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Manual # 99906164

[810 / 910 PARTS](#)



[810 / 910 TECH SPECS](#)



810K-MCS 810K-RC 910K-RCS Technical Specifications

Revised 06-07-2022

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810K-MCS Technical Specifications

Section - 1

810K-MCS / RC Specifications

Performance	Unit	810-K1	810-K2	810-K3	810-K4
Loading group (EN12999)		HC1 / HD4			
Load moment	ft-lb	54858	54135	52692	51249
Hydraulic reach	ft	17'4"	23' 11"	29' 10"	36' 1"
Hydraulic telescopic movement	ft	5' 7"	11' 8"	17' 4'	23' 4"
Lifting capacity, hydraulic	lb-ft	4662 - 11'9"	4453 - 12'2"	4254 - 12'5"	4100 - 12'5"
		3163 - 17'4"	2976 - 17'8"	2810 - 18'0"	2689 - 18'4"
			2215 - 23'11"	2094 - 23'6"	1973 - 23'11"
				1653 - 29'10"	1532 - 29'10"
					1268 - 36'1"
Lifting capacity, manual extensions	lb-ft	2017 - 23'11"	1488 - 29'10"	1135 - 36' 1"	716 - 41'9"
Rotational torque, gross	ft-lb	5900			
Rotation angle	°	400			
Max. heel at max. load moment	°	5			
Rotation speed	°/s	24			

Dimensions	Unit	810-K1	810-K2	810-K3	810-K4
Height above chassis	ft/in	6'	6'	6'-1'	6'-2
Width	ft/in	7' 2"			
Length, no extra valves	in	26			
Length, with extra valves (hose guides)	in	29			
Length, with extra valves (int. hose routing)	in	26			
Stabilizer spread, S1 (standard)	ft/in	11'1"			
Stabilizer spread, S2	ft/in	14'4"			
Stabilizer spread, D	ftin	17'1"			

810-MCS / RC Specifications - Continued

Weights, basic loader	Unit	810-K1	810-K2	810-K3	810-K4
Standard loader 1), excl. stabilizers	lbs	1466	1631	1785	1918
Stabilizers, S1 fixed	lbs			253	
Stabilizers, S1 swing-up	lbs			265	
Stabilizers, S2 fixed	lbs			309	
Stabilizers, S2 swing-up	lbs			319	
Stabilizers, D fixed	lbs			352	
Stabilizers, D swing-up	lbs			363	
Mounting kit, 3 bolts	lbs			99	
Mounting kit, 6 bolts	lbs			121	
Tank, excl. oil (fitted on loader)	lbs			77	
Manual extensions	lbs	88	77	53	39
Oil in loader (stowing position)	lbs	26	30	35	37

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

Weights, equipment	Unit	810-K1	680-K2	810-K3	810-K4
1 extra valve, hose guides	lbs	88	121	143	165
2 extra valves, hose guides	lbs	132	165	198	231
1 extra valve, int. hose routing	lbs			165	
2 extra valves, int. hose routing	lbs			286	
High-pressure filter	lbs			15	

Max load on stabilizers (per stabilizer cylinder)	Unit	810-K1	810-K2	810-K3	810-K4
S1, fixed	ft lbs 10 ³			40	
S1, swing-up	ft lbs 10 ³			40	
S2, fixed	ft lbs 10 ³			40	
S2, swing-up	lft bs 10 ³			40	

Power Consumption / Oil Capacity	Unit	810-K1	810-K2	810-K3	810-K4
Working pressure	PSI			4714	
Tank capacity (fitted on loader)	Gal			14.5	
Max. pump performance, 1-circuit	G/min			9.2	

810K-MCS / RC Metric Specifications

Performance		810-K1	810-K2	810-K3	810-K4
Loading group (EN12999)		HC1 / HD4			
Load moment	tm	7.6	7.5	7.3	7.1
Hydraulic reach	m	5.3	7.3	9.1	11.0
Hydraulic telescopic movement	mm	1725	3560	5285	7120
Lifting capacity, hydraulic	kg-m	2115 - 3.6 1435 - 5.3	2020 - 3.7 1350 - 5.4 1005 - 7.3	1930 - 3.8 1275 - 5.5 950 - 7.2 750 - 9.1	1860 - 3.8 1220 - 5.6 895 - 7.3 695 - 9.1 575 - 11.0
Lifting capacity, manual extensions	kg-m	715 - 7.1	520 - 8.9	380 - 10.8	325 - 12.7
Rotational torque, gross	kNm	8			
Rotation Angle	°	400			
Max. heel at max. load moment	°	5			
Rotation speed	%s	24			

Dimensions

Height above chassis	mm	1840	1840	1860	1895
Width	mm	2200			
Length, no extra valves	mm	661			
Length, with extra valves (hose guides)	mm	730			
Length, with extra valves (int. hose routing)	mm	661			
Stabilizer spread, S1 (standard)	mm	3400			
Stabilizer spread, S2	mm	4400			
Stabo;ozers[read. D	mm	5200			

Weight, basic loader

Standare loader 1), excl. stabilizers	kg	665	740	810	870
Stabilizers, S1 fixed	kg	115			
Stabilizers, S1 swing-up	kg	120			
Stabilizers S2 fixed	kg	140			
Stabilizer, S2 swing-up	kg	145			
Stabilizers, D fixed	kg	160			
Stabilizers, D swing-up	kg	165			
Mounting kits, 3-bolts	kg	45			
Mounting kit, 6-bolts	kg	55			
Tank, excl. oil (fitted on loader)	kg	35			
Manual extensions	kg	40	35	24	18
Oil in loader (slowing postion)	kg	12	14	16	17

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

810K-MCS / RC Metric Specifications- continued

Weights, equipment		810-K1	810-K2	810-K3	810-K4
1 extra valves, hose guides	kg	40	55	65	75
2 extra valves, hose guides	kg	60	75	90	105
1 extra valve, int. hose routing	kg	75			
2 extra valves, int. hose routing	kg	130			
High-pressure filter	kg	7			

Max. load on stabilizers (per stabilizer cylinder)

S1, fixed	kN	55
S1, swing-up	kN	55
S2, fixed	kN	55
S2, swing-up	kN	55

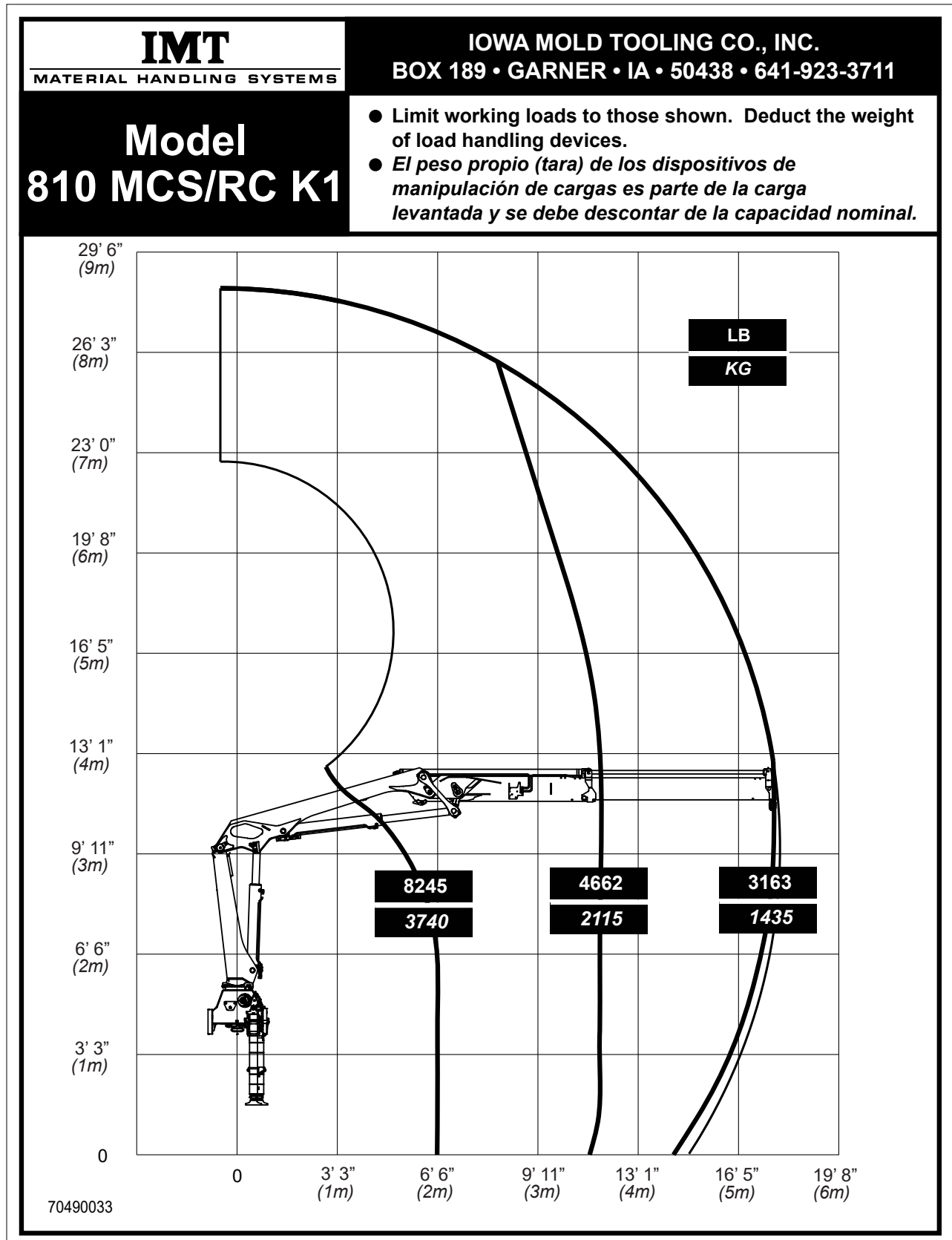
Power consumption / oil capacity

Working Pressure	Bar	325
Tank capacity (fitted on loader)	L	55
Max. pump performance, 1-circuit	L/min	35

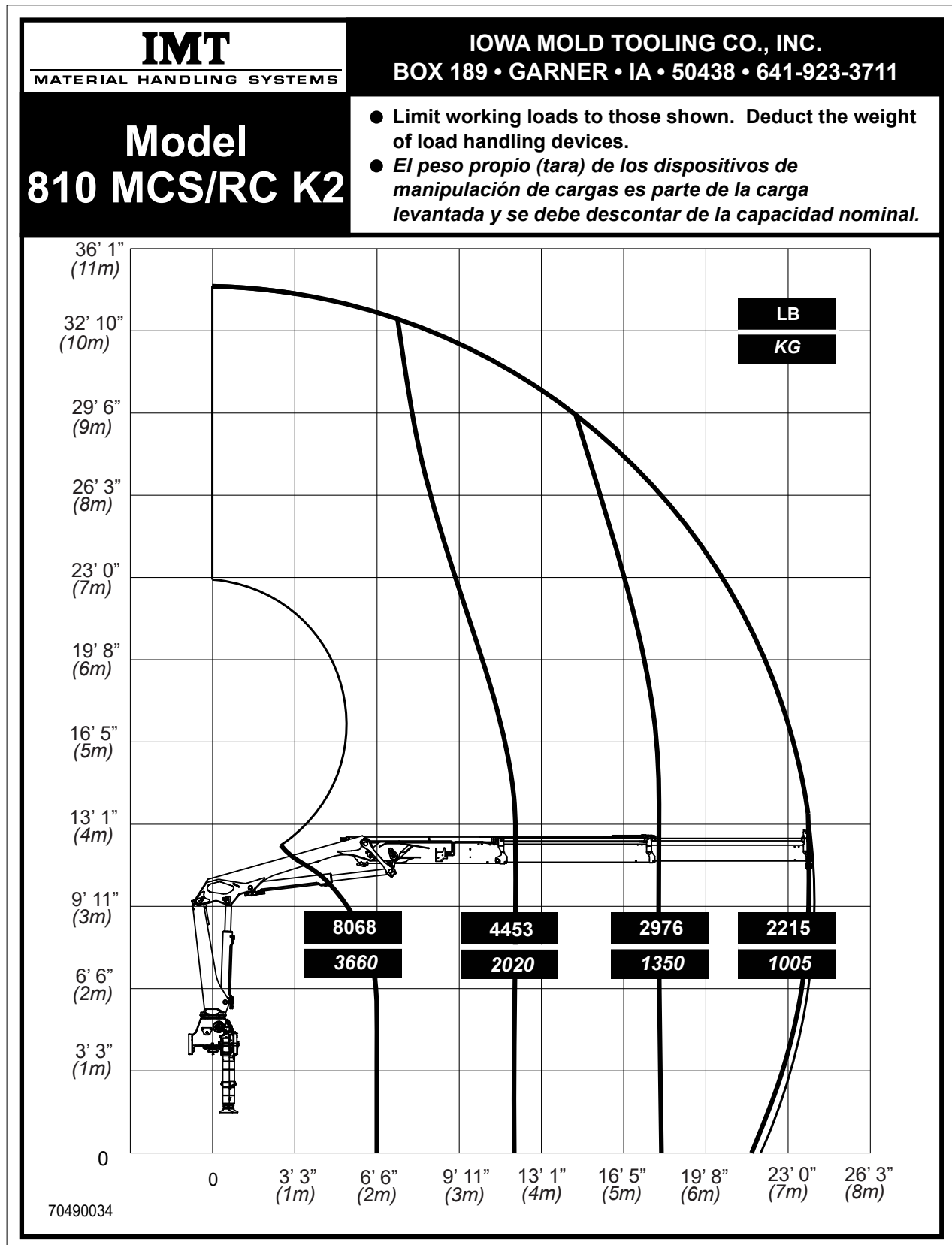
810K-MCS/RC Lifting Capacity Charts

Section - 2

810k - MCS/RC Lifting Capacity Chart, K1



810K - MCS/RC Lifting Capacity Chart, K2

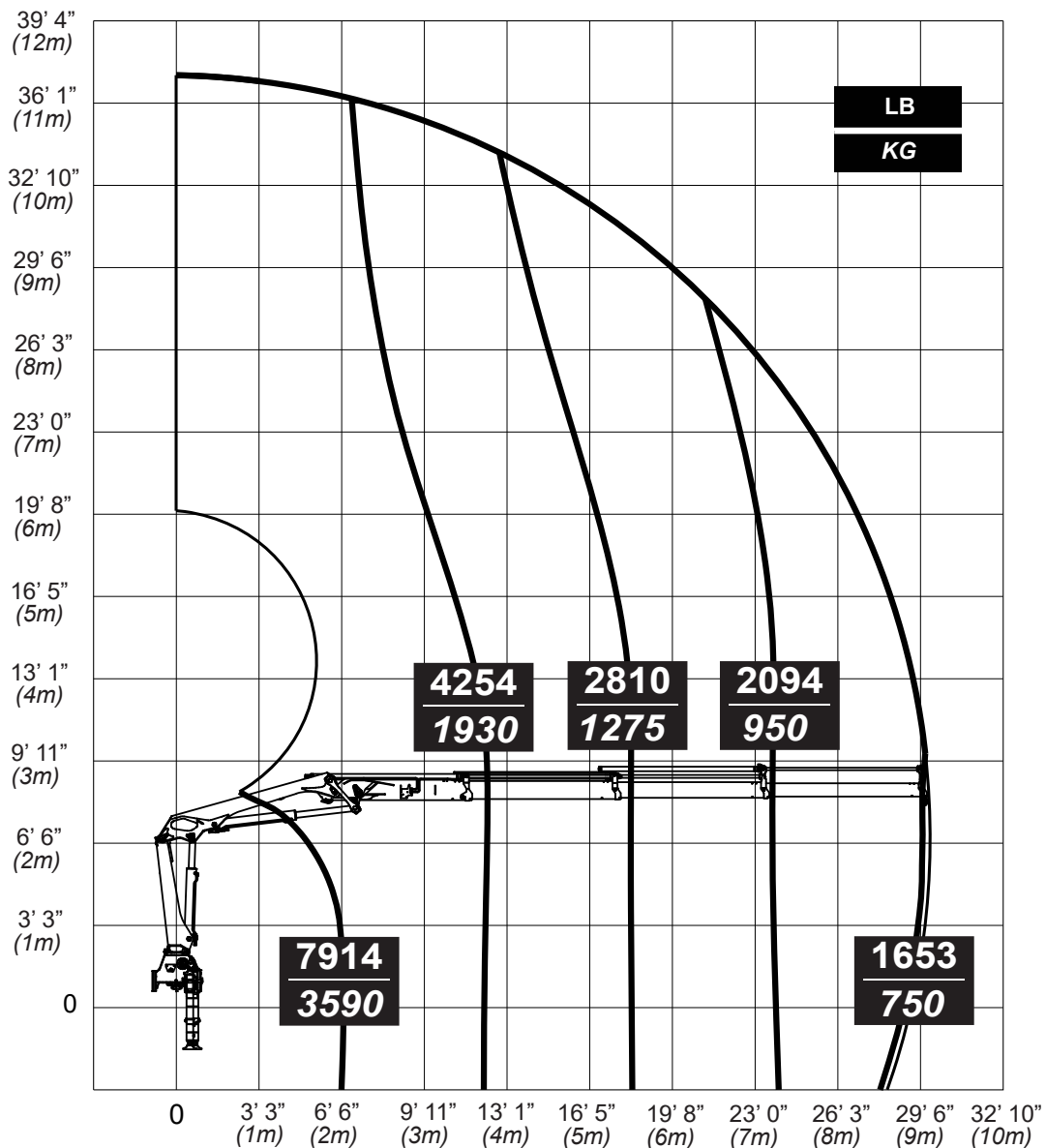


810K - MCS/RC Lifting Capacity Chart, K3

IMT
MATERIAL HANDLING SYSTEMS
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Model 810 MCS-RC 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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810K - MCS/RC Lifting Capacity Chart, K4

