



IOWA MOLD TOOLING CO., INC.

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

Manual # 99906130

610 MCS / RC 710 RCS Technical Specifications

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610 MCS/RC Technical Specifications

SECTION - 1

610 MCS/RC/RC Specifications

Performance	Unit	610-K1	610-K2	610-K3	610-K4
Loading group (EN12999)		HC1 / HD5			
Load moment	ft-lb	39370	38713	36745	36089
Hydraulic reach	ft	17'1"	23'4"	29'6"	35'5"
Hydraulic telescopic movement	ft	5'7"	11'8"	17'4'	23'4"
Lifting capacity, hydraulic	lb-ft	3814-11'6"	3616-11'10"	3439-11'10"	3296-12'2"
		2546-17'1"	2370-17'5"	2216-17'9"	2094-17'9"
			1742-23'3"	1620-23'3"	1510-23'3"
				1268-29'2"	1157-29'6"
					948-35'5"
Lifting capacity, manual extensions	lb-ft	1797-23'5"	1323-29'6"	992-35'5"	661-41'8"
Slewing torque, gross	ft-lb	5900			
Slewing angle	°	400			
Max. heel at max. load moment	°	5			
Slewing speed	°/s	24			

Dimensions	Unit	610-K1	610-K2	610-K3	610-K4
Height above chassis	ft/in	6'	6'	6'-1'	6'-2'
Width	ft/in	6' - 11"			
Length, no extra valves	in	26			
Length, with extra valves (hose guides)	in	30			
Length, with extra valves (int. hose routing)	in	25			
Stabilizer spread, S1 (standard)	ft/in	11'2"			
Stabilizer spread, S2	ft/in	14'5"			
Stabilizer spread, D	ft/in	17'1"			

610 MCS/RC Specifications - Continued

Weights, basic loader	Unit	610-K1	610-K2	610-K3	610-K4
Standard loader 1), excl. stabilizers	lb	1389	1554	1708	1841
Stabilizers, S1 fixed	lb			253	
Stabilizers, S1 swing-up	lb			265	
Stabilizers, S2 fixed	lb			309	
Stabilizers, S2 swing-up	lb			319	
Stabilizers, D fixed	lb			352	
Stabilizers, D swing-up	lb			363	
Mounting kit, 3 bolts	lb			99	
Mounting kit, 6 bolts	lb			121	
Tank, excl. oil (fitted on loader)	lb			77	
Manual extensions	lb	88	77	53	39
Oil in loader (stowing position)	lb	22	26	30	33

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

Weights, equipment	Unit	610-K1	610-K2	610-K3	610-K4
1 extra valve, hose guides	lb	88	121	143	165
2 extra valves, hose guides	lb	132	165	198	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)	Unit	610-K1	610-K2	610-K3	610-K4
S1, fixed	ft lb			12364	
S1, swing-up	ft lb			12364	
S2, fixed	ft lb			12364	
S2, swing-up	ft lb			12364	

Power Consumption / Oil Capacity	Unit	610-K1	610-K2	610-K3	610-K4
Working pressure	psi			4714	
Tank capacity (fitted on loader)	ga			14.5	
Max. pump performance, 1-circuit	g/min			6.6	

610 MCS/RC Metric Specifications

PERFORMANCE		610-K1	610-K2	610-K3	610-K4
Loading group (EN12999)		HC1 / HD4			
Load moment	tm	6.0	5.9	5.6	5.5
Hydraulic reach	m	5.2	7.1	8.9	10.8
Hydraulic telescopic movement	mm	1725	3560	5285	7120
Lifting capacity, hydraulic	kg-m	1730 - 3.5 1155 - 5.2	1640 - 3.6 1075 - 5.3 790 - 7.1	1560 - 3.6 1005 - 5.4 735 - 7.1 575 - 8.9	1495 - 3.7 950 - 5.4 685 - 7.1 525 - 9.0 430 - 10.8
Lifting capacity, manual extensions	kg-m	715 - 7.1	520 - 8.9	380 - 10.8	325 - 12.7
Slewing torque, gross	kNm	8			
Slewing Angle	°	400			
Max. heel at max. load moment	°	5			
Slewing speed	%s	24			

