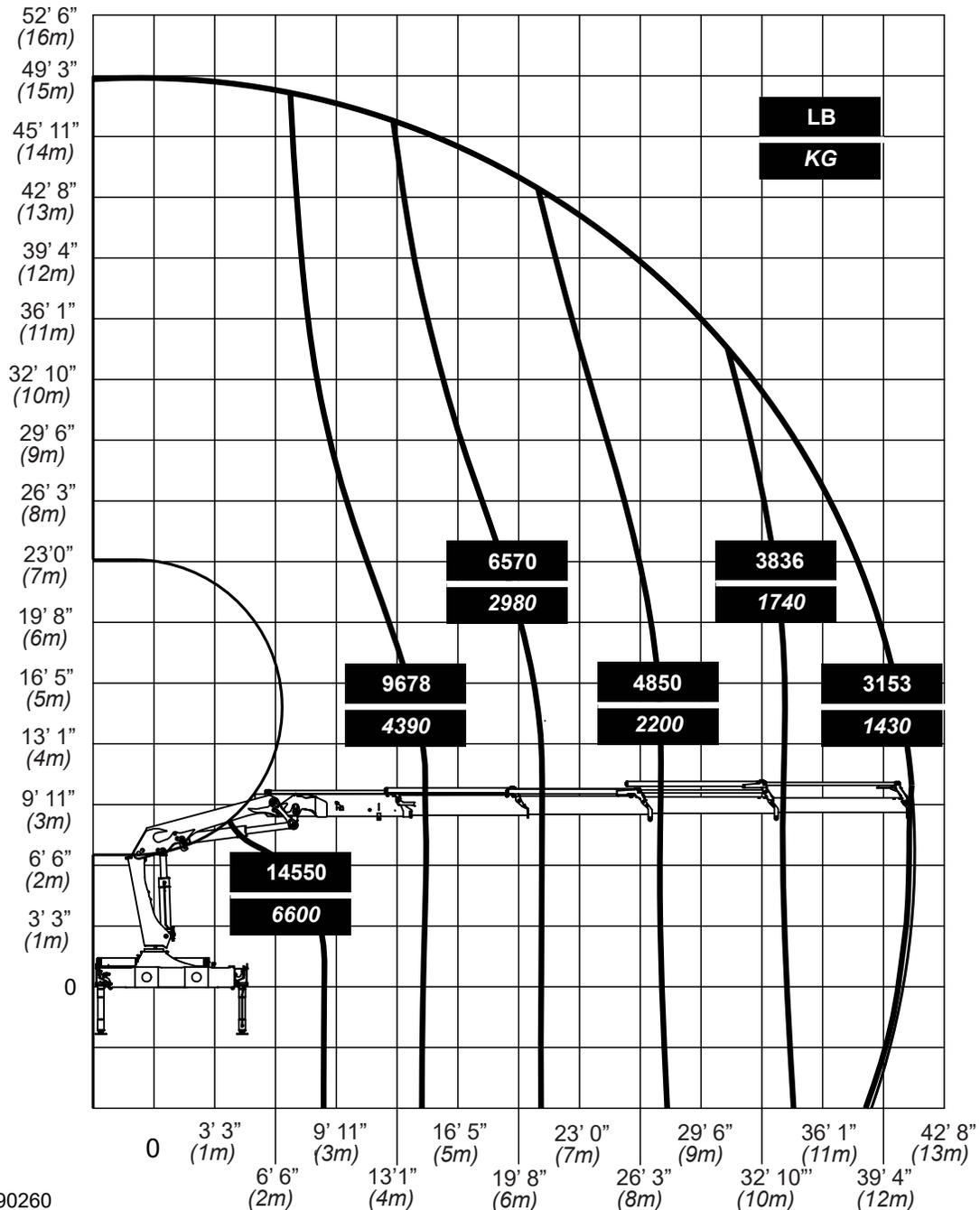
# 2310 RCS - Lifting Capacity Chart, K4

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## Model 2310 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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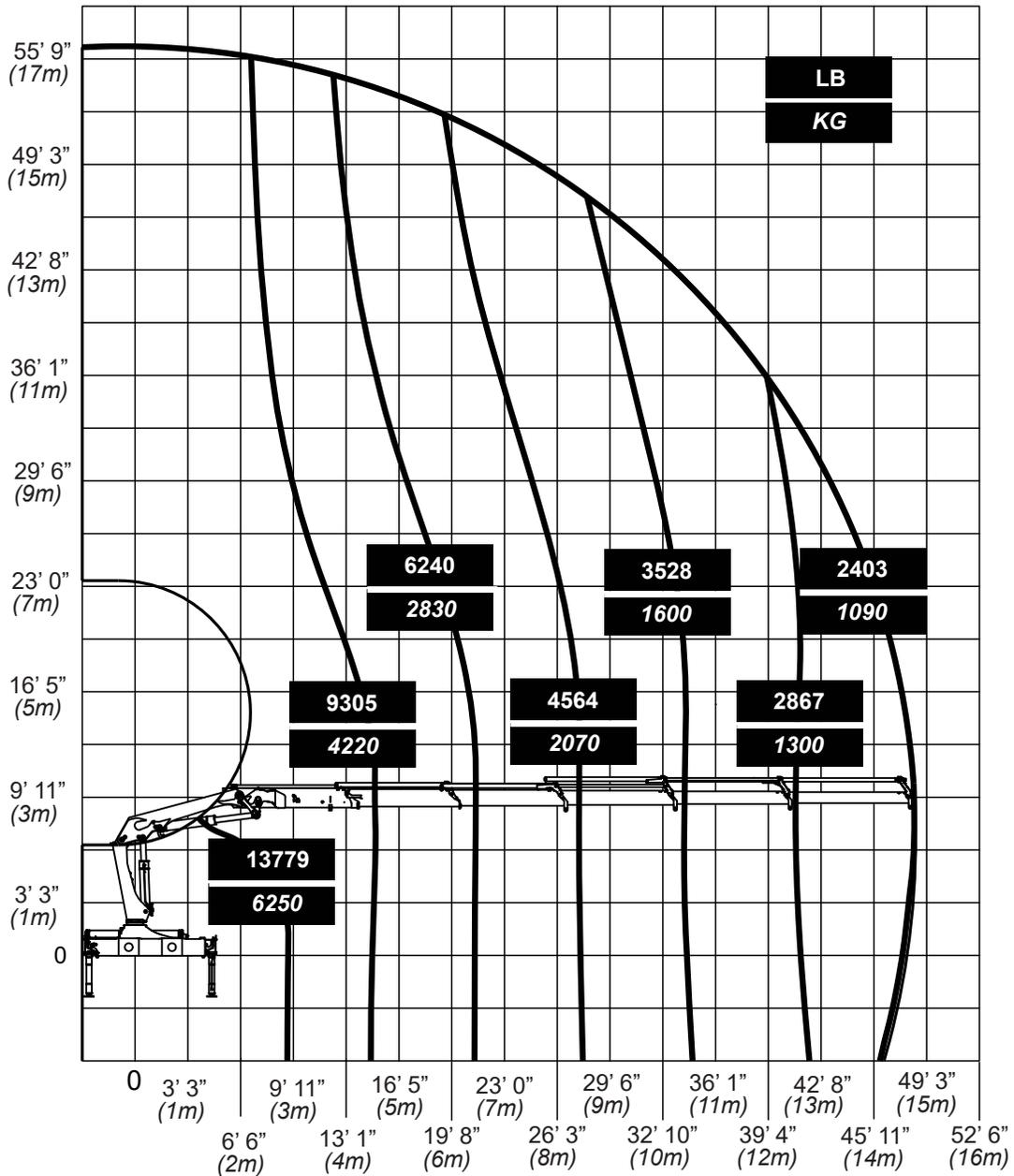
# 2310 RCS - Lifting Capacity Chart, K5

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## Model 2310 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.*



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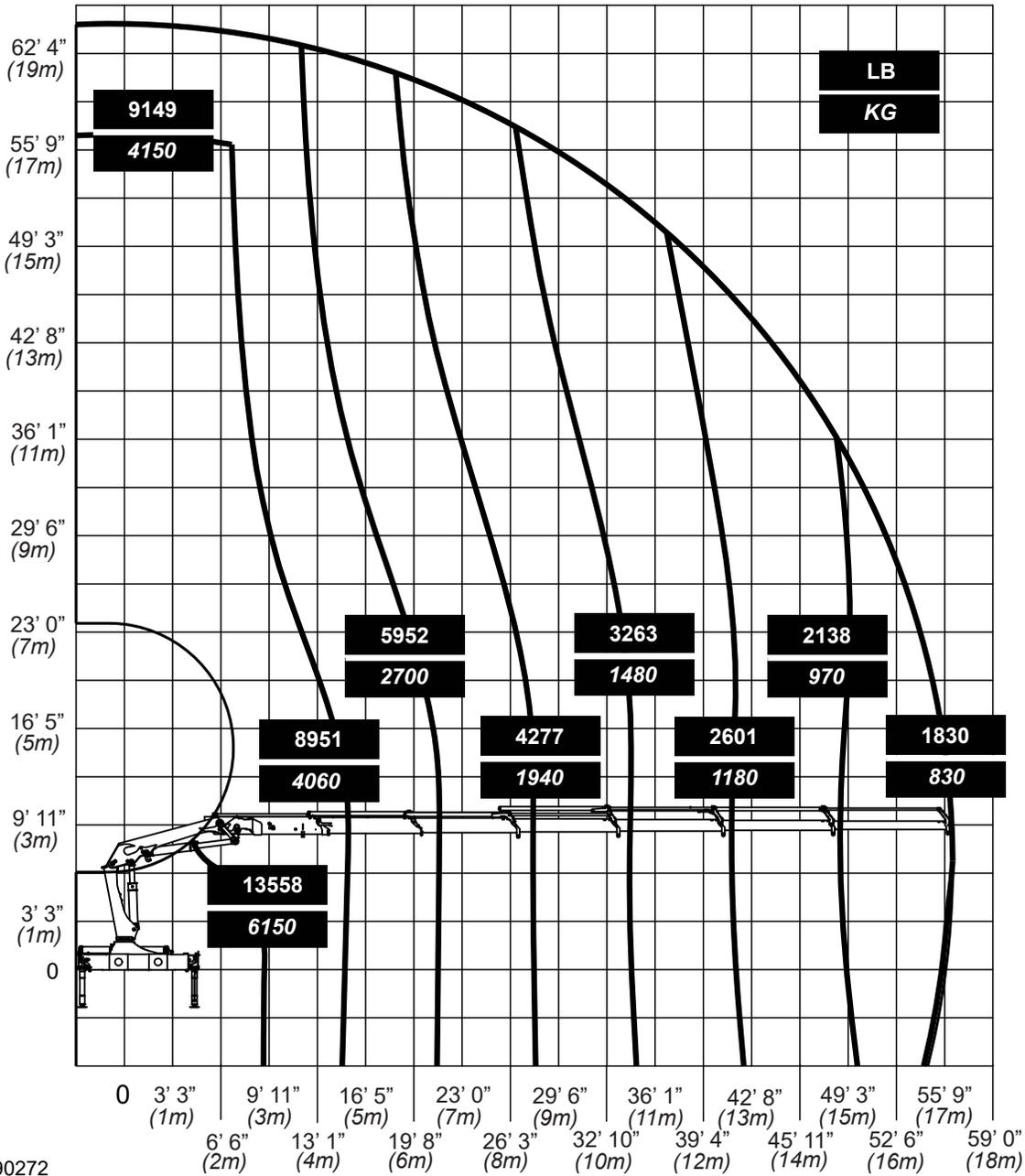
# 2310 RCS - Lifting Capacity Chart, K6

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## Model 2310 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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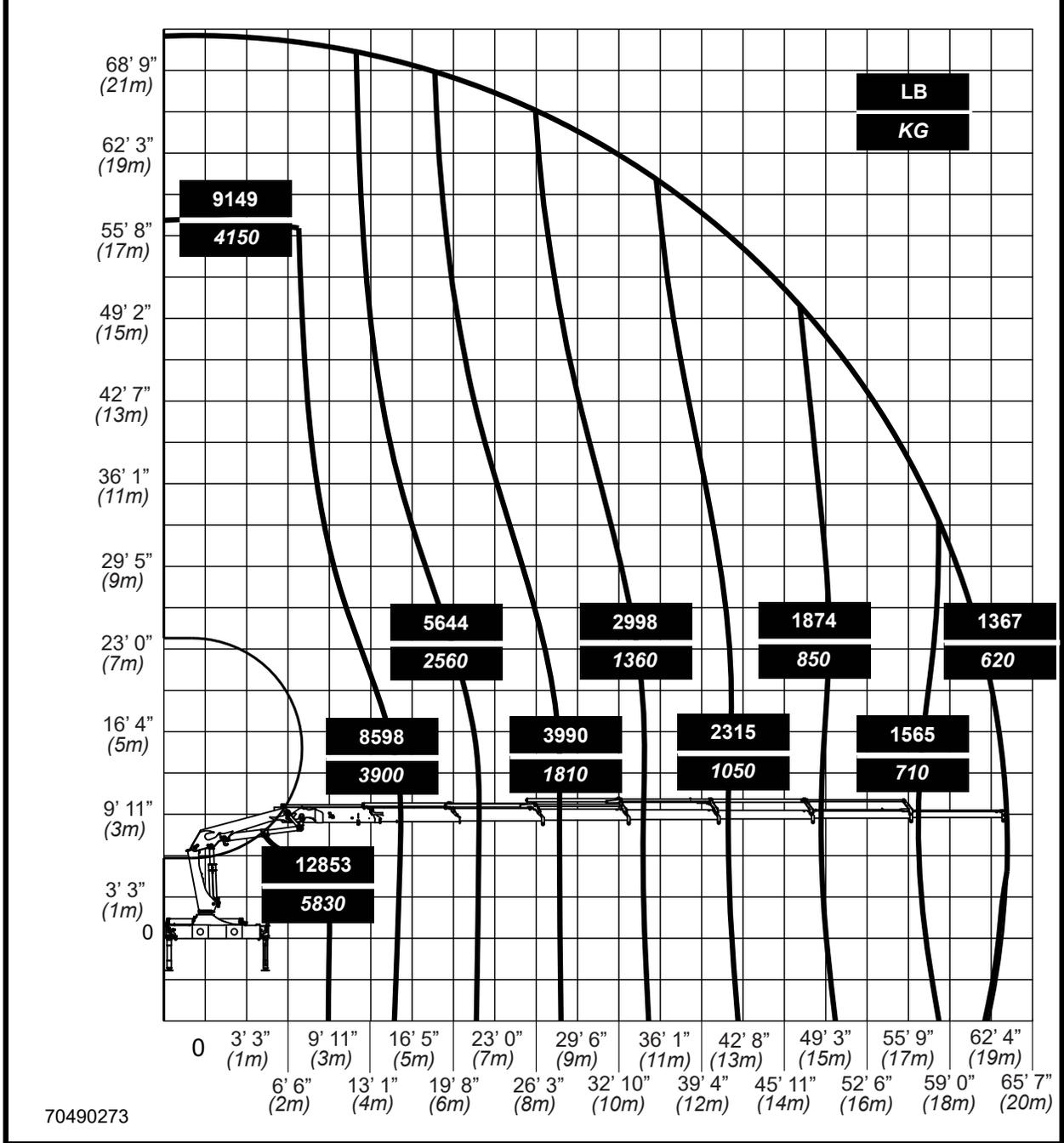
# 2310 RCS - Lifting Capacity Chart, K7

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**Model  
2310 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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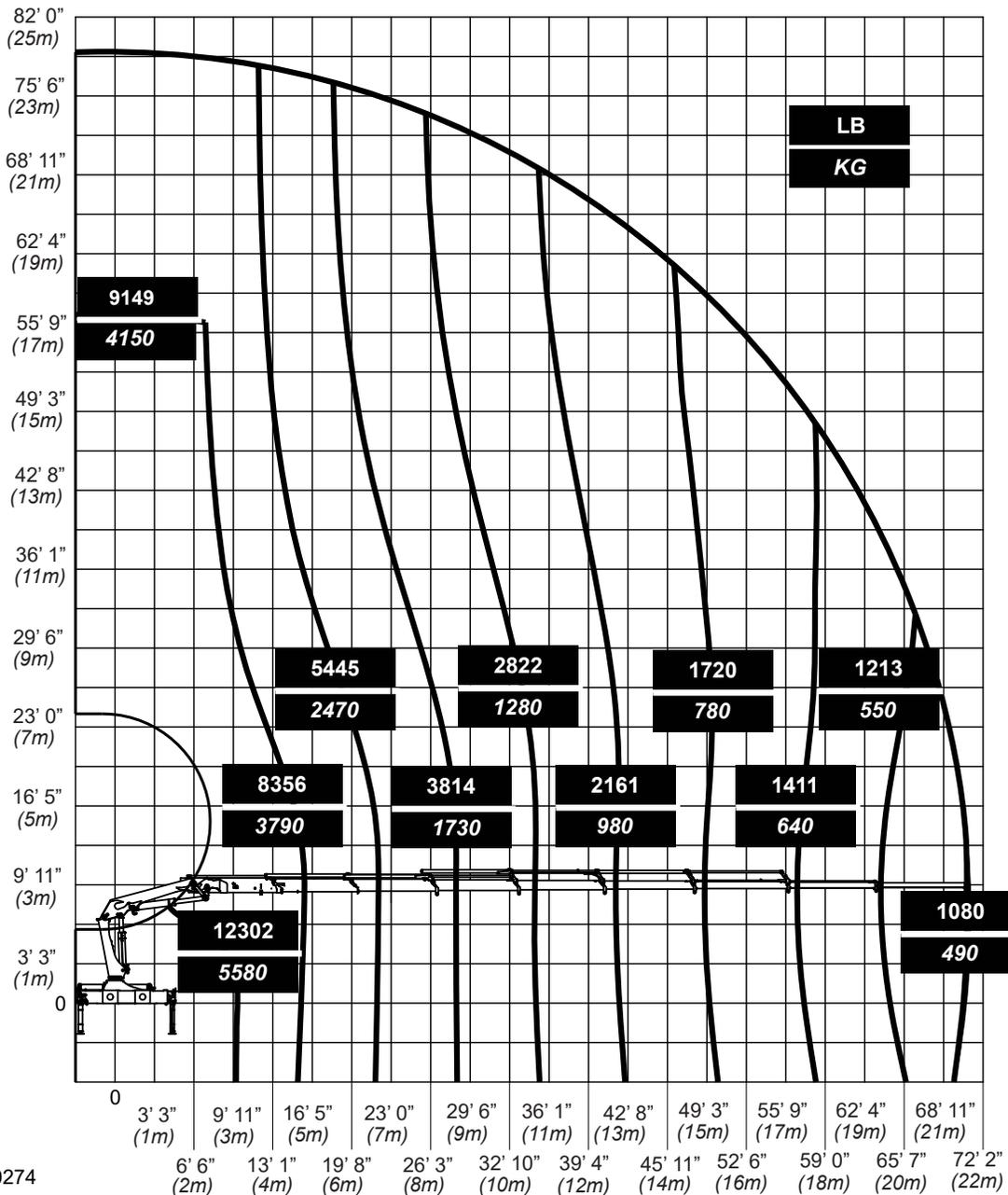
# 2310 RCS - Lifting Capacity Chart, K8

**IMT**  
MATERIAL HANDLING SYSTEMS

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

## Model 2310 RCS K8

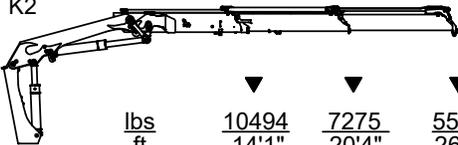
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



70490274

## 2310 RCS - Lifting Capacity K2 - K8

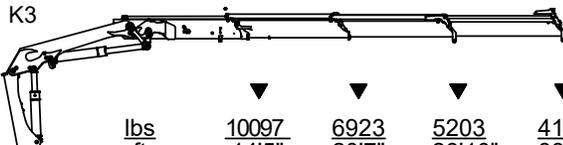
K2



	▼	▼	▼
lbs	10494	7275	5534
ft	14'1"	20'4"	26'10"
kg	4760	3300	2510
m	4.3	6.2	8.2

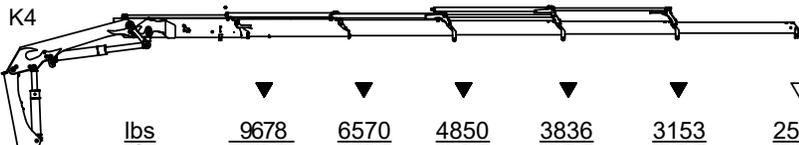
▽ Lifting capacity with manual extensions  
 ▼ Lifting capacity without manual extensions

K3



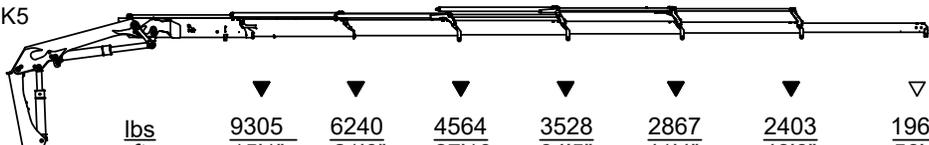
	▼	▼	▼	▼
lbs	10097	6923	5203	4145
ft	14'5"	20'7"	26'10"	33'5"
kg	4580	3140	2360	1880
m	4.4	6.3	8.2	10.2

K4



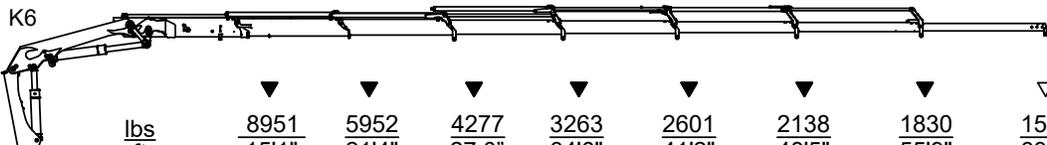
	▼	▼	▼	▼	▼	▽
lbs	9678	6570	4850	3836	3153	2536
ft	14'8"	21'0"	27'3"	33'9"	40'8"	48'2"
kg	4390	2980	2200	1740	1430	1150
m	4.5	6.4	8.3	10.3	12.4	14.7

K5



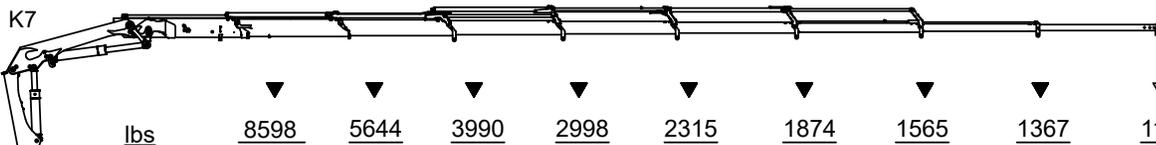
	▼	▼	▼	▼	▼	▼	▽
lbs	9305	6240	4564	3528	2867	2403	1962
ft	15'1"	21'0"	27'10"	34'5"	41'4"	48'6"	56'1"
kg	4220	2830	2070	1600	1300	1090	890
m	4.6	6.4	8.4	10.4	12.5	14.7	17.1

K6



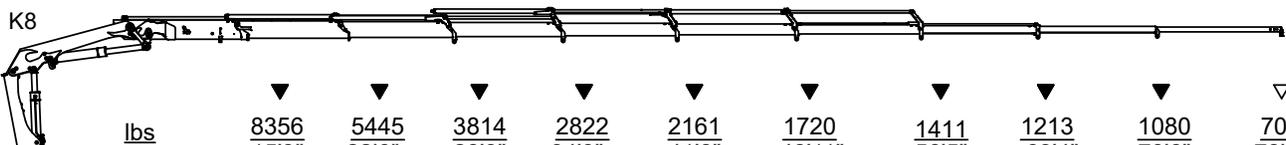
	▼	▼	▼	▼	▼	▼	▼	▽
lbs	8951	5952	4277	3263	2601	2138	1830	1521
ft	15'1"	21'4"	27'0"	34'6"	41'2"	48'5"	55'9"	63'7"
kg	4060	2700	1940	1480	1180	970	830	690
m	4.6	6.5	8.5	10.5	12.6	14.8	17.0	19.4

K7



	▼	▼	▼	▼	▼	▼	▼	▼	▽
lbs	8598	5644	3990	2998	2315	1874	1565	1367	1169
ft	15'5"	21'7"	27'10"	34'5"	41'4"	48'6"	55'9"	63'0"	70'10"
kg	3900	2560	1810	1360	1050	850	710	620	530
m	4.7	6.6	8.5	10.5	12.6	14.8	17.0	19.2	21.6

K8

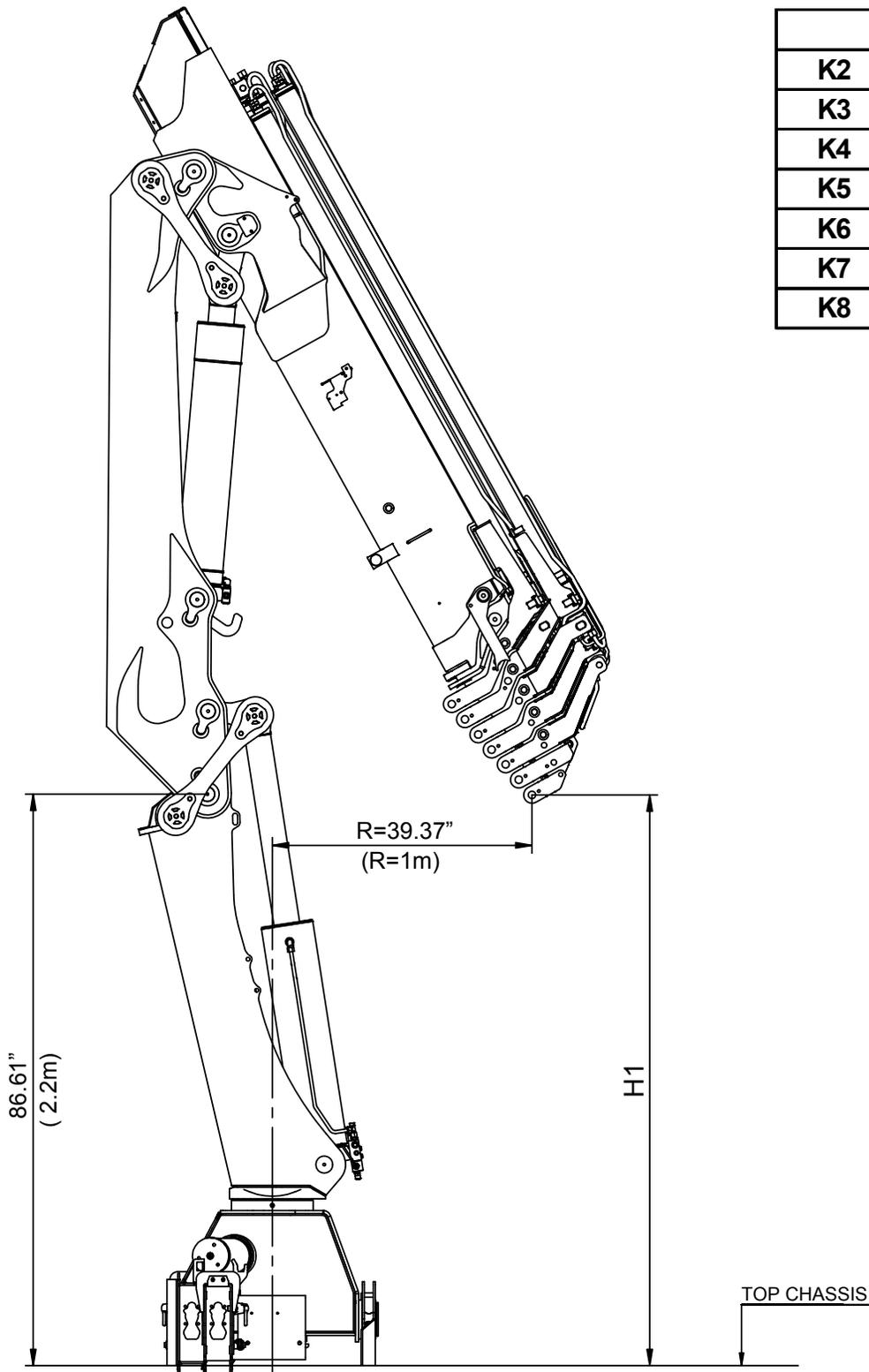


	▼	▼	▼	▼	▼	▼	▼	▼	▼	▽
lbs	8356	5445	3814	2822	2161	1720	1411	1213	1080	706
ft	15'9"	22'0"	28'3"	34'9"	41'8"	48'11"	56'5"	63'4"	70'6"	78'4"
kg	3790	2470	1730	1280	980	780	640	550	490	320
m	4.8	6.7	8.6	10.6	12.7	14.9	17.2	19.3	21.5	23.9

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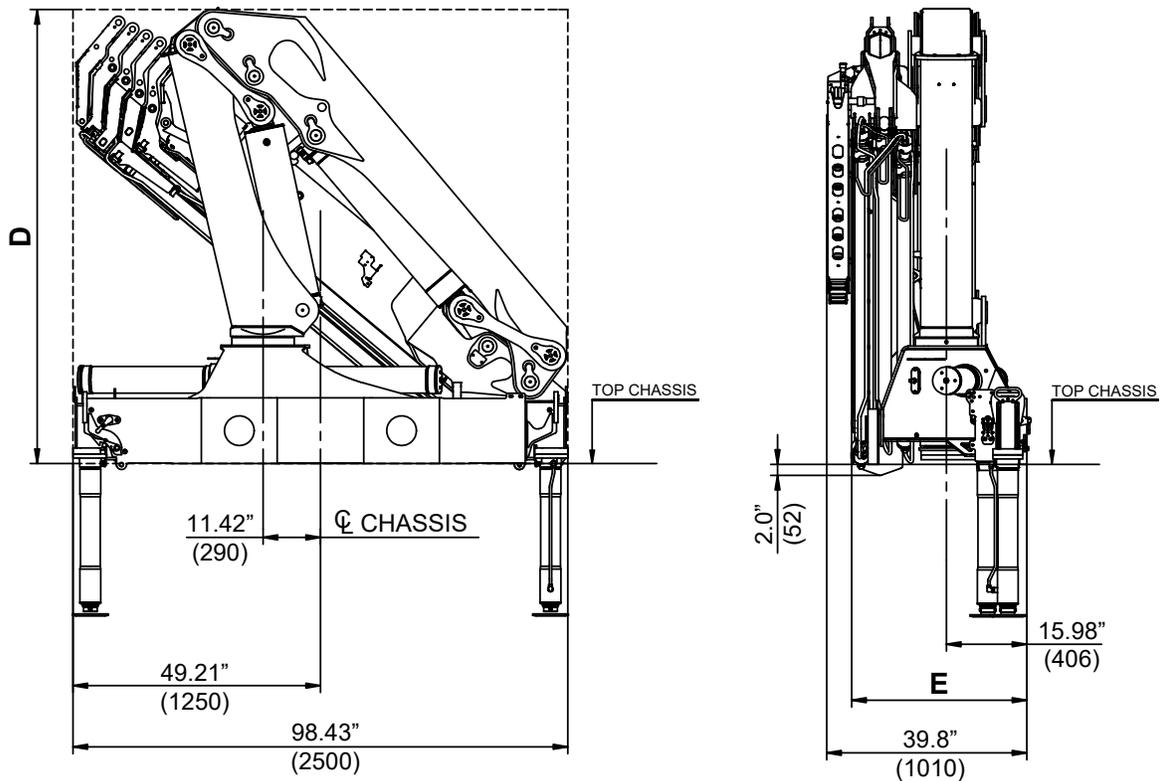
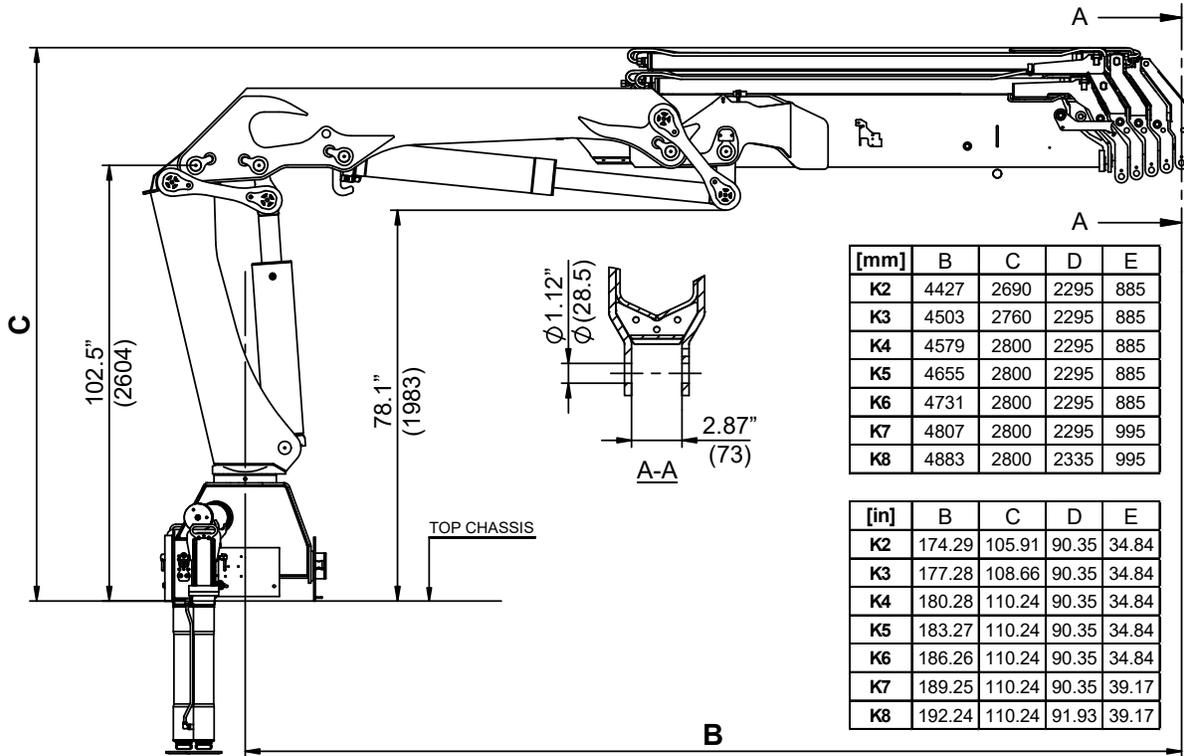
**2310 RCS Dimensional Drawings** **Section - 3**