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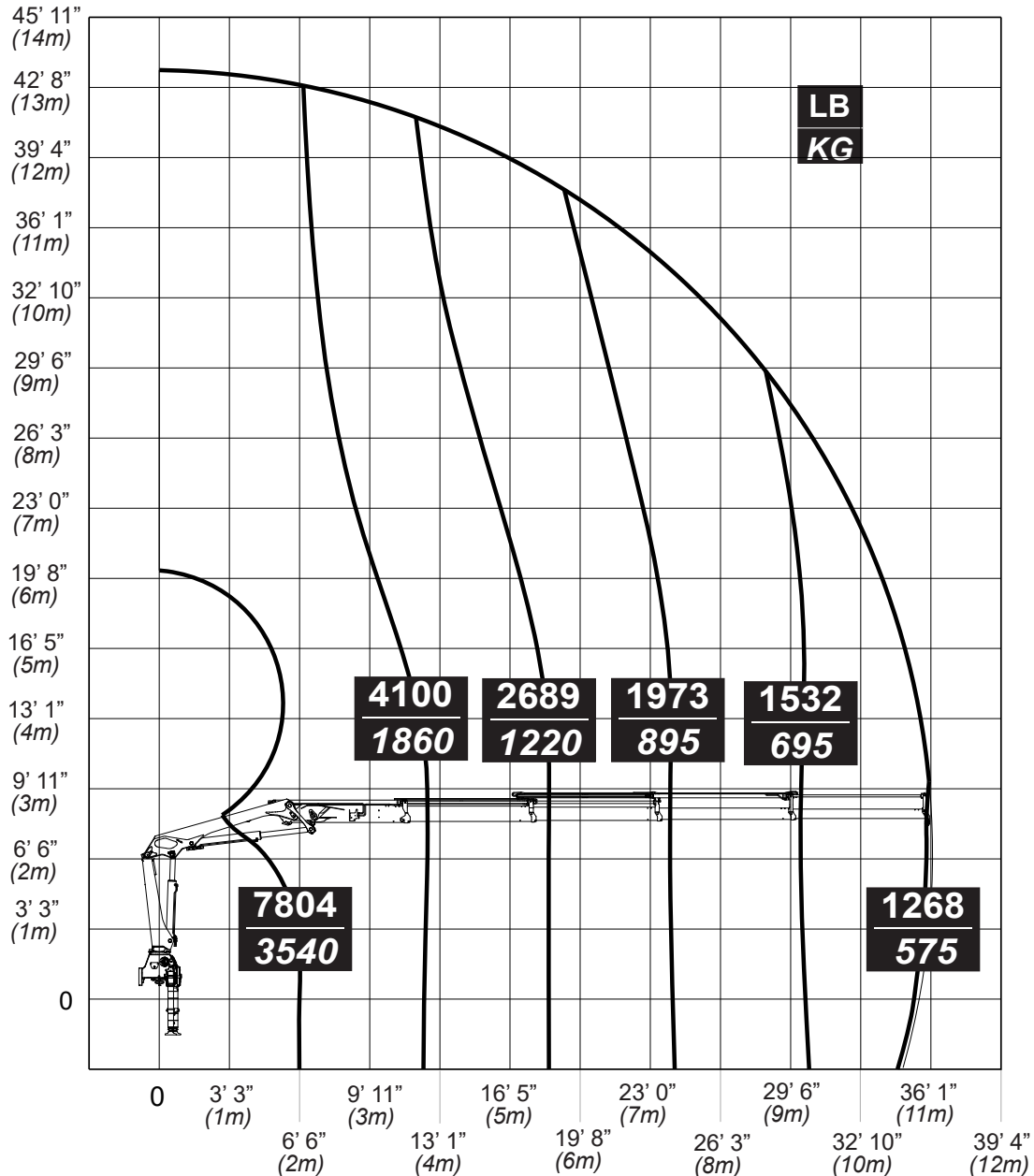
MATERIAL HANDLING SYSTEMS

IOWA MOLD TOOLING CO., INC.

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

Model 810 MCS-RC 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.*

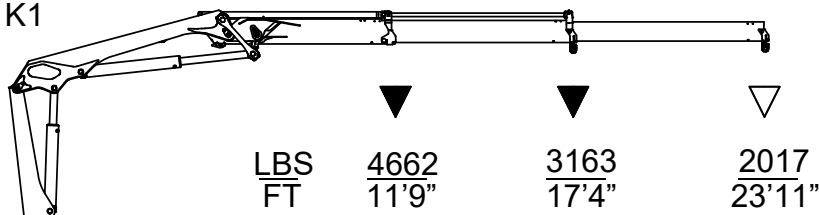


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▽ Lifting capacity with manual extensions

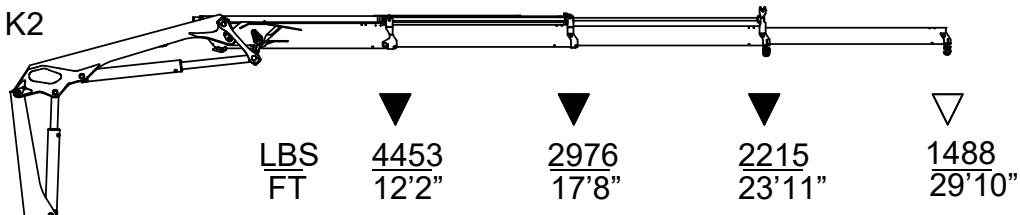
▼ Lifting capacity without manual extensions

K1



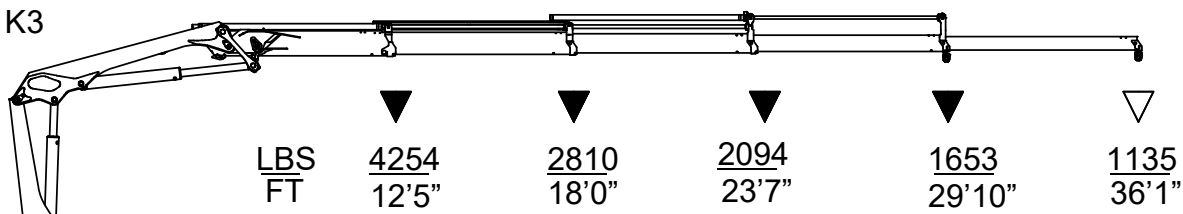
	▼	▼	▽
LBS	4662	3163	2017
FT	11'9"	17'4"	23'11"
KG	2115	1435	915
M	3,6	5,3	7,3

K2



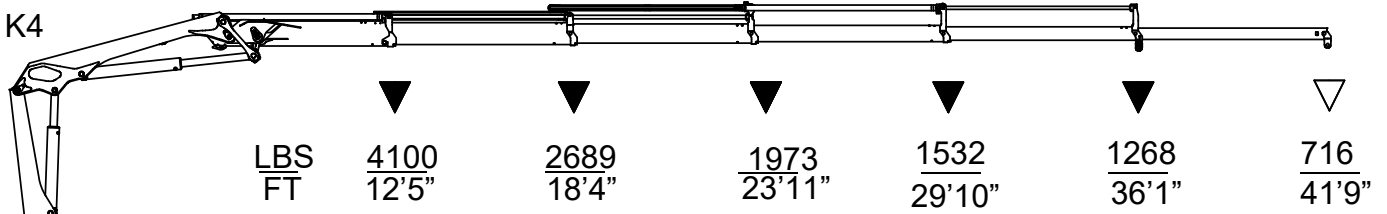
	▼	▼	▼	▽
LBS	4453	2976	2215	1488
FT	12'2"	17'8"	23'11"	29'10"
KG	2020	1350	1005	675
M	3,7	5,4	7,3	9,1

K3



	▼	▼	▼	▼	▽
LBS	4254	2810	2094	1653	1135
FT	12'5"	18'0"	23'7"	29'10"	36'1"
KG	1930	1275	950	750	515
M	3,8	5,5	7,2	9,1	11,0

K4



	▼	▼	▼	▼	▼	▽
LBS	4100	2689	1973	1532	1268	716
FT	12'5"	18'4"	23'11"	29'10"	36'1"	41'9"
KG	1860	1220	895	695	575	325
M	3,8	5,6	7,3	9,1	11,0	12,8

910K - RCS Technical Data

Section - 3

910K - RCS - Specifications

Performance	Unit	910-K1	910-K2	910-K3	910-K4
Loading group (EN12999)		HC1 / HD5			
Load moment	ft-lb	57745	55580	54858	52692
Hydraulic reach	ft	17'4"	23'11"	29'10"	36'1"
Hydraulic telescopic movement	ft	5' 7"	11' 8"	17' 4'	23' 4"
Lifting capacity, hydraulic	lb-ft	4872 - 11'9" 3306 - 17'4"	4607 - 12'2" 3086 - 17'8" 2292 - 23'11"	4409 - 12'5" 2921 - 18'0" 2171 - 23'6" 1719 - 29'10"	4243 - 12'5" 2788 - 18'4" 2050 - 23'11" 1598 - 29'10" 1322 - 36'1"
Lifting capacity, manual extensions	lb-ft	2017 - 23'11"	1488 - 29'10"	1135 - 36'1"	716 - 41'8"
Rotational torque, gross	ft-lb	5900			
Rotation angle	°	400			
Max. heel at max. load moment	°	5			
Rotation speed	°/s	24			

Dimensions	Unit	910-K1	910-K2	910-K3	910-K4
Height above chassis	ft/in	6'-3"	6'-3"	6'-3'	6'-3"
Width	ft/in	7'-2"			
Length, no extra valves	in	26			
Length, with extra valves (hose guides)	in	29			
Length, with extra valves (int. hose routing)	in	26			
Stabilizer spread, S1 (standard)	ft/in	11'2"			
Stabilizer spread, S2	ft/in	14'5"			
Stabilizer spread, D	ftin	17'1"			

Weights, basic loader

Standare loader 1), excl. stabilizers	lb	1389	1554	1709	1841
Stabilizers, S1 fixed	lb	253			
Stabilizers, S1 swing-up	lb	265			
Stabilizers S2 fixed	lb	309			
Stabilizer, S2 swing-up	lb	320			
Stabilizers, D fixed	lb	352			
Stabilizers, D swing-up	lb	363			
Mounting kits, 3-bolts	lb	99			
Mounting kit, 6-bolts	lb	121			
Tank, excl. oil (fitted on loader)	lb	77			
Manual extensions	lb	88	77	53	40
Oil in loader (slowing postion)	lb	26	30	35	37

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

910K- RCS Specifications- continued

Weights, equipment		910-K1	910-K2	910-K3	910-K4
1 extra valves, hose guides	lb	88	121	143	165
2 extra valves, hose guides	lb	132	65	98	231
1 extra valve, int. hose routing	lb	165			
2 extra valves, int. hose routing	lb	286			
High-pressure filter	lb	15			

Max. load on stabilizers (per stabilizer cylinder)

S1, fixed	ft-lbs 10 ³	40
S1, swing-up	ft-lbs 10 ³	40
S2, fixed	ft-lbs 10 ³	40
S2, swing-up	ft-lbs 10 ³	40

Power consumption / oil capacity

Working Pressure	PSI	4859
Tank capacity (fitted on loader)	ga	14.5
Max. pump performance, 1-circuit	g/min	13.2

910K-RCS Metric Specifications

Performance		910-K1	910-K2	910-K3	910-K4
Loading group (EN12999)		HC1 / HD5			
Load moment	tm	8.0	7.7	7.6	7.3
Hydraulic reach	m	5.3	7.3	9.1	11.0
Hydraulic telescopic movement	mm	1725	3560	5285	7120
Lifting capacity, hydraulic	kg-m	2210 - 3.6 1500 - 5.3	2090 - 3.7 1400 - 5.4 1040 - 7.3	2000 - 3.8 1325 - 5.5 985 - 7.2 780 - 9.1	1925 - 3.8 1265 - 5.6 930 - 7.3 725 - 9.1 515 - 11.0
Lifting capacity, manual extensions	kg-m	715 - 7.1	520 - 8.9	380 - 10.8	325 - 12.7
Rotational torque, gross	kNm	8			
Rotation Angle	°	400			
Max. heel at max. load moment	°	5			
Rotation speed	%s	24			

Dimensions

Height above chassis	mm	1840	1840	1860	1895
Width	mm	2200			
Length, no extra valves	mm	661			
Length, with extra valves (hose guides)	mm	730			
Length, with extra valves (int. hose routing)	mm	661			
Stabilizer spread, S1 (standard)	mm	3400			
Stabilizer spread, S2	mm	4400			
Stabilizer spread, D	mm	5200			

Weight, basic loader

Standard loader 1), excl. stabilizers	kg	630	705	775	835
Stabilizers, S1 fixed	kg	115			
Stabilizers, S1 swing-up	kg	120			
Stabilizers S2 fixed	kg	140			
Stabilizer, S2 swing-up	kg	145			
Stabilizers, D fixed	kg	160			
Stabilizers, D swing-up	kg	165			
Mounting kits, 3-bolts	kg	45			
Mounting kit, 6-bolts	kg	55			
Tank, excl. oil (fitted on loader)	kg	35			
Manual extensions	kg	40	35	24	18
Oil in loader (slowing position)	kg	12	14	16	17

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

910K-RCS Metric Specifications- continued

Weights, equipment		910-K1	910-K2	910-K3	910-K4
1 extra valves, hose guides	kg	40	55	65	75
2 extra valves, hose guides	kg	60	75	90	105
1 extra valve, int. hose routing	kg	75			
2 extra valves, int. hose routing	kg	130			
High-pressure filter	kg	7			

Max. load on stabilizers (per stabilizer cylinder)