Dimensions

Height above chassis	mm	1840	1840	1860	1895
Width	mm	2100			
Length, no extra valves	mm	664			
Length, with extra valves (hose guides)	mm	755			
Length, with extra valves (int. hose routing)	mm	641			
Stabilizer spread, S1 (standard)	mm	3400			
Stabilizer spread, S2	mm	4400			
Stabilizer Spread D	mm	5200			

Weight, basic loader

Standare 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 postion)	kg	10	12	14	15

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

610 MCS/RC Metric Specifications- continued

Weights, equipment		610-K1	610-K2	610-K3	610-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

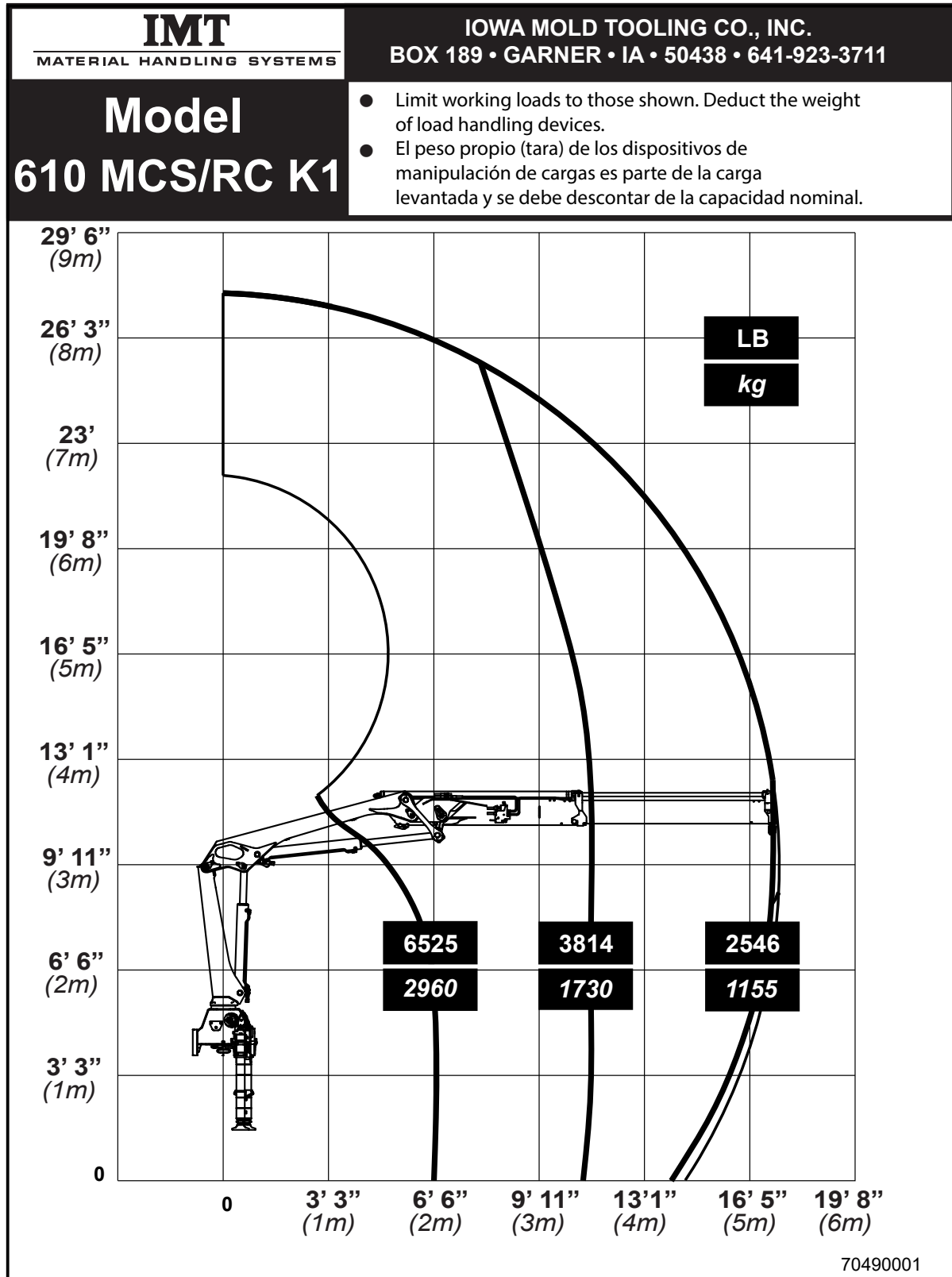
Power consumption / oil capacity

Working Pressure	Bar	325
Tank capacity (fitted on loader)	L	55
Max. pump performance, 1-circuit	L/min	25

610 MCS/RC Lifting Capacity Charts

SECTION - 2

610 MCS/RC Lifting Capacity Chart, K1



REVISIONS

610K MCS/RC Lifting Capacity Chart, K2

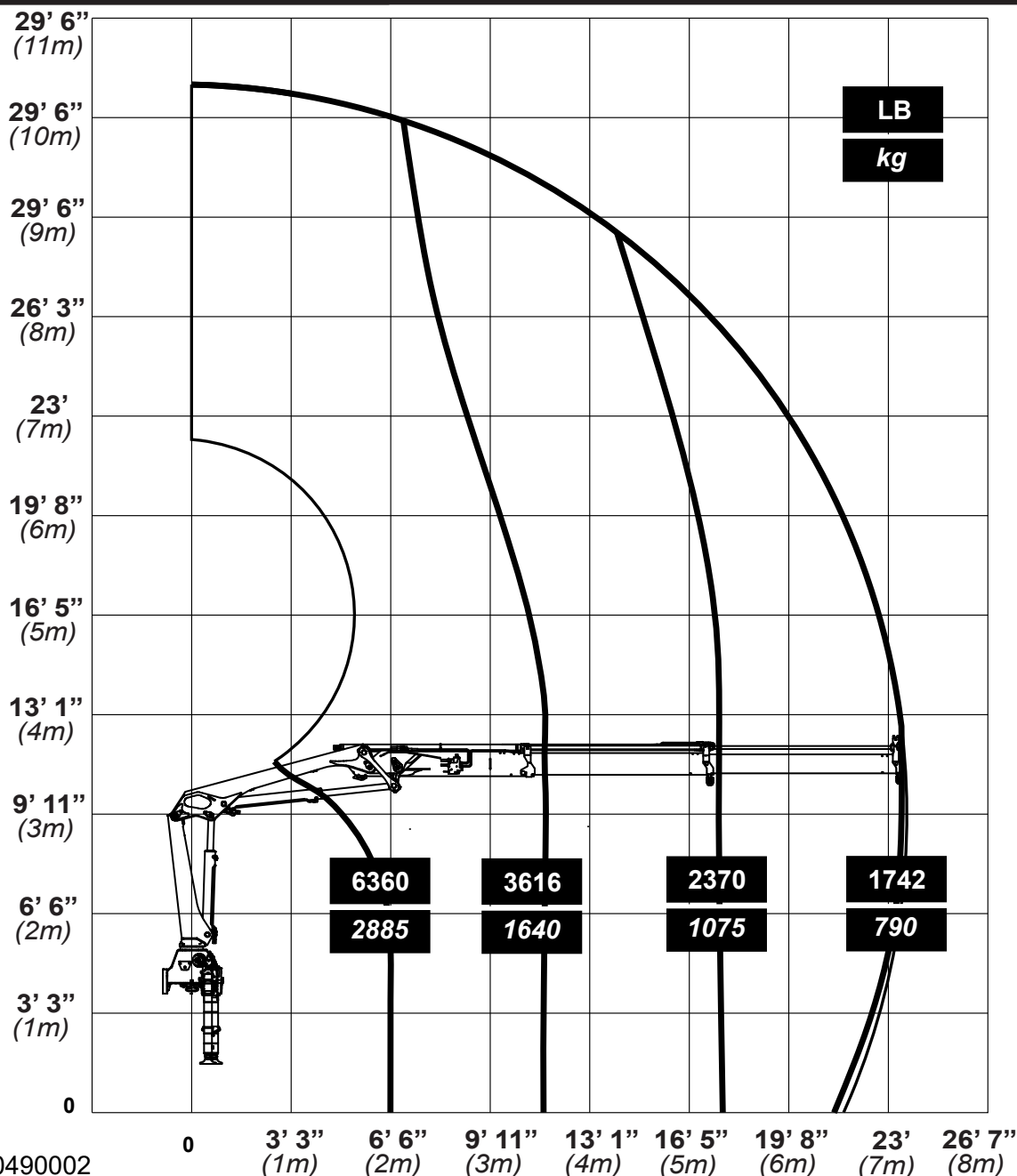
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MATERIAL HANDLING SYSTEMS