# RCS - Lifting Height at Column

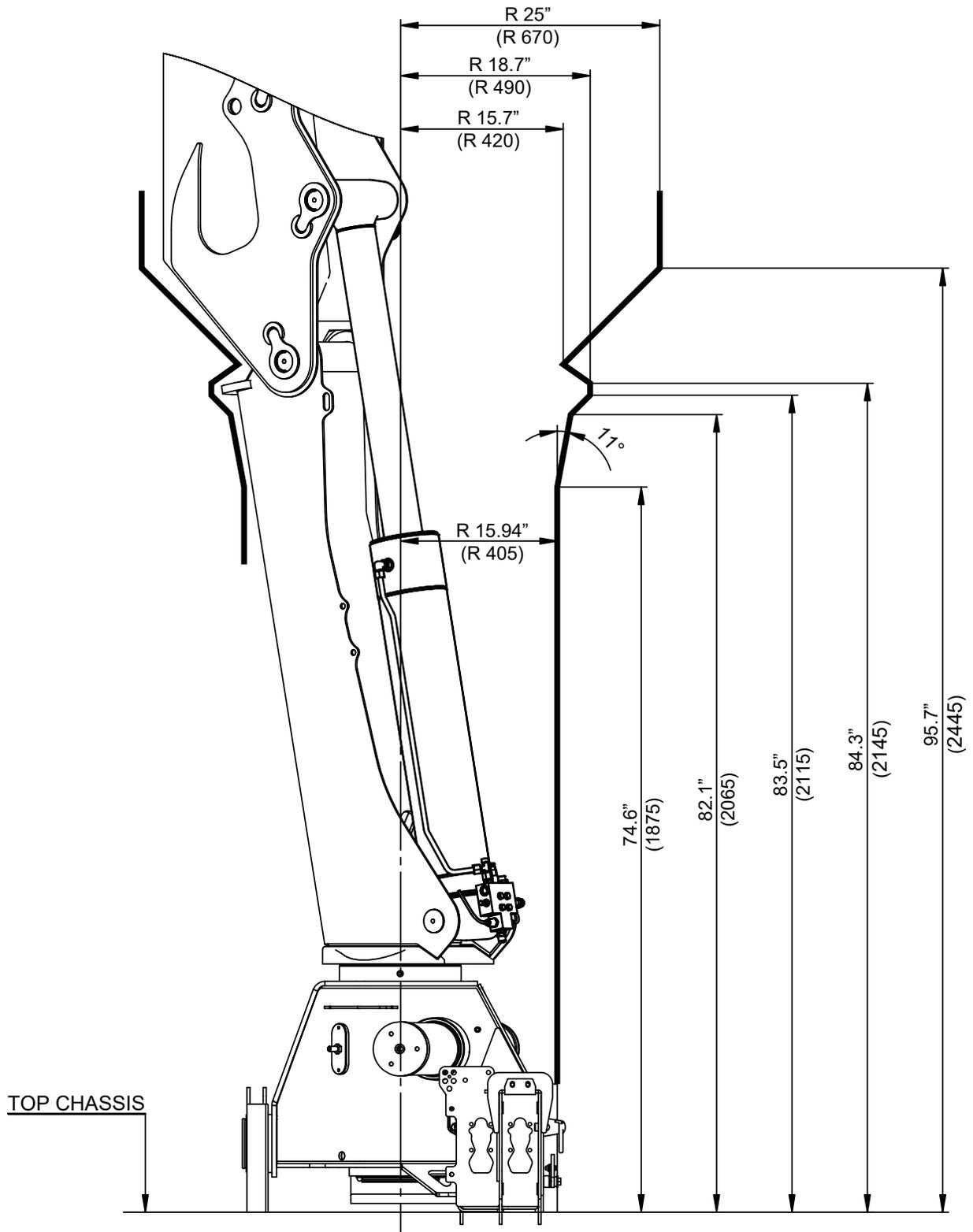


	H1	H1
<b>K2</b>	2.74 m	107.87"
<b>K3</b>	2.65 m	104.33"
<b>K4</b>	2.56 m	100.79"
<b>K5</b>	2.47 m	97.24"
<b>K6</b>	2.38 m	93.70"
<b>K7</b>	2.29 m	90.16"
<b>K8</b>	2.21 m	87.01"

# RCS - Dimension Sketch

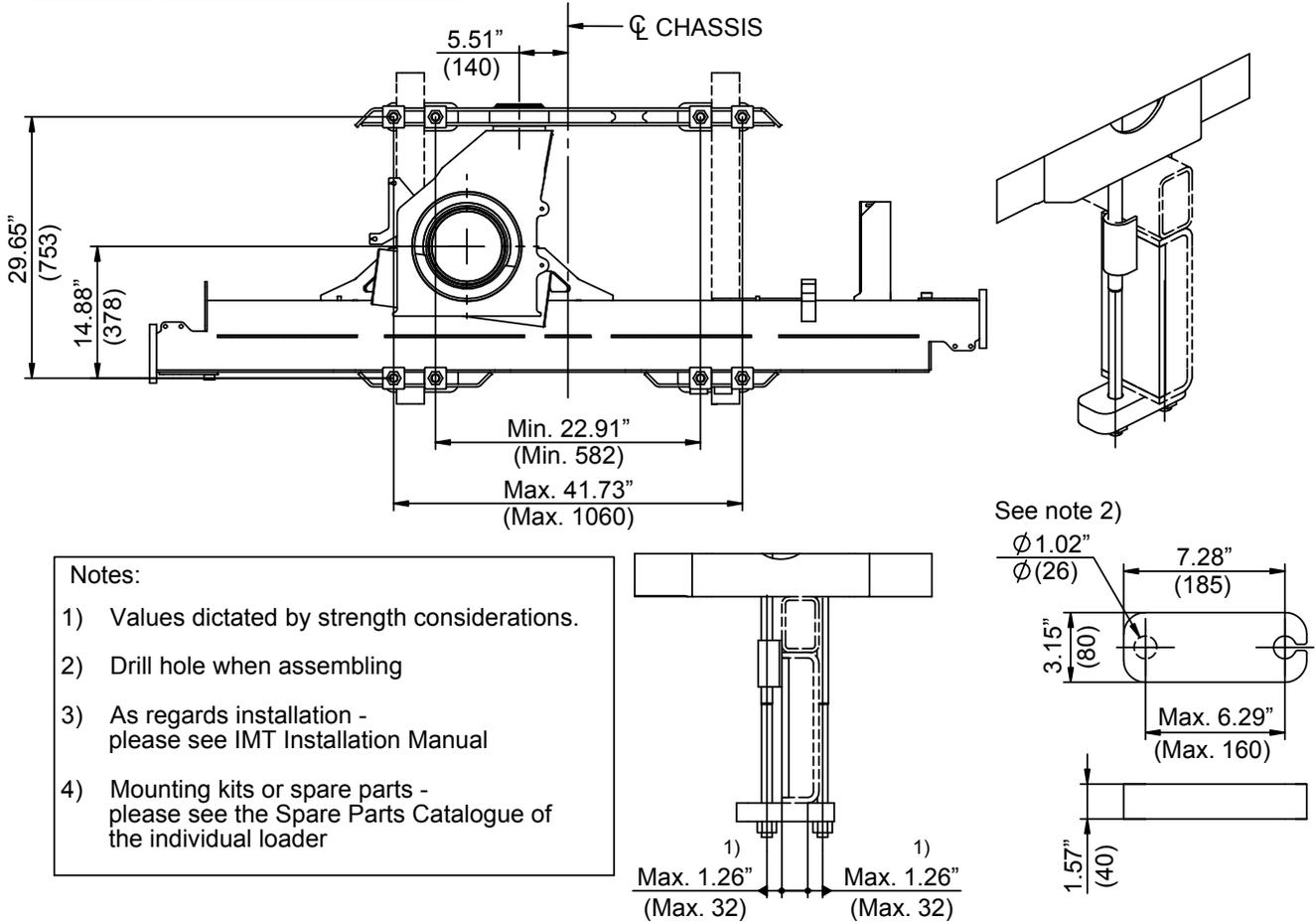


### RCS - Slewing Radius

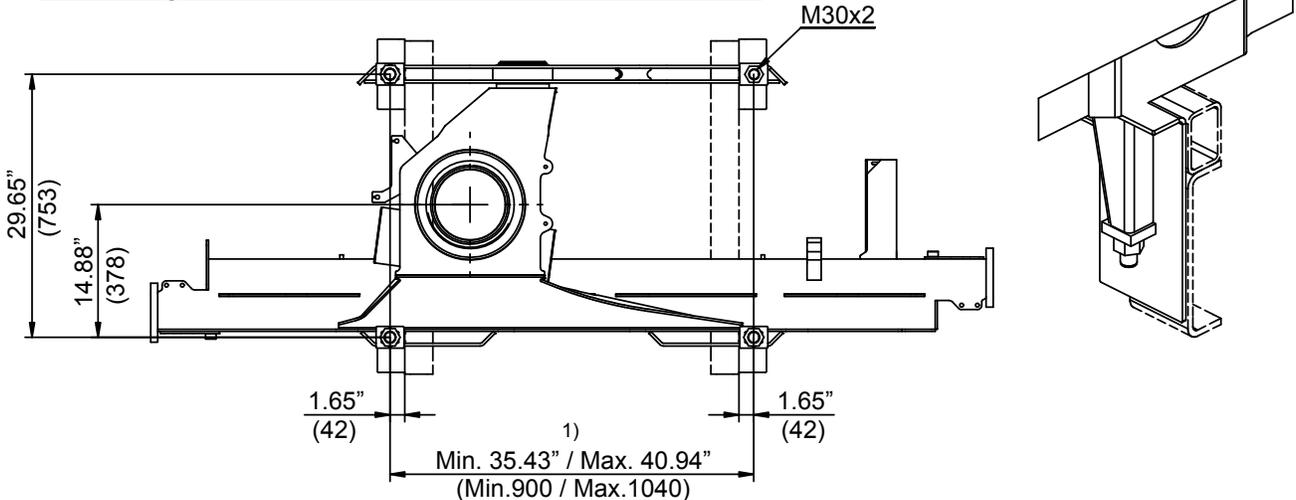


### RCS - Dimension sketch for truck-mounted loader

#### Mounting kit 8 x M24x2 bolts



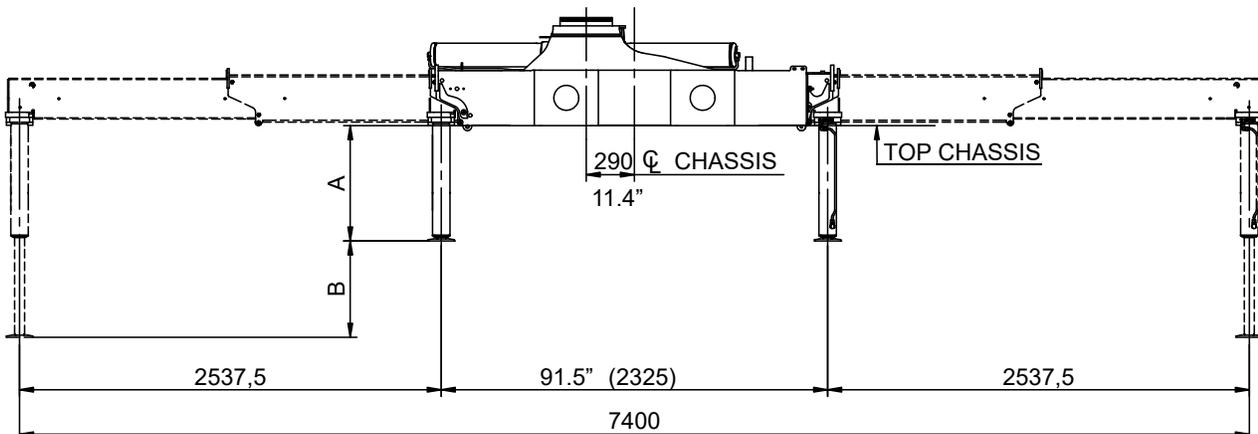
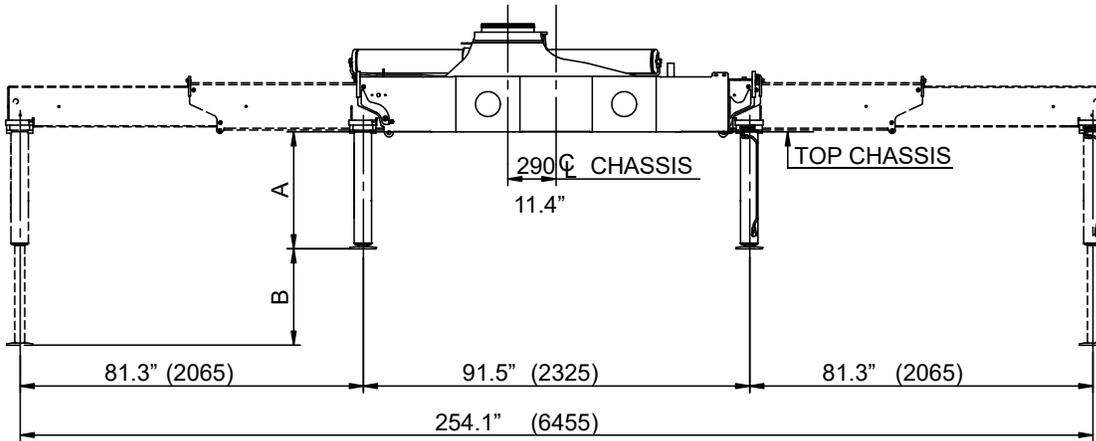
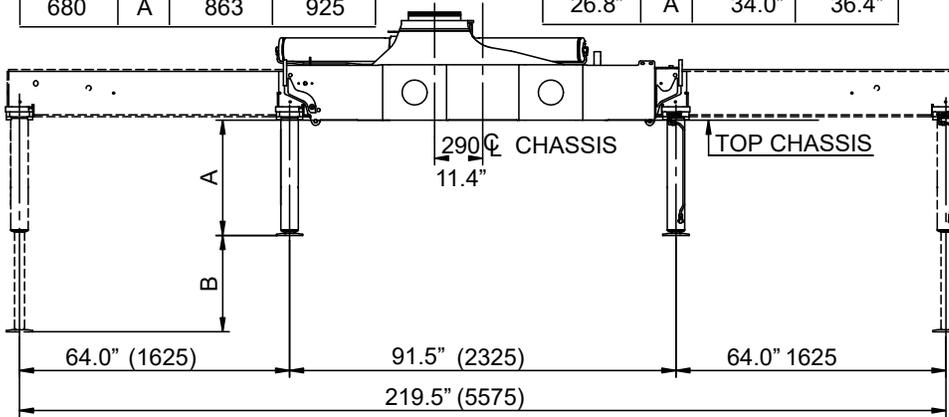
#### Mounting kit 3 x M33x2 bolts + 1 x M30x2 bolts



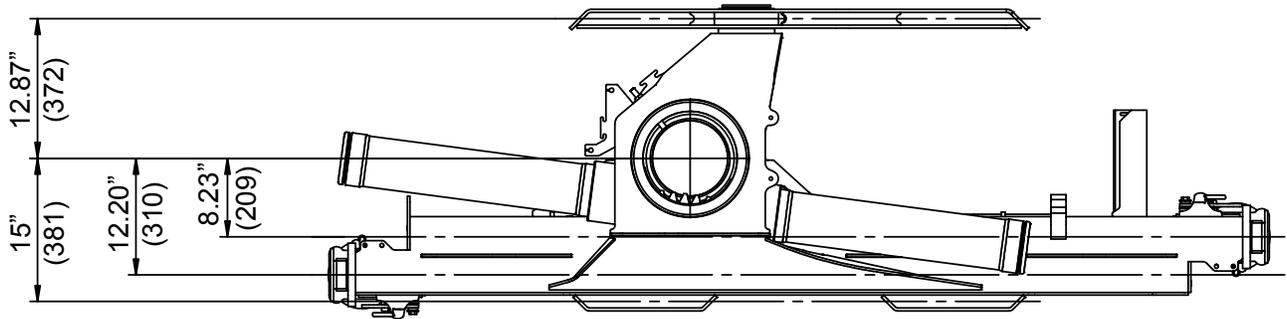
### RCS - Dimension Sketch, Fixed Stabilizer Legs

B			
580	A	695	762
680	A	795	862
B			
580	A	763	825
680	A	863	925

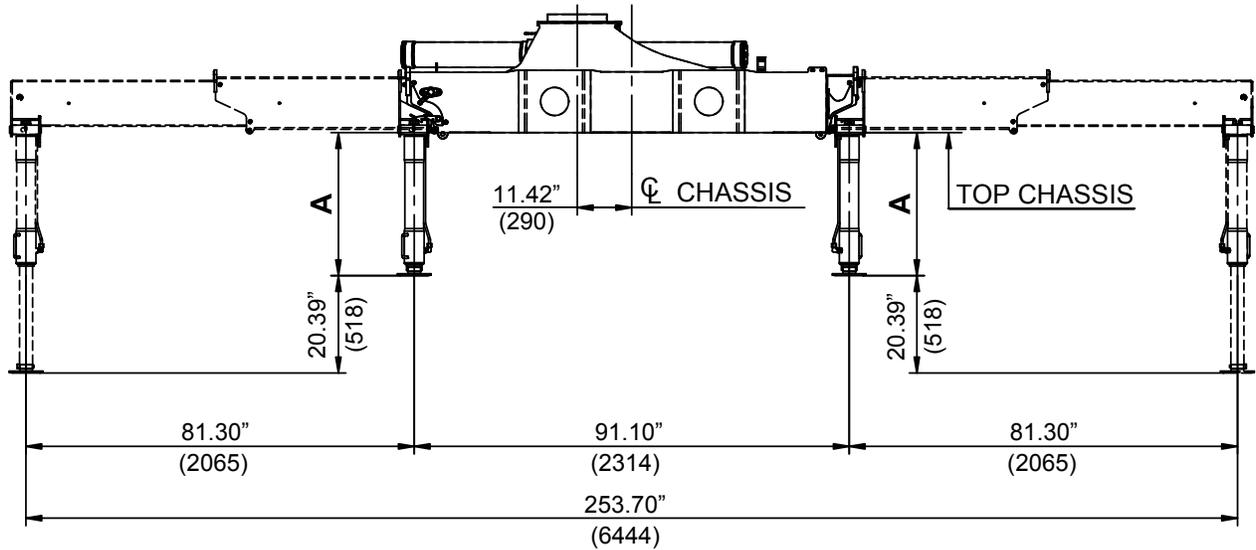
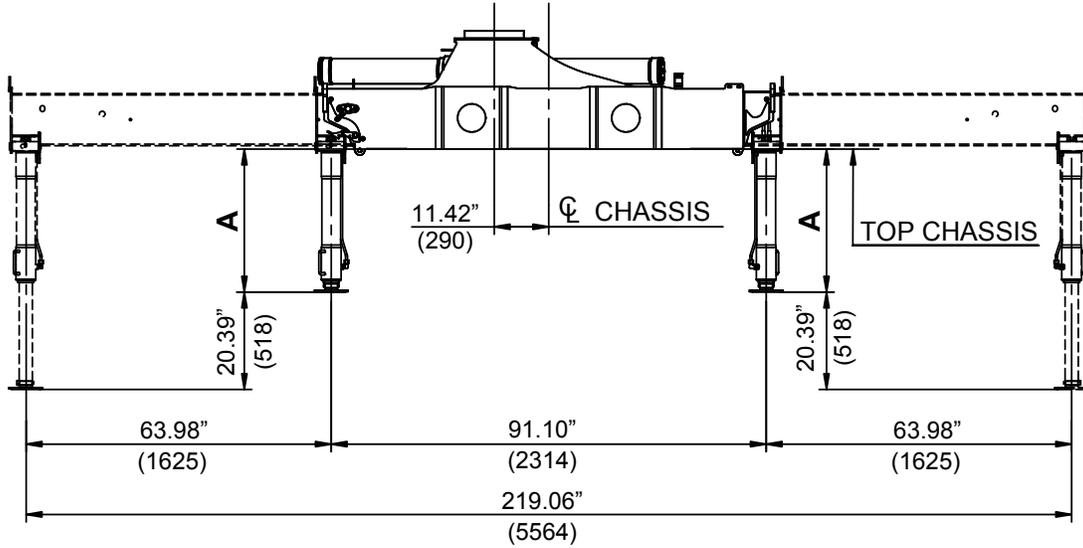
B			
22.83"	A	27.4	30.0"
26.8"	A	31.3"	33.9"
B			
22.83"	A	30.0"	32.5"
26.8"	A	34.0"	36.4"



**Dimension sketch, fixed stabilizer legs (Continued)**



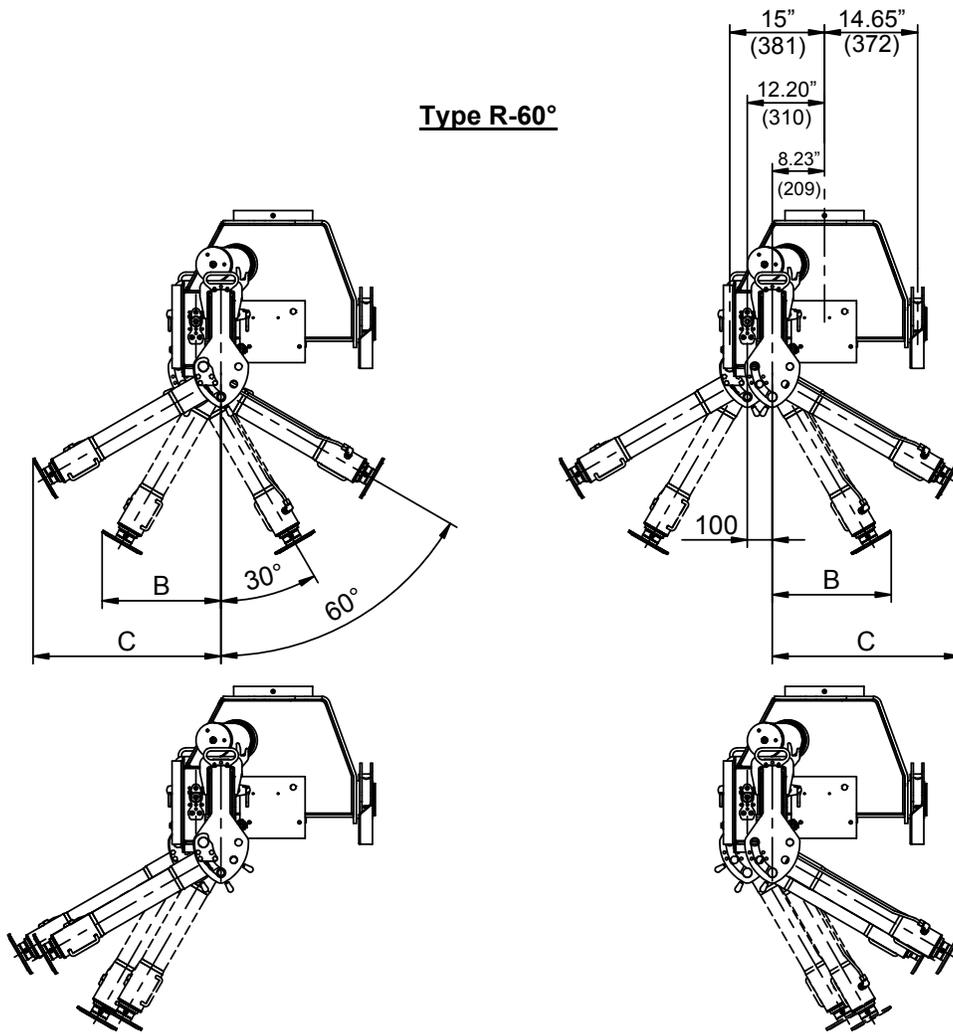
### RCS - Dimension sketch, swing-up stabilizer legs 30° - 60° (manual)



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

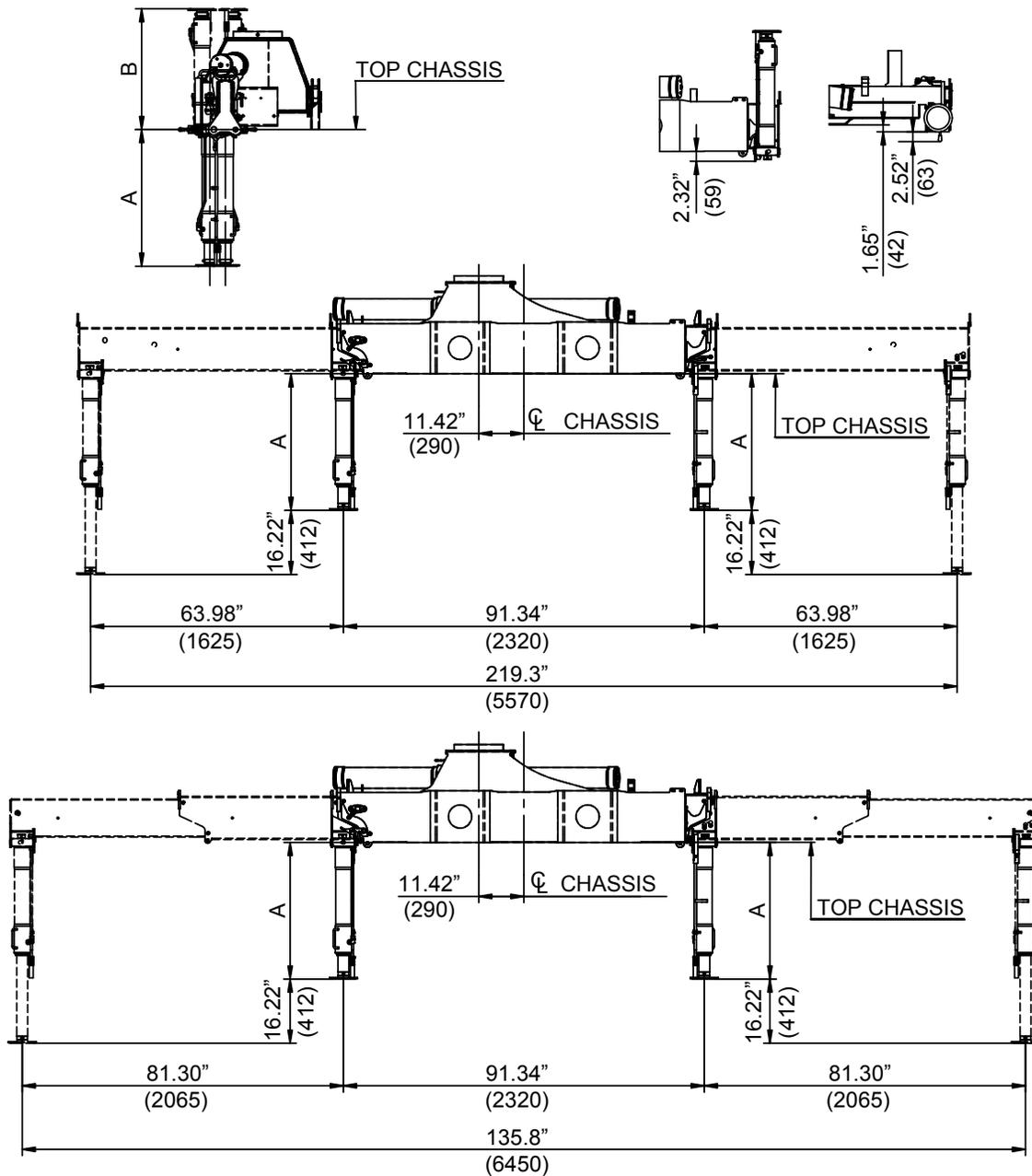
**Dimension sketch, swing-up stabilizer legs 30°- 60° (manual) - CONTINUED**

**Type R-60°**



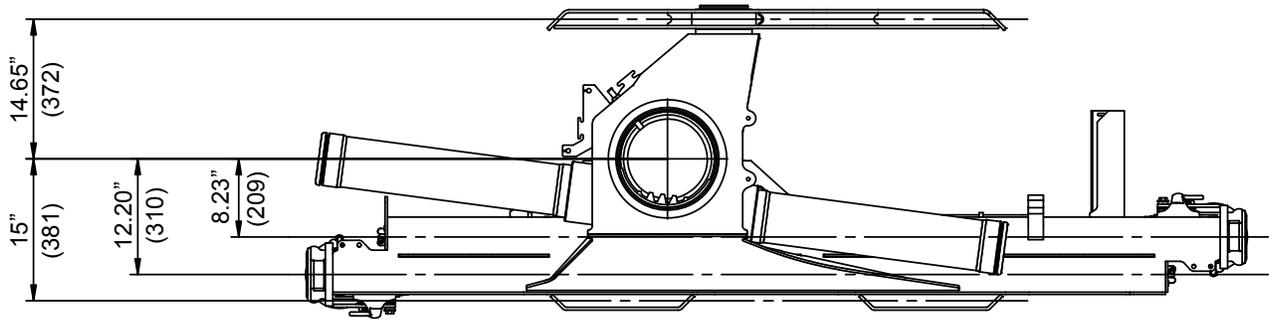
			
<b>B</b>	18.66"	20.63"	22.60"
<b>C</b>	29.53"	32.91"	36.34"
<b>D</b>	14.41"	15.83"	17.24"
<b>B</b>	474mm	524mm	574mm
<b>C</b>	750mm	836mm	923mm
<b>D</b>	366mm	402mm	438mm