S1, fixed	kN	55
S1, swing-up	kN	55
S2, fixed	kN	55
S2, swing-up	kN	55

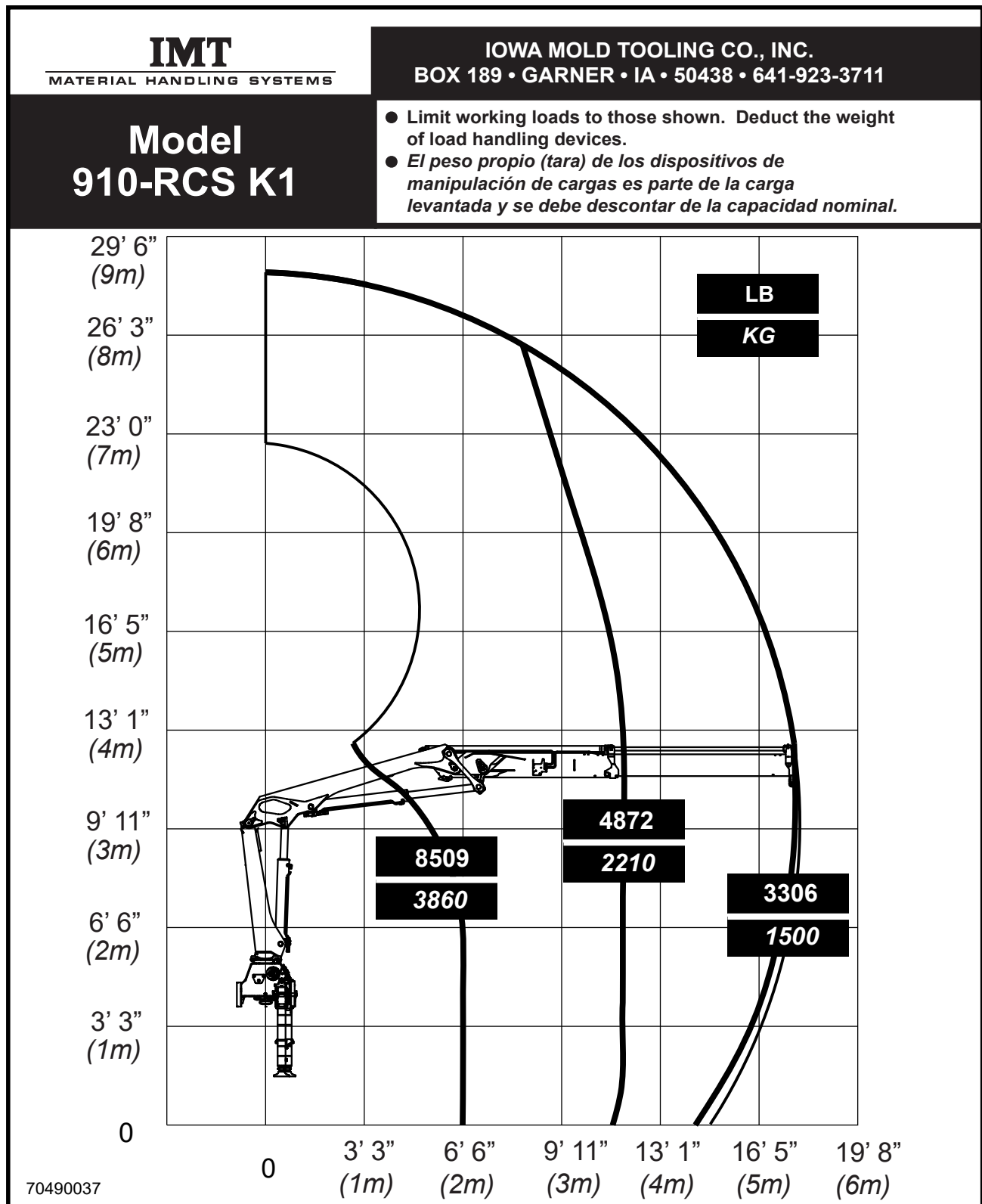
Power consumption / oil capacity

Working Pressure	Bar	325
Tank capacity (fitted on loader)	L	55
Max. pump performance, 1-circuit	L/min	50

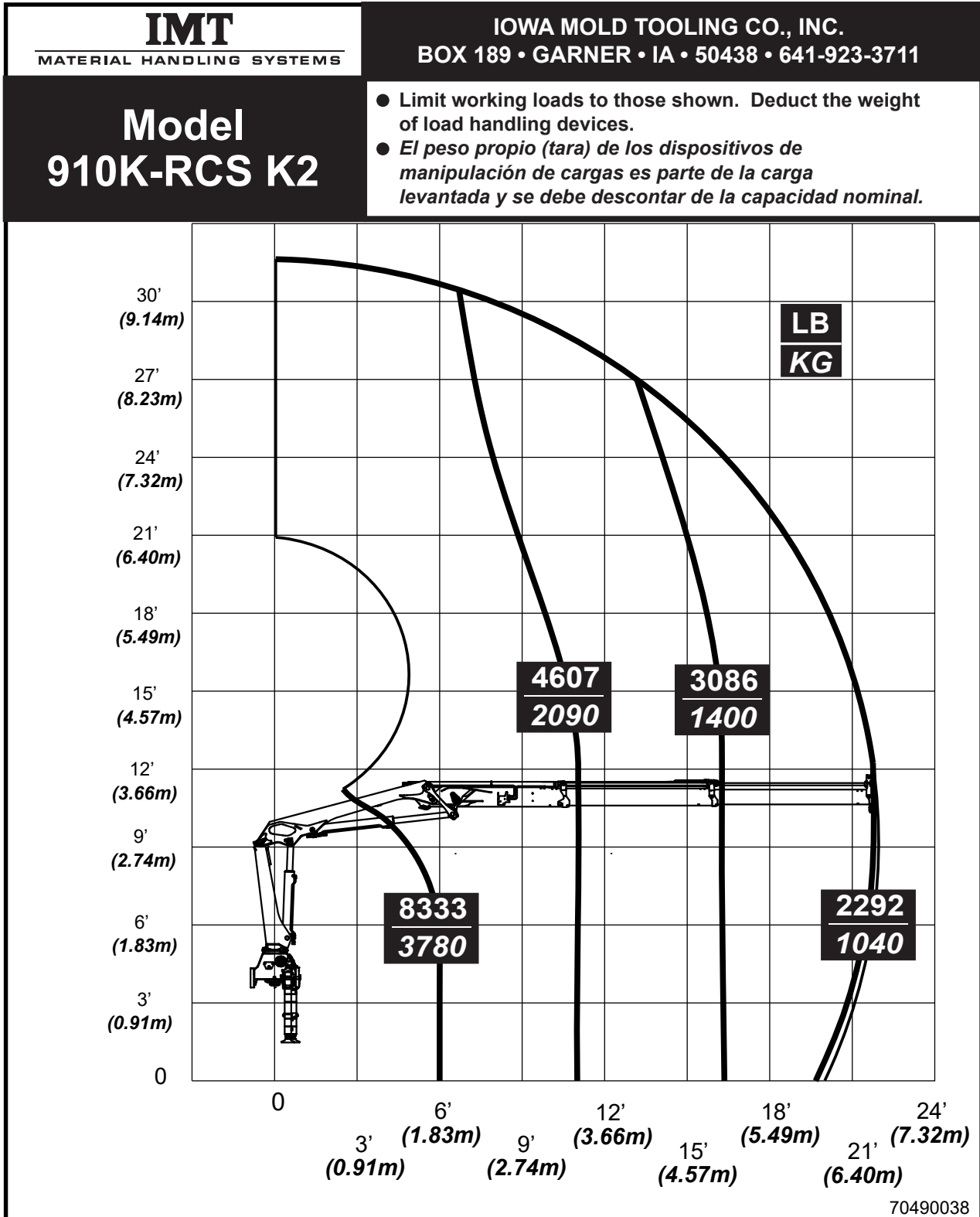
910K - RCS Lifting Capacities

Section - 4

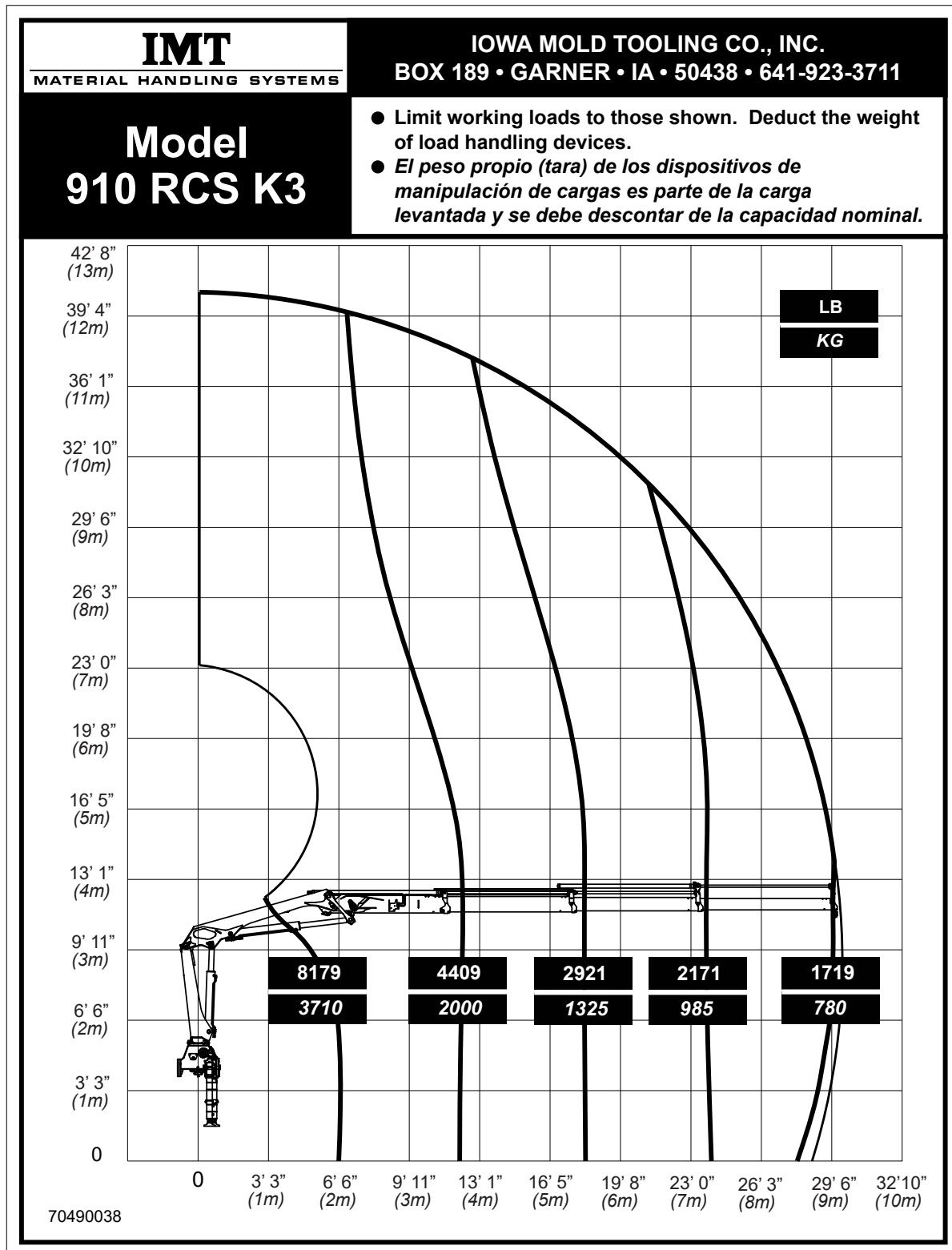
910 RCS Lifting Capacity Chart, K1



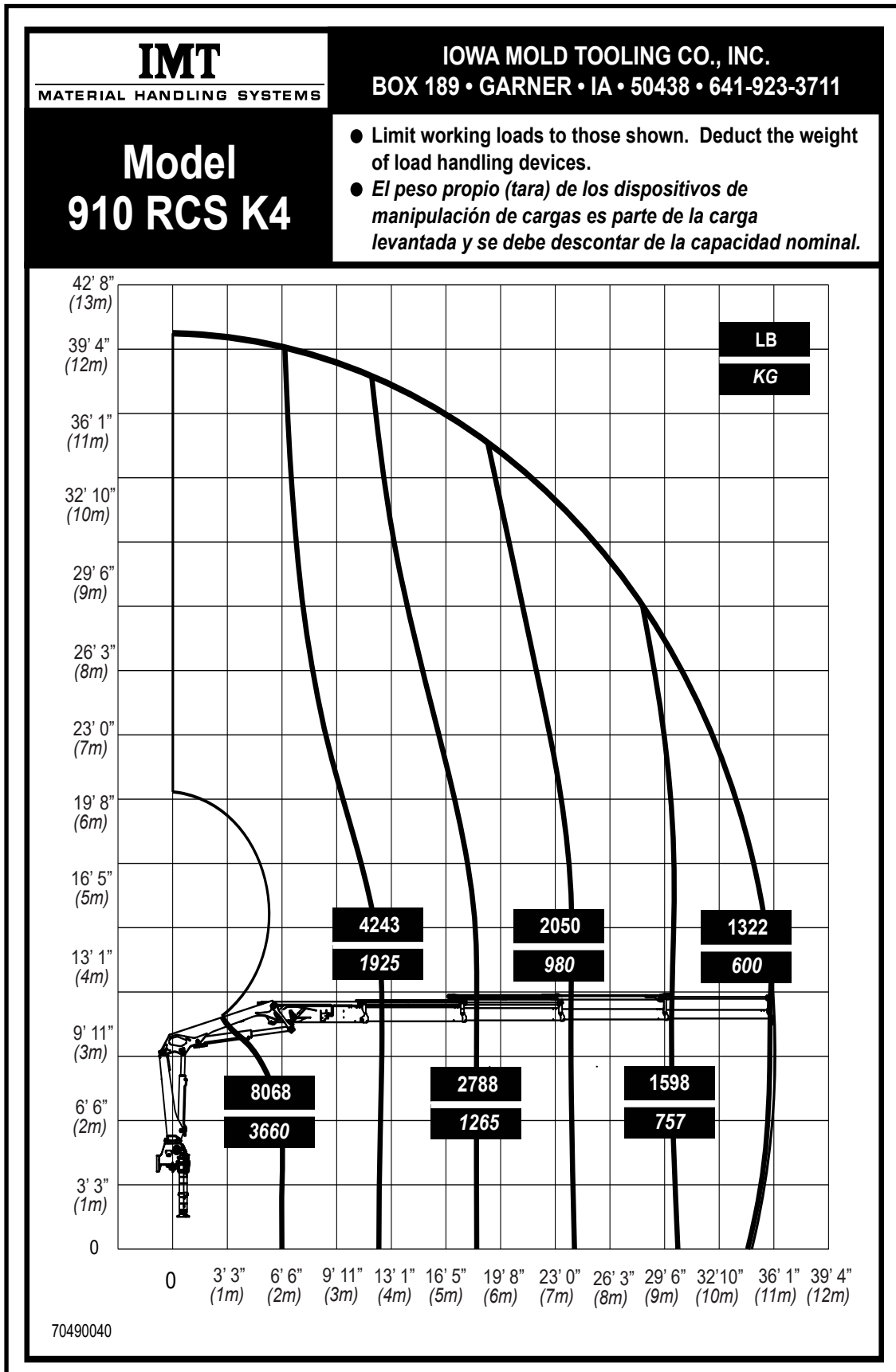
910 RCS Lifting Capacity Chart, K2



910 RCS Lifting Capacity Chart, K3



910 RCS Lifting Capacity Chart, K4

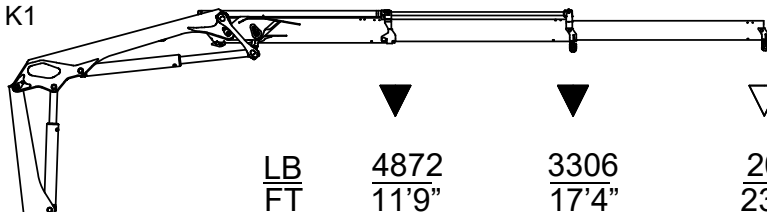


910K-RCS Lifting Capacity Chart K1 - K4

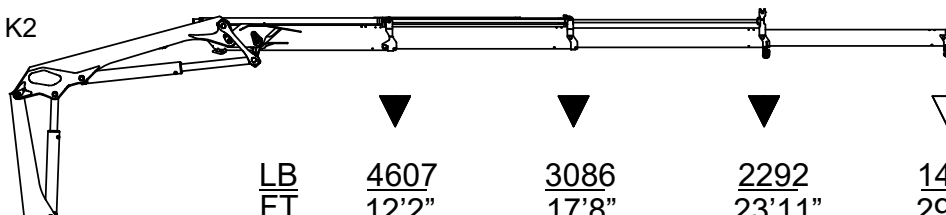
▽ Lifting capacity with manual extensions