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Model 610 MCS/RC 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.*



610 MCS/RC Lifting Capacity Chart, K3

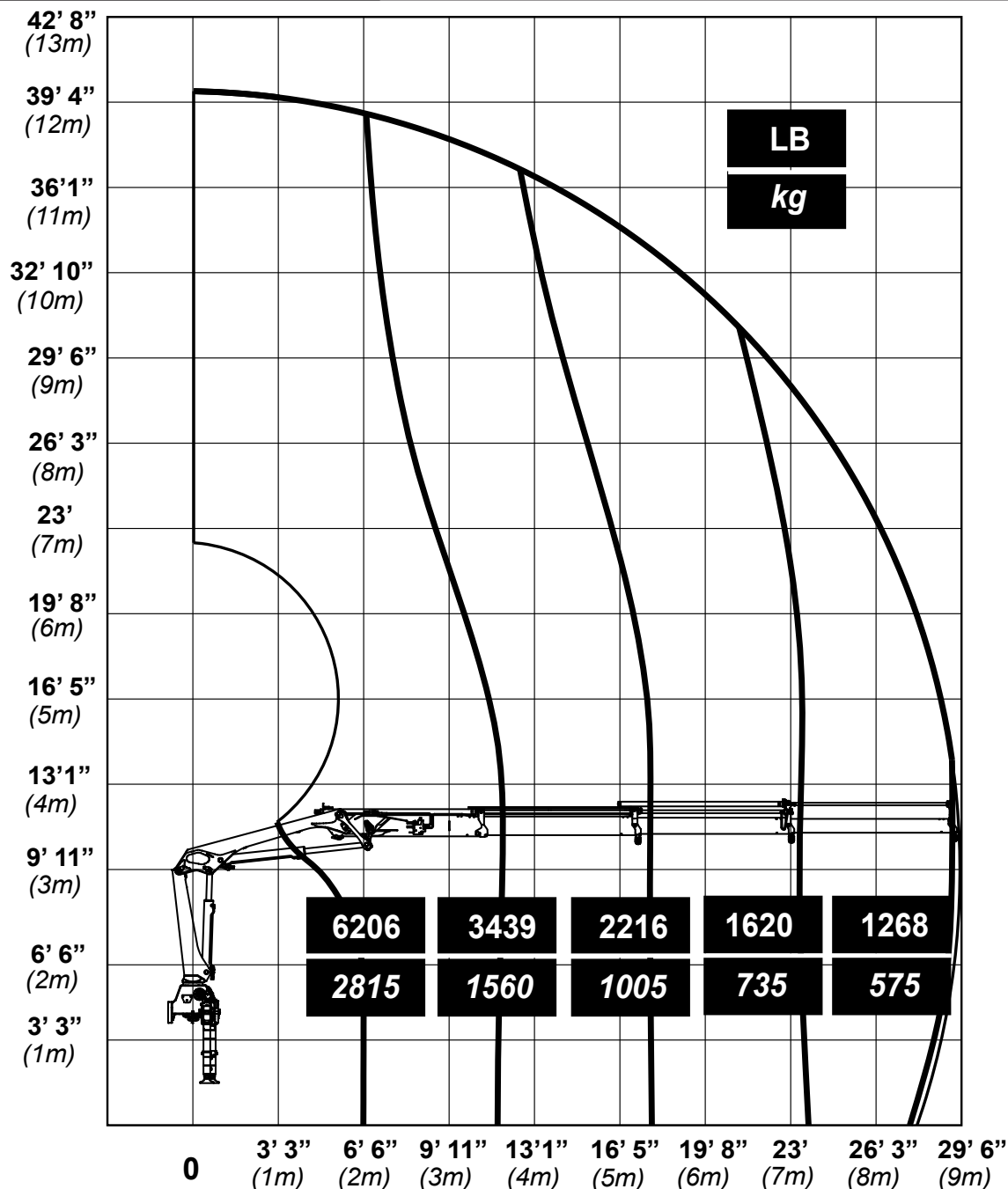
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Model 610 MCS/RC K3