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

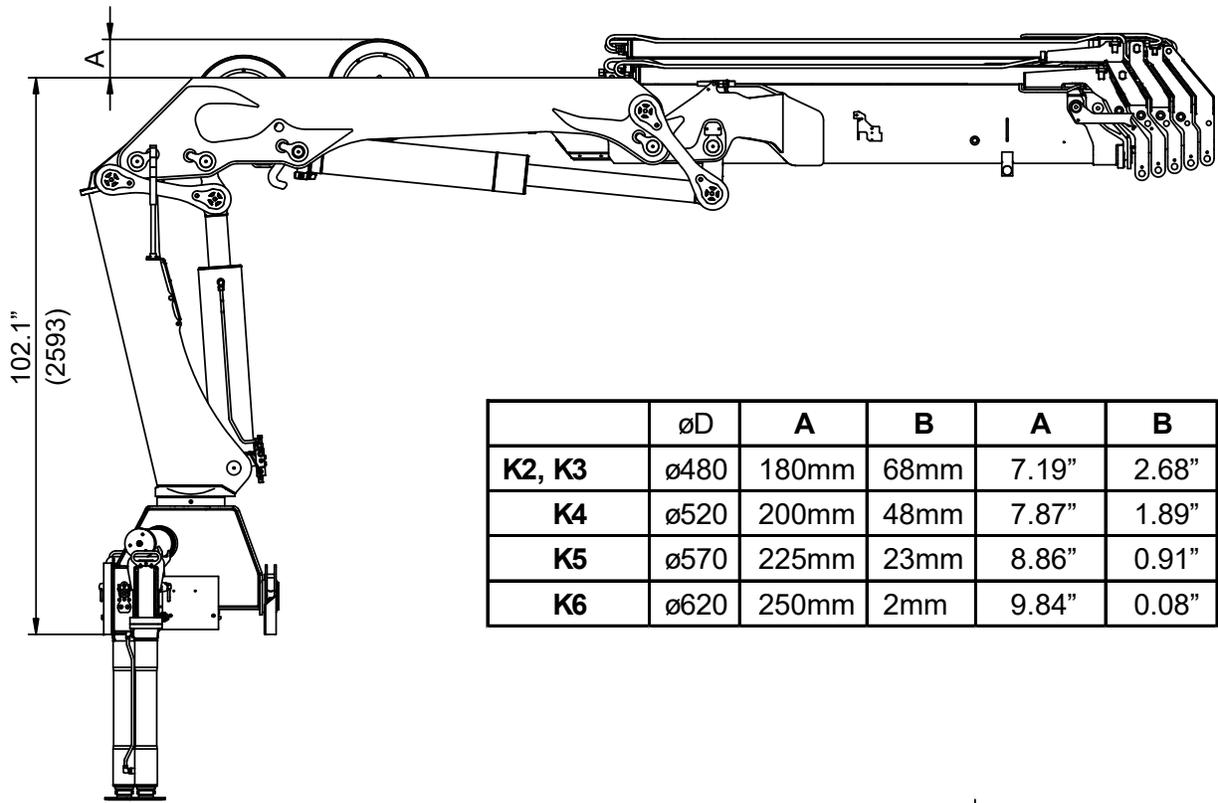


			
A	34.45"	38.39"	42.32"
B	30.75"	34.69"	38.62"
A	875mm	975mm	1075mm
B	781mm	881mm	981mm

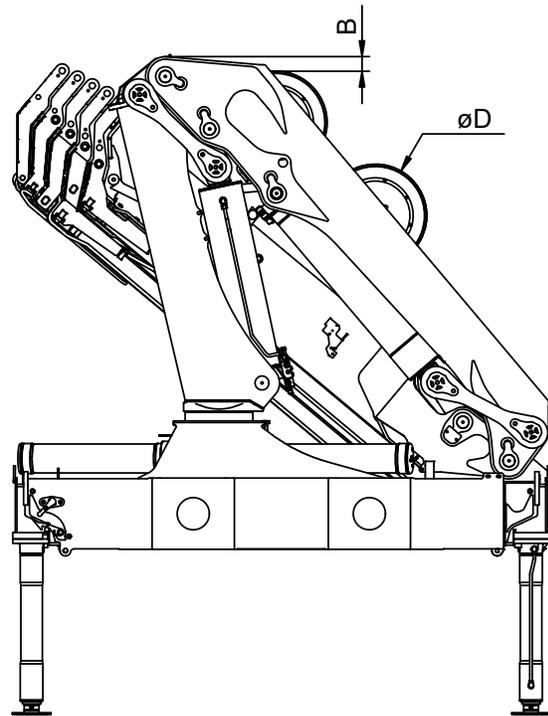
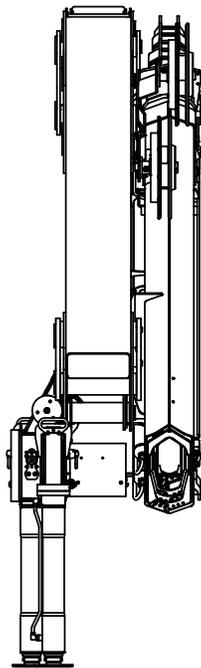
**Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic) CONTINUED**



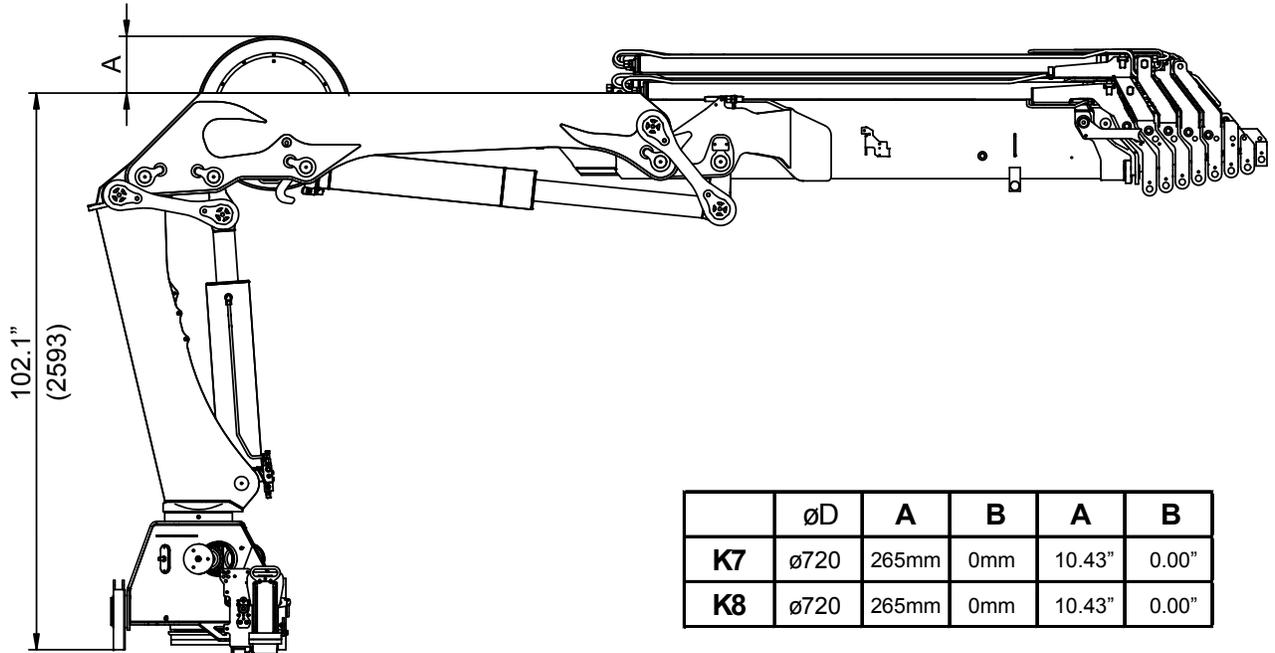
### RCS - Dimension Sketch, Internal Hose Routing



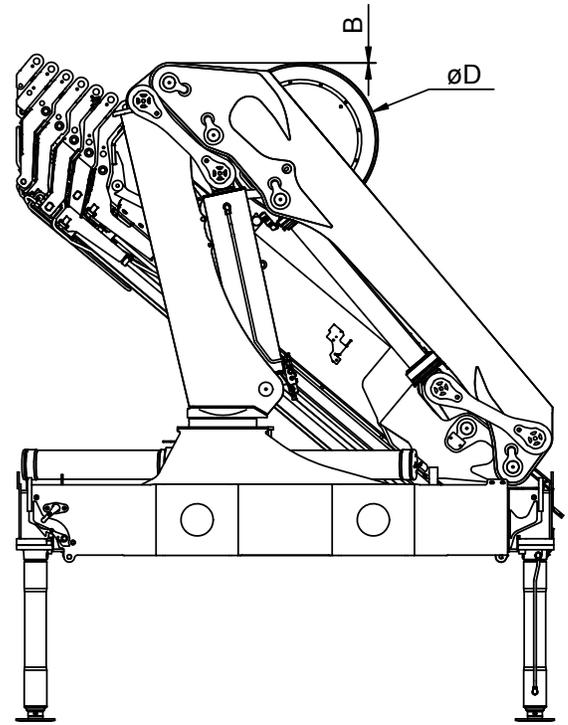
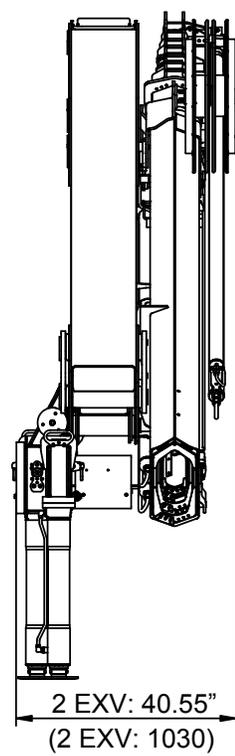
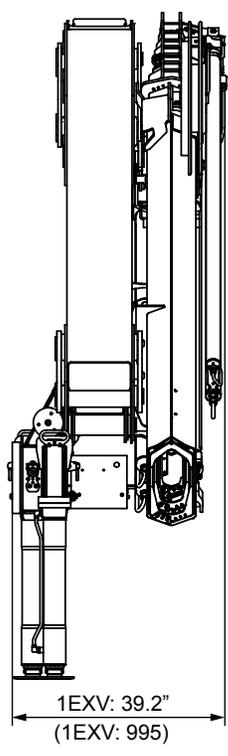
	øD	A	B	A	B
<b>K2, K3</b>	ø480	180mm	68mm	7.19"	2.68"
<b>K4</b>	ø520	200mm	48mm	7.87"	1.89"
<b>K5</b>	ø570	225mm	23mm	8.86"	0.91"
<b>K6</b>	ø620	250mm	2mm	9.84"	0.08"



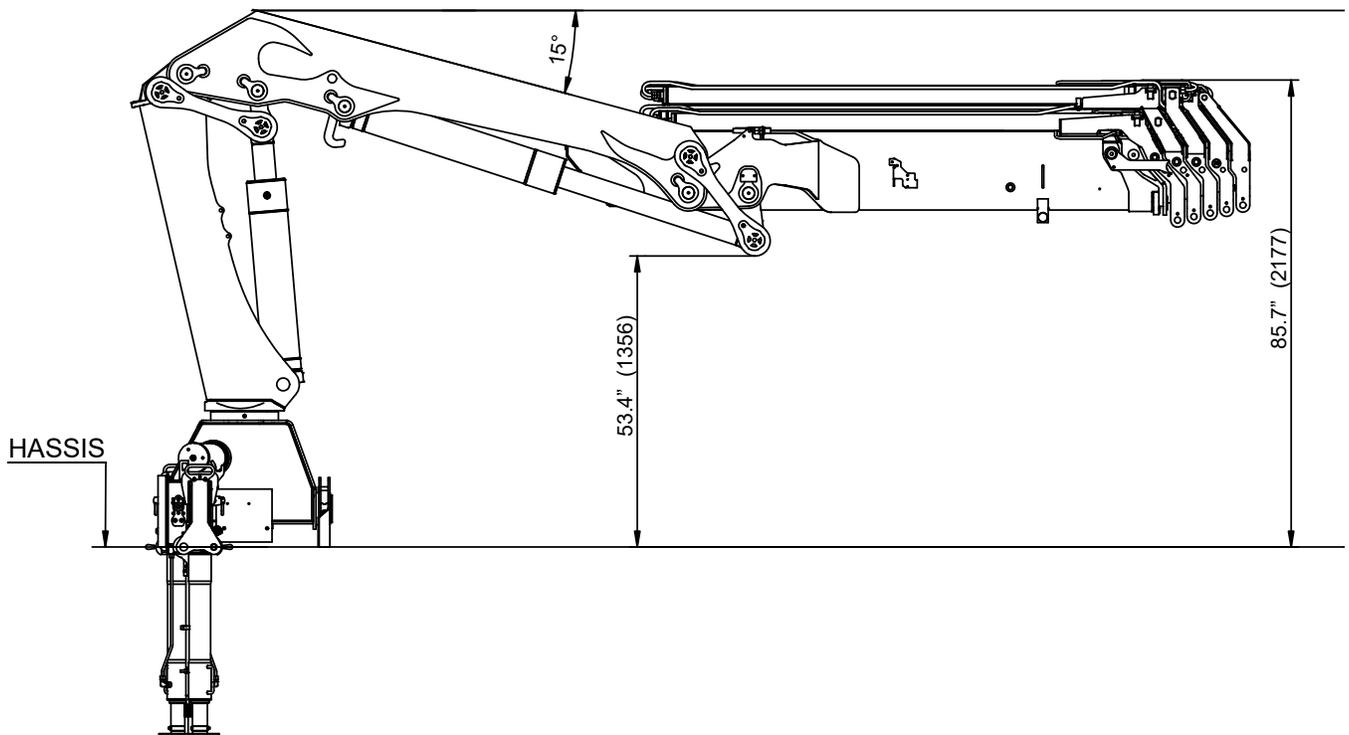
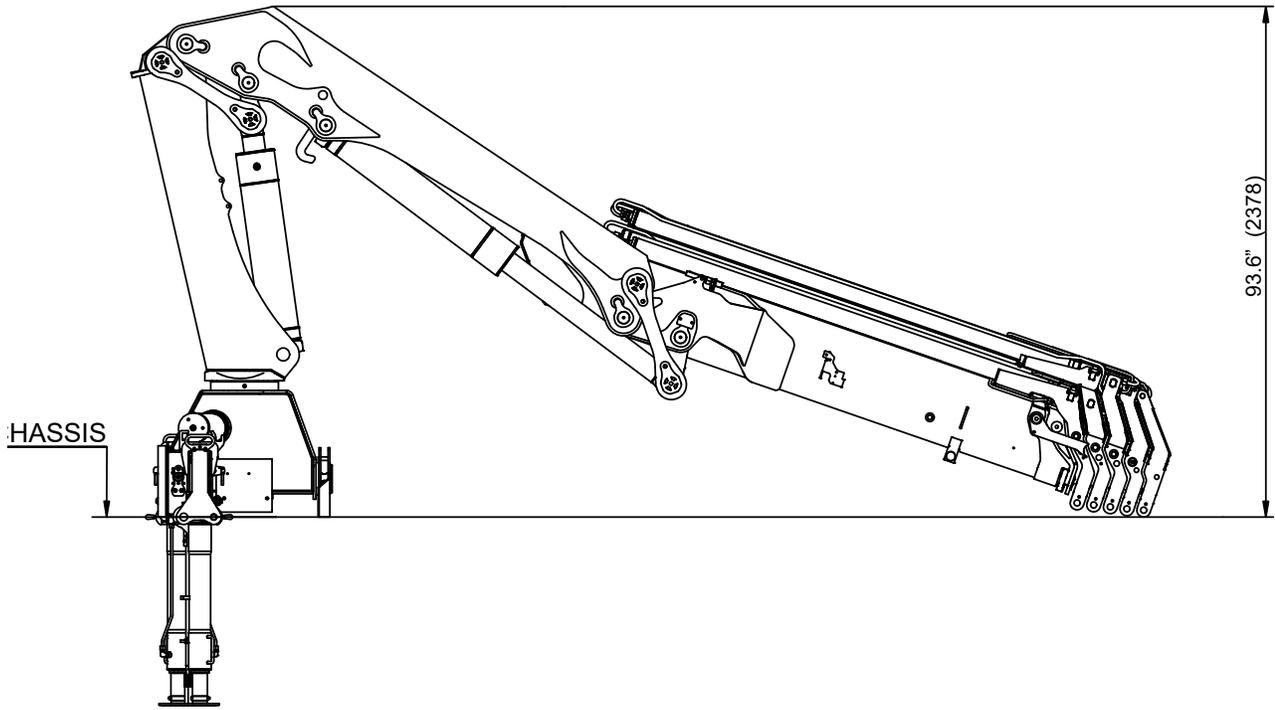
### RCS - Dimension Sketch, Extra Valves K7, K8



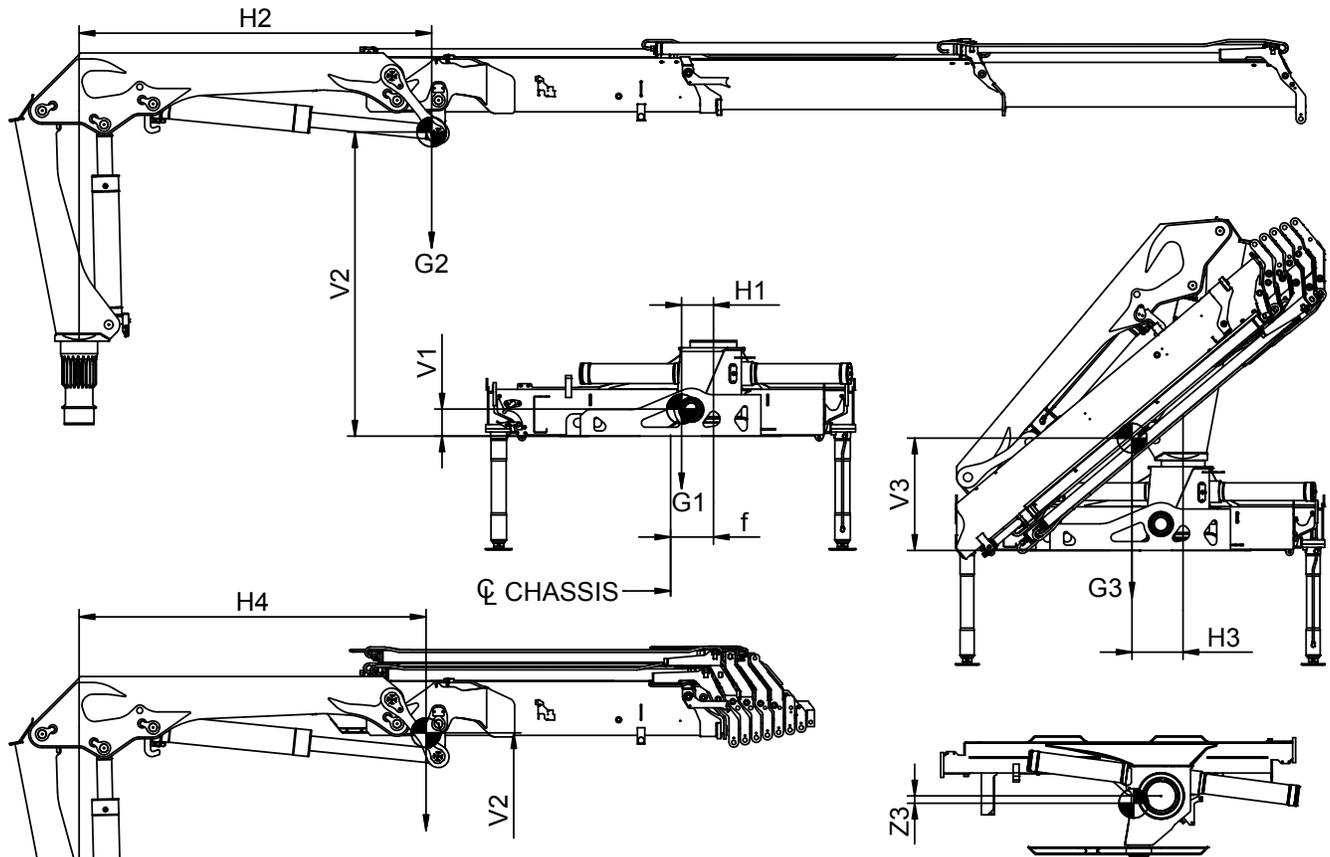
	øD	A	B	A	B
<b>K7</b>	ø720	265mm	0mm	10.43"	0.00"
<b>K8</b>	ø720	265mm	0mm	10.43"	0.00"



### RCS - Stowed in Truck Body



# 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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**2310 RCS 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	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1830	1450
	Up	B	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	3626
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 Variable	1 x Variable
Pump performance	70L/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	

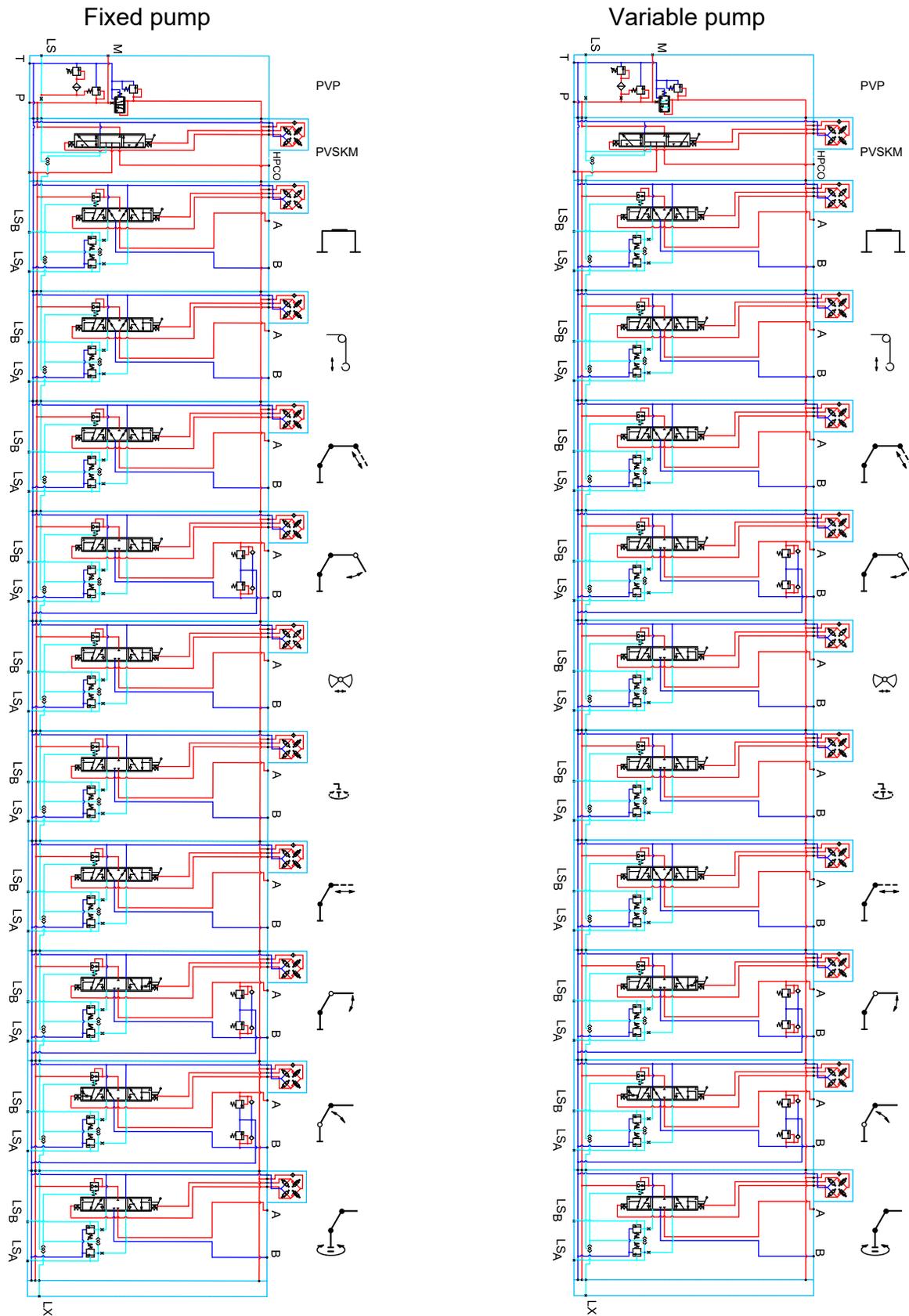
Working Pressure on Load-Holding Valves			
Function	Direction	Opening pressure [bar]	Opening pressure [PSI]
Slewing system	Right	185	2683
	Left	185	2683
Boom cylinder	Up	390	5656
	Down	-	-
Jib cylinder	Up	405	5874
	Down	300	4351
Extension cylinders	Retract	430	6237
	Extend	210	3046

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

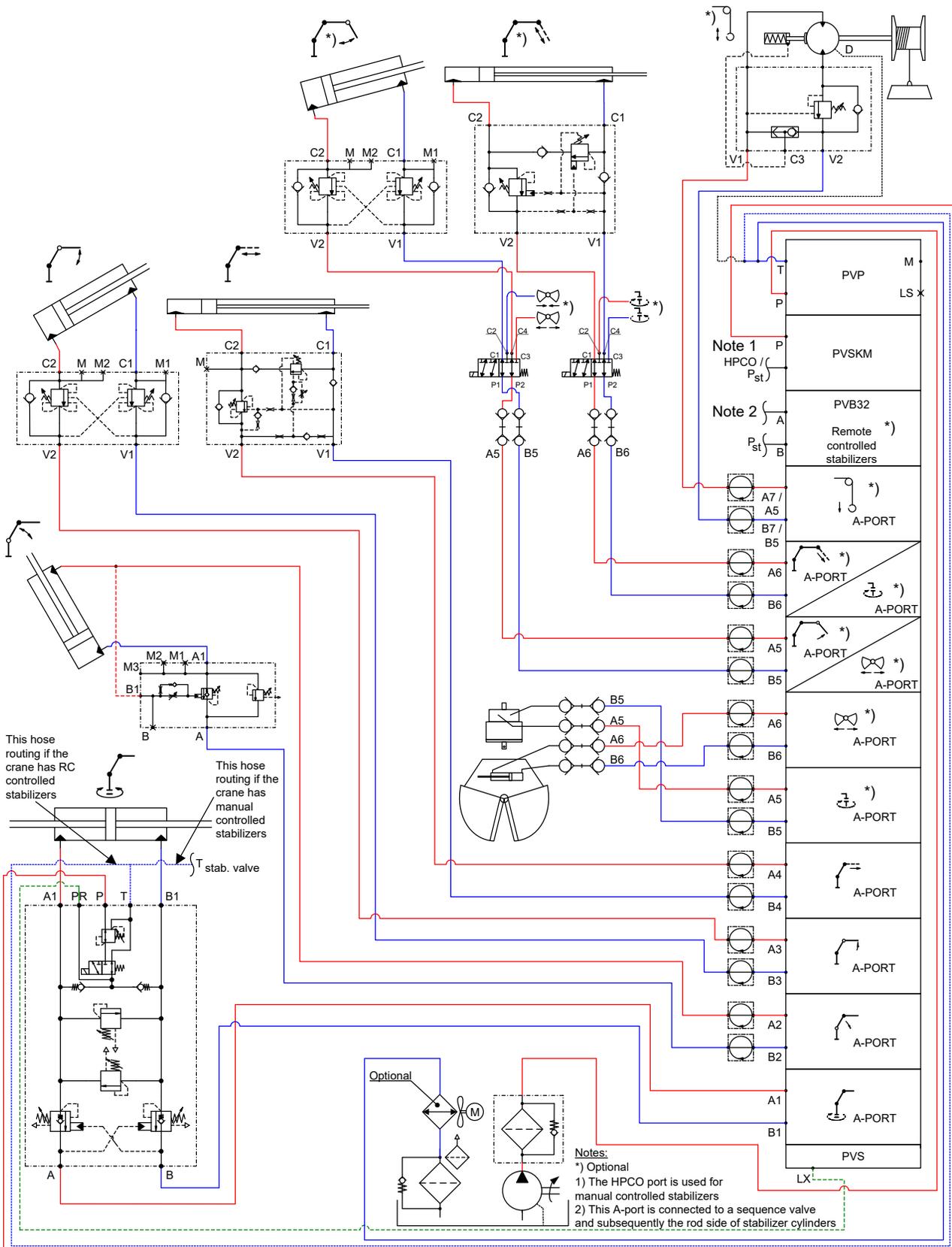
Max. pump performance		
Choice of pump	1 x Variable	1 x Variable
Pump performance	120 L/min	31.7 gpm

IMT reserves the right to introduce improvements and modifications

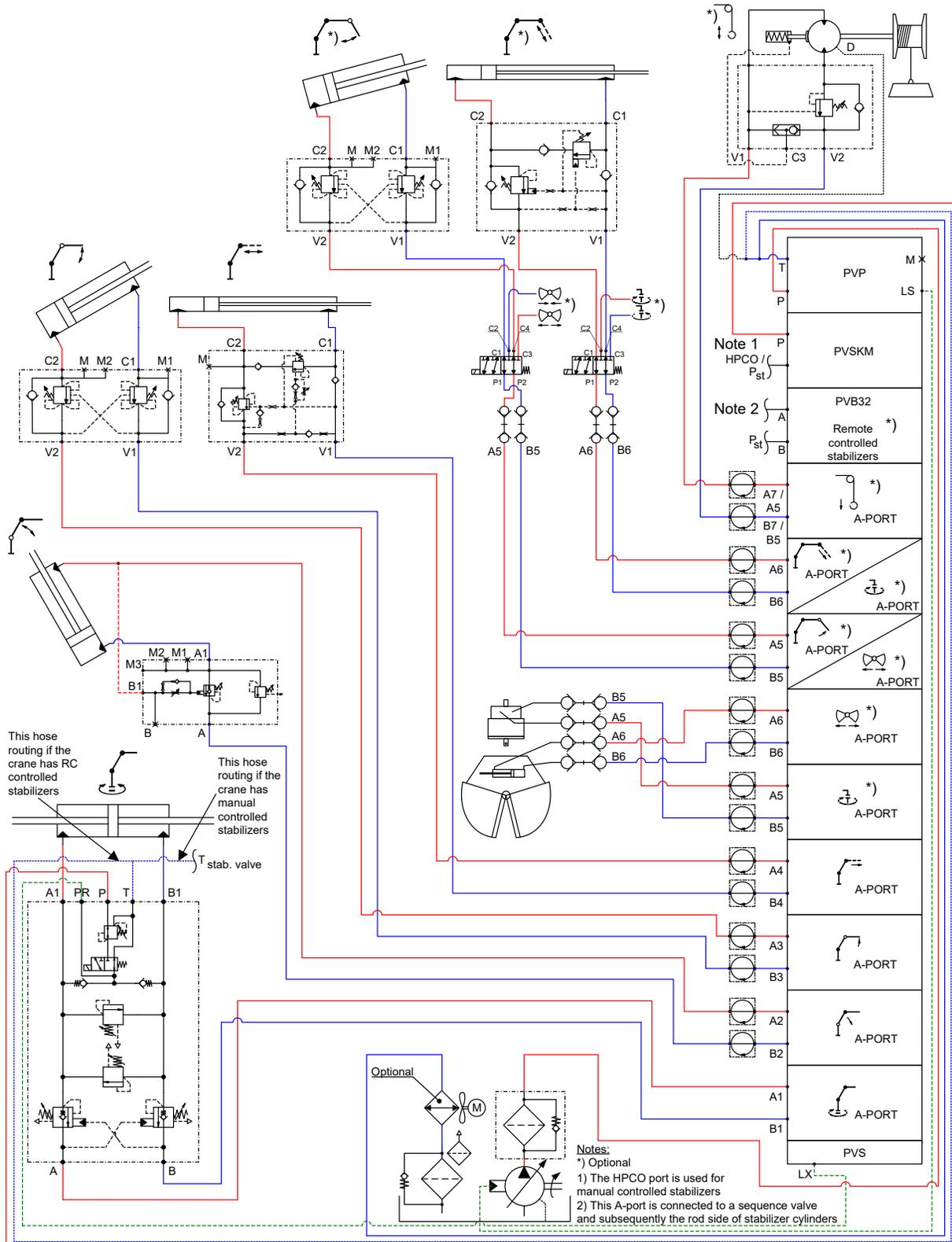
# Hyd Diagram PVG32 - Crane Functions, Control Valve, Fixed and Variable Flow Pumps