▼ Lifting capacity without manual extensions

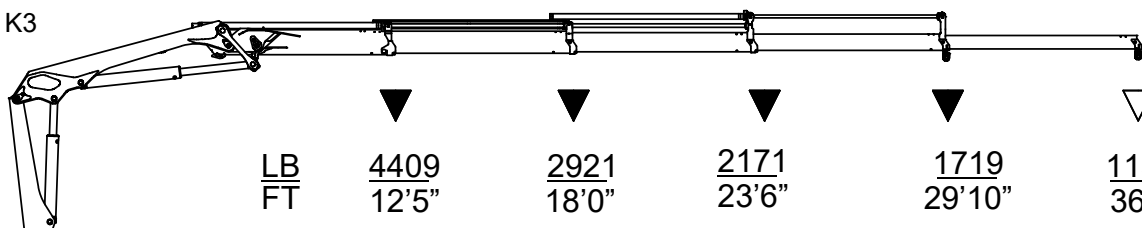
K1

	▼	▼	▽
LB	4872	3306	2017
FT	11'9"	17'4"	23'11"
KG	2210	1500	915
M	3,6	5,3	7,3

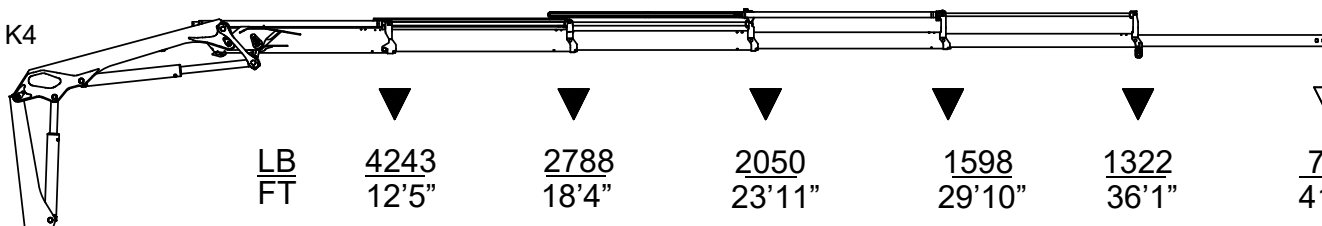
K2

	▼	▼	▼	▽
LB	4607	3086	2292	1488
FT	12'2"	17'8"	23'11"	29'10"
KG	2090	1400	1040	675
M	3,7	5,4	7,3	9,1

K3

	▼	▼	▼	▼	▽
LB	4409	2921	2171	1719	1135
FT	12'5"	18'0"	23'6"	29'10"	36'1"
KG	2000	1325	985	780	515
M	3,8	5,5	7,2	9,1	11,0

K4

	▼	▼	▼	▼	▼	▽
LB	4243	2788	2050	1598	1322	716
FT	12'5"	18'4"	23'11"	29'10"	36'1"	41'8"
KG	1925	1265	930	725	600	325
M	3,8	5,6	7,3	9,1	11,0	12,8

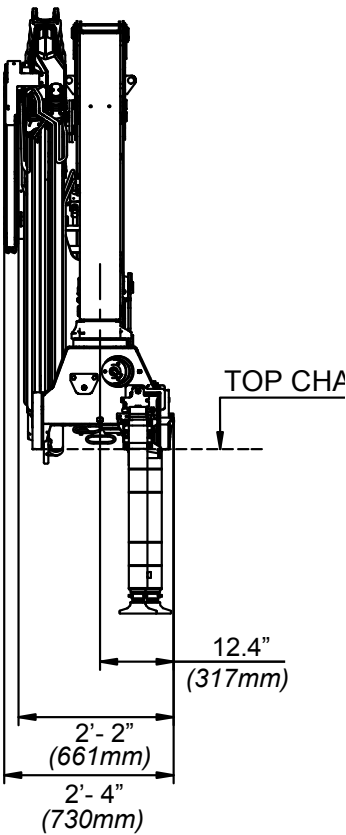
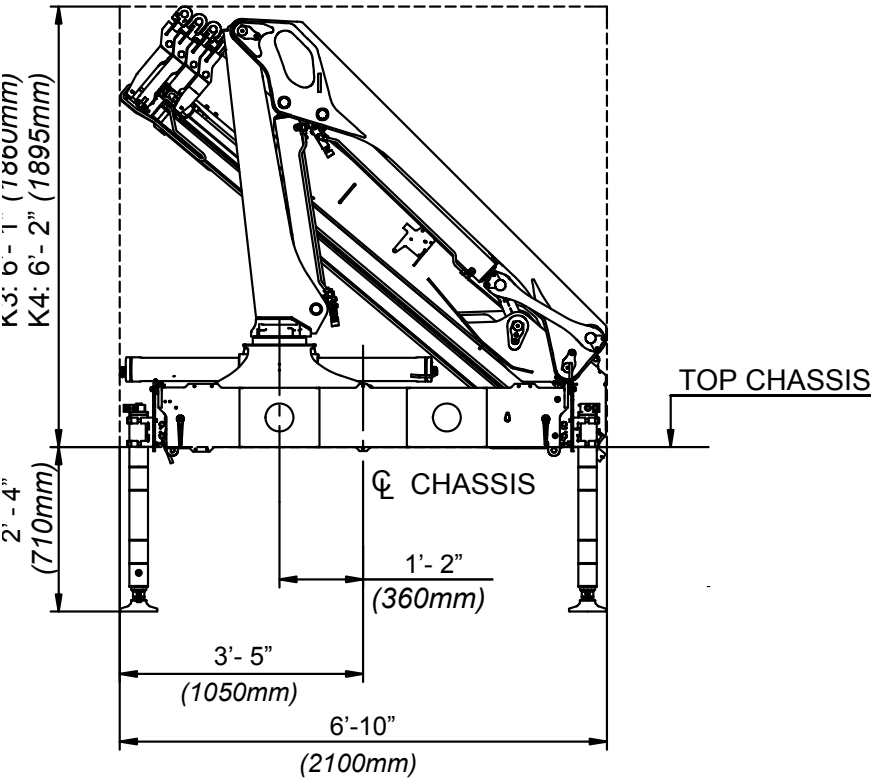
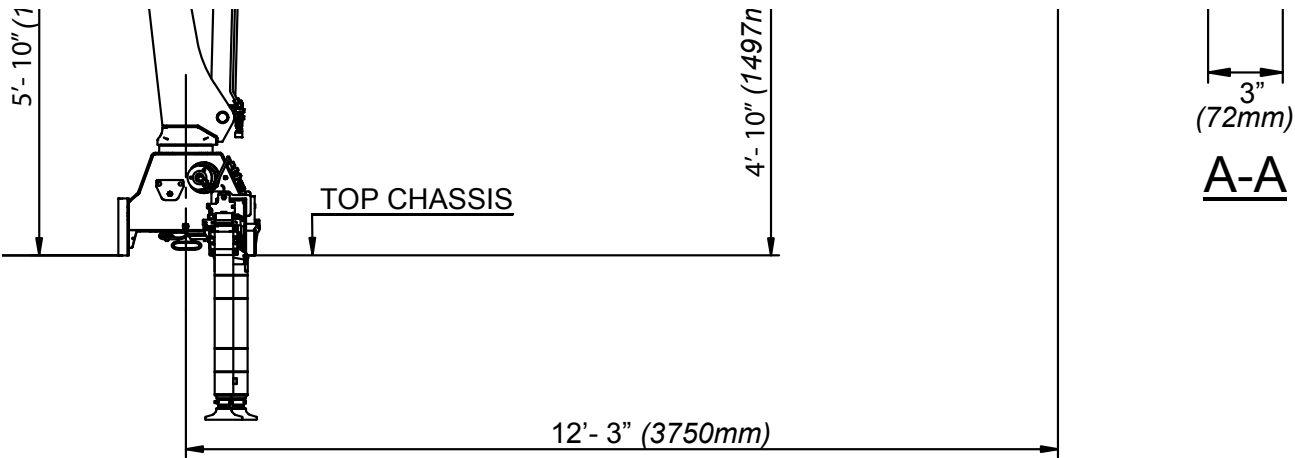
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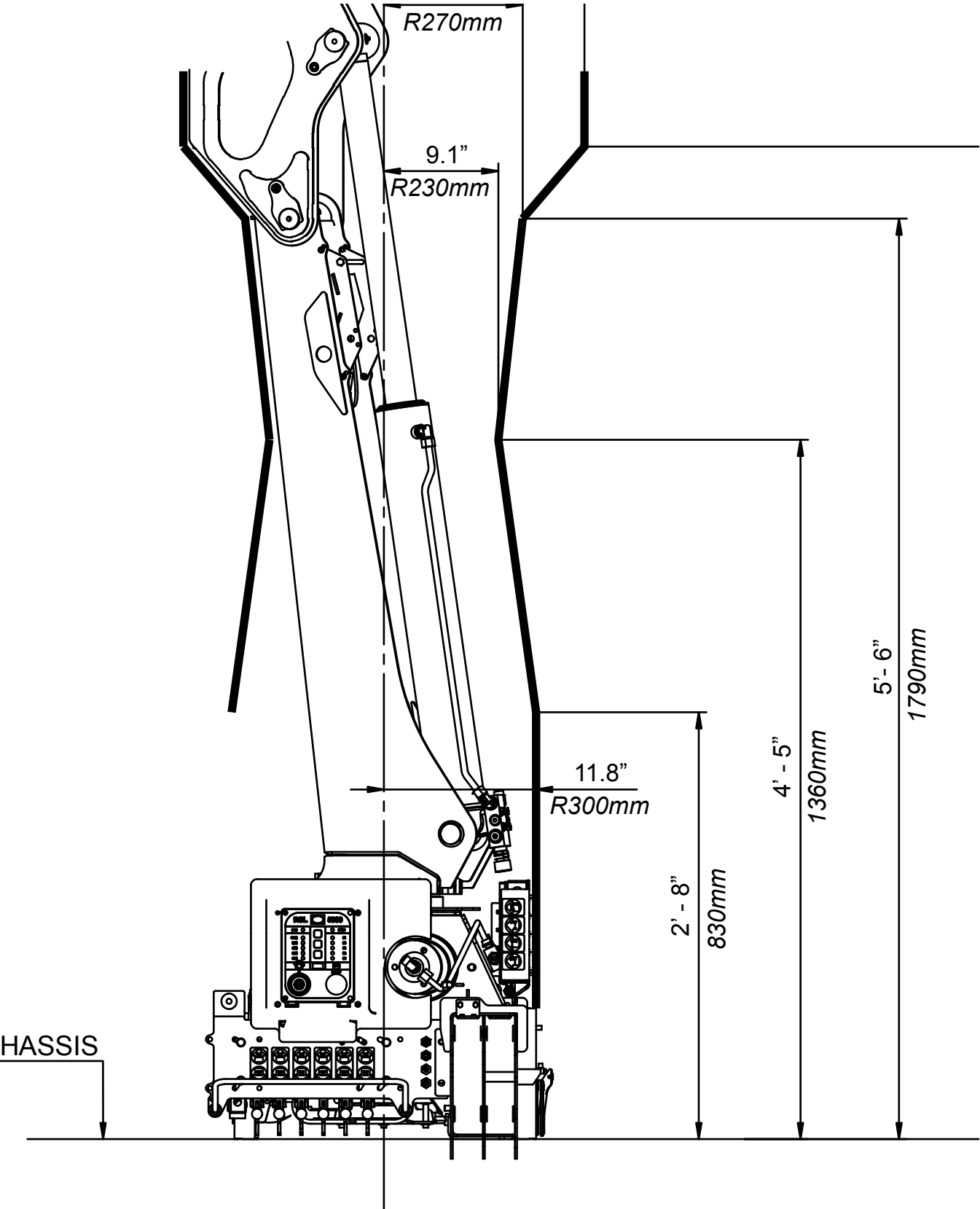
**810K-MC, 810K-MCS/RC, 910K - RCS
Technical Data**

Section - 5

Dimension Sketch: Rotation

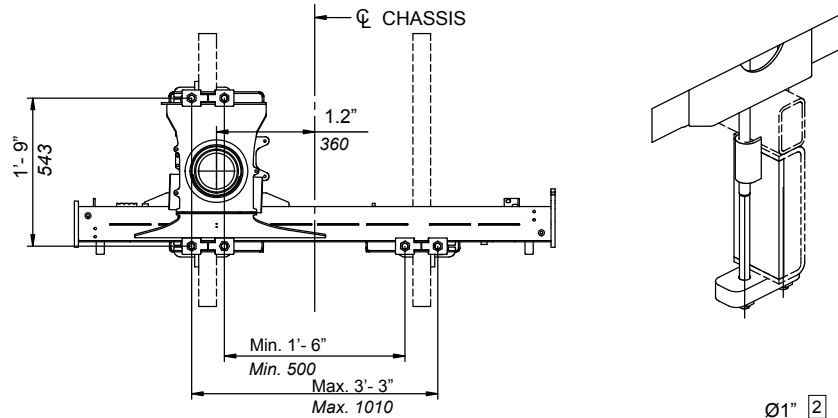


Rotation Radius



Dimension Sketch For Truck Mounted Loader

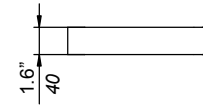
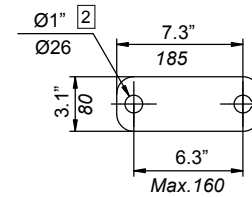
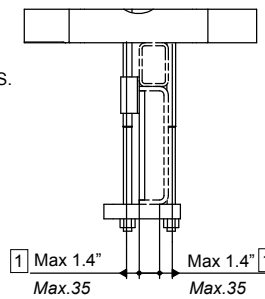
MOUNTING KIT 6 X 7/8 UNF BOLTS.



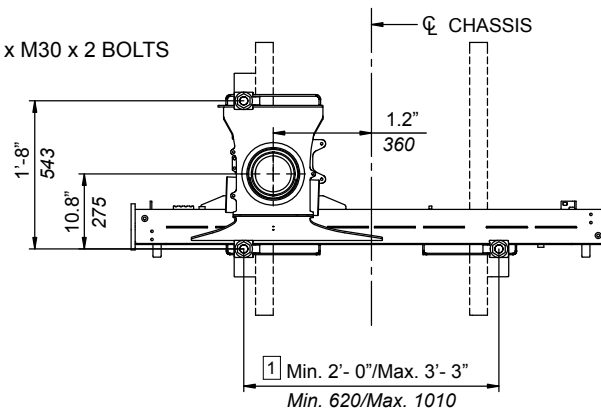
NOTES:

- 1) VALUES DICTATED BY STRENGTH CONSIDERATIONS.
- 2) DRILL HOLE WHEN ASSEMBLING.