- 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.*



610 MCS/RC Lifting Capacity Chart, K4

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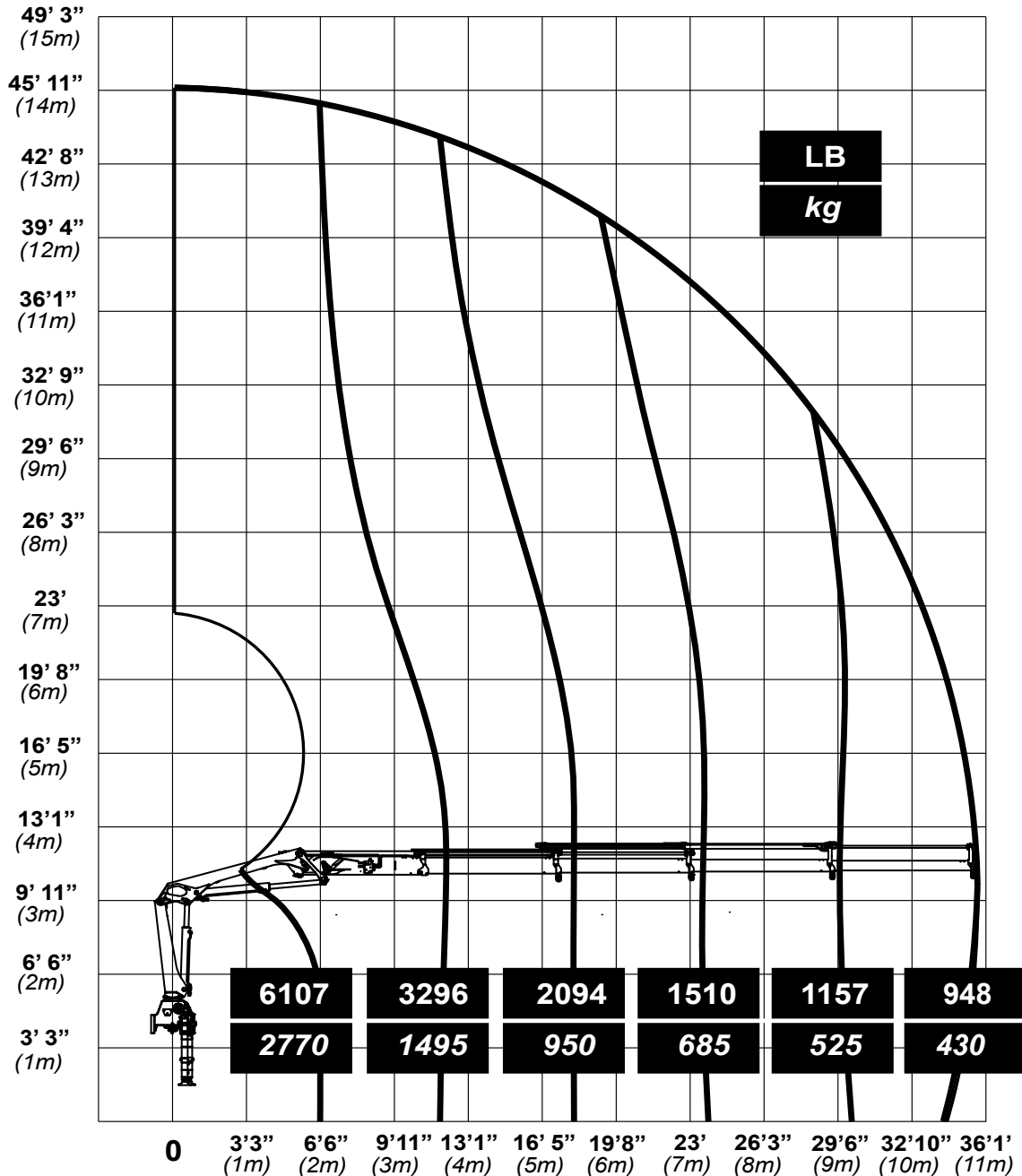
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Model 610 MCS/RC K4