# Hydraulic Diagram – Danfoss PVG32, Single-Circuit Fixed 7 Fcts. RC (3 EXV: FJ + 2 EXV, Winch)

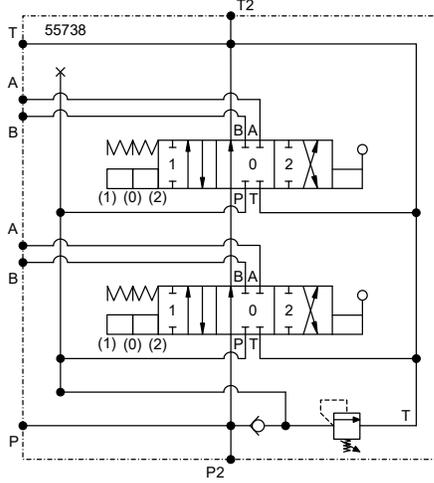


# Hydraulic Diagram – Danfoss PVG32, Single-Circuit Variable 7 FCTS. RC (3 EXV: FJ + 2 EXV, Winch)

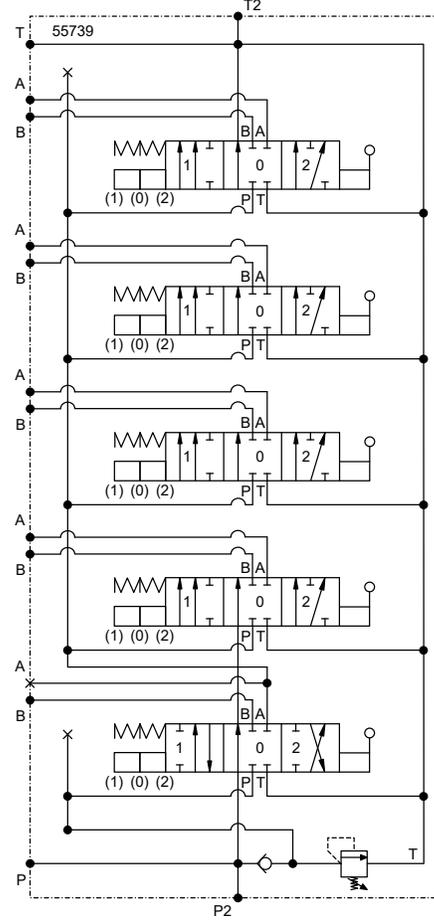


# Hydraulic Diagram - Stabilizer Circuit – Overview

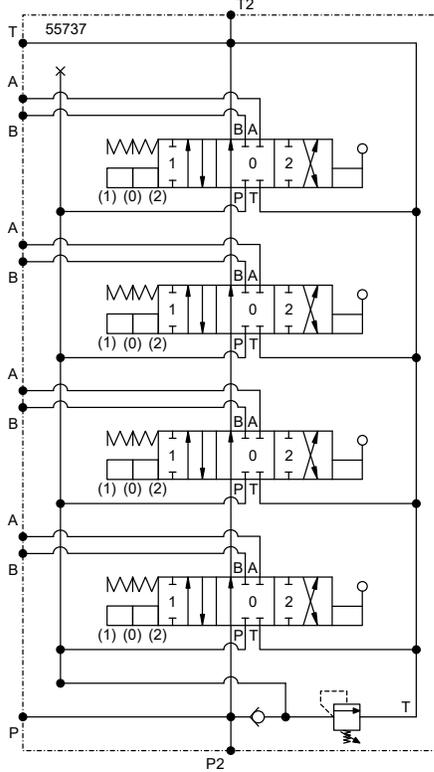
2 functions:



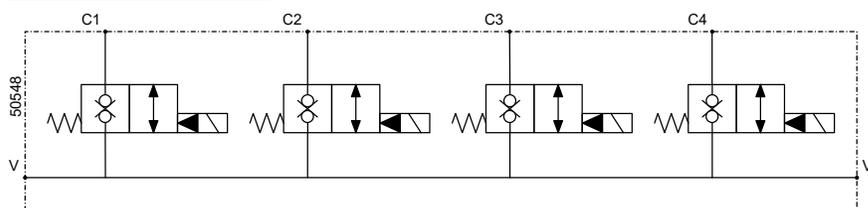
4 + 4 extra functions:



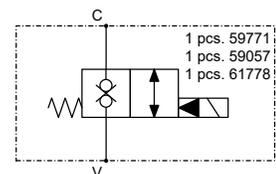
4 or 2 + 2 extra functions:



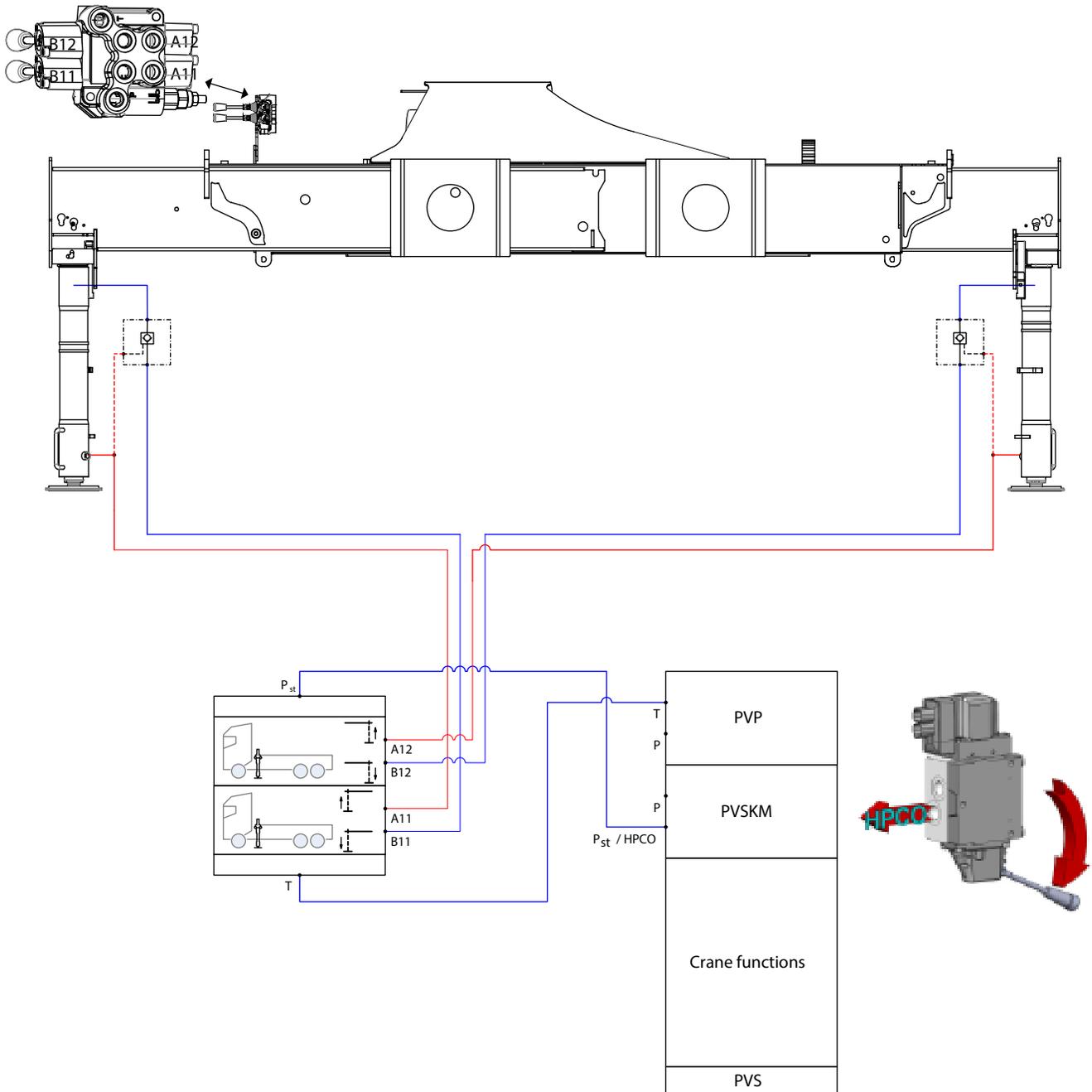
4 remote controlled functions:



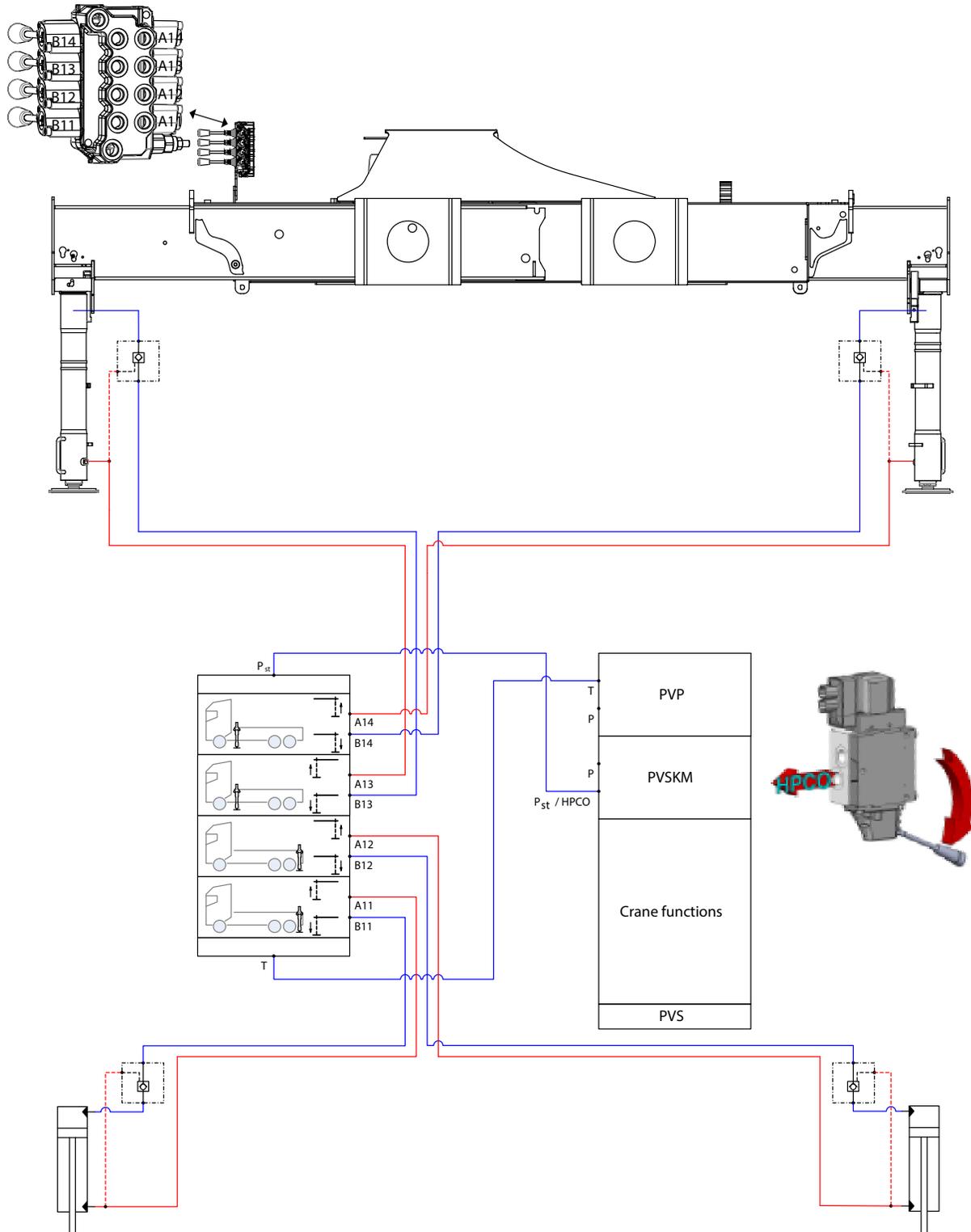
Extra remote controlled functions:



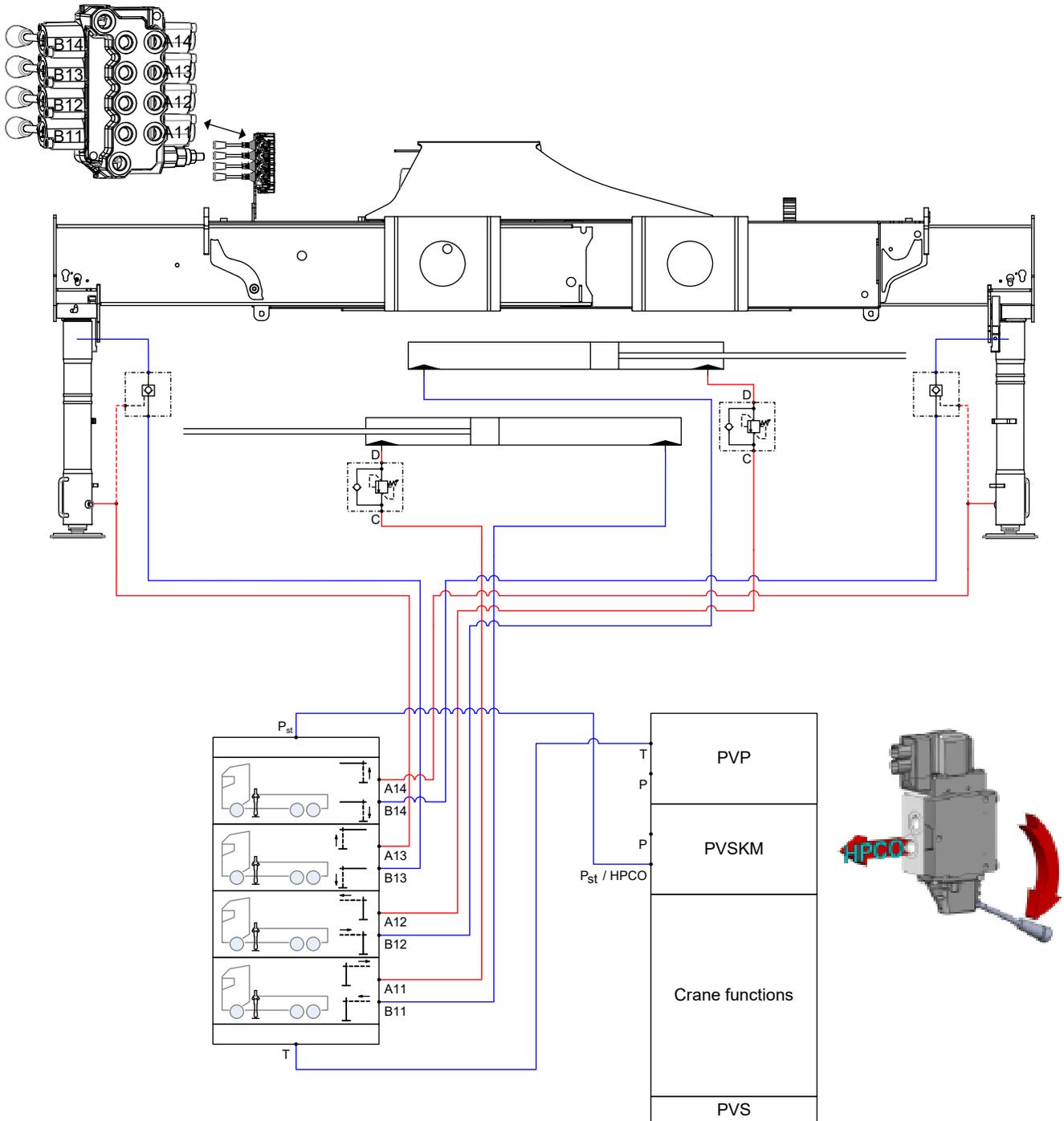
# Hydraulic Diagram - Stabilizer Circuit – 2 FCTS.



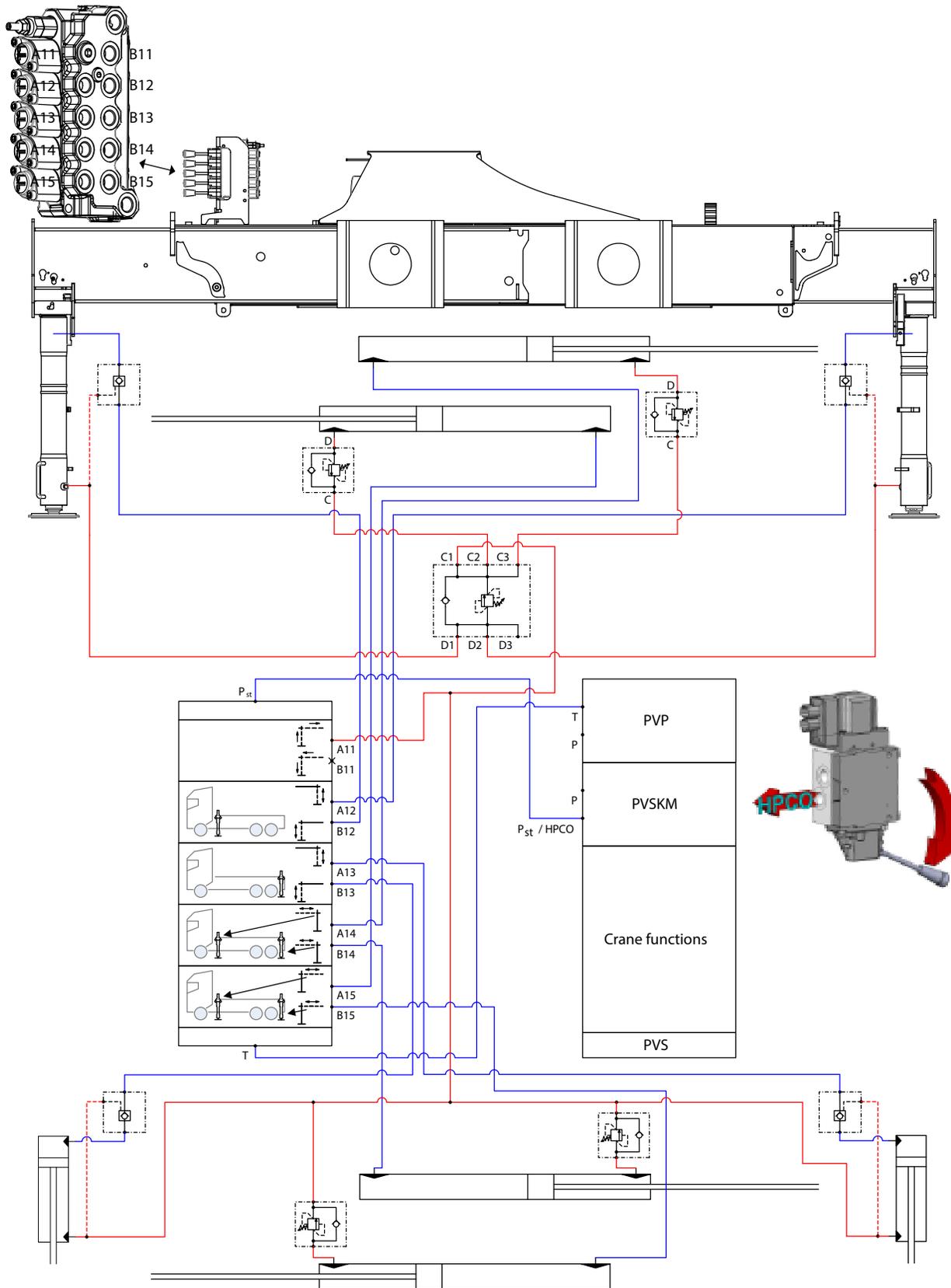
# Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



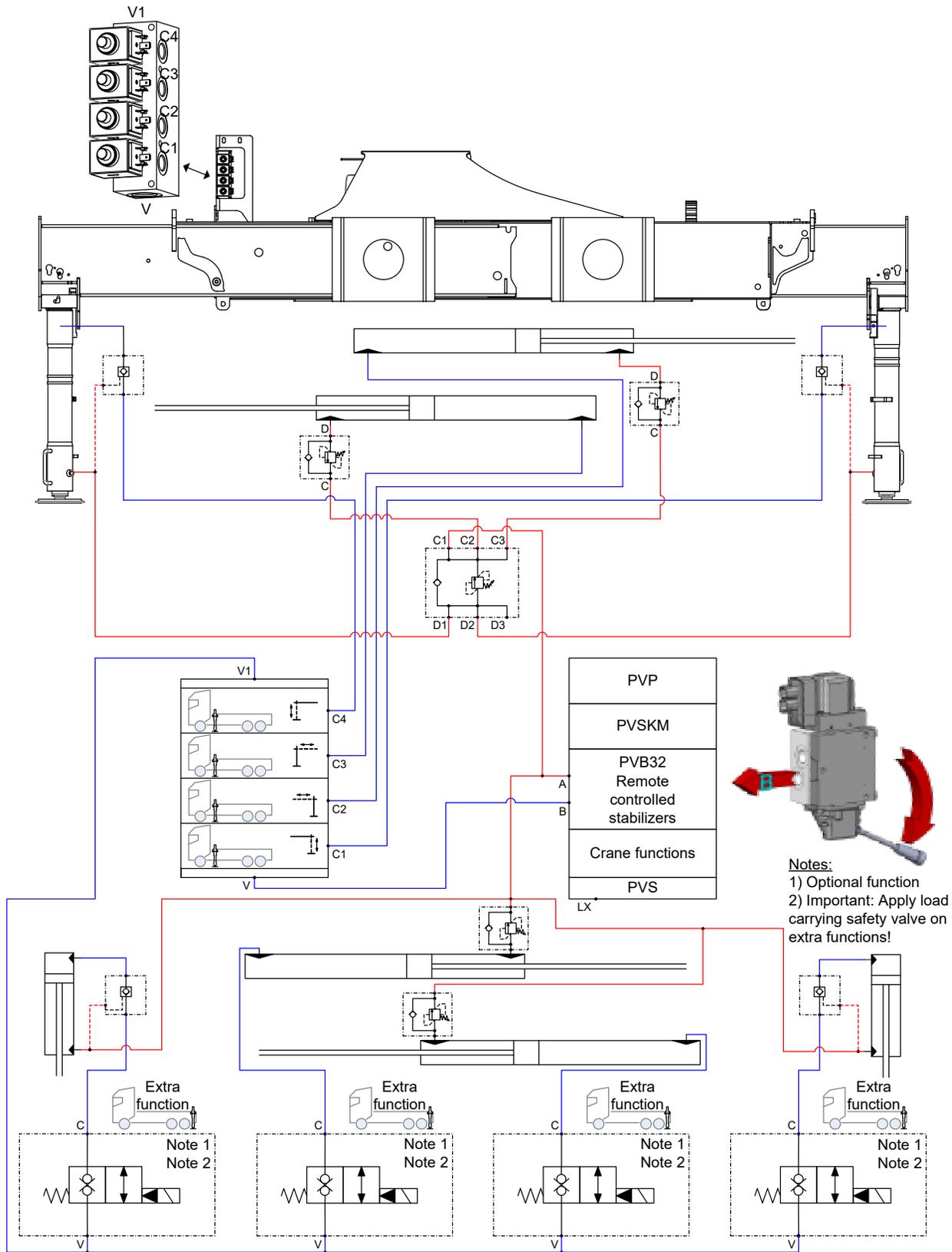
# Hydraulic Diagram - Stabilizer Circuit – 4 FCTS.



### Hydraulic Diagram - Stabilizer Circuit – 4 FCTS. + 4 Available FCTS.



# Hydraulic Diagram - Stabilizer Circuit – 4 FCTS. + 4 Available FCTS. RC



**2320 RCS Technical Specifications**

**Section - 5**

## 2320 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	150139	146529	143642	140033	137146	134259	132093
Hydraulic reach	ft	27'2"	33'8"	41'0"	48'6"	56'1"	63'3"	70'9"
Hydraulic telescopic movement	ft	12'6"	19'2"	26'0"	33'2"	40'6"	47'6"	54'9"
Lifting capacity, hydraulic	lb-ft	10604 - 14'1"	10185 - 14' 4"	9789 - 14' 8"	9392 - 15'1"	9039 - 15'1"	8686 - 15'4"	8422 - 15' 7"
		7319 - 20' 3"	6967 - 20' 7"	6614 - 21' 0"	6305 - 21'0"	5997 - 21' 3"	5688 - 21'7"	5490 - 22' 0"
		5556 - 26' 9"	5225 - 26' 9"	4872 - 27' 2"	4586- 27' 6"	4299 - 27' 9"	4034 - 27'9"	3858- 28' 2"
			4167 - 33' 5"	3858 - 33' 8"	3549 - 34' 1"	3285 - 34'4"	3020 - 34'4"	2844 - 34' 8"
				3175 - 40' 7"	2888 - 41'0"	2601 - 41'3"	2337 - 41'3"	2183 - 41' 7"
					2425 - 48' 2"	2161 - 48'6"	1874 - 48'6"	1720 - 48' 9"
						1852 - 55'8"	1587 - 56'1"	1411 - 56' 4"
							1389 - 63'0"	1235 - 63' 3"
								1080 - 70' 5"
Lifting capacity, manual extensions	lb-ft			2535 - 48' 2"	1962 - 56'1"	1521 - 63' 6"	1168 - 70' 9"	705 - 78' 4"
Slewing torque, gross	lb-ft	6092	6092	6092	6092	6092	6092	6092
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 lb
Rear Axle Rating (GAWR)	40,000 lb
Resistance to Bending Moment	2,252,085 ft-lb

## 2320 RCS - Specifications - Continued

Dimensions	Unit	K2	K3	K4	K5	K6	K7	K8
Height above chassis	ft-in	7' 5"	7' 5"	7' 5"	7' 5"	7' 5"	7' 7"	7' 7"
Width	ft-in	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"	8' 2"
Width with extra valves (int. hose routing)	ft-in	8' 3"	8' 3"	8' 3"	8' 3"			
Length, no extra valves	ft-in	2' 9"	2' 9"	2' 9"	2' 9"	3' 3"	3' 3"	2' 10"
Length, with extra valves (hose guides)	ft-in	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"		
Length, with 1 extra valve (hose reels)	ft-in						3' 3"	3' 3"
Length, with 2 extra valves (hose reels)	ft-in						3' 4"	3' 4"
Length, with extra valves (int. hose routing)	ft-in	2' 9"	2' 9"	2' 9"	2' 9"	2' 9"		
Stabilizer spread, S1 (standard)	ft-in	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"	18' 3"
Stabilizer spread, D1	ft-in	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"	21' 2"
Stabilizer spread, D2	ft-in	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	4123	4464	4872	5181	5456	5688	5875
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	661	661	661	661	661	661	661
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
Stabilizer, D2 swing-up	lb	1058	1058	1058	1058	1058	1058	1058
Stabilizer, D2 Hyd. swing-up	lb	1080	1080	1080	1080	1080	1080	1080
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	132	143	143

## 2320 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	231	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	88	88	88	88	88	88	88

### 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	24	24	24	24	24	24	24
S1, swing-up	lbf	24	24	24	24	24	24	24
S1, hydr. swing-up	lbf	24	24	24	24	24	24	24
D, fixed	lbf	19	19	19	19	19	19	19
D, swing-up	lbf	19	19	19	19	19	19	19
D, hydr. swing-up	lbf	19	19	19	19	19	19	19

Power consumption (oil capacity)	Unit	K2	K3	K4	K5	K6	K7	K8
Working pressure	psi	5294	5294	5294	5294	5294	5294	5294
Tank capacity, standard(fitted on loader)	ga	23.8	23.8	23.8	23.8	23.8	23.8	23.8
Tank capacity, Big (fitted on loader)	ga	39.6	39.6	39.6	39.6	39.6	39.6	39.6
Max. pump performance, Danfoss fixed flow	gpm	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Max. pump performance, Danfoss variable	gpm	26.4	26.4	26.4	26.4	26.4	26.4	26.4

## 2320 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	20.8	20.3	19.9	19.4	19	18.6	18.3
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	4810 - 4.3	4620-4.4	4440-4.5	4260-4.6	4100-4.6	3940-4.7	3820-4.8
		3320 - 6.2	3160-6.3	3000-6.4	2860-6.4	2720-6.5	2580-6.6	2490-6.7
		2520 - 8.2	2370-8.2	2210-8.3	2080-8.4	1950-8.5	1830-8.5	1750-8.6
			1890-10.2	1750-10.3	1610-10.4	1490-10.5	1370-10.5	1290-10.6
				1440-12.4	1310-12.5	1180-12.6	1060-12.6	990-12.7
					1100-14.7	980-14.8	850-14.8	780-14.9
						840-17	720-17.1	640-17.2
							630-19.2	560-19.3
								490-21.5
Lifting capacity, manual extensions	kg-m			1150 - 14.7	890 - 17.1	690 - 19.4	530 - 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

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	1015	1015	1015	1015	1015		
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	1870	2025	2210	2350	2475	2580	2665
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	400	400	400	400	400	400	400
Stabilizers, D1 hydr. swing-up	kg	410	410	410	410	410	410	410
Stabilizers, D2 fixed	kg	450	450	450	450	450	450	450
Stabilizer, D2 swing-up	kg	480	480	480	480	480	480	480
Stabilizezr D2 Hyd swing-up	kg	490	490	490	490	490	490	490
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			80	70	60	45	35
Manual extensions	kg			80	70	60	45	35
Oil in loader (stowing position)	kg	40	45	50	55	60	65	65

**1) Weights ± 5% because of tolerances for plate thickness**

## 2320 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

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

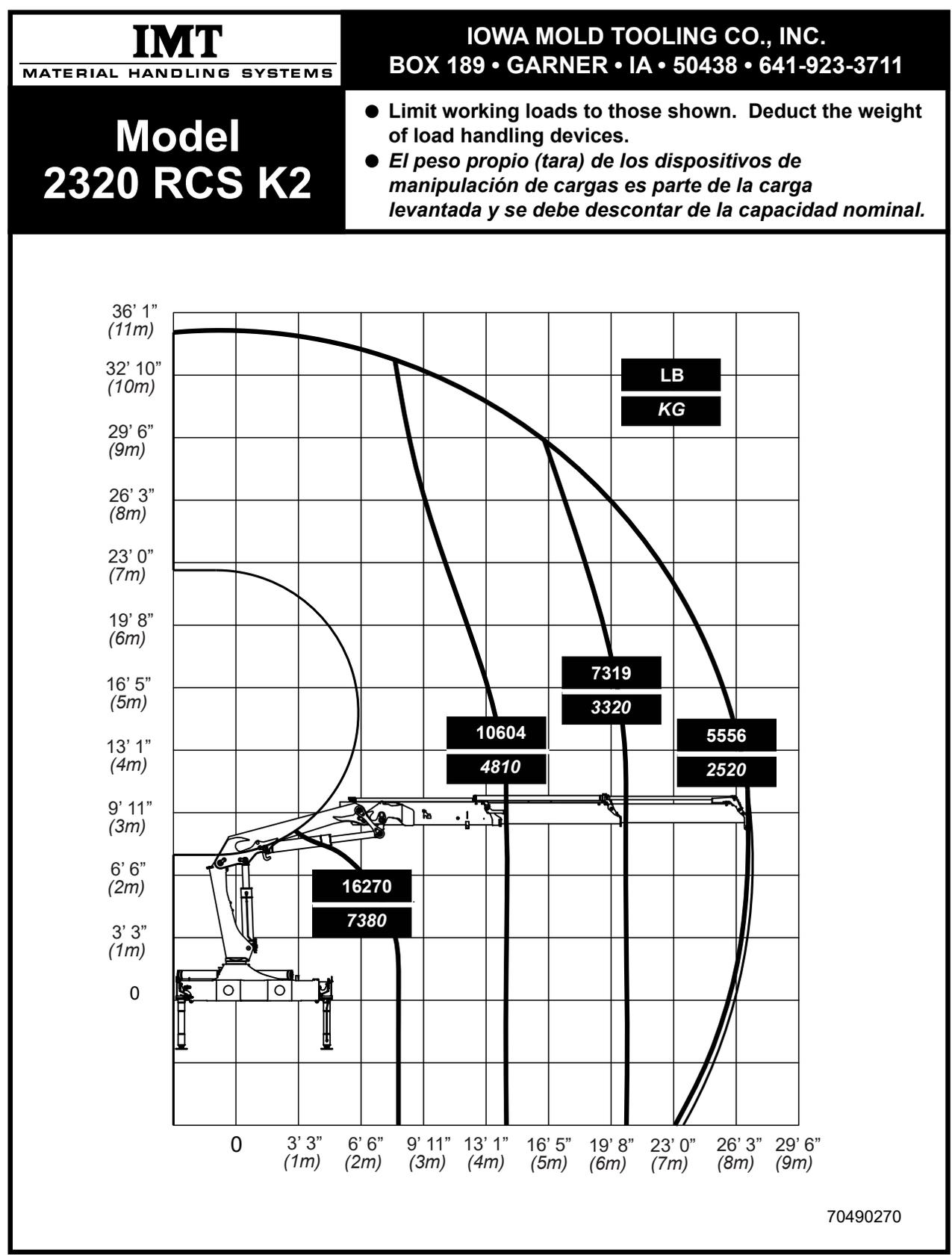
Max. Load on stabilizers (per stabilizer cylinder)	Unit	K2	K3	K4	K5	K6	K7	K8
S1, fixed	kN	110	110	110	110	110	110	110
S1, swing-up	kN	110	110	110	110	110	110	110
S1, hydr. swing-up	kN	110	110	110	110	110	110	110
D, fixed	kN	85	85	85	85	85	85	85
D, swing-up	kN	85	85	85	85	85	85	85
D, hydr. swing-up	kN	85	85	85	85	85	85	85

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	150	150	150	150	150	150	150
Max. pump performance, Danfoss fixed flow	L/min	70	70	70	70	70	70	70
Max. pump performance, Danfoss variable	L/min	100	100	100	100	100	100	100

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**2320 RCS Load Capacity Charts** **Section - 6**