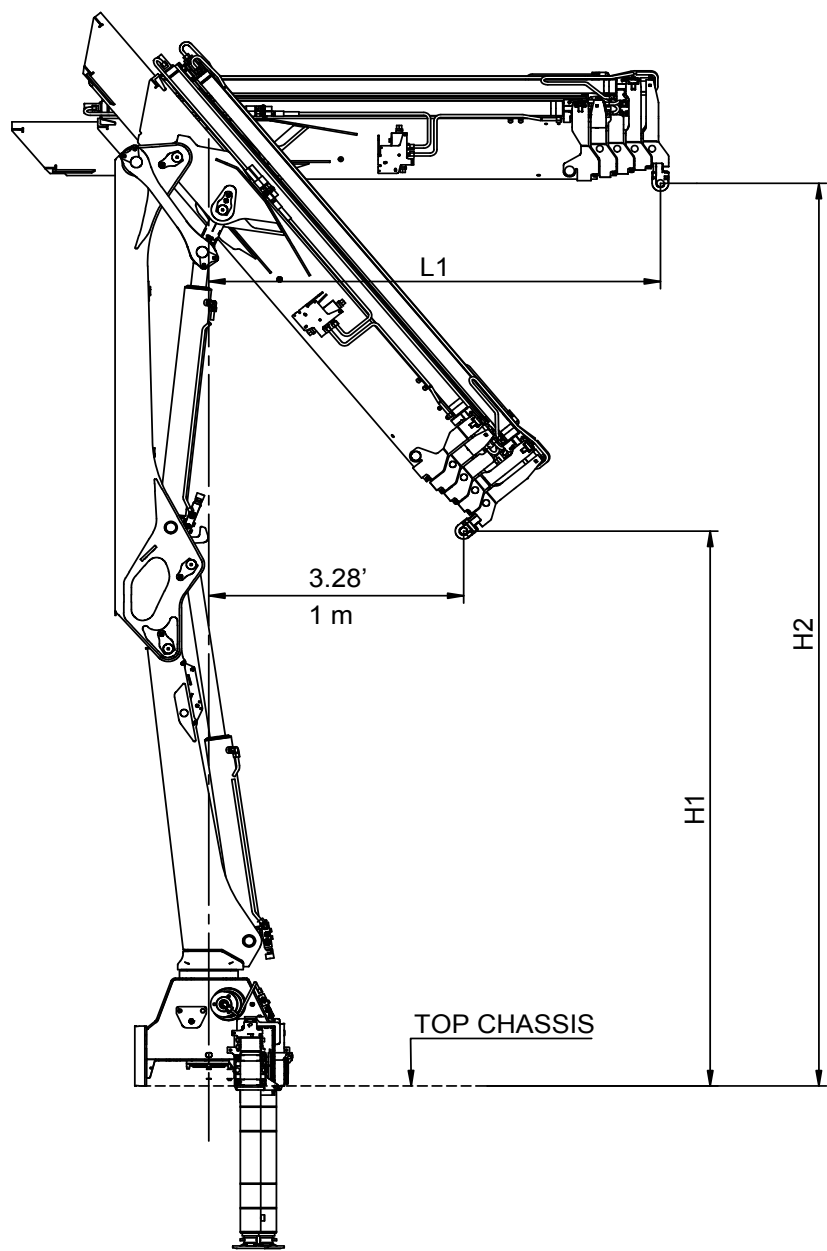
KEY: $\frac{\text{FT / IN}}{\text{mm}}$



MOUNTING KIT 3 X M30 x 2 BOLTS

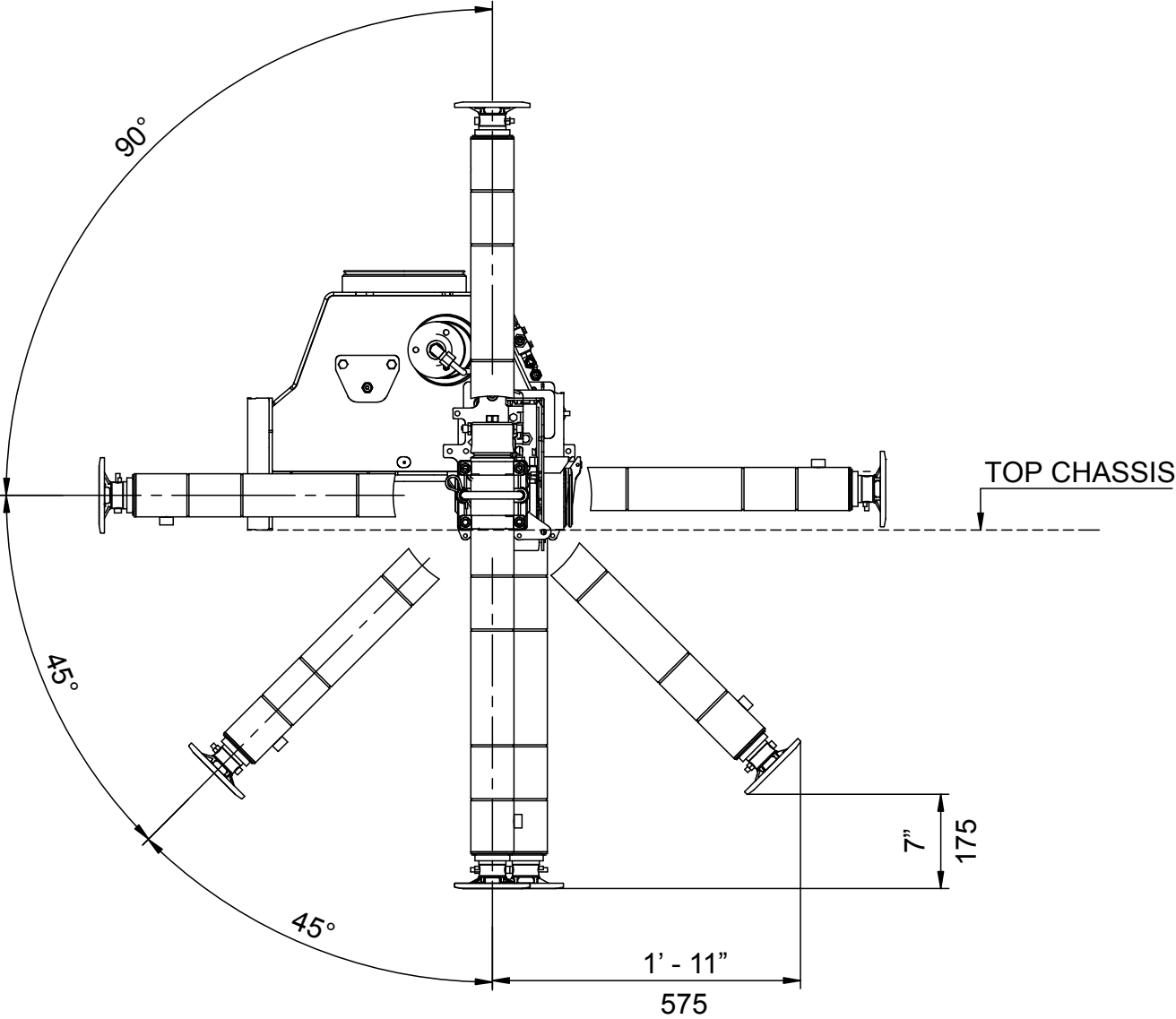


Lifting Height at Column

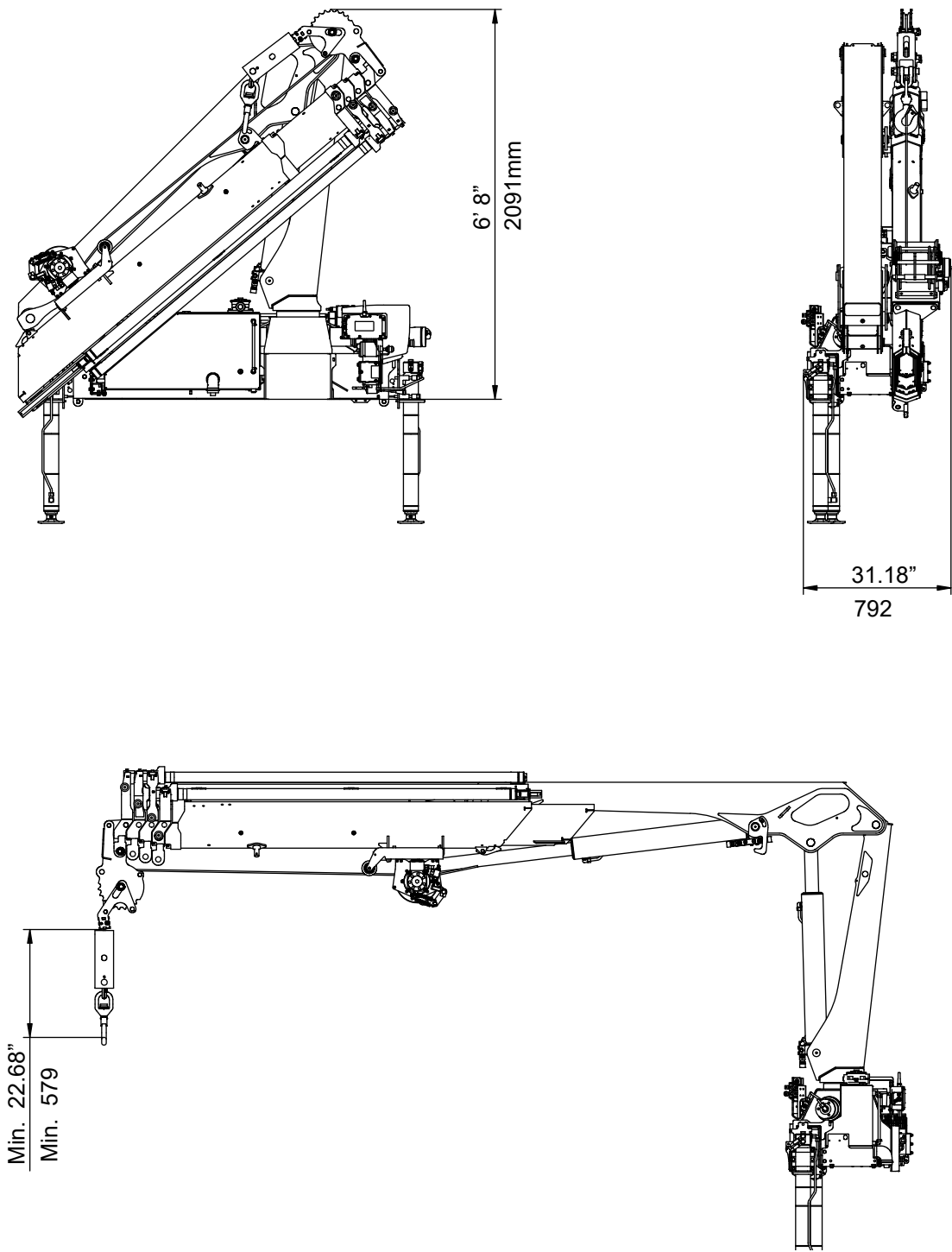


	H1 MM	H1 FEET/INCHES	H2 MM	H2 FEET/INCHES	L1 MM	L1 FEET/INCHES
K1	2755	9'	3870	12' - 8"	1555	5' 1"
K2	2665	8' - 9"	3885	12' - 9"	1625	5' 4"
K3	2580	8' - 5"	3900	12' - 9.5"	1695	5' 7"
K4	2495	8' - 2"	3915	12' - 10"	1765	5' 9"

Dimension Sketch: Swing-Up Stabilizer Legs (Manual)



Winch Dimensions Sketch



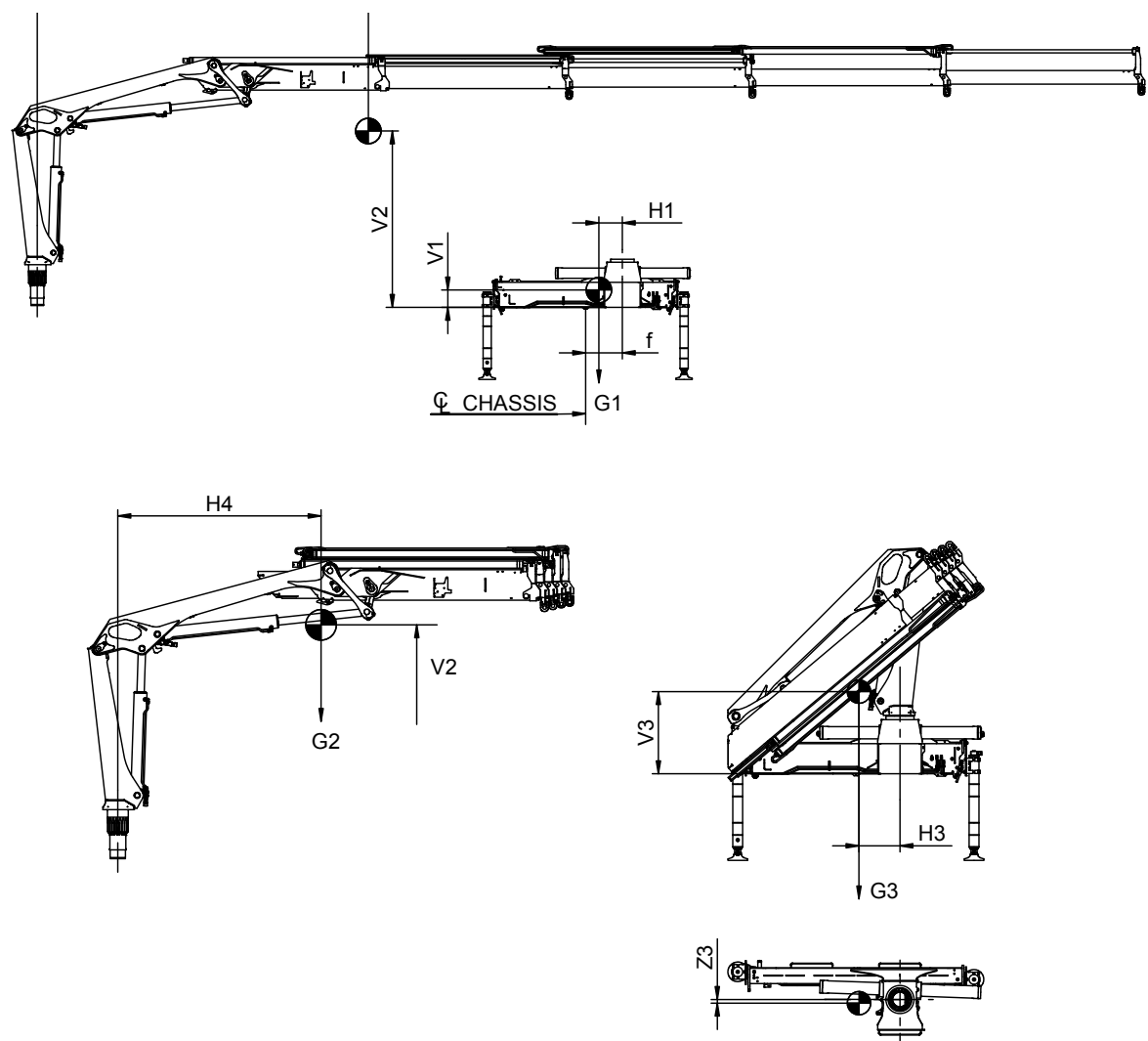
Technical Data - Winch

Performance (at 160 Bar) (2321 psi)	Units	1T Winch	Units	1T Winch
Maximum wire pull - 1st layer	kg	1100	lb	2425
Maximum wire pull - 2nd layer	kg	1000	lb	2205
Maximum wire pull - 3rd layer	kg	920	lb	2028
Maximum wire pull - 4th layer	kg	N/A	lb	

Performance (at 20 g/min):	Units	1T Winch	Units	1T Winch
Maximum wire pull - 1st layer	m/min	16	ft/min	52.5
Maximum wire pull - 2nd layer	m/min	17.5	ft/min	57.4
Maximum wire pull - 3rd layer	m/min	19	ft/min	62.3
Maximum wire pull - 4th layer	m/min	N/A	ft/min	

Weights:	Units	1T Winch	Units	1T Winch
Tare weight, winch (CE)	kg	40	lb	88
Fixed parts (valve section, brackets, hoses, ets)	kg	20	lb	44
Wire Ø8 x 37 m	kg	15	lb	33
Spare parts, single snatch block	kg	35	lb	77
Spare parts, double snatch block	kg	N/A	lb	