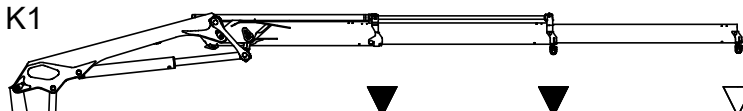
- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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610 MCS/RC Lifting Capacity, K1-K4

K1



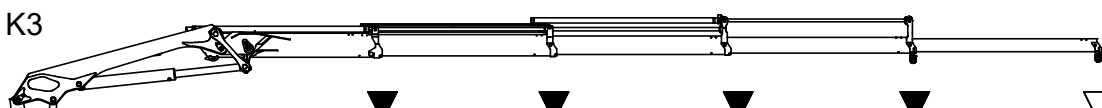
	▼	▼	▽
$\frac{\text{KG}}{\text{M}}$	$\frac{1730}{3.5}$	$\frac{1155}{5.2}$	$\frac{815}{7.1}$
$\frac{\text{LB}}{\text{FT}}$	$\frac{3814}{11' 6''}$	$\frac{2546}{17' 1''}$	$\frac{1797}{23' 3''}$

K2



	▼	▼	▼	▽
$\frac{\text{KG}}{\text{M}}$	$\frac{1640}{3.6}$	$\frac{1075}{5.3}$	$\frac{790}{7.1}$	$\frac{600}{8.9}$
$\frac{\text{LB}}{\text{FT}}$	$\frac{3616}{11' 10''}$	$\frac{2370}{17' 5''}$	$\frac{1742}{23' 3''}$	$\frac{1323}{29' 6''}$

K3



	▼	▼	▼	▼	▽
$\frac{\text{KG}}{\text{M}}$	$\frac{1560}{3.6}$	$\frac{1005}{5.4}$	$\frac{735}{7.1}$	$\frac{575}{8.9}$	$\frac{450}{10.8}$
$\frac{\text{LB}}{\text{FT}}$	$\frac{3439}{11' 10''}$	$\frac{2216}{17' 9''}$	$\frac{1620}{23' 3''}$	$\frac{1268}{29' 2''}$	$\frac{992}{35' 5''}$