## 2320 RCS - Load Capacity Chart, K2



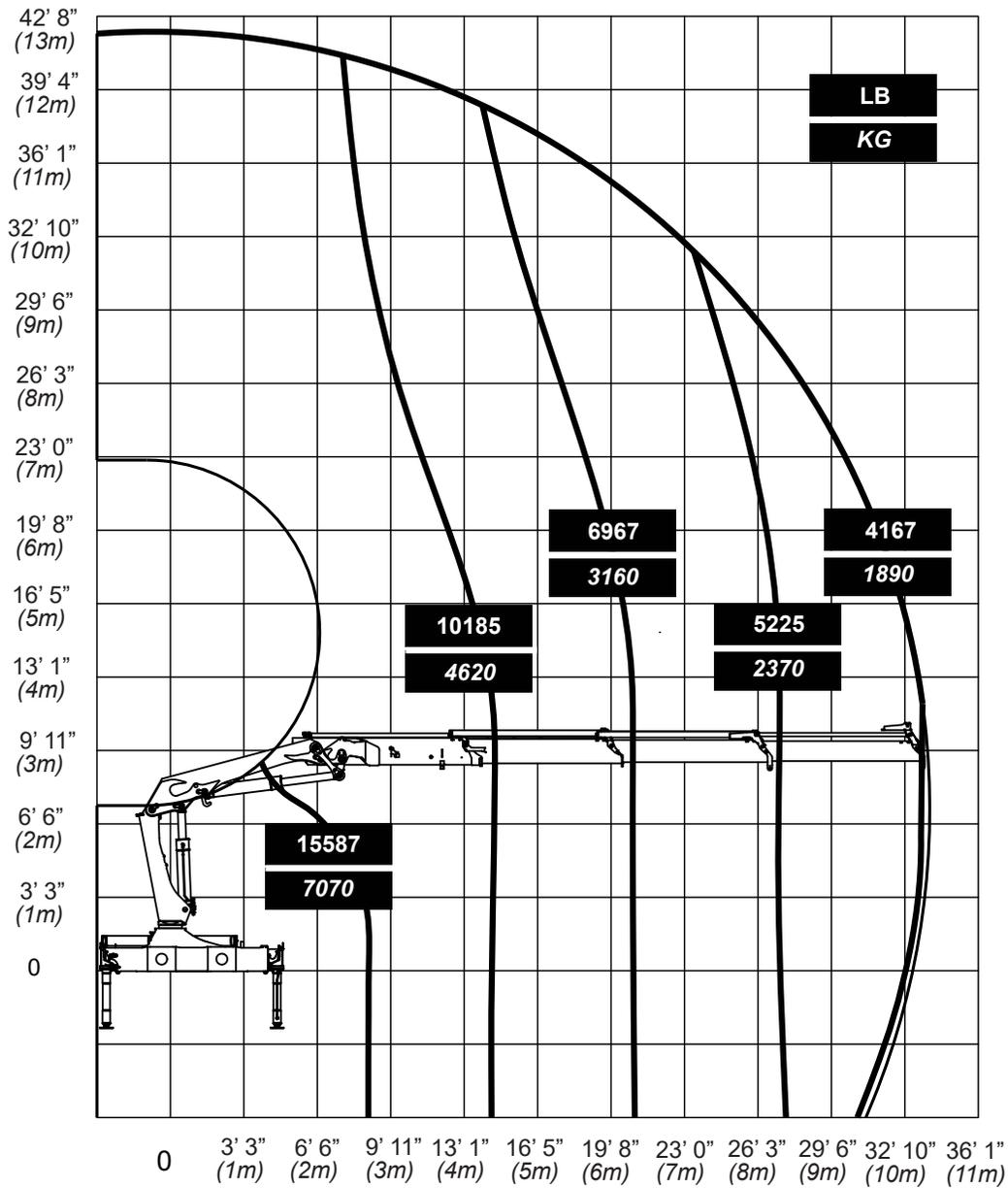
# 2320 RCS - Load Capacity Chart, K3

**IMT**  
MATERIAL HANDLING SYSTEMS

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

## Model 2320 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.*



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# 2320 RCS - Load Capacity Chart, K4

**IMT**

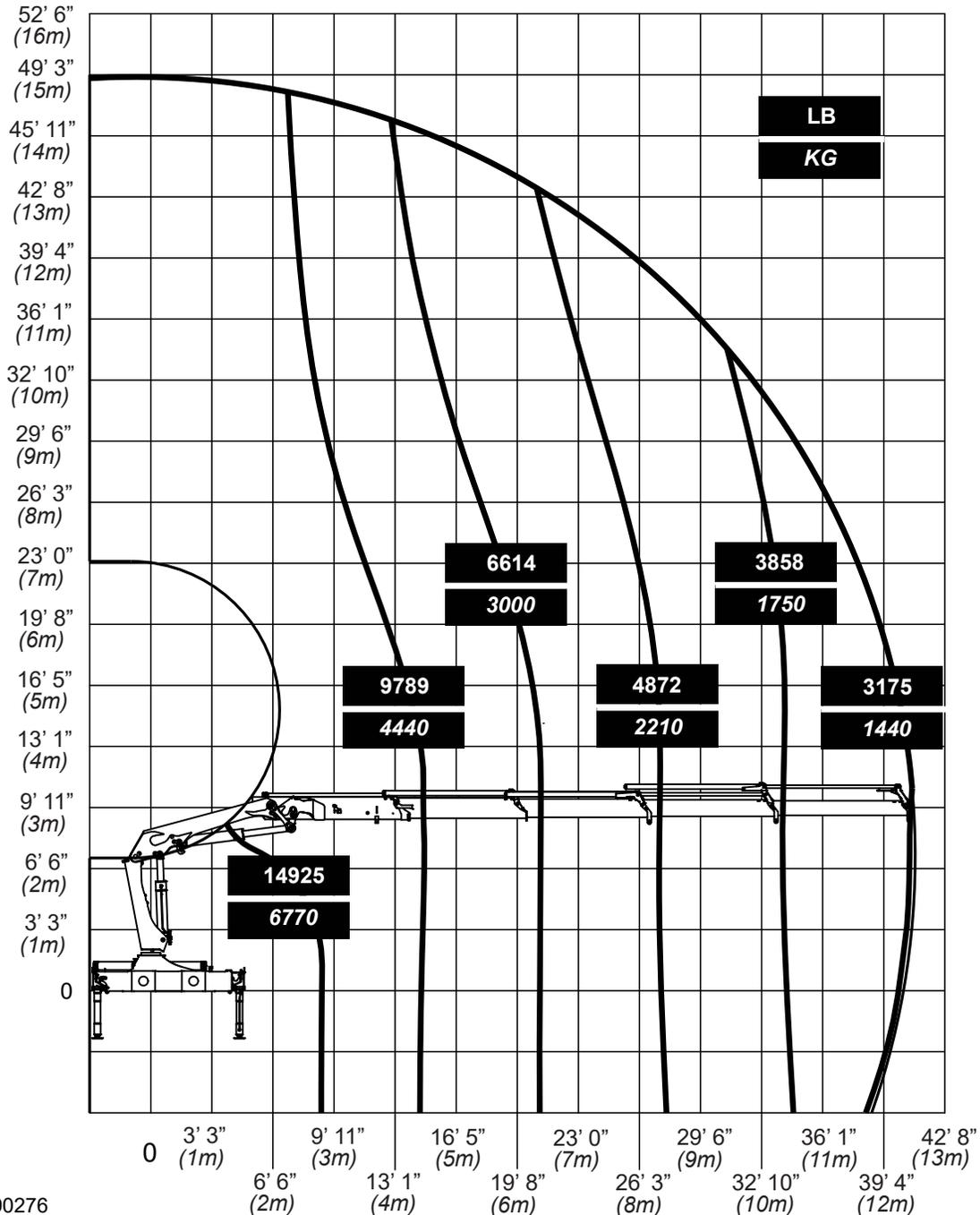
MATERIAL HANDLING SYSTEMS

**IOWA MOLD TOOLING CO., INC.**

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

## Model 2320 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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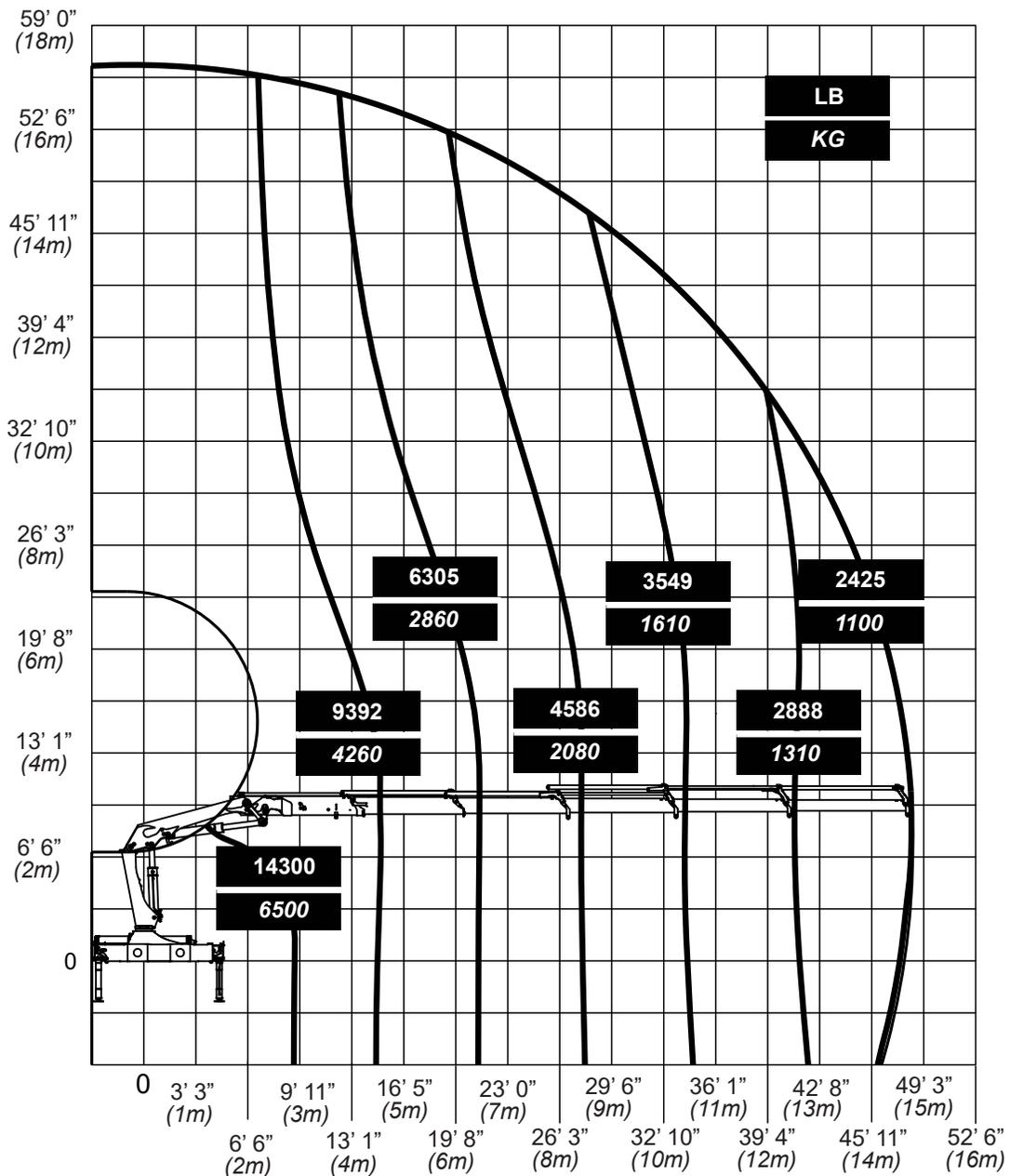
# 2320 RCS - Load Capacity Chart, K5

**IMT**  
MATERIAL HANDLING SYSTEMS

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Model  
2320 RCS K5

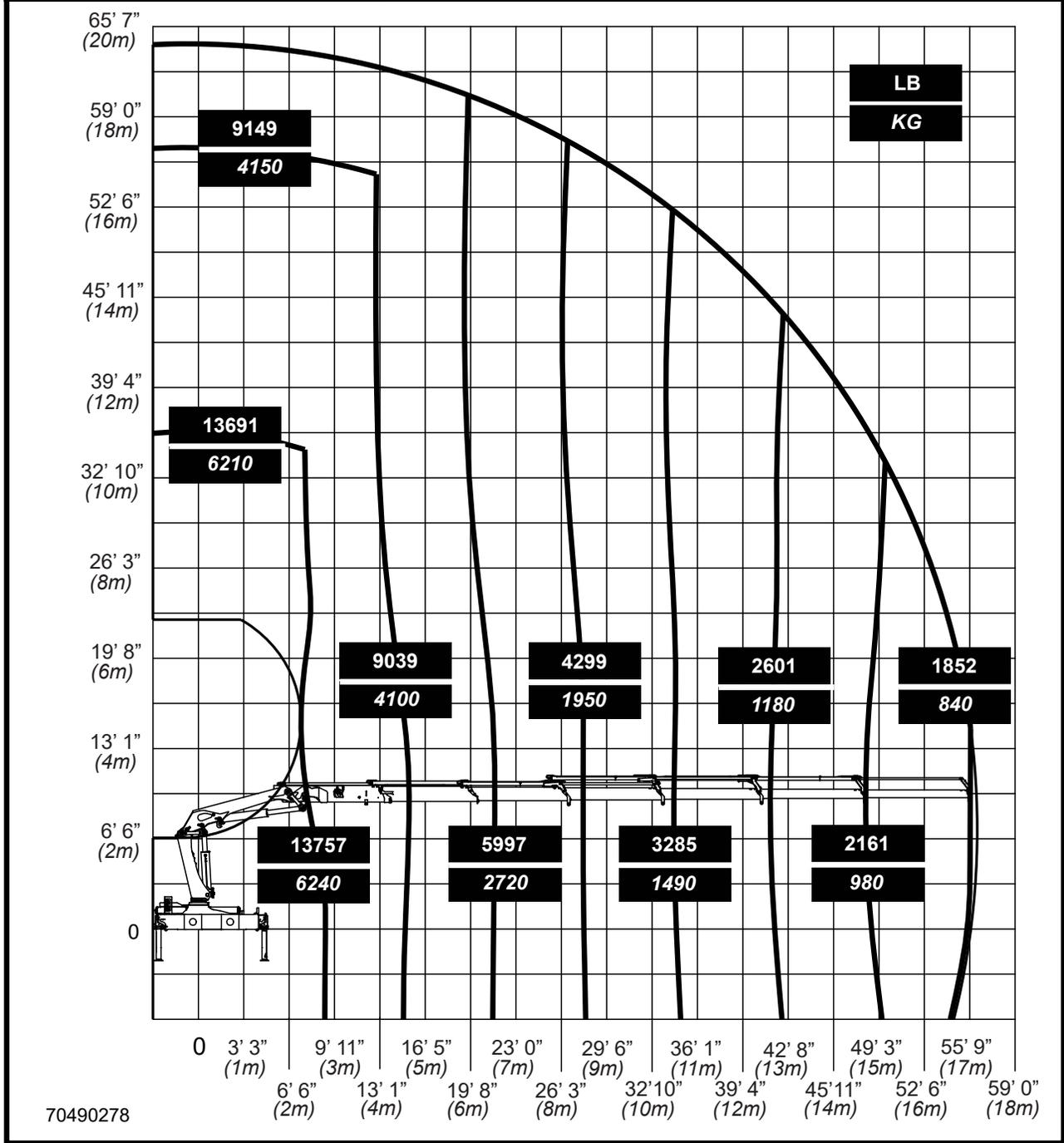
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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### 2320 RCS - Load Capacity Chart, K6

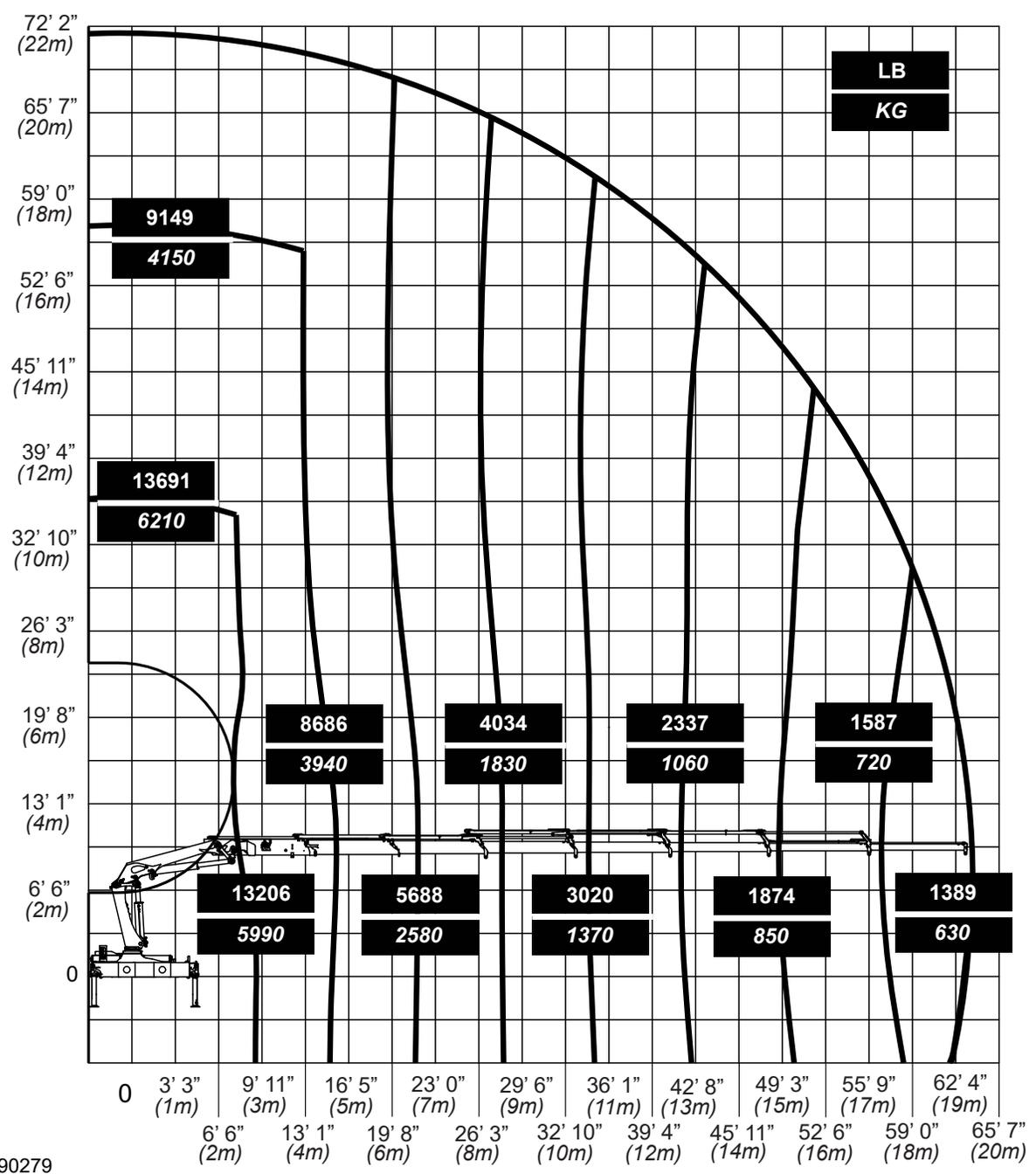
 <b>IMT</b> MATERIAL HANDLING SYSTEMS	<b>IOWA MOLD TOOLING CO., INC.</b> BOX 189 • GARNER • IA • 50438 • 641-923-3711
<h2>Model 2320 RCS K6</h2>	<ul style="list-style-type: none"> <li>● Limit working loads to those shown. Deduct the weight of load handling devices.</li> <li>● <i>El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.</i></li> </ul>



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### 2820 RCS - Load Capacity Chart, K7

<b>IMT</b> MATERIAL HANDLING SYSTEMS	<b>IOWA MOLD TOOLING CO., INC.</b> BOX 189 • GARNER • IA • 50438 • 641-923-3711
<b>Model</b> <b>2320 RCS K7</b>	<ul style="list-style-type: none"> <li>● Limit working loads to those shown. Deduct the weight of load handling devices.</li> <li>● <i>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.</i></li> </ul>



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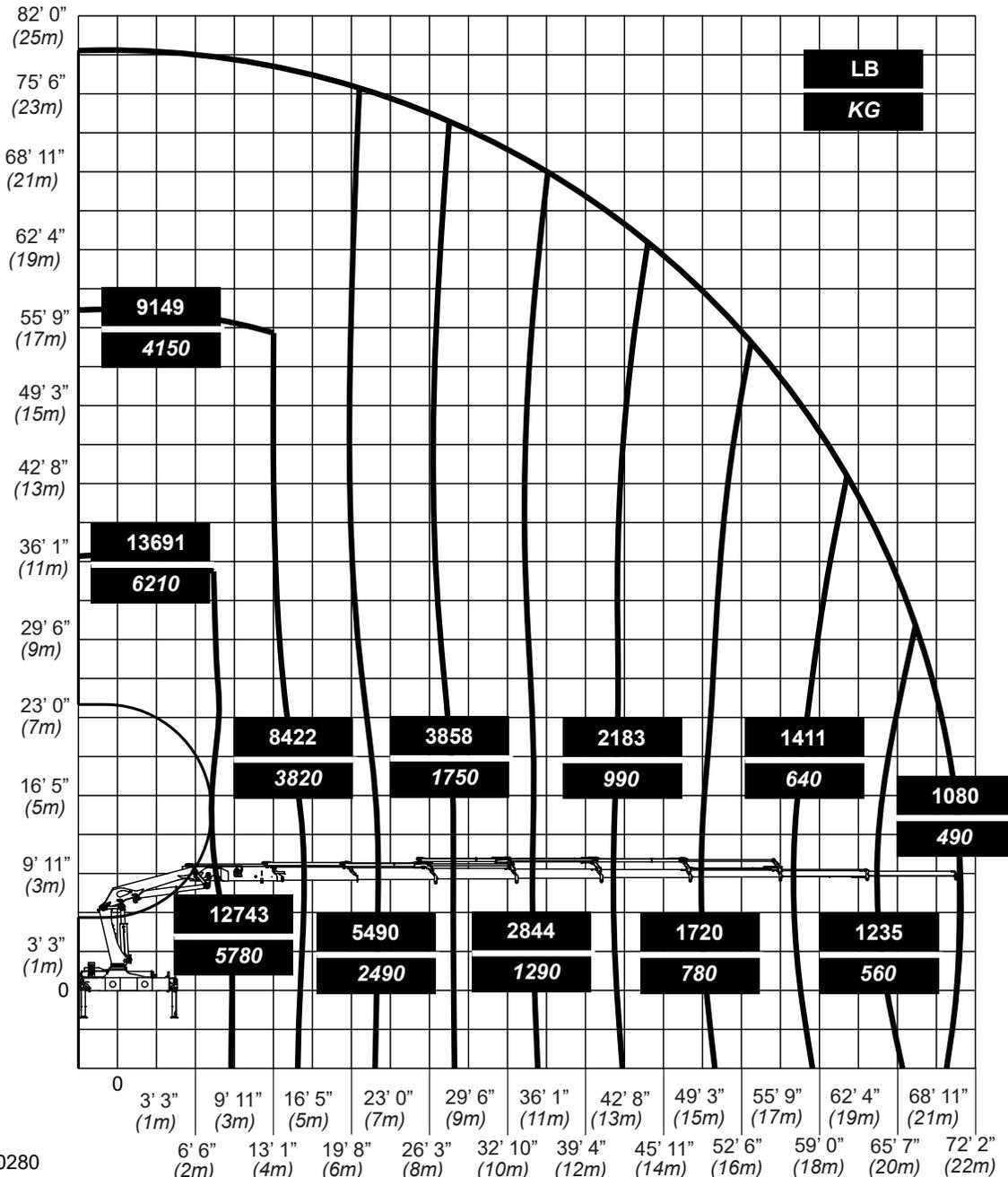
# 2320 RCS- Load Capacity Chart, K8

**IMT**  
MATERIAL HANDLING SYSTEMS

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

## Model 2320 RCS K8

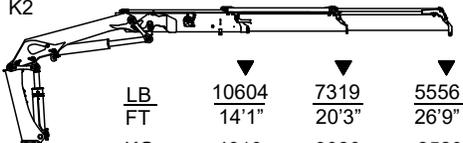
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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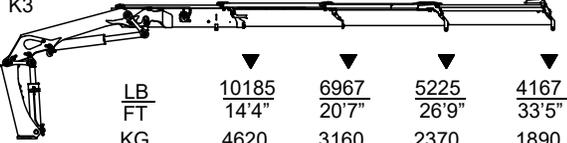
## 2320 RCS - Load Capacity Chart K2-K8

K2



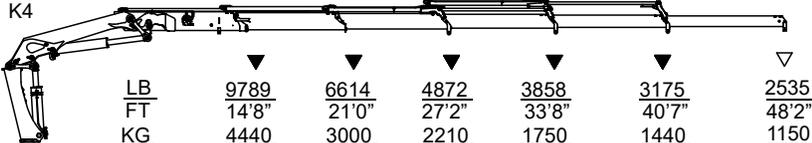
	▼	▼	▼
<u>LB</u>	<u>10604</u>	<u>7319</u>	<u>5556</u>
<u>FT</u>	<u>14'1"</u>	<u>20'3"</u>	<u>26'9"</u>
<u>KG</u>	<u>4810</u>	<u>3320</u>	<u>2520</u>
<u>M</u>	<u>4,3</u>	<u>6,2</u>	<u>8,2</u>

K3



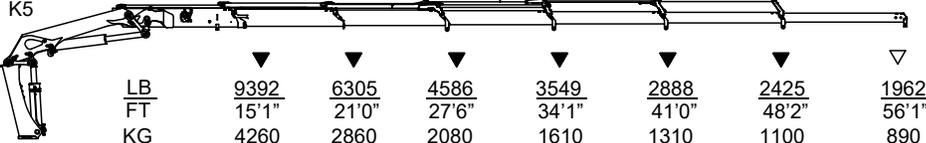
	▼	▼	▼	▼
<u>LB</u>	<u>10185</u>	<u>6967</u>	<u>5225</u>	<u>4167</u>
<u>FT</u>	<u>14'4"</u>	<u>20'7"</u>	<u>26'9"</u>	<u>33'5"</u>
<u>KG</u>	<u>4620</u>	<u>3160</u>	<u>2370</u>	<u>1890</u>
<u>M</u>	<u>4,4</u>	<u>6,3</u>	<u>8,2</u>	<u>10,2</u>

K4



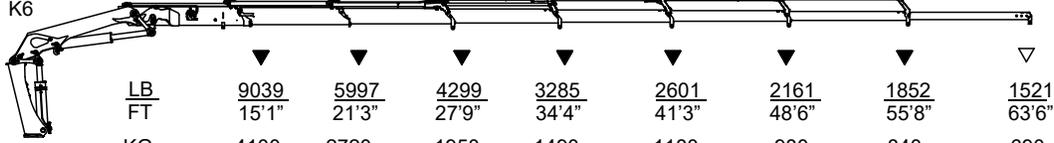
	▼	▼	▼	▼	▼	▽
<u>LB</u>	<u>9789</u>	<u>6614</u>	<u>4872</u>	<u>3858</u>	<u>3175</u>	<u>2535</u>
<u>FT</u>	<u>14'8"</u>	<u>21'0"</u>	<u>27'2"</u>	<u>33'8"</u>	<u>40'7"</u>	<u>48'2"</u>
<u>KG</u>	<u>4440</u>	<u>3000</u>	<u>2210</u>	<u>1750</u>	<u>1440</u>	<u>1150</u>
<u>M</u>	<u>4,5</u>	<u>6,4</u>	<u>8,3</u>	<u>10,3</u>	<u>12,4</u>	<u>14,7</u>

K5



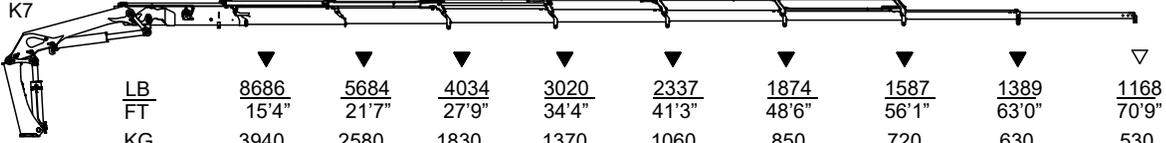
	▼	▼	▼	▼	▼	▼	▽
<u>LB</u>	<u>9392</u>	<u>6305</u>	<u>4586</u>	<u>3549</u>	<u>2888</u>	<u>2425</u>	<u>1962</u>
<u>FT</u>	<u>15'1"</u>	<u>21'0"</u>	<u>27'6"</u>	<u>34'1"</u>	<u>41'0"</u>	<u>48'2"</u>	<u>56'1"</u>
<u>KG</u>	<u>4260</u>	<u>2860</u>	<u>2080</u>	<u>1610</u>	<u>1310</u>	<u>1100</u>	<u>890</u>
<u>M</u>	<u>4,6</u>	<u>6,4</u>	<u>8,4</u>	<u>10,4</u>	<u>12,5</u>	<u>14,7</u>	<u>17,1</u>

K6



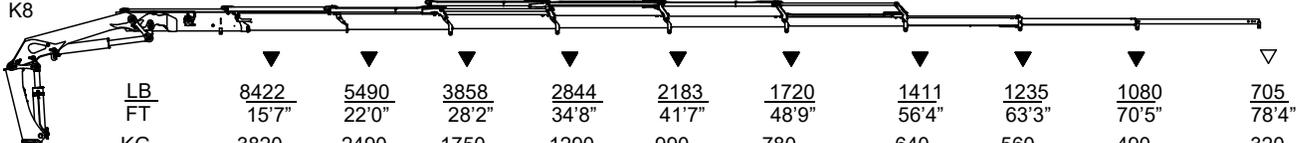
	▼	▼	▼	▼	▼	▼	▼	▽
<u>LB</u>	<u>9039</u>	<u>5997</u>	<u>4299</u>	<u>3285</u>	<u>2601</u>	<u>2161</u>	<u>1852</u>	<u>1521</u>
<u>FT</u>	<u>15'1"</u>	<u>21'3"</u>	<u>27'9"</u>	<u>34'4"</u>	<u>41'3"</u>	<u>48'6"</u>	<u>55'8"</u>	<u>63'6"</u>
<u>KG</u>	<u>4100</u>	<u>2720</u>	<u>1950</u>	<u>1490</u>	<u>1180</u>	<u>980</u>	<u>840</u>	<u>690</u>
<u>M</u>	<u>4,6</u>	<u>6,5</u>	<u>8,5</u>	<u>10,5</u>	<u>12,6</u>	<u>14,8</u>	<u>17,0</u>	<u>19,4</u>

K7



	▼	▼	▼	▼	▼	▼	▼	▼	▽
<u>LB</u>	<u>8686</u>	<u>5684</u>	<u>4034</u>	<u>3020</u>	<u>2337</u>	<u>1874</u>	<u>1587</u>	<u>1389</u>	<u>1168</u>
<u>FT</u>	<u>15'4"</u>	<u>21'7"</u>	<u>27'9"</u>	<u>34'4"</u>	<u>41'3"</u>	<u>48'6"</u>	<u>56'1"</u>	<u>63'0"</u>	<u>70'9"</u>
<u>KG</u>	<u>3940</u>	<u>2580</u>	<u>1830</u>	<u>1370</u>	<u>1060</u>	<u>850</u>	<u>720</u>	<u>630</u>	<u>530</u>
<u>M</u>	<u>4,7</u>	<u>6,6</u>	<u>8,5</u>	<u>10,5</u>	<u>12,6</u>	<u>14,8</u>	<u>17,1</u>	<u>19,2</u>	<u>21,6</u>

K8



	▼	▼	▼	▼	▼	▼	▼	▼	▼	▽
<u>LB</u>	<u>8422</u>	<u>5490</u>	<u>3858</u>	<u>2844</u>	<u>2183</u>	<u>1720</u>	<u>1411</u>	<u>1235</u>	<u>1080</u>	<u>705</u>
<u>FT</u>	<u>15'7"</u>	<u>22'0"</u>	<u>28'2"</u>	<u>34'8"</u>	<u>41'7"</u>	<u>48'9"</u>	<u>56'4"</u>	<u>63'3"</u>	<u>70'5"</u>	<u>78'4"</u>
<u>KG</u>	<u>3820</u>	<u>2490</u>	<u>1750</u>	<u>1290</u>	<u>990</u>	<u>780</u>	<u>640</u>	<u>560</u>	<u>490</u>	<u>320</u>
<u>M</u>	<u>4,8</u>	<u>6,7</u>	<u>8,6</u>	<u>10,6</u>	<u>12,7</u>	<u>14,9</u>	<u>17,2</u>	<u>19,3</u>	<u>21,5</u>	<u>23,9</u>