Dimension Sketch: Center of Gravity



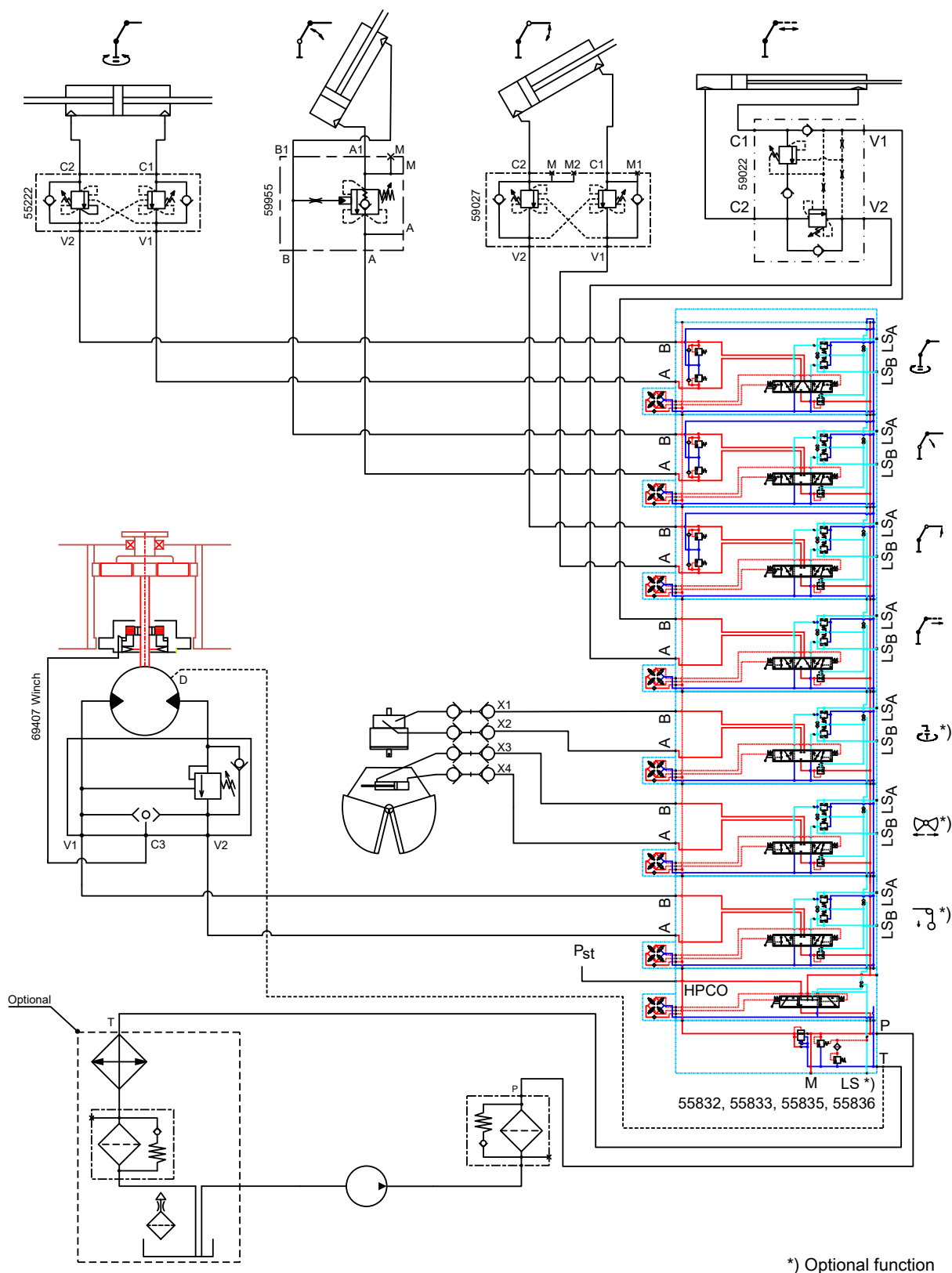
	MM									KG		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
610-K1	140	1810	645	235	1475	360	1260	0	360	305	500	805
610-K2	140	1880	665	235	2050	370	1460	10	360	305	575	880
610-K3	140	1935	685	235	2645	365	1610	25	360	305	645	950
610-K4	140	1975	700	235	3200	360	1710	35	360	305	705	1010
	FEET/INCHES									POUNDS		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
610-K1	5.5"	5'- 11"	2' 1"	9"	4' 10"	1' 2"	4' 2"	0	1' 2"	1'	1' 7"	2' 7"
610-K2	5.5"	6' 2"	2' 2"	9"	6' 8"	1' 2"	4' 9"	0.3"	1' 2"	1'	1' 10"	2' 10"
610-K3	5.5"	6' 4"	2' 3"	9"	8' 6"	1' 1.5"	5' 3"	.08"	1' 2"	1'	2' 1"	3' 1"
610-K4	5.5"	6' 5"	2' 3"	9"	10' 5"	1' 2"	5' 7"	0.11"	1' 2"	1'	2' 3"	3' 4"

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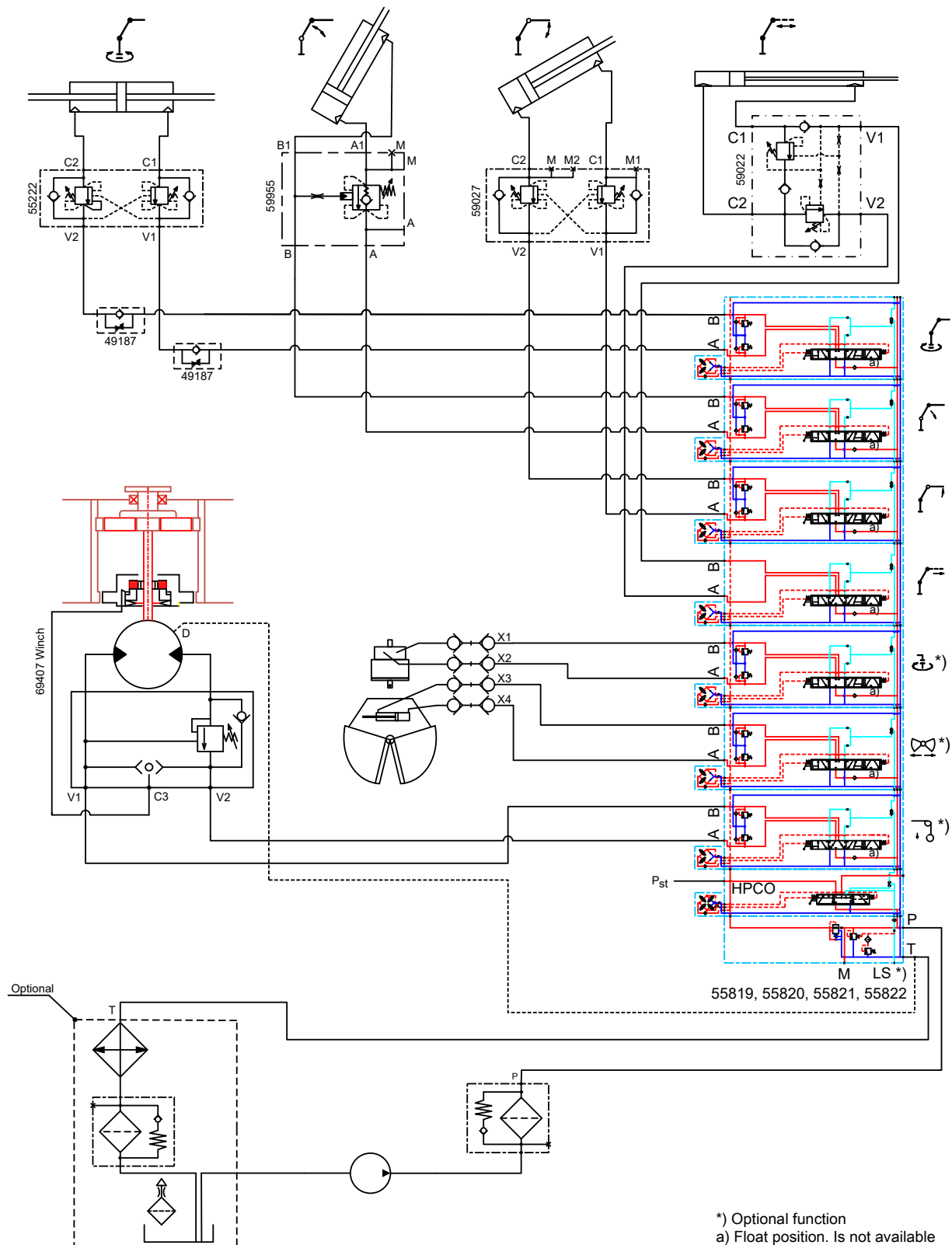
810 / 910 Hydraulic Drawings

Section - 6

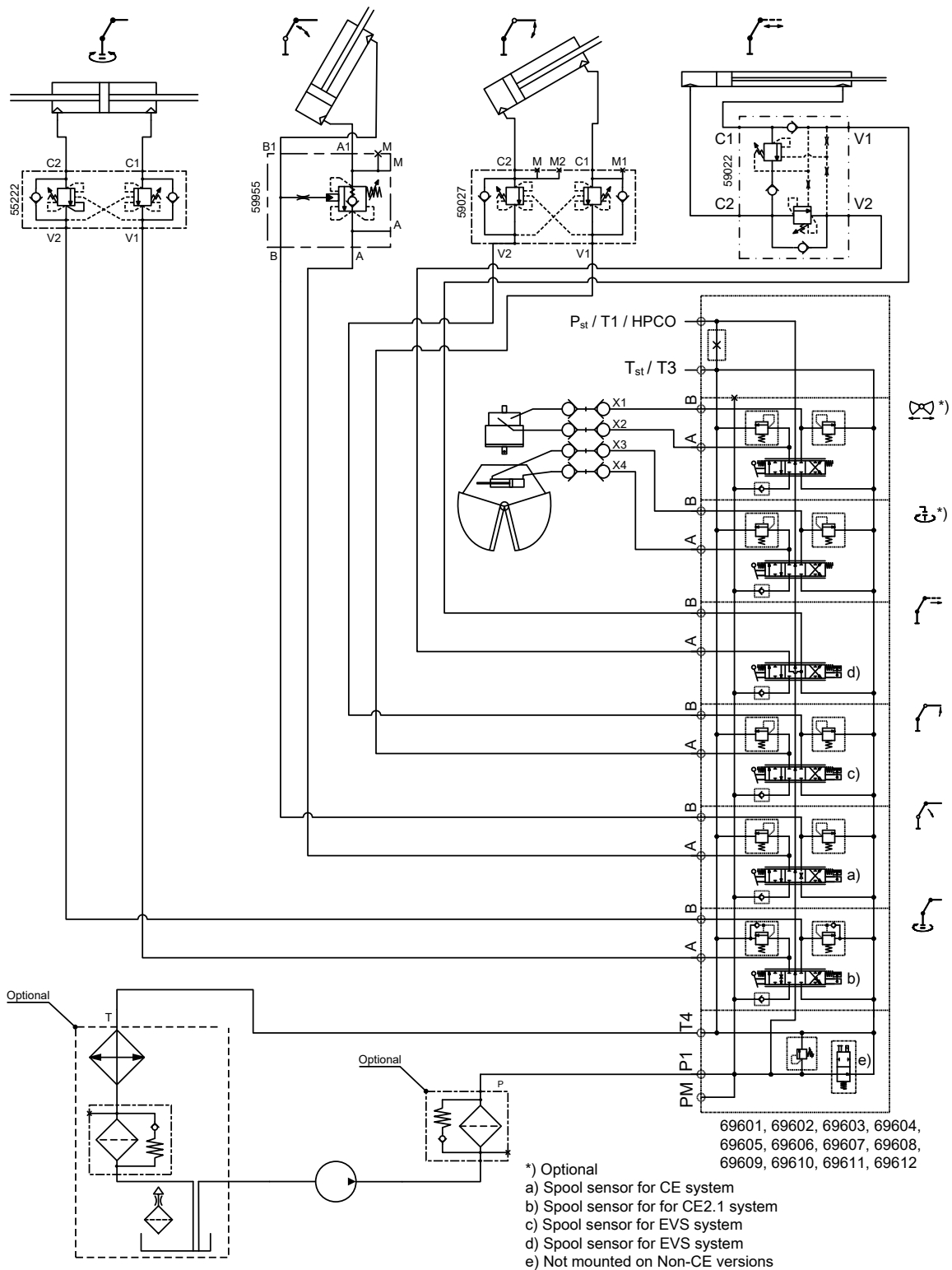
Hydraulic Diagram - Danfoss PVG32, fixed 6 fcts. RC (2 EXV: Grab + Rotator)



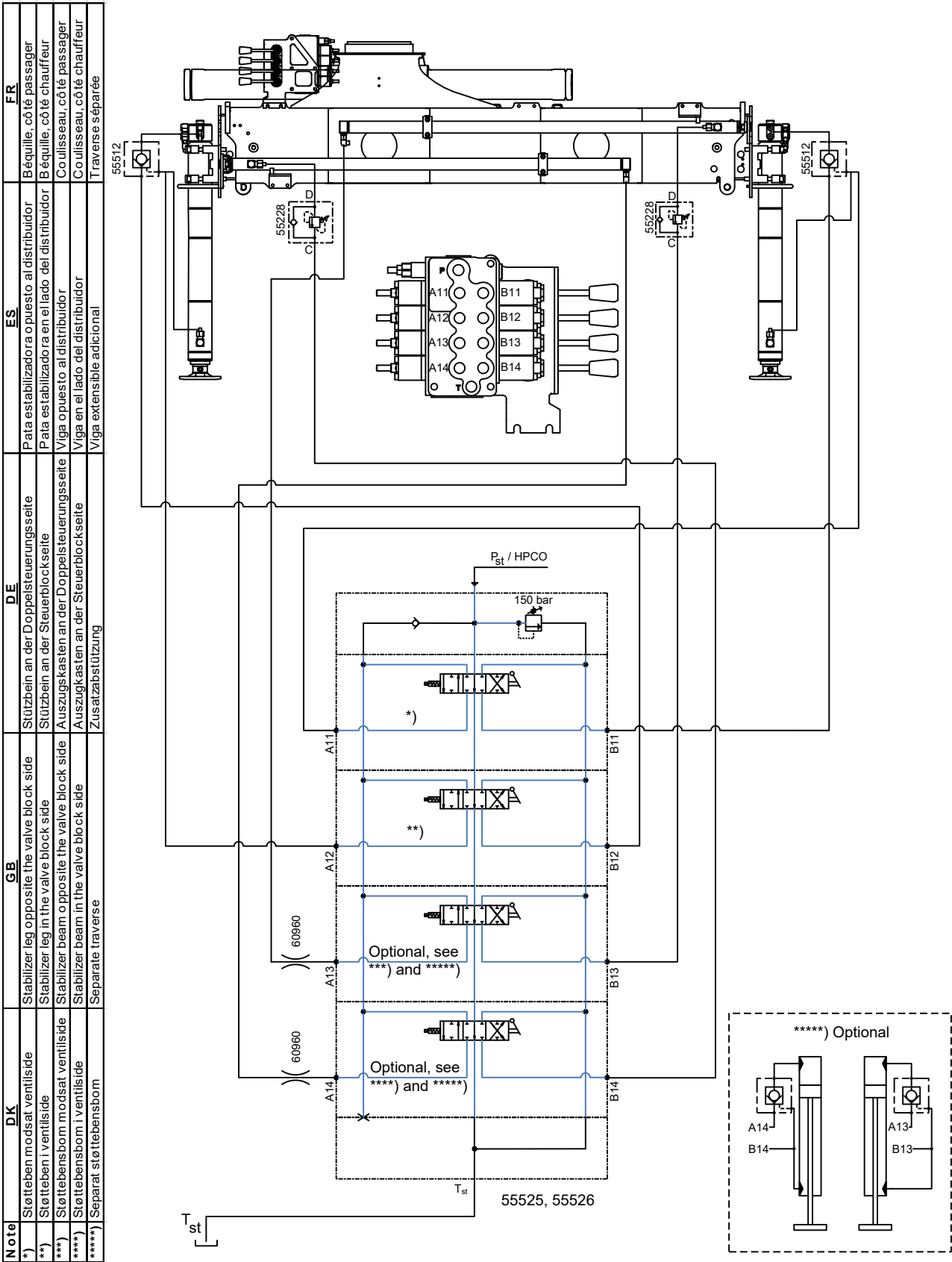
Hydraulic Diagram - Danfoss PVG16, fixed 6 fcts. RC (2 EXV: Grab + Rotator)



Hydraulic Diagram - Nordhydraulic RS210, single-circuit fixed 6 fcts. Std. (2 EXV: Grab + Rotator)