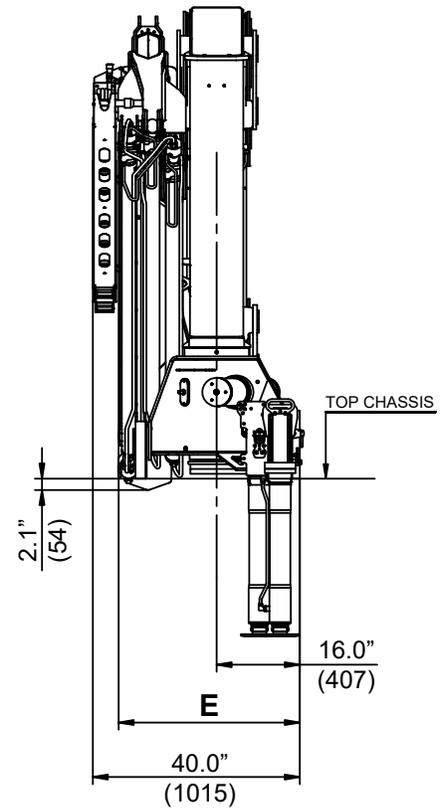
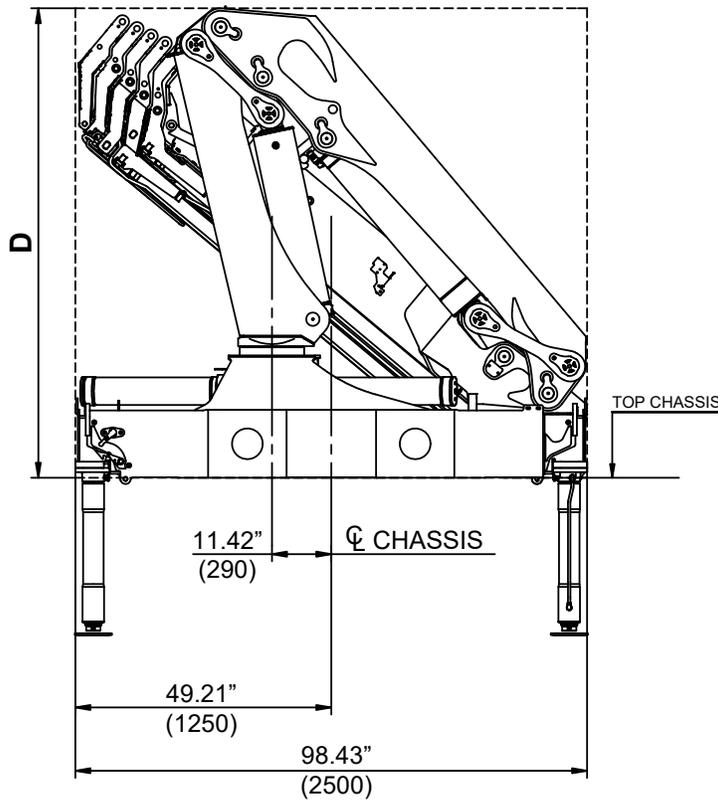
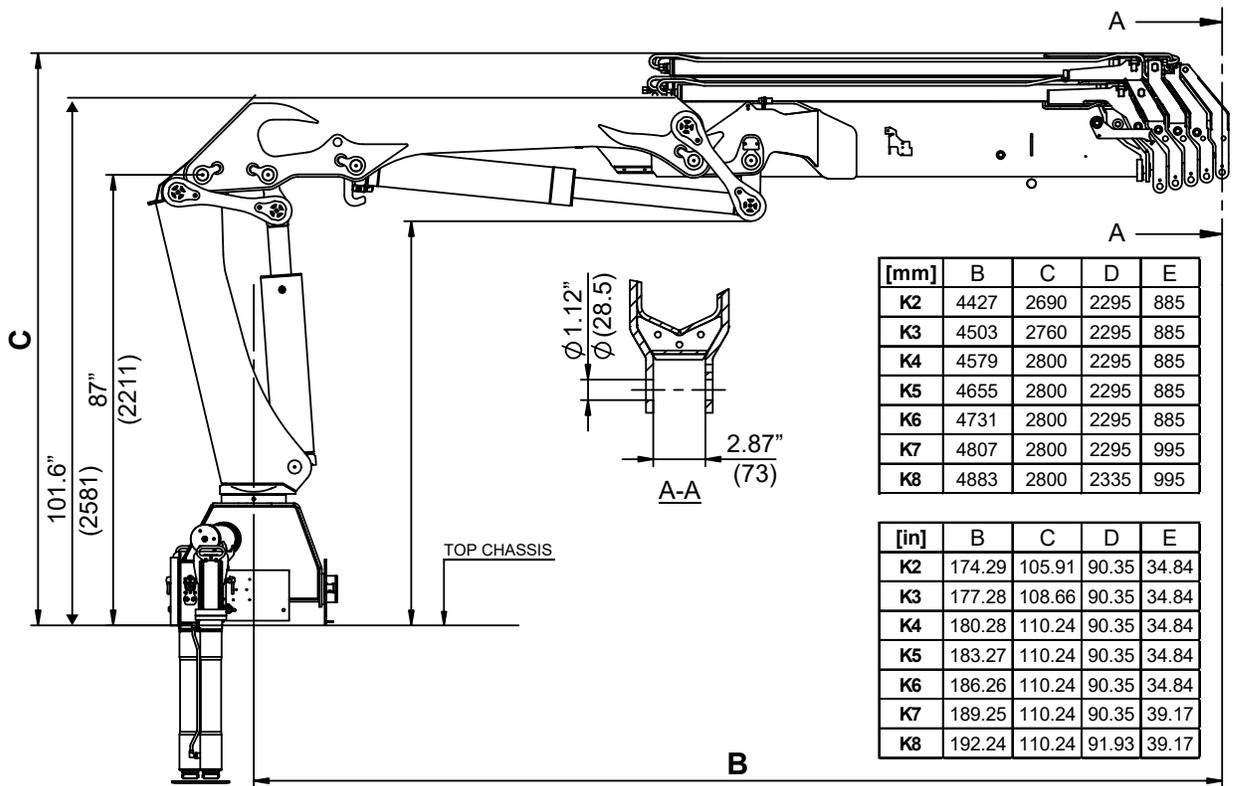
- ▽ WITH MANUAL EXTENSIONS
- ▼ WITHOUT MANUAL EXTENSIONS

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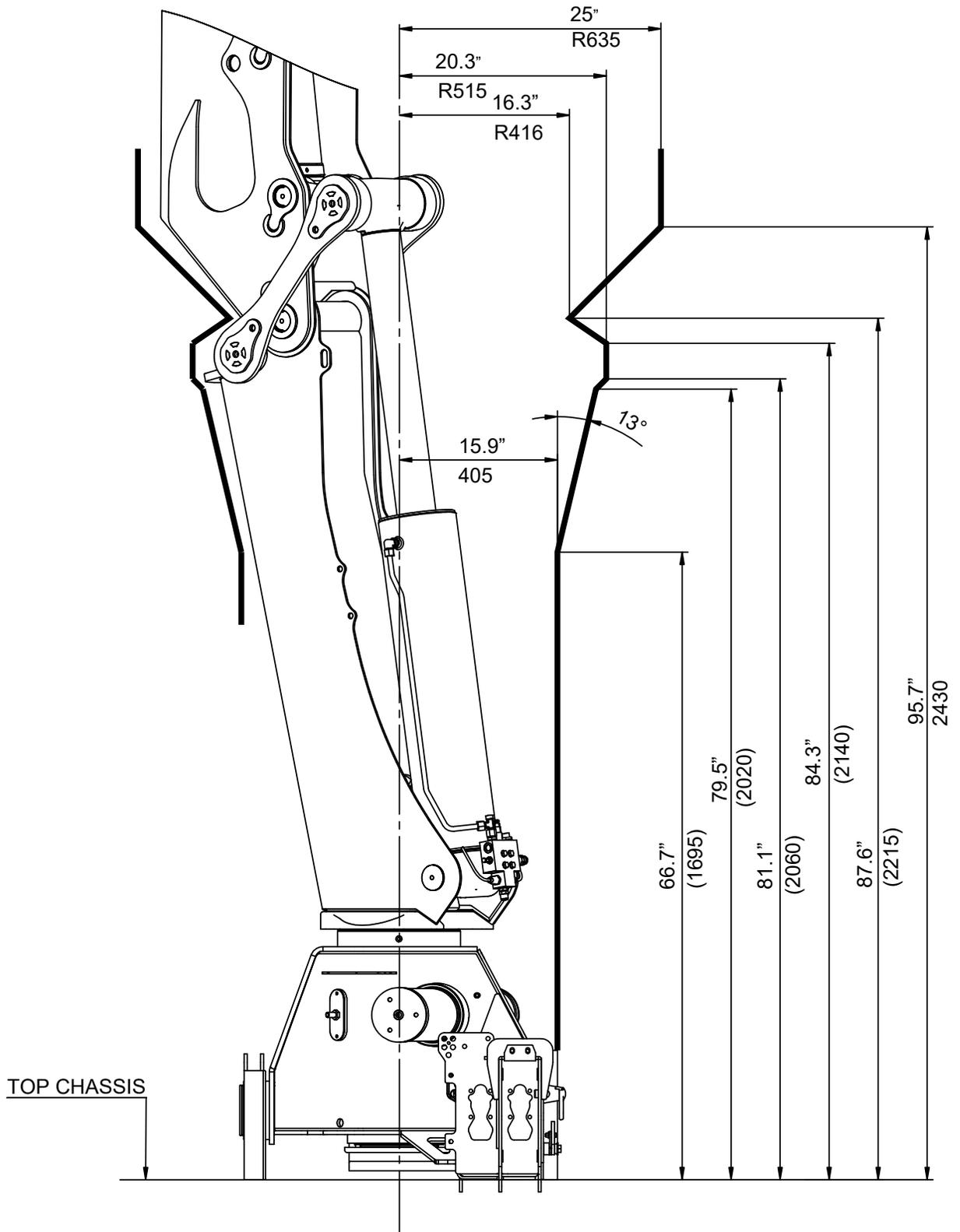
**2320 RCS Dimension Drawings**

**Section - 7**

### 2320 RCS - Dimension Sketch

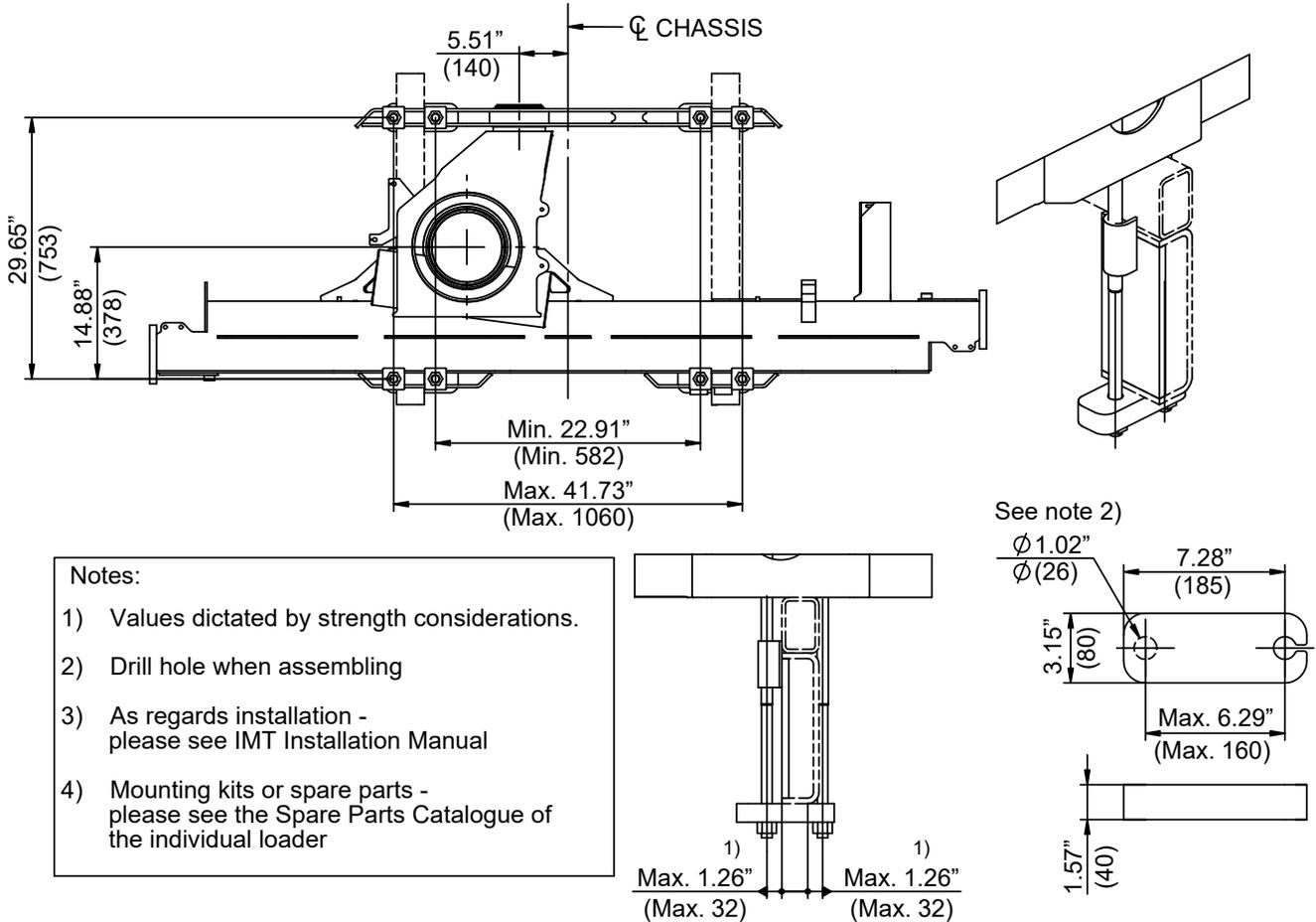


### 2320 RCS - Slewing Radius

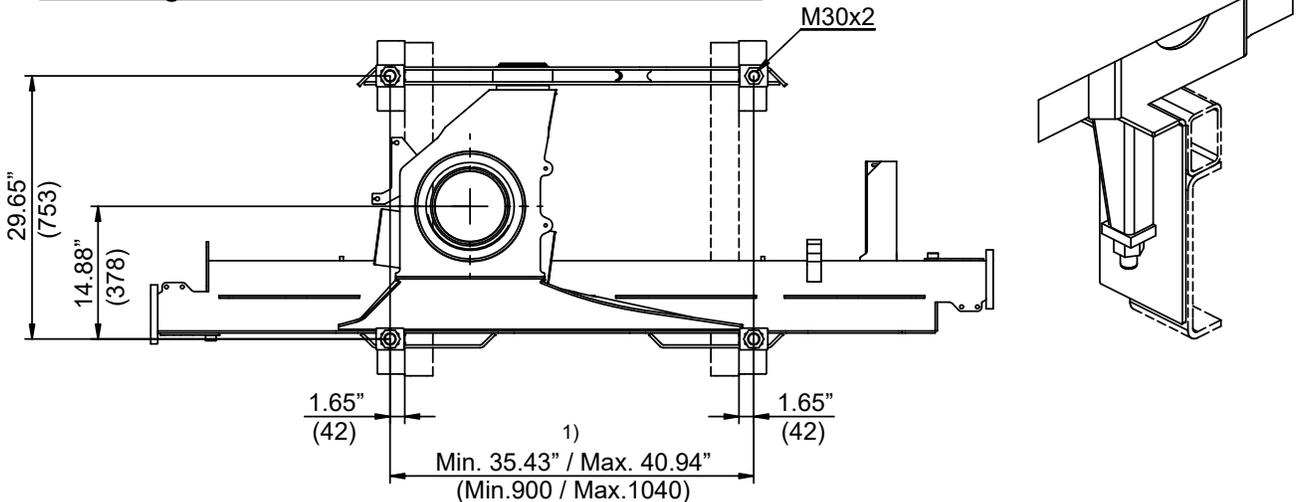


## 2320 RCS - Dimension sketch for truck-mounted loader

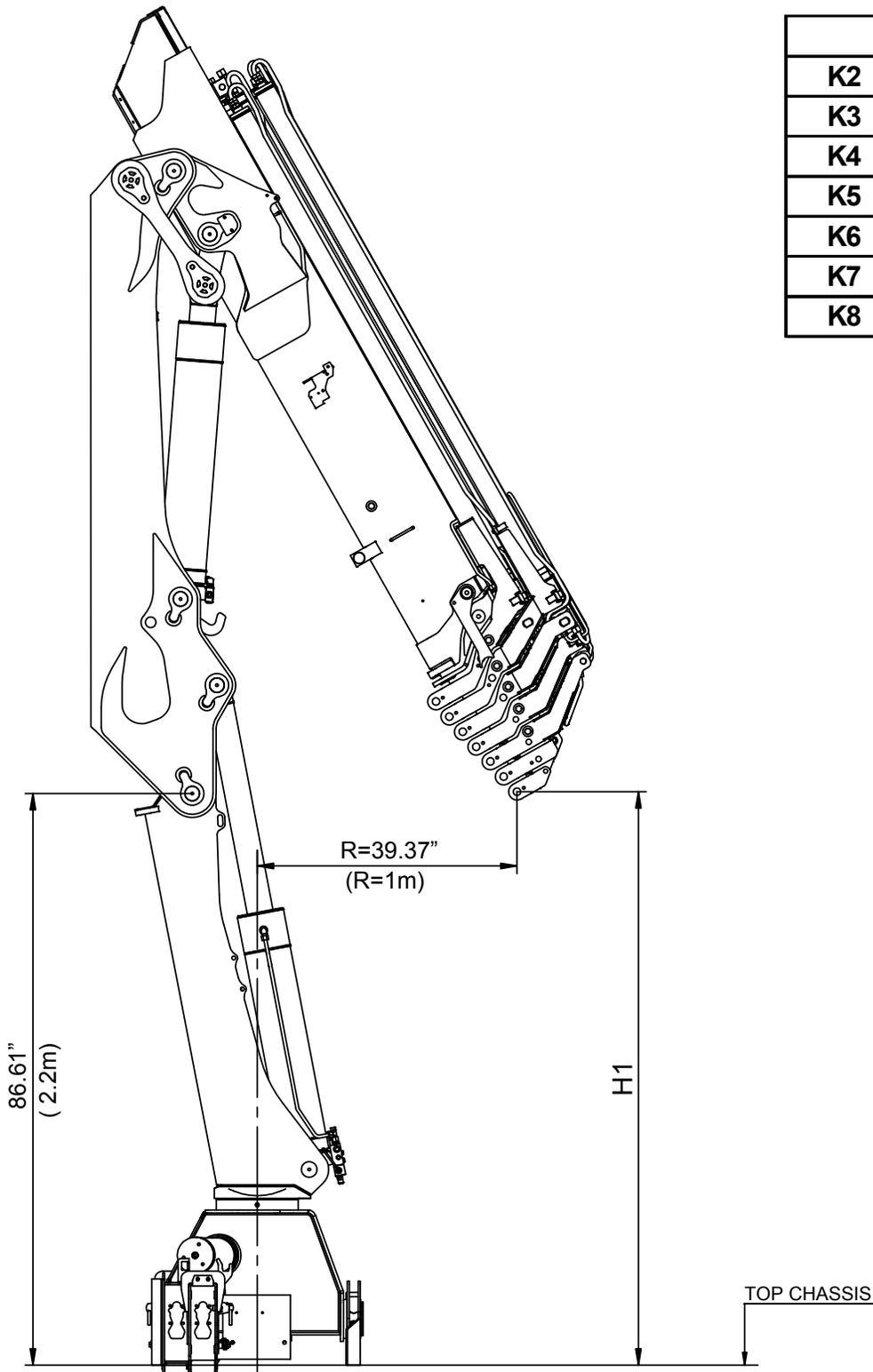
### Mounting kit 8 x M24x2 bolts



### Mounting kit 3 x M33x2 bolts + 1 x M30x2 bolts

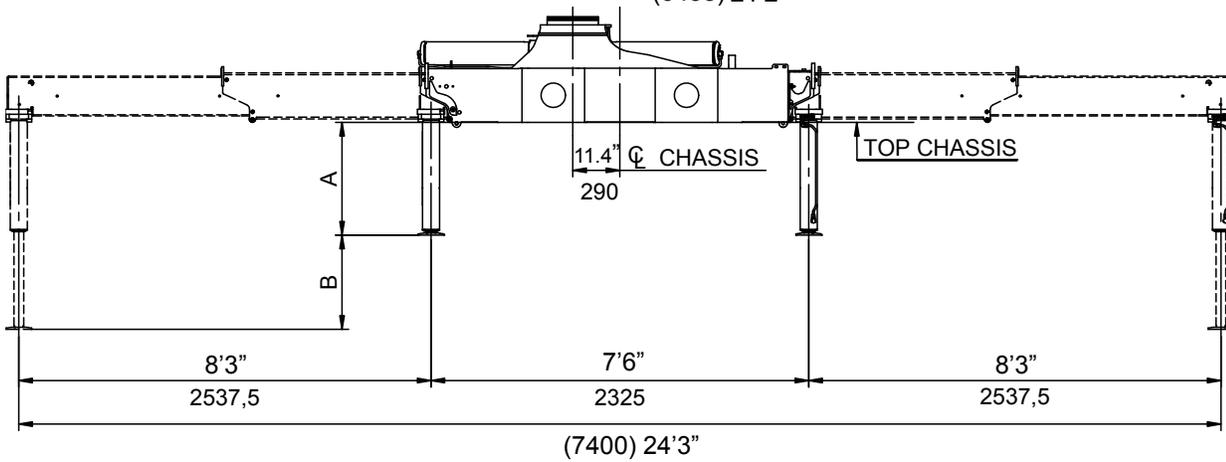
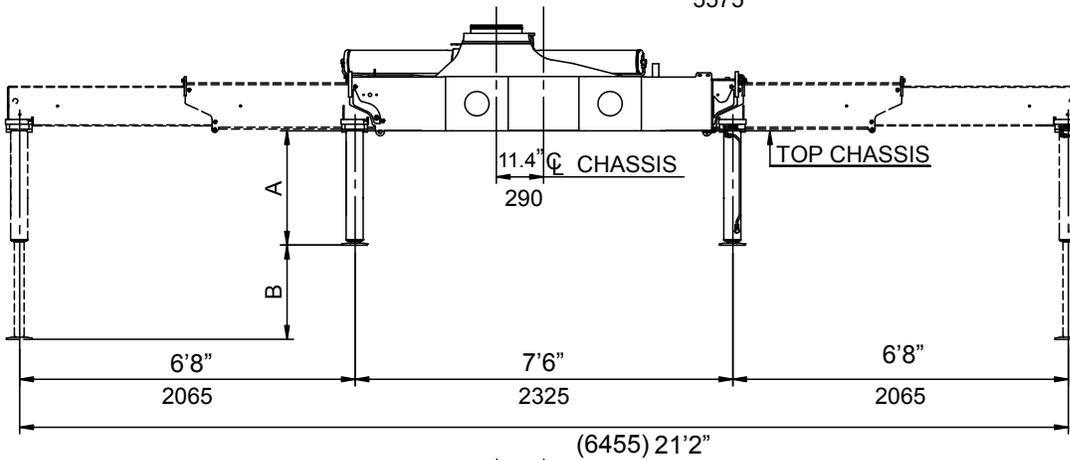
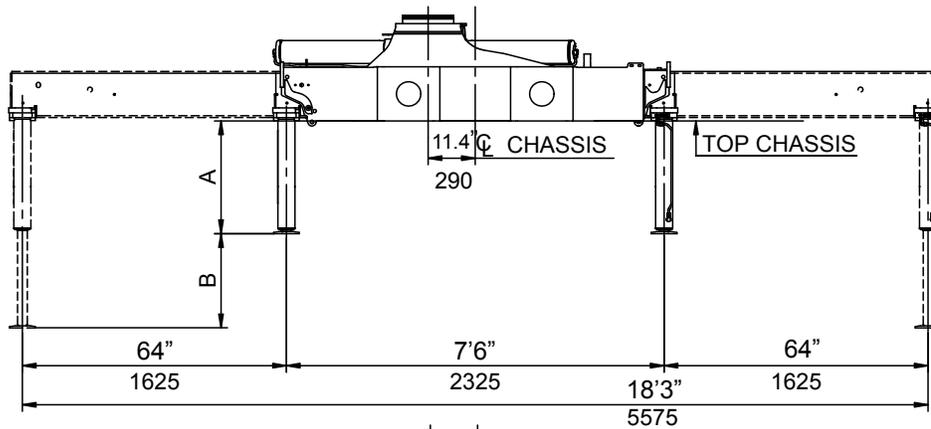


### 2320 RCS - Lifting height at column



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

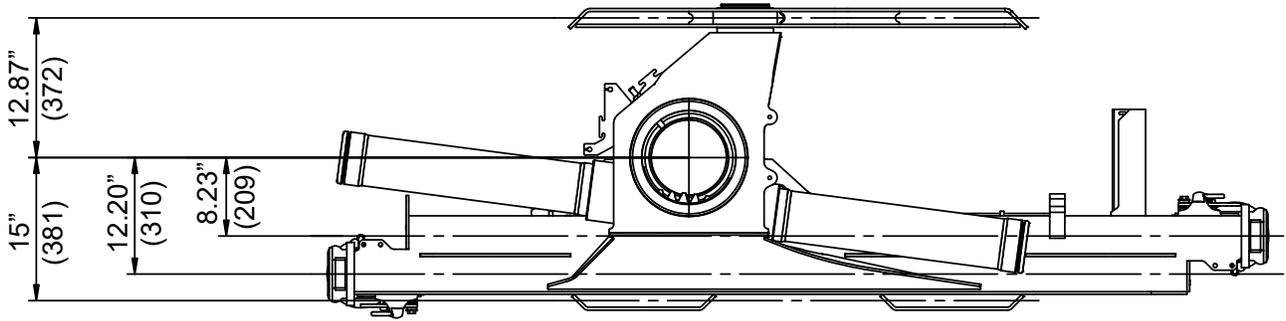
### 2320 RCS - Dimension sketch, fixed stabilizer legs



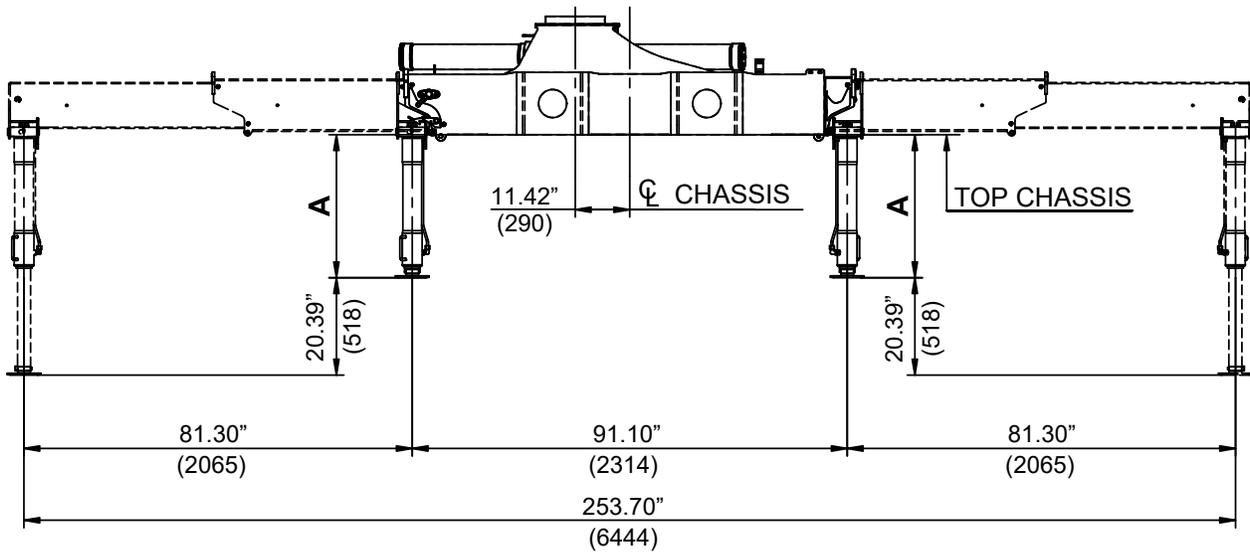
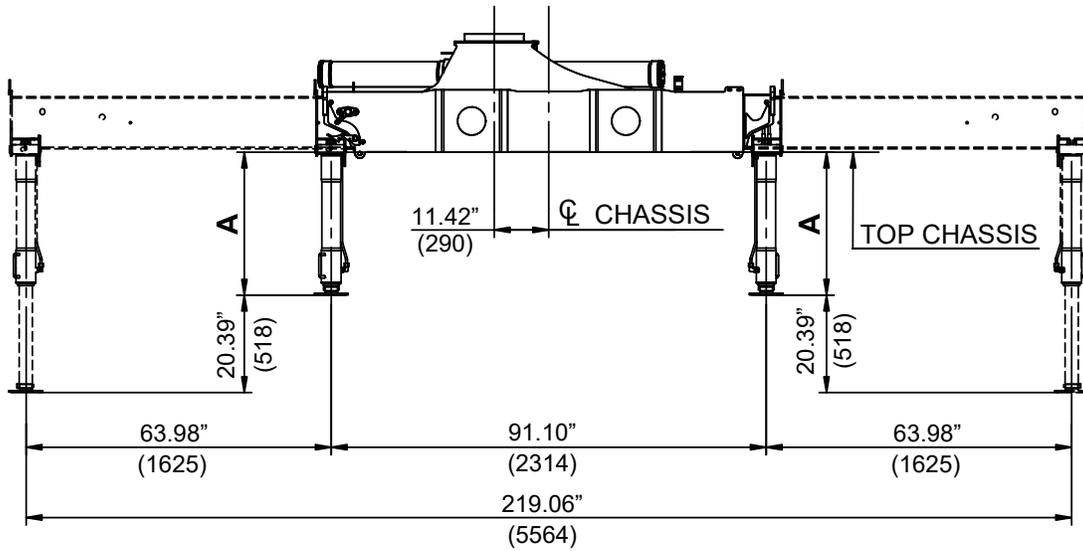
B			
580	A	695	762
680	A	795	862
580	A	27.4"	31.3"
680	A	30"	33.9"