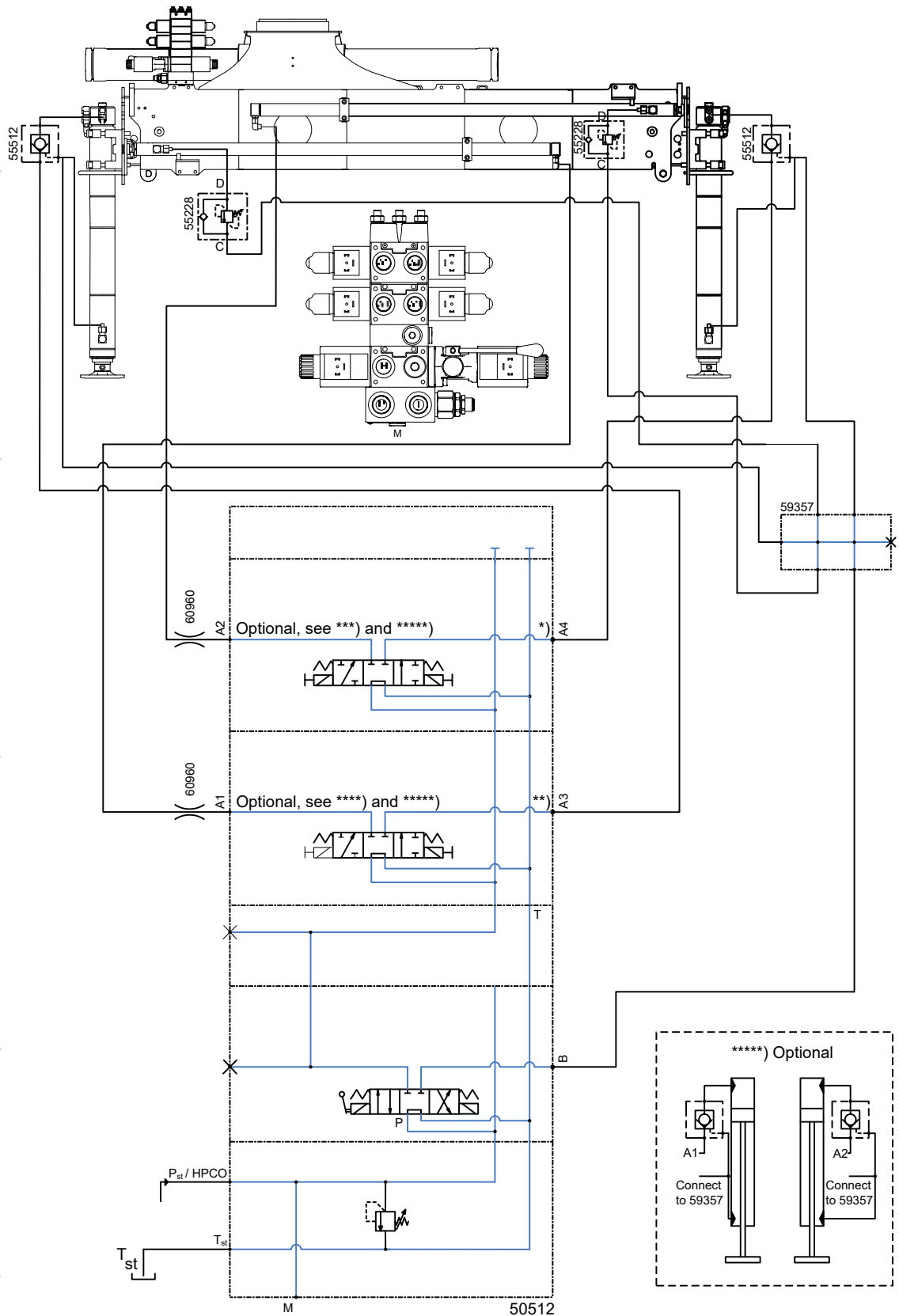


Hydraulic Diagram - Stabilizer circuit – 2/4 fcts.



Hydraulic Diagram - Stabilizer circuit – 2/4 fcts. RC

Note	DK	GB	DE	ES	FR
*) Støtteben modsat ventilside		Stabilizer leg opposite the valve block side	Stützbein an der Doppelsteuerungsseite	P ata estabilizadora opuesto al distribuidor	Béquille, côté passager
**) Støtteben i ventilside		Stabilizer leg in the valve block side	Stützbein an der Steuerblockseite	P ata estabilizadora en el lado del distribuidor	Béquille, côté chauffeur
***) Støttebensbom modsat ventilside		Stabilizer beam opposite the valve block side	A uszugskasten an der Doppelsteuerungsseite	V iga opuesto al distribuidor	Coulisseau, côté passager
****) Støttebensbom i ventilside		Stabilizer beam in the valve block side	A uszugskasten an der Steuerblockseite	V iga en el lado del distribuidor	Coulisseau, côté chauffeur
*****) Separat støttebensbom		Separate traverse	Zusatzabstützung	V iga extensible adicional	Traverse séparée



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Pressure Setting Diagram, Hydac RS210

Working Pressure on Main Relief Valve & Port Relief Valves

FUNCTION	DIRECTION	PORT	810K-MCS (HDL PSI)
MAIN RELIEF VALVE			4713
SLEWING SYSTEM	RIGHT	A	2755
	LEFT	B	2755
BOOM CYLINDER5	DOWN	A	1450
	UP	B	4931
JIB CYLINDER	UP	A	4931
	DOWN	B	2900
EXTENSION CYLINDERS	EXTEND	A	P
	RETRACT	B	P
ROTATOR	RIGHT	A	2900
	LEFT	B	2900
GRAB	OPEN	A	2900
	CLOSE	B	2900
SEPARATE STABILIZER VALVE		ALL	2175

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION	PORT	OPENING (PSI) PRESSURE
BOOM CYLINDER			5076
SLEWING SYSTEM	UP	A	2755
	DOWN	B	2755
SLEWING SYSTEM			3045
EXTENSION CYLINDERS	EXTEND	A	3045
	RETRACT	B	6236

Pressure Setting for Load Moment Limitation (LMB)

LOAD MOMENT LIMITATION (LMB)	4568
------------------------------	------

Pressure Setting for HDL Valve

HDL	4206
-----	------

Max. Pump Performance

Pump Performance, 1-Circuit	gal / min	6.6
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Pressure Setting Diagram, Hydac RS210 (Metric)

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

FUNCTION	DIRECTION	PORT	610K-MCS (HDL BAR)
MAIN RELIEF VALVE			325
SLEWING SYSTEM	RIGHT	A	190
	LEFT	B	190
BOOM CYLINDER5	DOWN	A	80
	UP	B	350
JIB CYLINDER	UP	A	350
	DOWN	B	190
EXTENSION CYLINDERS	EXTEND	A	P
	RETRACT	B	P
ROTATOR	RIGHT	A	210
	LEFT	B	210
GRAB	OPEN	A	250
	CLOSE	B	250
SEPARATE STABILIZER VALVE		ALL	150

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION	PORT	OPENING PRESSURE (BAR)
BOOM CYLINDER			360
SLEWING SYSTEM	UP	A	360
	DOWN	B	210
SLEWING SYSTEM			200
EXTENSION CYLINDERS	EXTEND	A	210
	RETRACT	B	430

Pressure setting for Load Moment Limitation (LMB)

LOAD MOMENT LIMITATION (LMB)	315
------------------------------	-----

Pressure Setting for HDL Valve

HDL	290
-----	-----

Max. Pump Performance

Pump Performance, 1-Circuit	L / min	25
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Pressure Setting Diagram, Danfoss PVG16

Working Pressure on Main Relief Valve & Port Relief Valves

FUNCTION	DIRECTION	PORT	610K-MCS (HDL PSI)
MAIN RELIEF VALVE			4713
SLEWING SYSTEM	RIGHT	A	2755
	LEFT	B	2755
BOOM CYLINDER5	DOWN	A	1160
	UP	B	5076
JIB CYLINDER	UP	A	5076
	DOWN	B	2755
EXTENSION CYLINDERS	EXTEND	A	P
	RETRACT	B	P
ROTATOR	RIGHT	A	3045
	LEFT	B	3045
GRAB	OPEN	A	3625
	CLOSE	B	3625
SEPARATE STABILIZER VALVE		ALL	2175

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION	PORT	OPENING PRESSURE (PSI)
BOOM CYLINDER			5221
SLEWING SYSTEM	UP	A	5221
	DOWN	B	3045
SLEWING SYSTEM			2900
EXTENSION CYLINDERS	EXTEND	A	3045
	RETRACT	B	6236

Pressure setting for Load Moment Limitation (LMB)

LOAD MOMENT LIMITATION (LMB)	4568
------------------------------	------

Pressure Setting for HDL Valve

HDL	4206
-----	------

Max. Pump Performance

Pump Performance, 1-Cirucit	gal / min	6.6
-----------------------------	-----------	-----

Pressure Setting Diagram, Danfoss PVG16 (METRIC)

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

FUNCTION	DIRECTION	PORT	610K-MCS (HDL BAR)
MAIN RELIEF VALVE			325
SLEWING SYSTEM	RIGHT	A	190
	LEFT	B	190
BOOM CYLINDER5	DOWN	A	80
	UP	B	350
JIB CYLINDER	UP	A	350
	DOWN	B	190
EXTENSION CYLINDERS	EXTEND	A	P
	RETRACT	B	P
ROTATOR	RIGHT	A	210
	LEFT	B	210
GRAB	OPEN	A	250
	CLOSE	B	250
SEPARATE STABILIZER VALVE		ALL	150

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION	PORT	OPENING PRESSURE (BAR)
BOOM CYLINDER			360
SLEWING SYSTEM	UP	A	360
	DOWN	B	210
SLEWING SYSTEM			200
EXTENSION CYLINDERS	EXTEND	A	210
	RETRACT	B	430

Pressure setting for Load Moment Limitation (LMB)

LOAD MOMENT LIMITATION (LMB)	315
------------------------------	-----

Pressure Setting for HDL Valve

HDL	290
-----	-----

Max. Pump Performance

Pump Performance, 1-Circuit	L / min	25
-----------------------------	---------	----

910 - RCS, Pressure Setting Diagram, Fixed Flow Pump and Danfoss PVG32

Working pressure on Main Relief Valve & Port Relief Valves

FUNCTION	DIRECTION	PORT	PORT RELIEF VALVES (PSI)	L-S PRESSURE ADJUSTMENT (PSI)(
Main-relief valve			4859	
Slewing system	Right	A	3046	2756
	Left	B	3046	2756
Boom cylinder	Down	A	1450	1160
	Up	B	5076	5801
Jib cylinder	Up	A	5076	5801
	Down	B	3046	2611
Extension cylinders	Extend	A	P	-
	Retract	B	P	-
Rotator	Right	A	P	2901
	Left	B	P	2901
Grab	Open	A	P	3626
	Close	B	P	3626
Winch 1,5T	Lift	A	P	2321
	Lower	B	P	2321
Separate stabilizer valve		ALL	2176	

Working Pressure On Load Holding Valves

FUNCTION	DIRECTION		OPENING PRESSURE PSI
Slewing System	Right		2901
	Left		2901
Boom Cylinder	Up		5149
	Down		-
Jib Cylinder	Up		5149
	Down		2191
Extension Cylinder	Extend		6237
	Retract		3046

Pressure Setting for Load Moment Limitation (LMB)

Load moment limitation (LMB) (PSI)	4714
HDL (PSI)	4206

Max. Pump Performance

Choice of Pump	1 X Fixed
Pump Performance (g/min)	13.2

910 - RCS, Pressure Setting Diagram, Fixed Flow Pump and Danfoss PVG32 (METRIC)

Working pressure on Main Relief Valve & Port Relief Valves

FUNCTION	DIRECTION	PORT	PORT RELIEF VALVES (Bar)	L-S PRESSURE ADJUSTMENT (Bar)
Main-relief valve			335	
Slewing system	Right	A	210	190
	Left	B	210	190
Boom cylinder	Down	A	100	80
	Up	B	350	400
Jib cylinder	Up	A	350	400
	Down	B	210	180
Extension cylinders	Extend	A	P	-
	Retract	B	P	-
Rotator	Right	A	P	200
	Left	B	P	200
Grab	Open	A	P	250
	Close	B	P	250
Winch 1,5T	Lift	A	P	160
	Lower	B	P	160
Separate stabilizer valve		ALL	150	

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION		OPENING PRESSURE PSI
Slewing System	Right		200
	Left		200
Boom Cylinder	Up		355
	Down		-
Jib Cylinder	Up		355
	Down		220
Extension Cylinder	Extend		430
	Retract		210

Pressure Setting for Load Moment Limitation (LMB)

Load moment limitation (LMB) (Bar)	325
HDL (Bar)	290

Max. Pump Performance

Choice of Pump	1 X Fixed
Pump Performance (L/min)	50

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810 / 910 Service Information

Section - 7

Mounting of Stabilizer Legs

Guide to mounting of stabilizer legs on the 610K-710K-810K-910K crane series.

The purpose of this guide is to describe the mounting of hoses from the stabilizer beam to the stabilizer cylinder which includes connections, hoses, and protective covers.

It applies to the following series:

610K - MC / MCS / RC
710K - RCS
810K - MC / MCS / RC
910K - RCS

The above mentioned crane series are supplied with the stabilizer leg part no. 6367100 as standard equipment, which can be mounted in a number of different ways - depending on the vehicle/installation.

- 1) Swing-up
- 2) Swing-up + adjusted 100 mm upwards
- 3) Vertical
- 4) Vertical + adjusted 100 mm upwards
- 5) Vertical + adjusted 200 mm upwards

All of the above-mentioned configurations are covered by the mounting kit which is delivered as standard for all the crane series included in this document.

- 6) Vertical + adjusted 300 mm upwards

Note: The above-mentioned requires the mounting kit 6367960 which needs to be ordered separately. See description of the individual stabilizer versions for additional details.

General guidelines:

Please see the following Spare Parts Catalog:

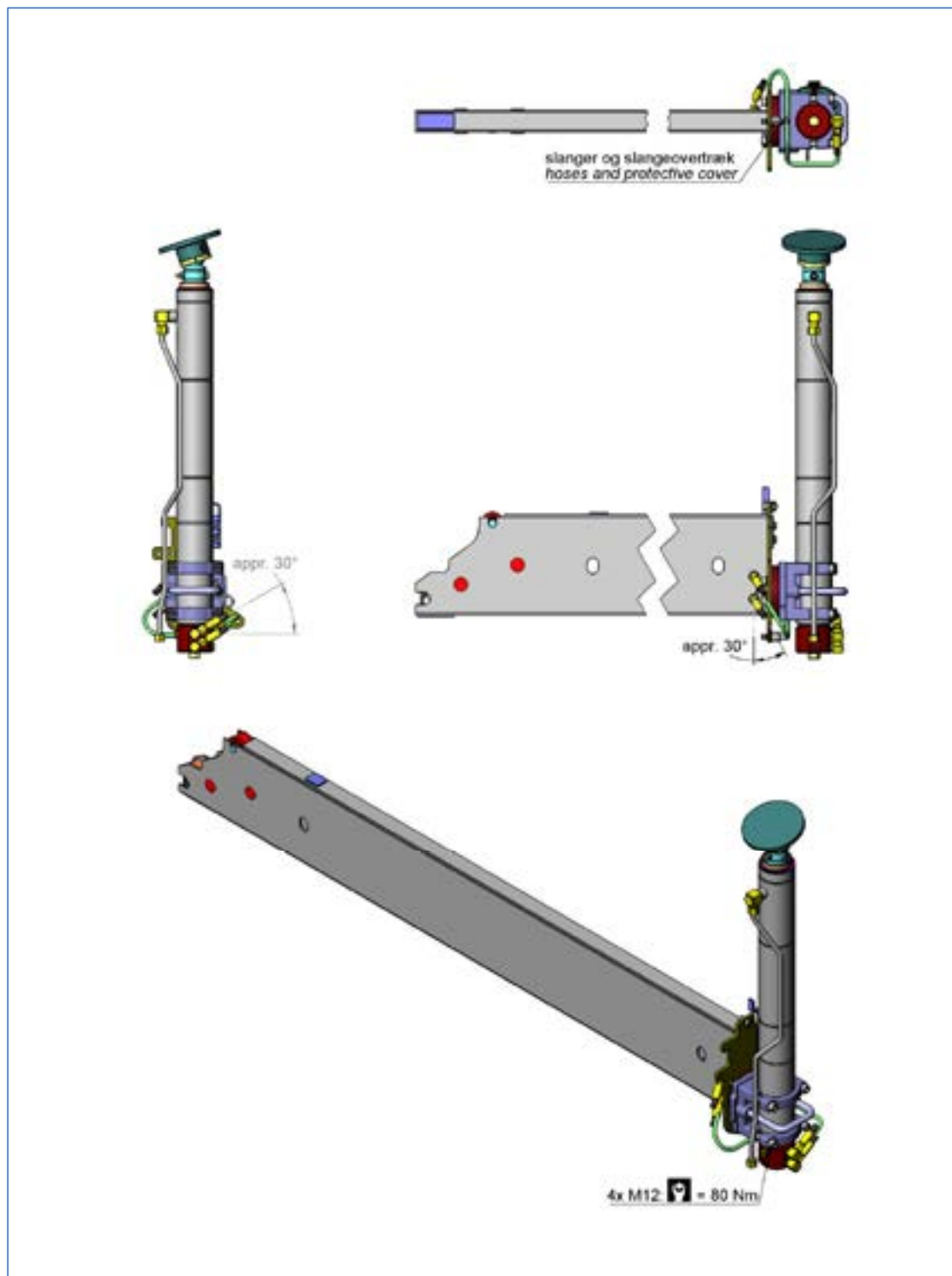
610-K / 710-K Series 556 02 070/556 02 080
810-K / 910-K Series 557 02 070/557 02 080

- for mounting of the stabilizer cylinder on the stabilizer beam.