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

### 2320 RCS - Dimension sketch, fixed stabilizer legs

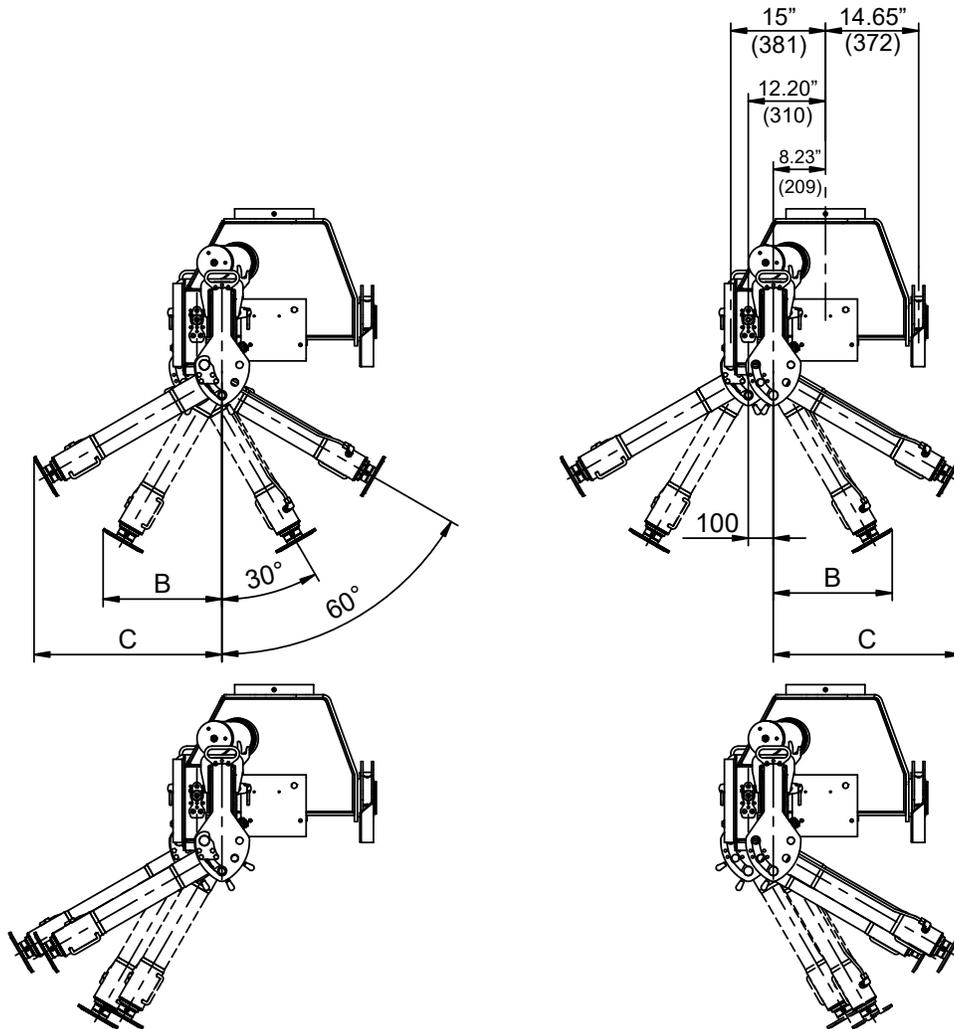


### 2320 RCS - Dimension sketch, swing-up stabilizer legs 30°- 60° (manual)



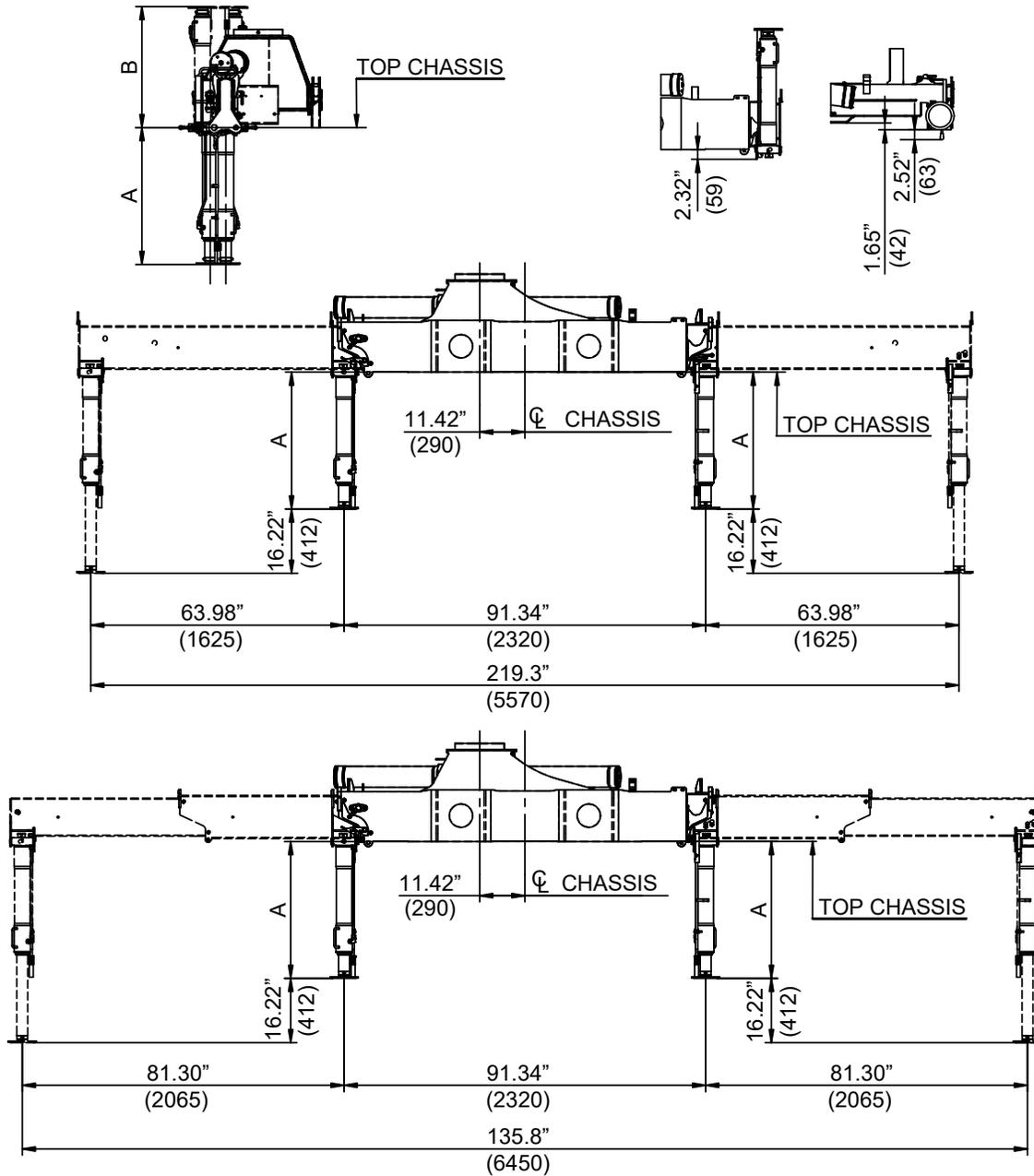
			
<b>A</b> Type R-60°	30.12"	34.06"	37.99"
<b>A</b> Type R-60°	765mm	865mm	965mm

**2320 RCS - Dimension sketch, swing-up stabilizer legs 30°- 60° (manual)**



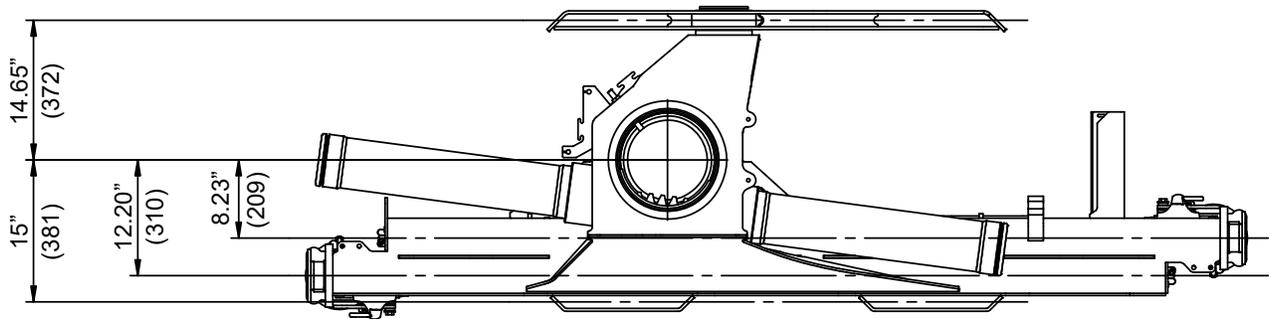
			
<b>B</b>	18.66"	20.63"	22.60"
<b>C</b>	29.53"	32.91"	36.34"
<b>B</b>	474mm	524mm	574mm
<b>C</b>	750mm	836mm	923mm

### 2320 RCS - Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)

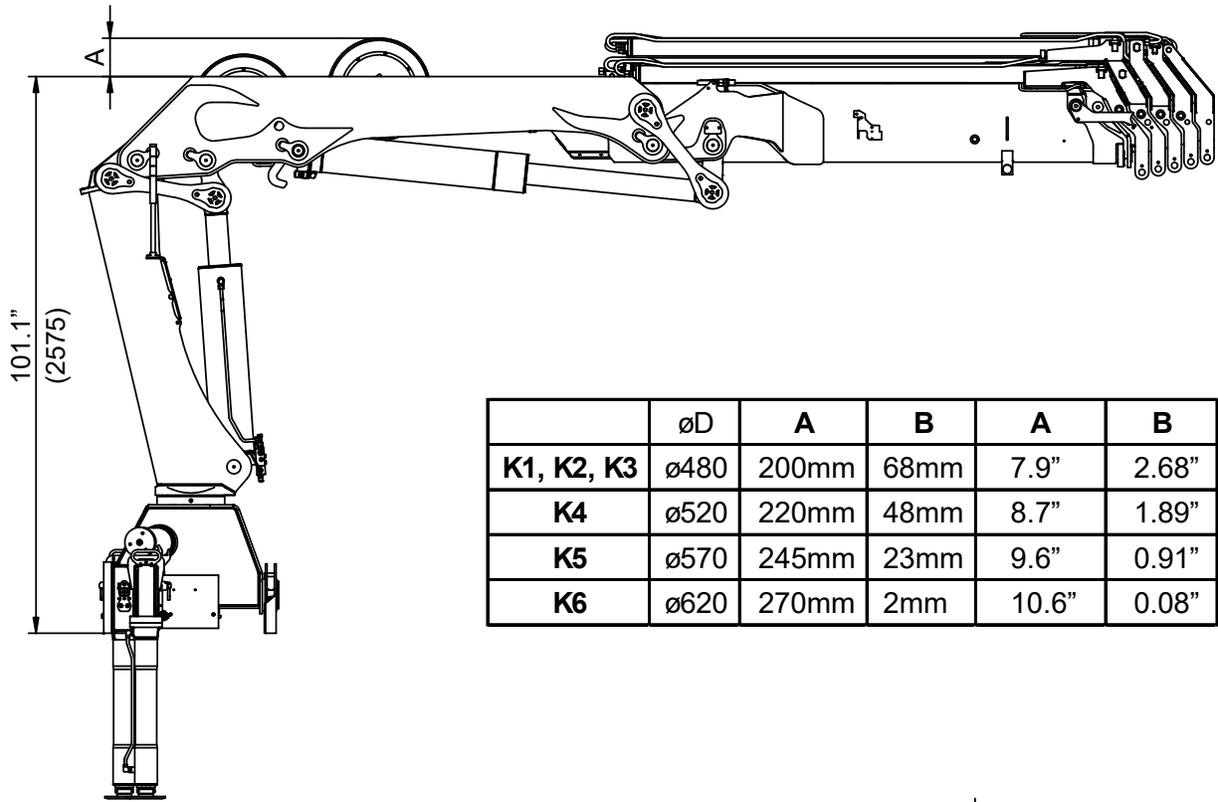


			
<b>A</b>	34.45"	38.39"	42.32"
<b>B</b>	30.75"	34.69"	38.62"
<b>A</b>	875mm	975mm	1075mm
<b>B</b>	781mm	881mm	981mm

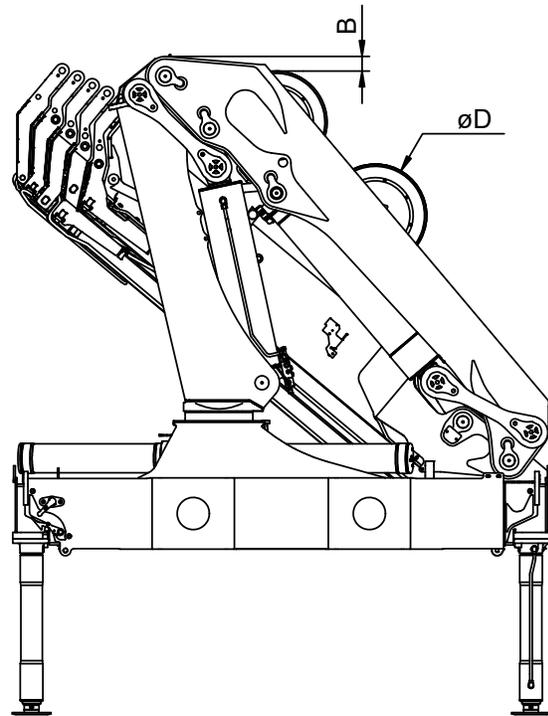
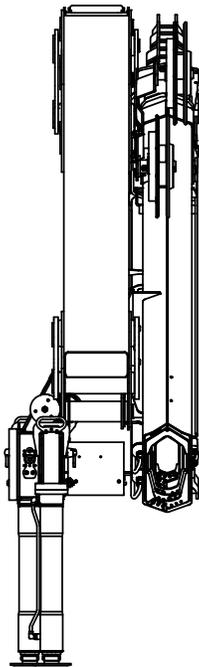
**2320 RCS - Dimension sketch, swing-up stabilizer legs 180° (manual + hydraulic)**



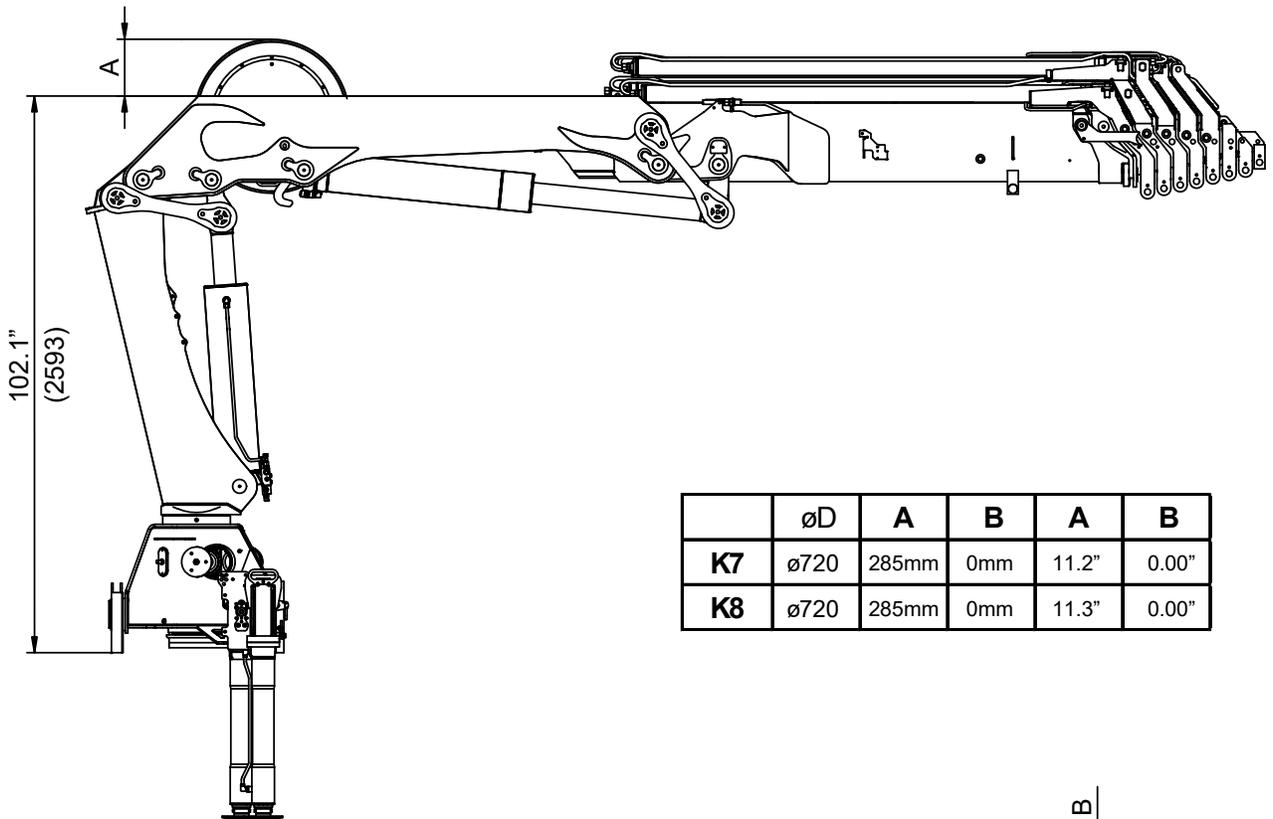
### 2320 RCS - Dimension sketch, internal hose routing



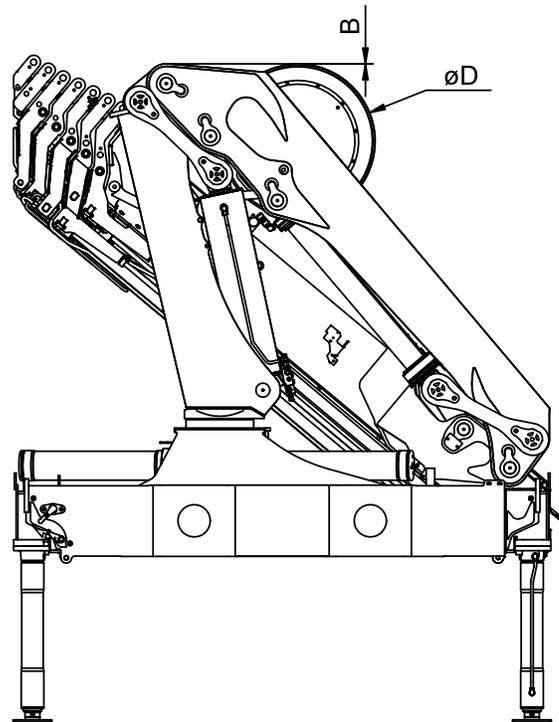
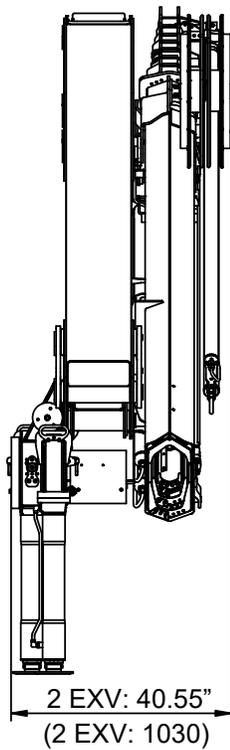
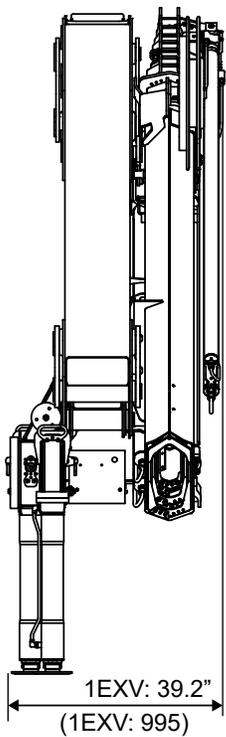
	øD	A	B	A	B
<b>K1, K2, K3</b>	ø480	200mm	68mm	7.9"	2.68"
<b>K4</b>	ø520	220mm	48mm	8.7"	1.89"
<b>K5</b>	ø570	245mm	23mm	9.6"	0.91"
<b>K6</b>	ø620	270mm	2mm	10.6"	0.08"



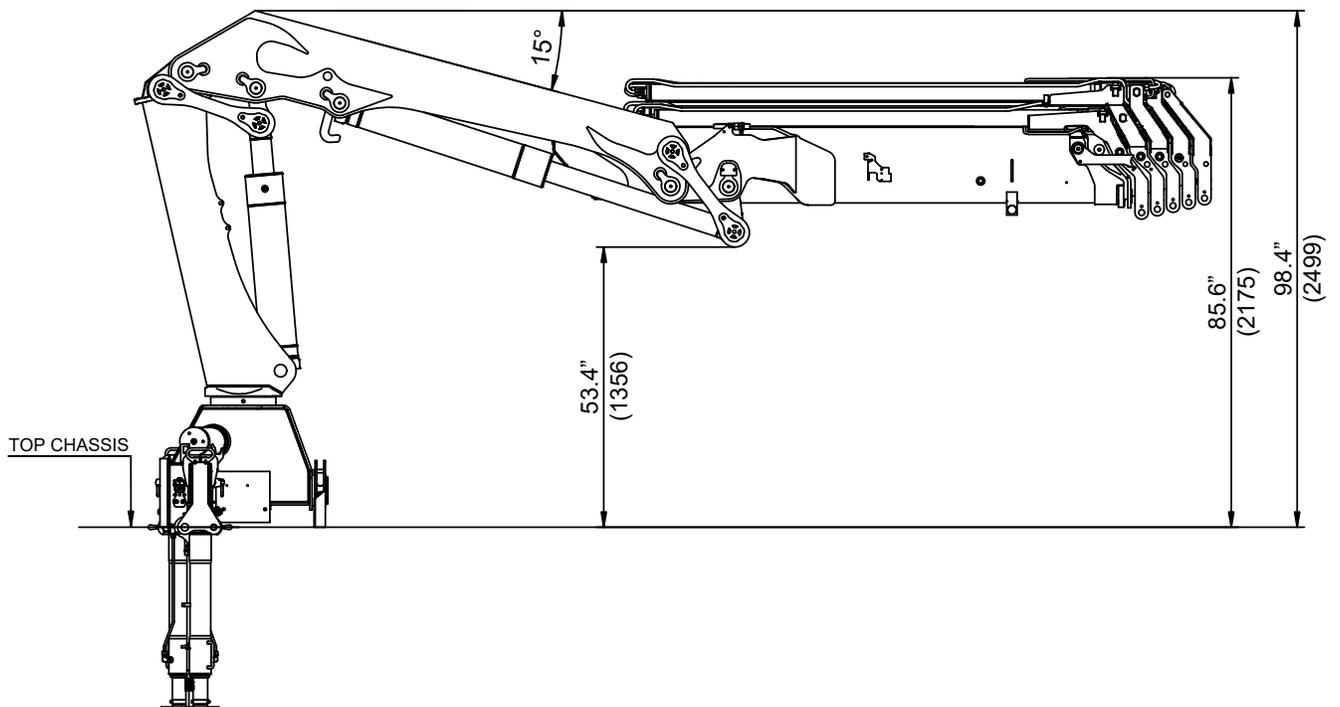
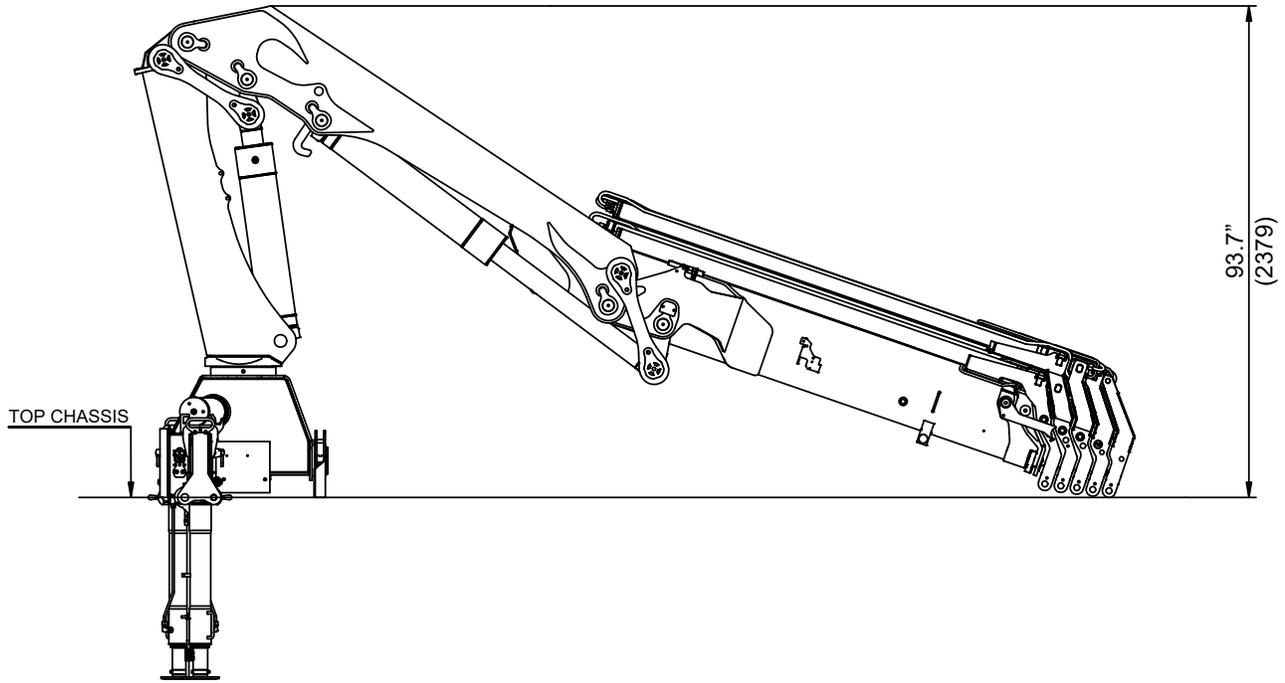
### 2320 RCS - Dimension sketch, extra valves K7, K8



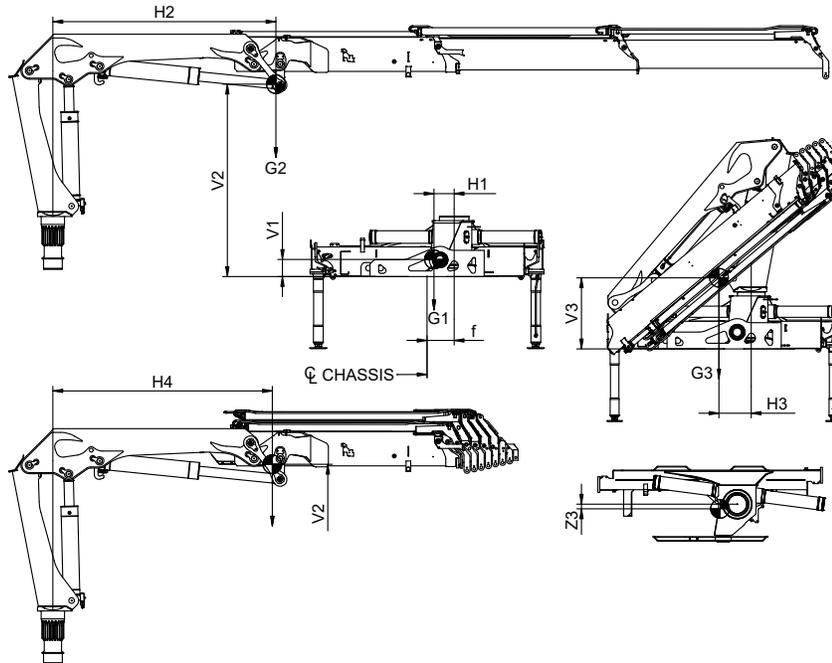
	$\phi D$	A	B	A	B
<b>K7</b>	$\phi 720$	285mm	0mm	11.2"	0.00"
<b>K8</b>	$\phi 720$	285mm	0mm	11.3"	0.00"



### 2320 RCS - Stowed in truck body



### 2320 RCS - Center of Gravity



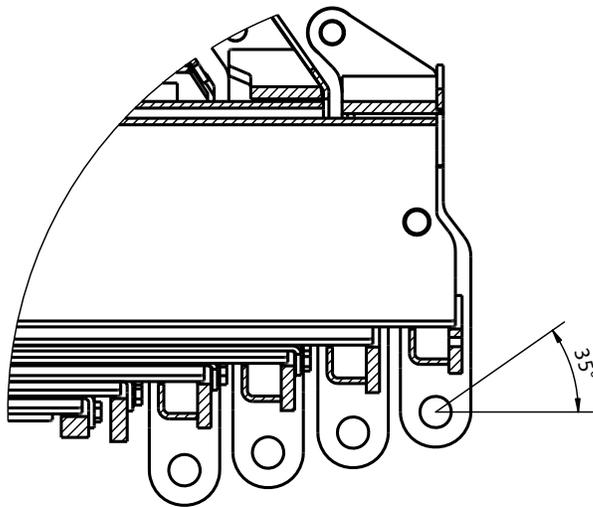
	mm								kg			
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	190	2055	795	135	2250	325	1610	25	290	895	1325	2230
K3	190	2100	820	135	2925	315	1780	45	290	895	1475	2370
K4	190	2130	840	135	3665	305	1925	60	290	895	1625	2520
K5	190	2160	855	135	4390	290	2045	80	290	895	1765	2660
K6	190	2180	870	135	5105	275	2140	90	290	895	1895	2790
K7	190	2195	890	135	5865	265	2230	105	290	895	2025	2920
K8	190	2205	910	135	6360	255	2285	115	290	895	2100	2995
	IN								LB			
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
K2	7.5	80.9"	31.3"	5.3"	88.6"	12.8"	63.4"	1"	11.4"	35.2"	51.2"	87.8"
K3	7.5	82.7"	32.3"	5.3"	115.2"	12.4"	70.1"	1.8"	11.4"	35.2"	58.1"	93.3"
K4	7.5	83.9"	33.1"	5.3"	144.3"	12"	75.8"	2.4"	11.4"	35.2"	64"	99.2"
K5	7.5	85"	33.7"	5.3"	172.8"	11.4"	80.5"	3.1"	11.4"	35.2"	69.5"	104.7"
K6	7.5	85.8"	34.3"	5.3"	201.0"	10.8"	84.3"	3.5"	11.4"	35.2"	74.6"	109.8"
K7	7.5	86.4"	35"	5.3"	230.9"	10.4"	87.8"	4.1"	11.4"	35.2"	79.7"	115"
K8	7.5	86.8"	35.8"	5.3"	250.4"	10.4"	90"	4.5"	11.4"	35.2"	82.7"	117.9"

## 2320 RCS - Dimension Sketch for Connecting Links

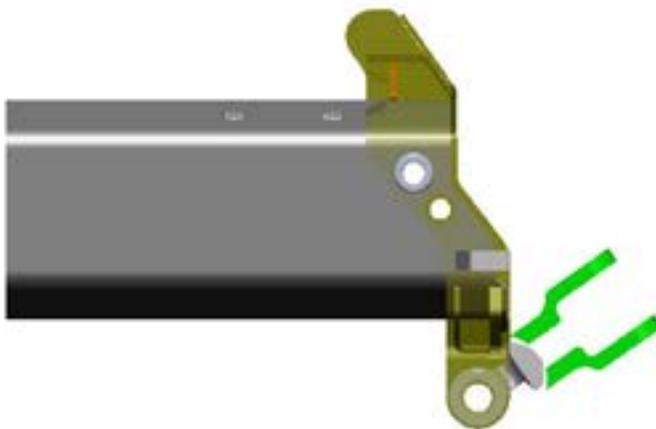
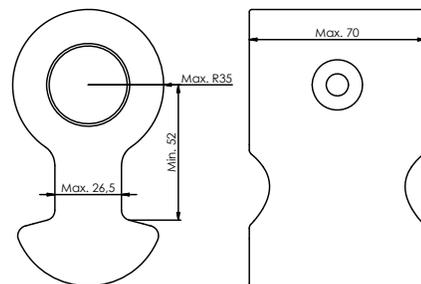
### Manufacturing of connecting links for crane equipment:

The following design considerations are recommended to ensure that the connecting link can swing sufficiently when using the equipment connected and when stowing in truck body and / or folding.

In general, we recommend that the connecting link can move freely in an angle of minimum 35° 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.



Recommended dimensions for connecting link



**2320 RCS 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	2611
	Left	B	P	180	P	2611
Boom cylinder	Down	A	125	100	1830	1450
	Up	B	380	365	5511	5294
Jib cylinder	Up	A	380	365	5511	5294
	Down	B	250	200	3626	3626
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 Variable	1 x Variable
Pump performance	70L/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	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]

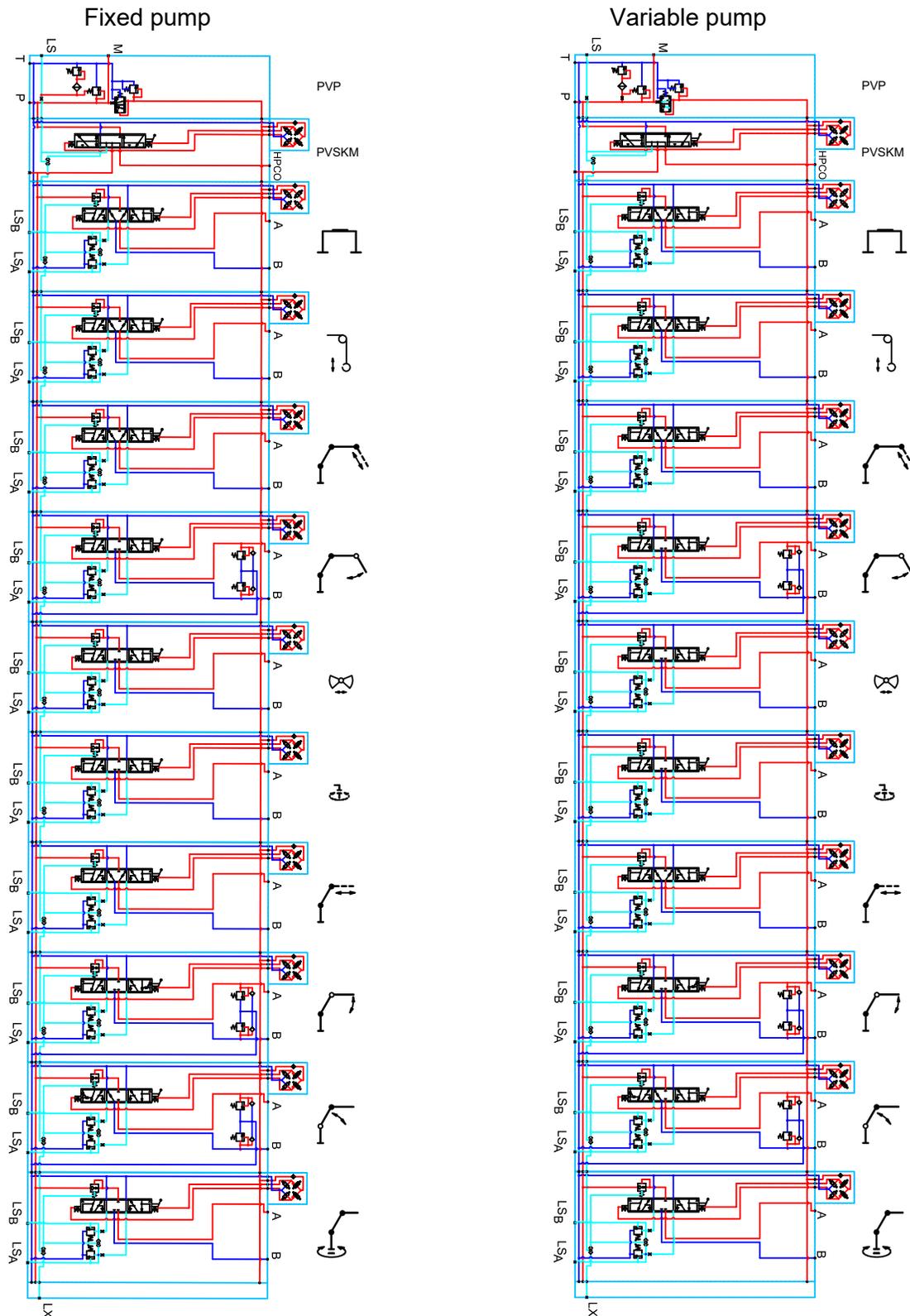
Max. pump performance		
Choice of pump	1 x Variable	1 x Variable
Pump performance	100 L/min	26.4 gpm

IMT reserves the right to introduce improvements and modifications

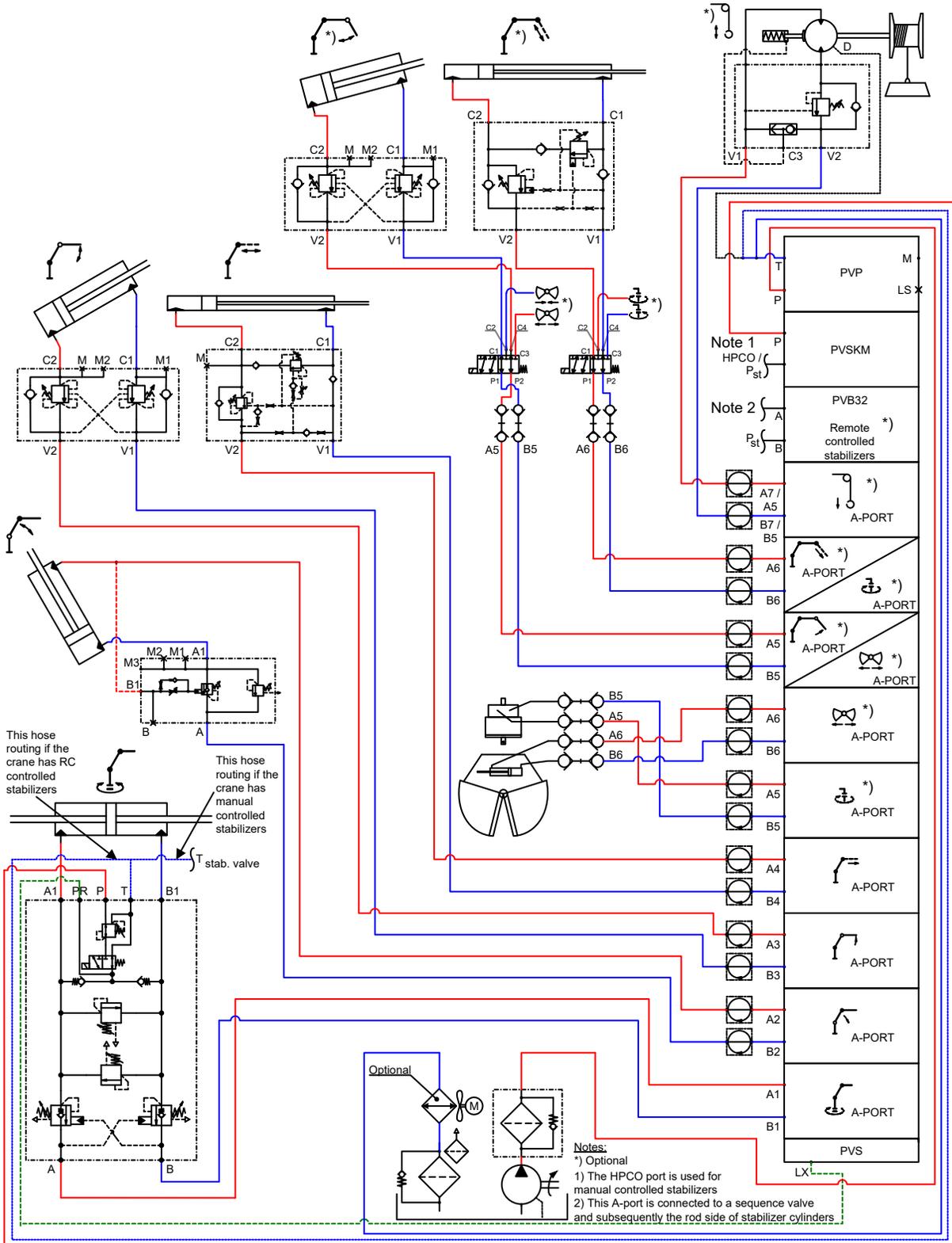
## Pressure setting diagram, Fly-Jib 700

Working Pressure for Fly-Jib 2320K - rcs					
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)				310	4496

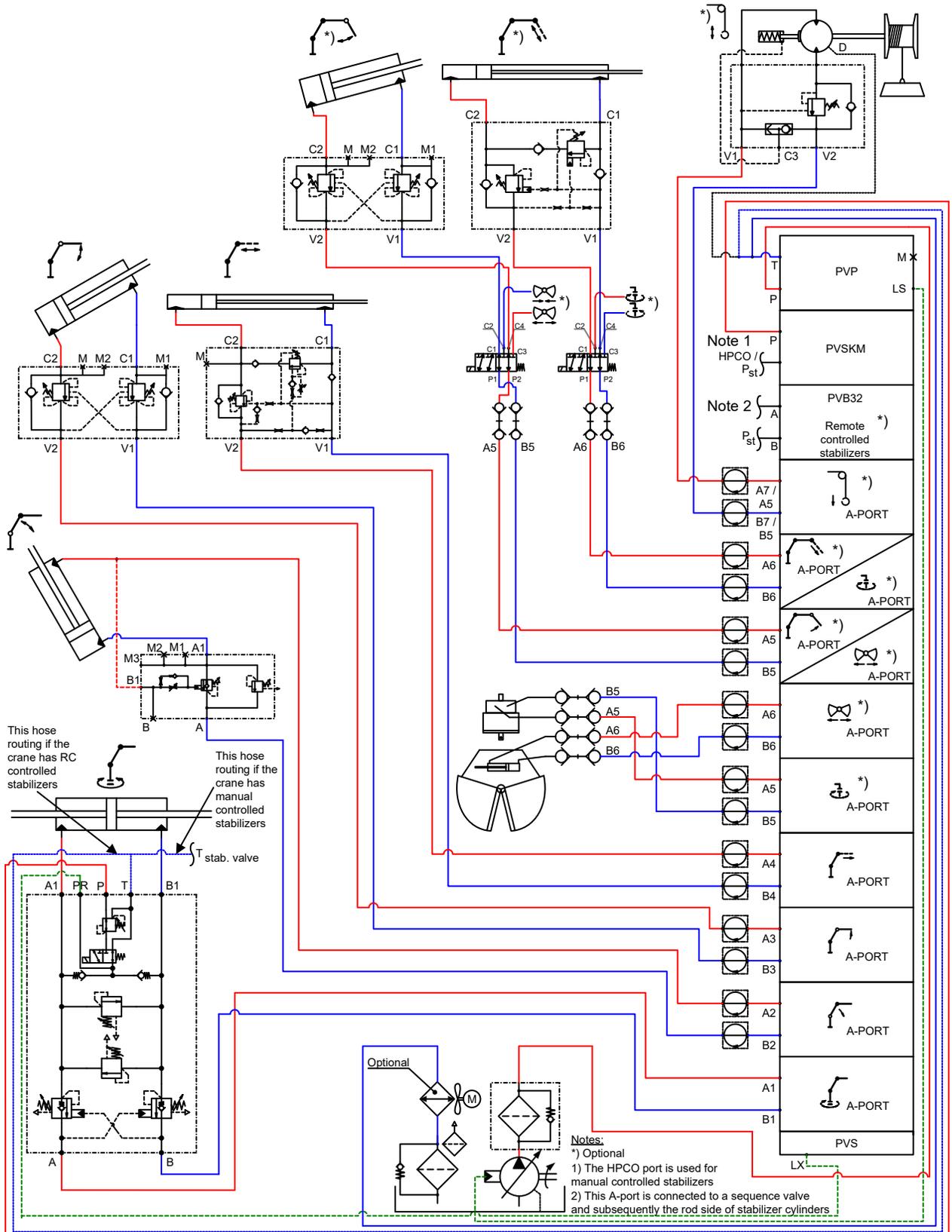
# Hydraulic Diagram PVG32 - Crane functions, control valve fixed and variable flow pump



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

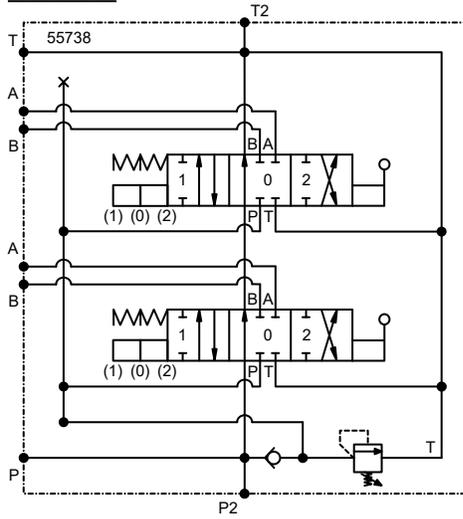


# Hydraulic Diagram – Danfoss PVG32, single-circuit variable 7 fcts. RC (3 EXV: FJ + 2 EXV, winch)

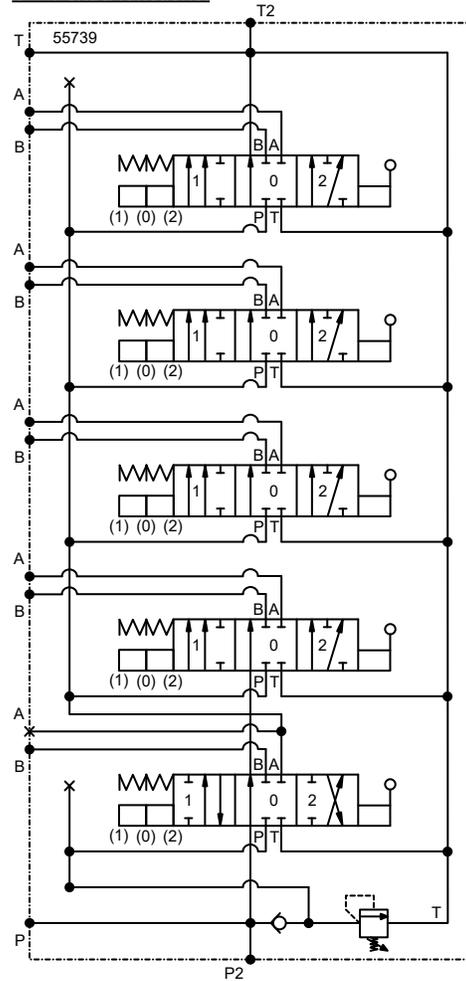


# Hydraulic Diagram - Stabilizer circuit – Overview

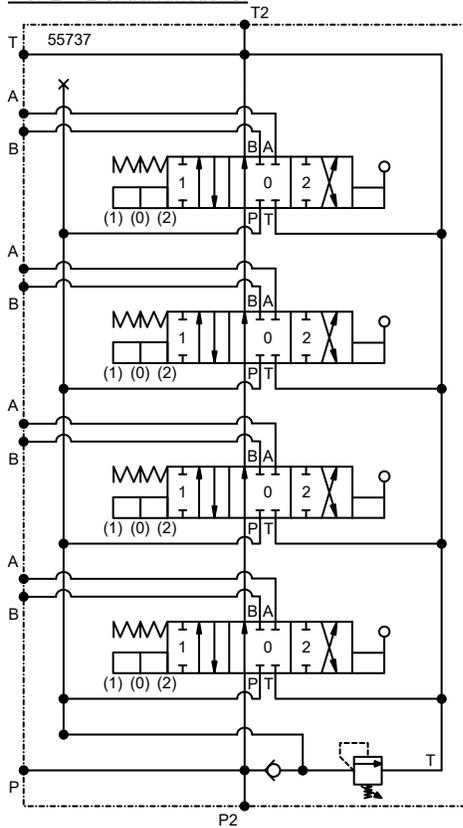
2 functions:



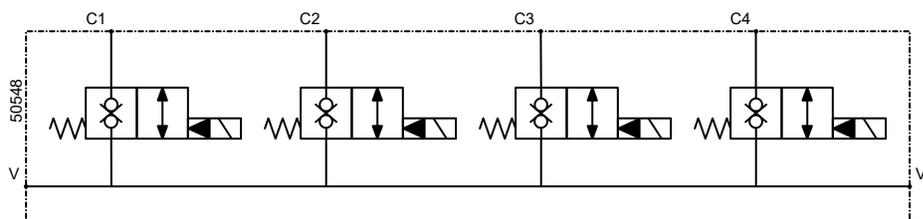
4 + 4 extra functions:



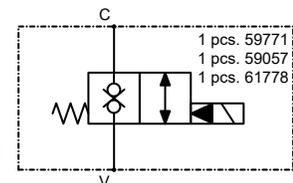
4 or 2 + 2 extra functions:



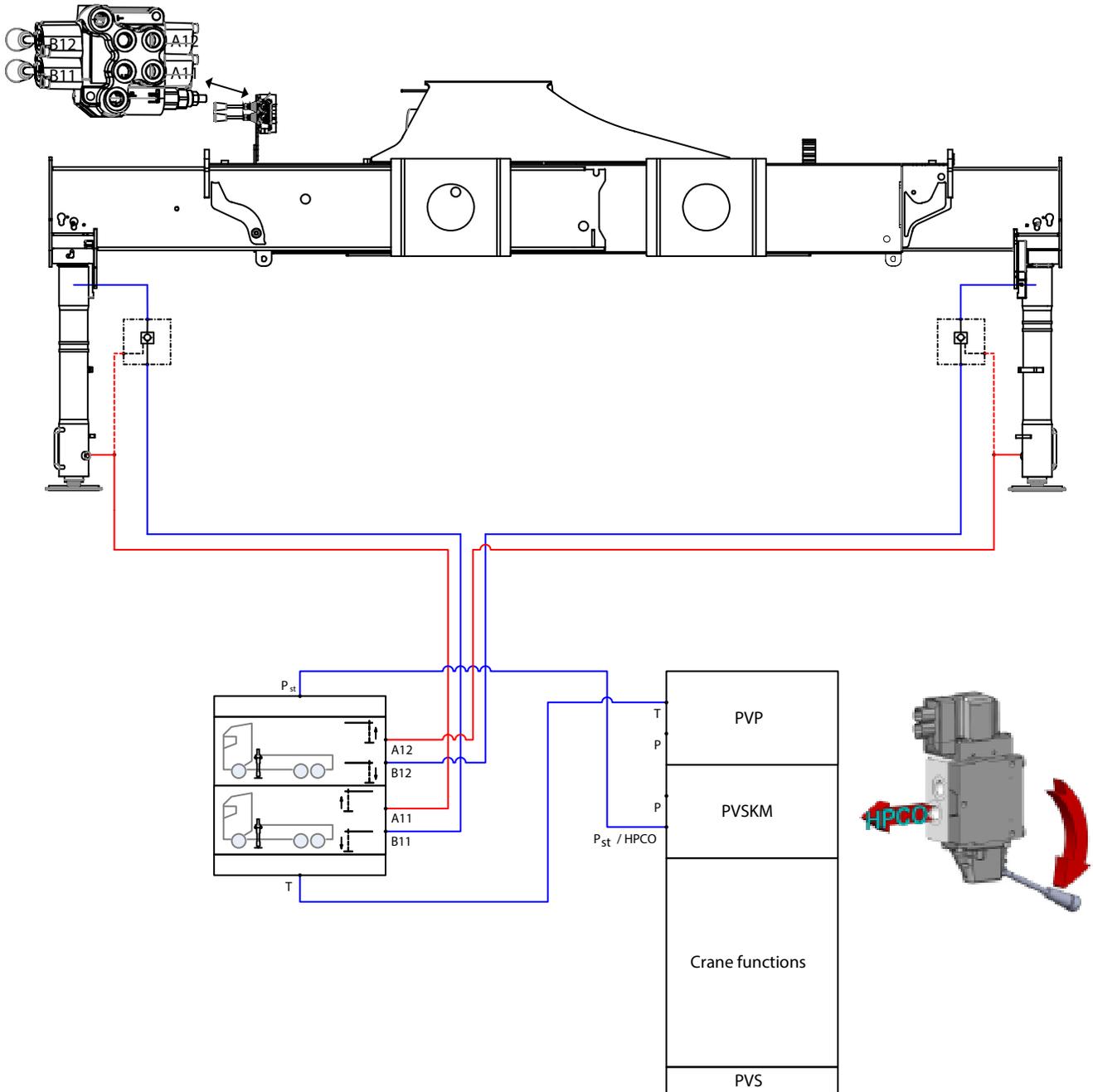
4 remote controlled functions:



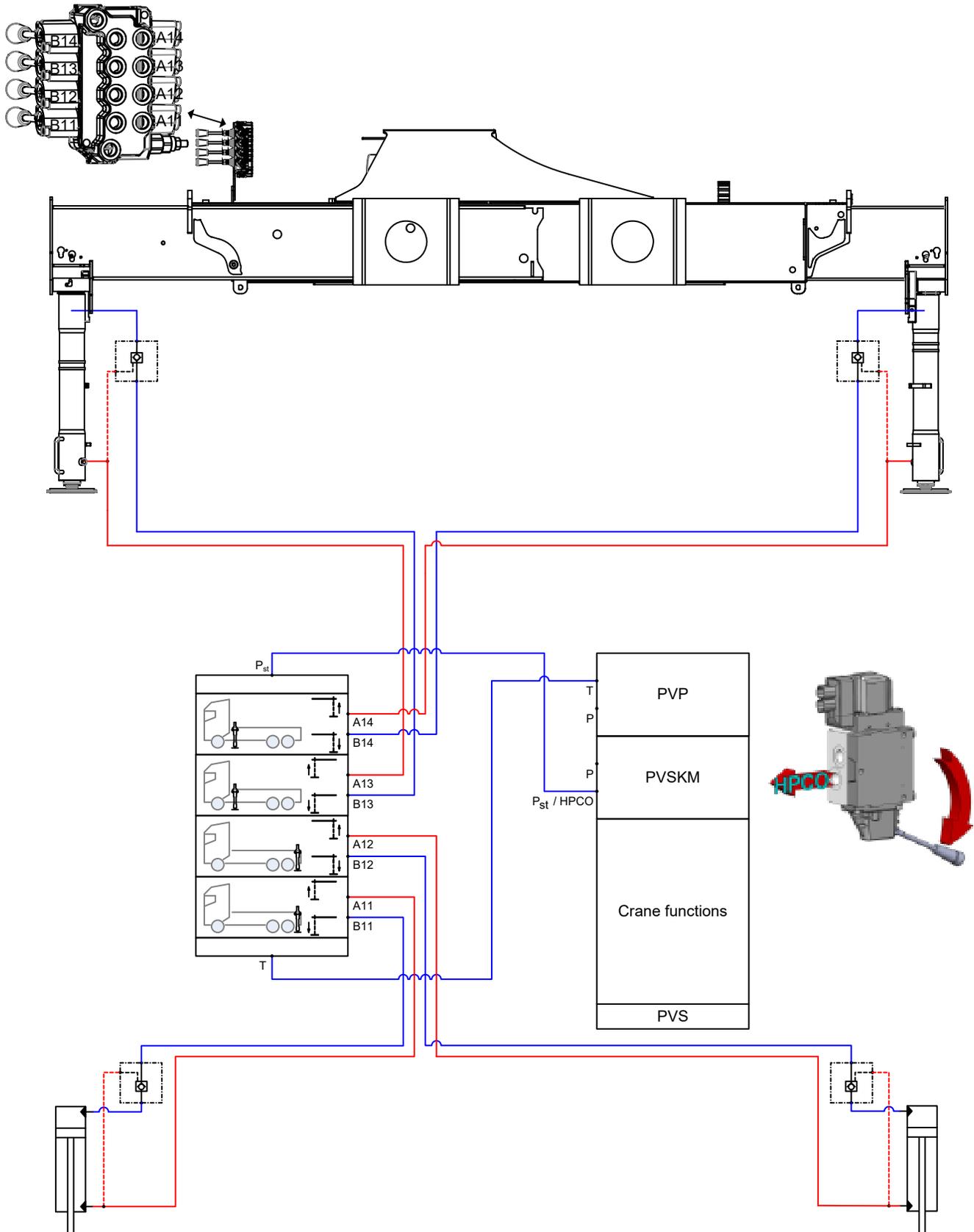
Extra remote controlled functions:



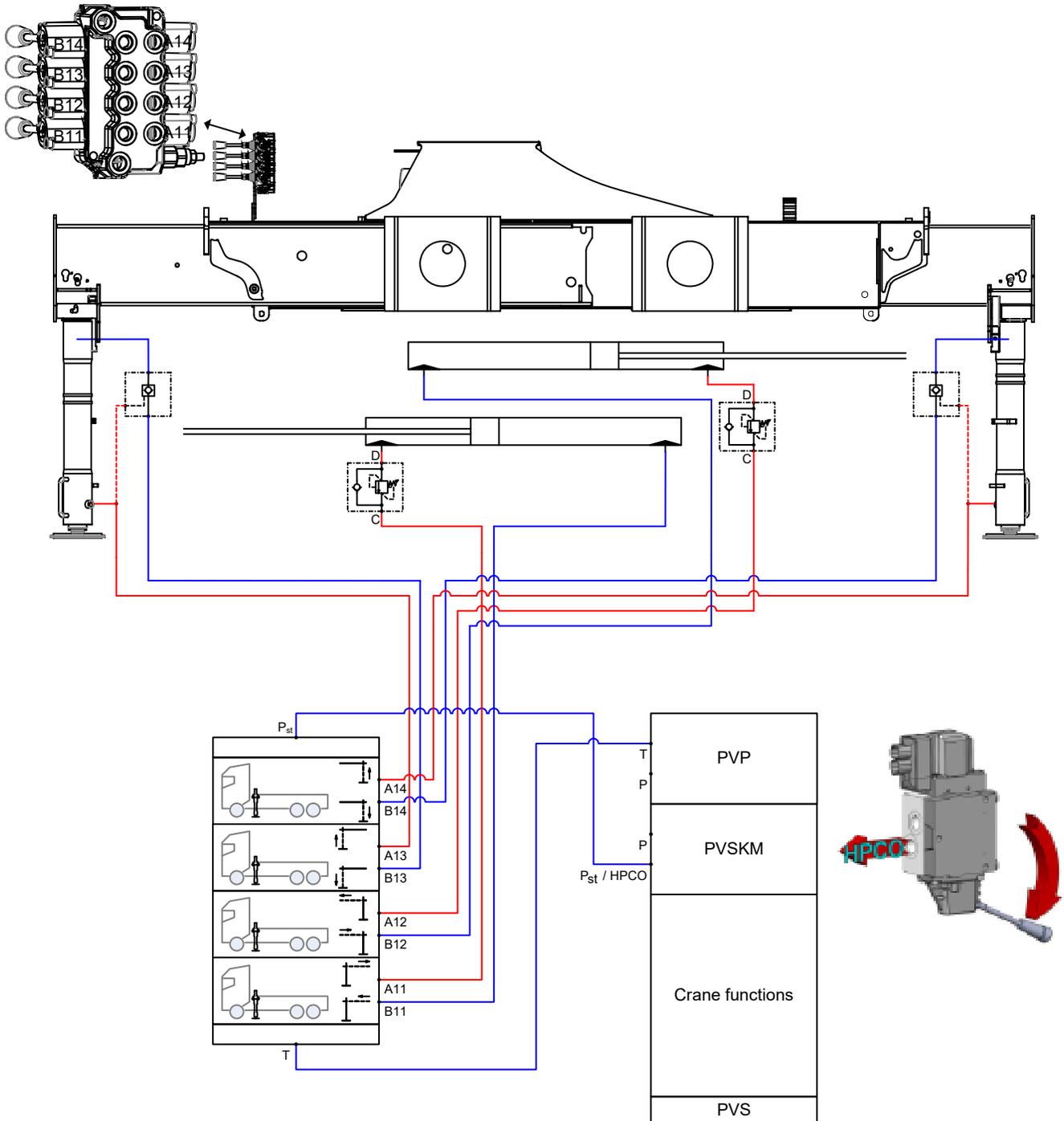
# Hydraulic Diagram - Stabilizer circuit – 2 fcts.



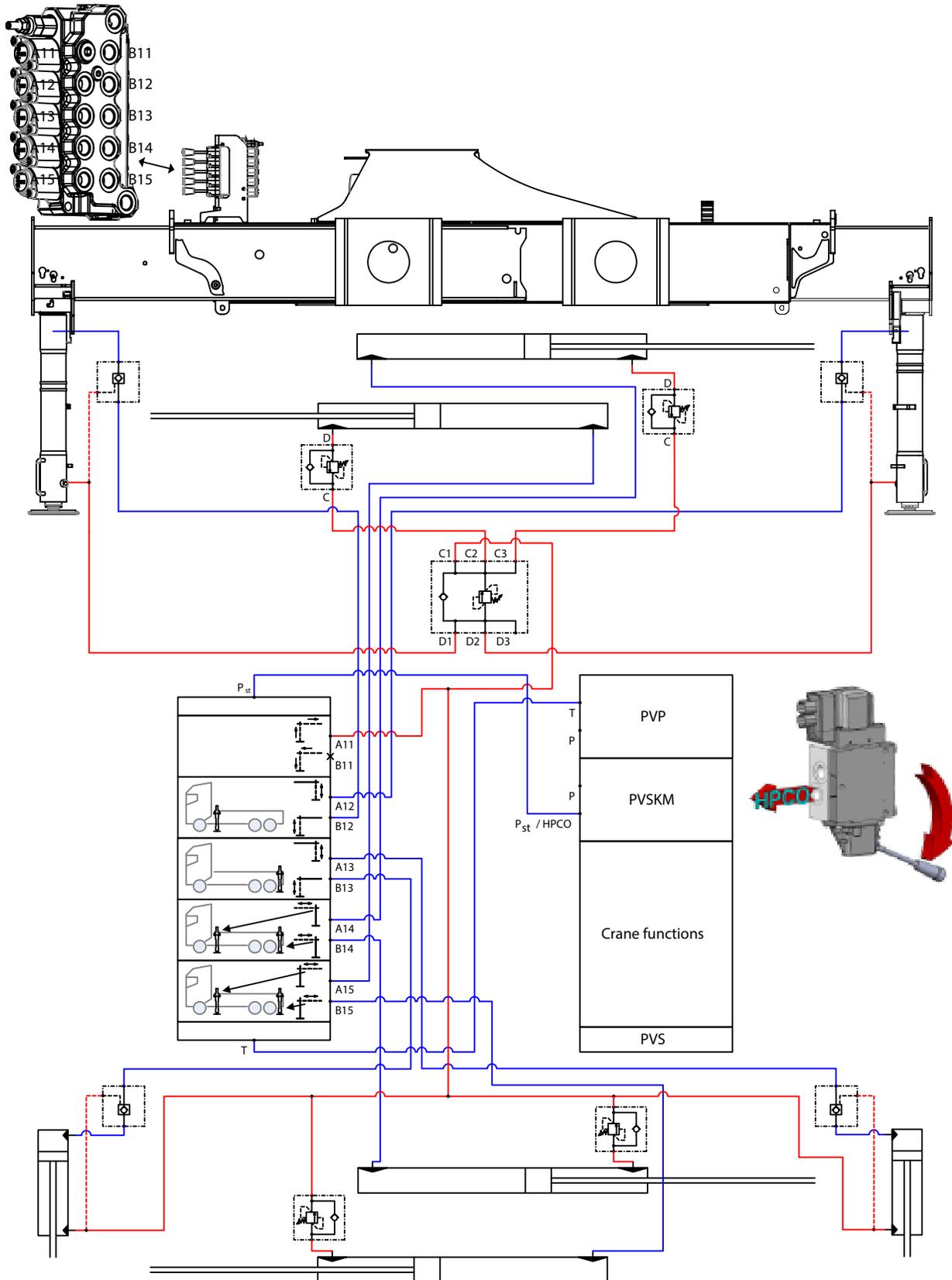
# Hydraulic Diagram - Stabilizer circuit – 2 fcts. + 2 available fcts.



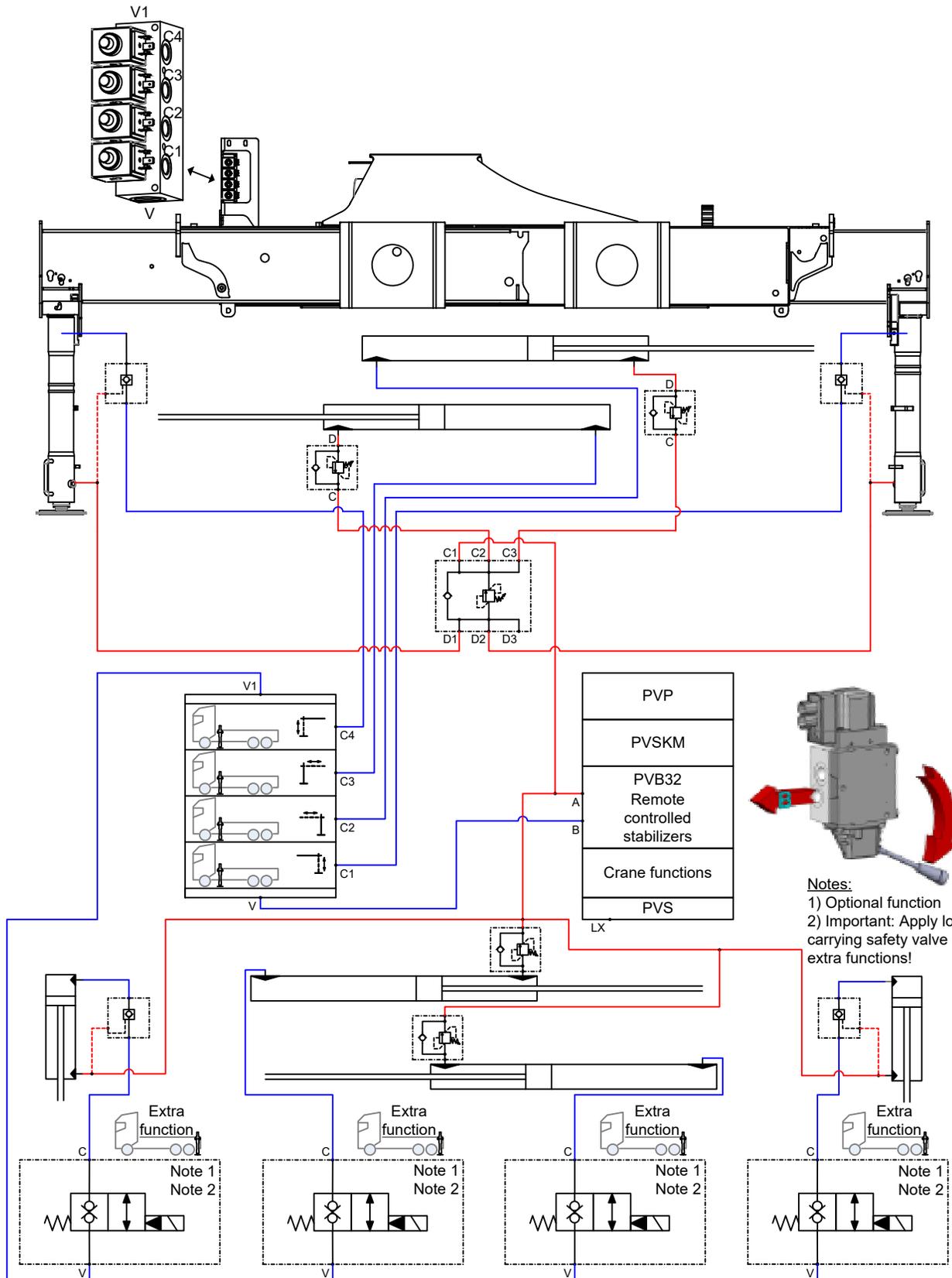
# Hydraulic Diagram - Stabilizer circuit – 4 fcts.



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



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





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