Note: torque of the 4 x M12 pins: 80 Nm

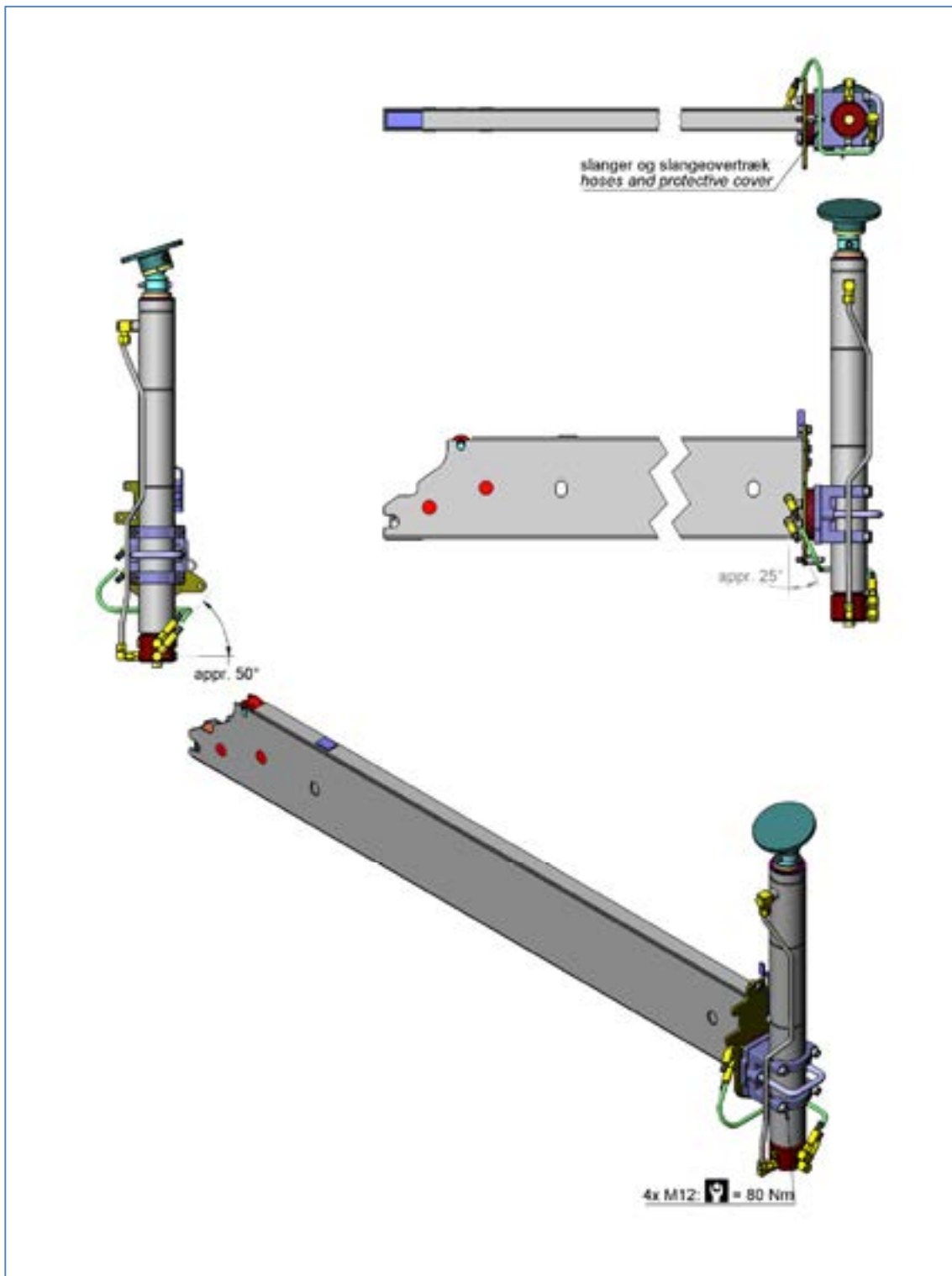
Swing Up Stabilizer Leg, Standard (SR)

Lead the hoses and the protective cover via the green route.



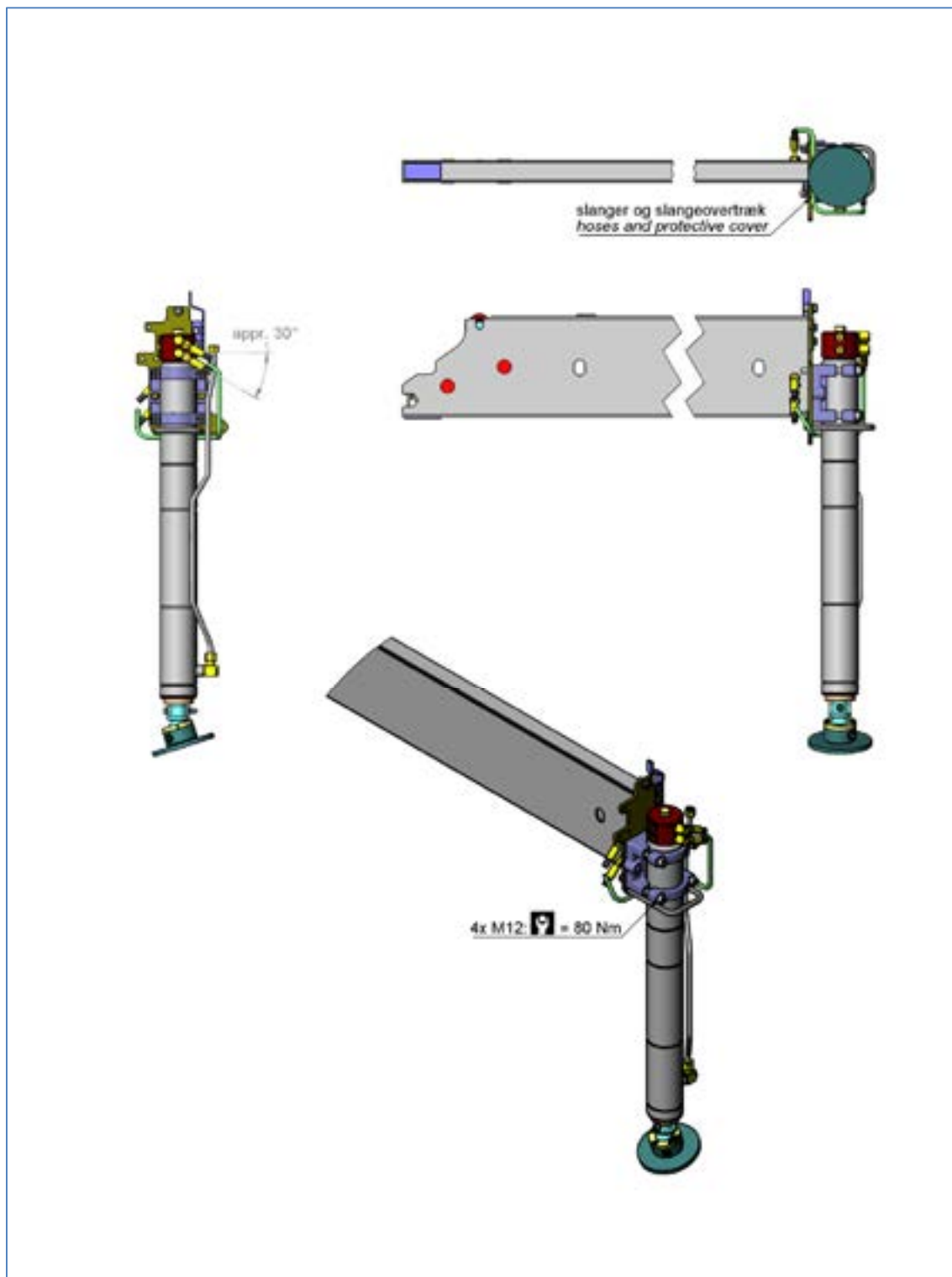
Swing up stabilizer leg, adjusted by 100 mm (SR + 100)

Lead the hoses and the protective cover via the green route.



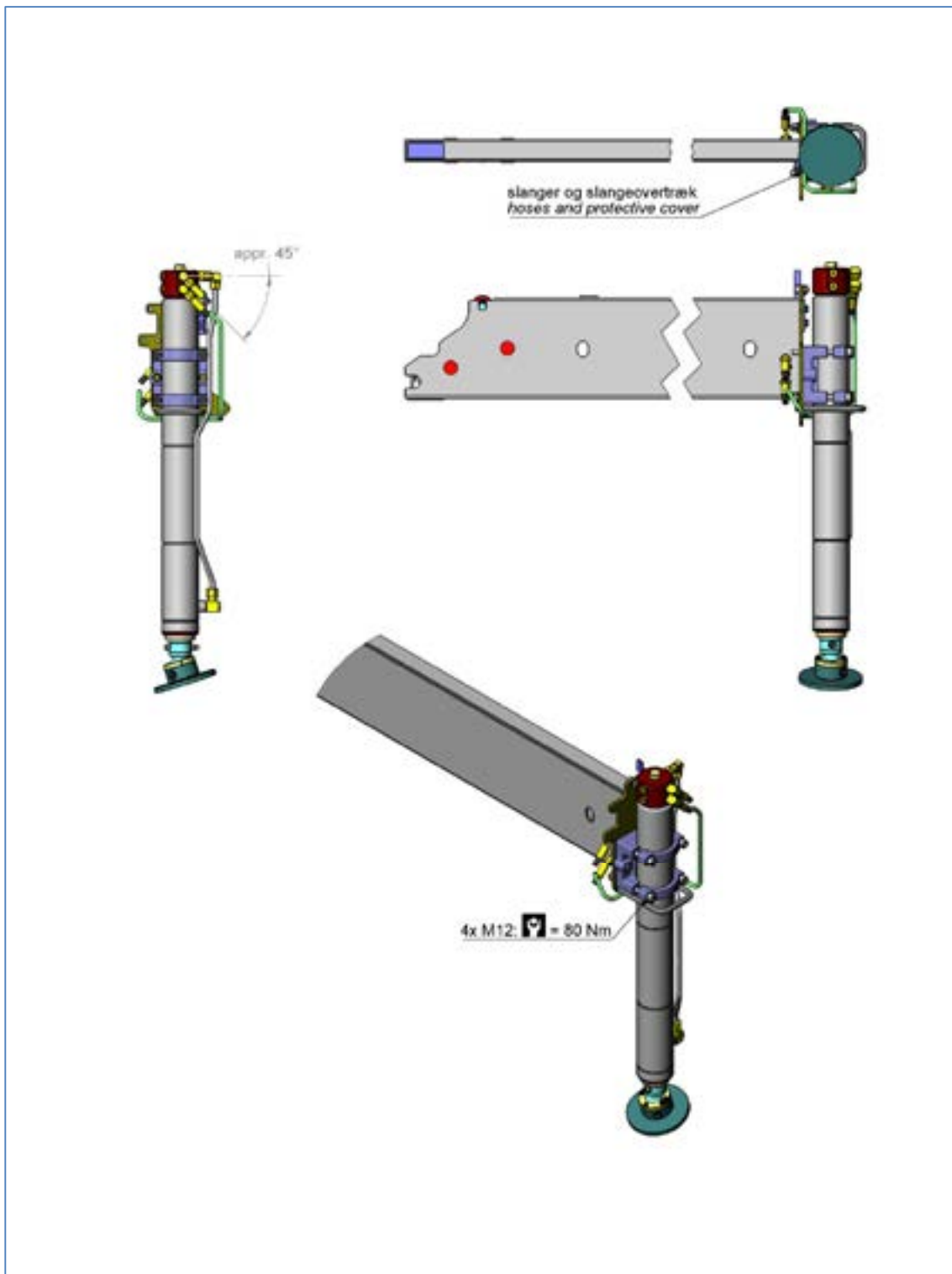
Vertical stabilizer leg, standard (SV)

Lead the hoses and the protective cover via the green route.



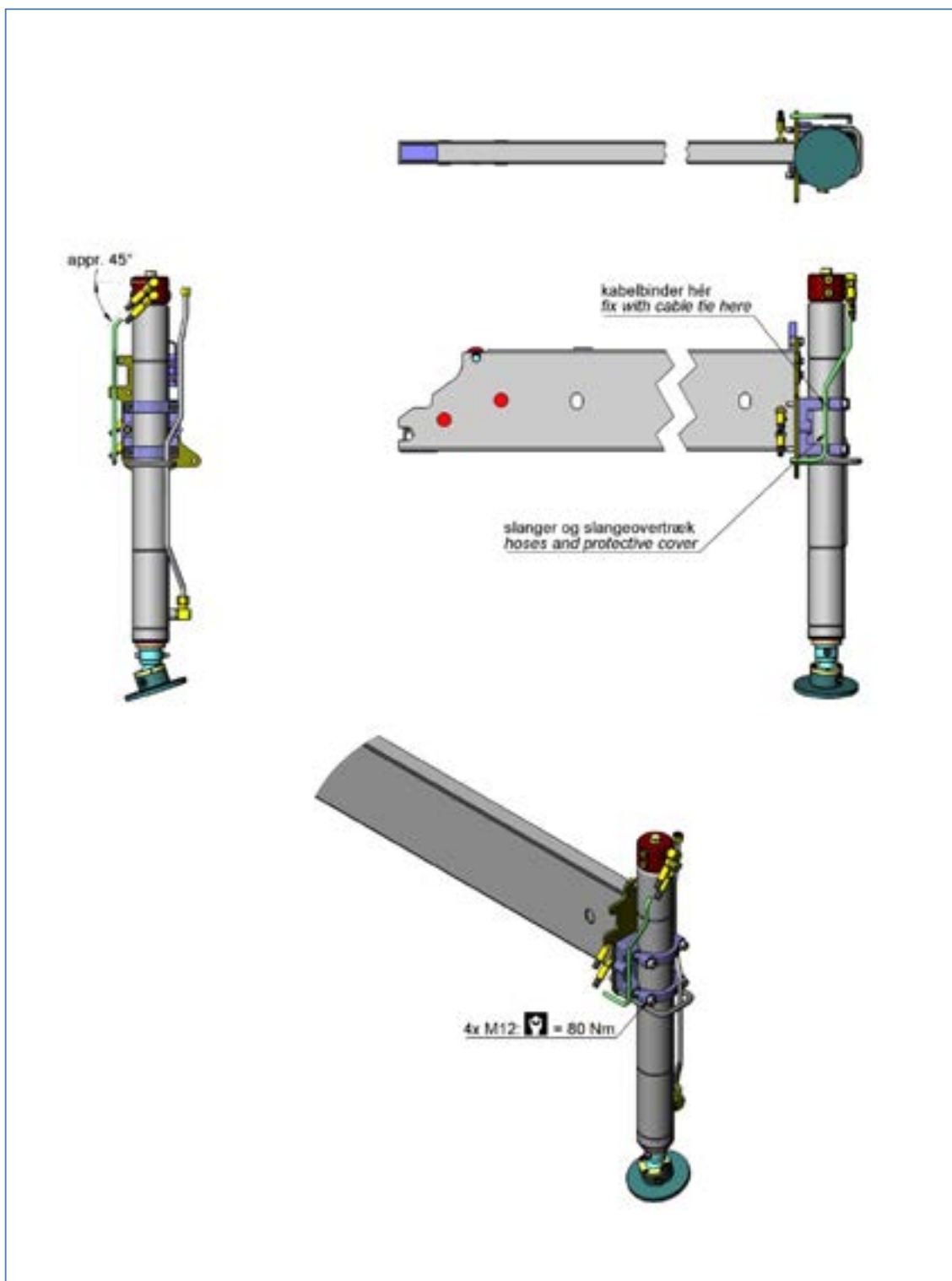
Vertical stabilizer leg, adjusted by 100 mm (SV + 100)

Lead the hoses and the protective cover via the green route.



Vertical stabilizer leg, adjusted by 200 mm (SV + +200)

Lead the hoses and the protective cover via the green route.





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