K4



	▼	▼	▼	▼	▼	▽
$\frac{\text{KG}}{\text{M}}$	$\frac{1495}{3.7}$	$\frac{950}{5.4}$	$\frac{685}{7.1}$	$\frac{525}{9.0}$	$\frac{430}{10.8}$	$\frac{300}{12.7}$
$\frac{\text{LB}}{\text{FT}}$	$\frac{3296}{12' 2''}$	$\frac{2904}{17' 9''}$	$\frac{1510}{23' 3''}$	$\frac{1157}{29' 6''}$	$\frac{948}{35' 5''}$	$\frac{661}{41' 8''}$

710 RCS TECHNICAL DATA

SECTION - 3

710 RCS Specifications

Performance	Unit	710-K1	710-K2	710-K3	710-K4
Loading group (EN12999)		HC1 / HD5			
Load moment	ft-lb	45184	43749	41597	40880
Hydraulic reach	ft	17' 1"	23' 4"	29' 6"	35' 5"
Hydraulic telescopic movement	ft	5' 8"	11' 8"	17' 4'	23' 4"
Lifting capacity, hydraulic	lb-ft	3935 - 11'6" 2635 - 17'1"	3715 - 11'10" 2458 - 17'5" 1808 - 23'4"	3560 - 11'10" 2303 - 17'9" 1687 - 23'5" 1323 - 29'6"	3417 - 12'2" 2183 - 17'9" 1565 - 23'4" 1213 - 29'6" 992 - 35'5"
Lifting capacity, manual extensions	lb-ft	1863 - 23'4"	1378 - 29'6"	1036 - 35' 5"	661 - 41'8"
Slewing torque, gross	ft-lb	5900			
Slewing angle	°	400			
Max. heel at max. load moment	°	5			
Slewing speed	°/s	24			

Dimensions	Unit	710-K1	710-K2	710-K3	710-K4
Height above chassis	ft/in	6'	6'	6'-1"	6'-3"
Width	ft/in	6' 9"			
Width, with extra valves (int. hose routing)	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	22	26	31	33

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

710 RCS Specifications- continued

Weights, equipment		710-K1	710-K2	710-K3	710-K4
1 extra valves, hose guides	lb	88	121	145	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-lb	12364
S1, swing-up	ft-lb	12364
S2, fixed	ft-lb	12364
S2, swing-up	ft-lb	12364

Power consumption / oil capacity

Working Pressure	psi	4714
Tank capacity (fitted on loader)	ga	14.5
Max. pump performance, 1-circuit	g/min	40

710 RCS Metric Specifications

PERFORMANCE		710-K1	710-K2	710-K3	710-K4
Loading group (EN12999)		HC1 / HD4			
Load moment	tm	6.3	6.1	5.8	5.7
Hydraulic reach	m	5.2	7.1	9.0	10.8
Hydraulic telescopic movement	mm	1725	3560	5285	7120
Lifting capacity, hydraulic	kg-m	1785 - 3.5 1195 - 5.2	1685 - 3.6 1115 - 5.3 820 - 7.1	1615 - 3.6 1045 - 5.4 765 - 7.1 600 - 9.0	1550 - 3.7 990 - 5.4 710 - 7.1 550 - 9.0 450 - 10.8
Lifting capacity, manual extensions	kg-m	845 - 7.1	625 - 9.0	470 - 10.8	300 - 12.7
Slewing torque, gross	kNm	8			
Slewing Angle	°	400			
Max. heel at max. load moment	°	5			
Slewing speed	%s	24			

Dimensions

Height above chassis	mm	1840	1840	1860	1895
Width	mm	2120			
Width, with extra valves (int. hose routing)	mm	2190			
Length, no extra valves	mm	664			
Length, with extra valves (hose guides)	mm	755			
Length, with extra valves (int. hose routing)	mm	6641			
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	10	12	14	15

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

710 RCS Metric Specifications - continued

Weights, equipment		610-K1	610-K2	610-K3	610-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	40

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710 RCS Liftng Capacity Charts

SECTION - 4

710 RCS Lifting Capacity Chart, K1

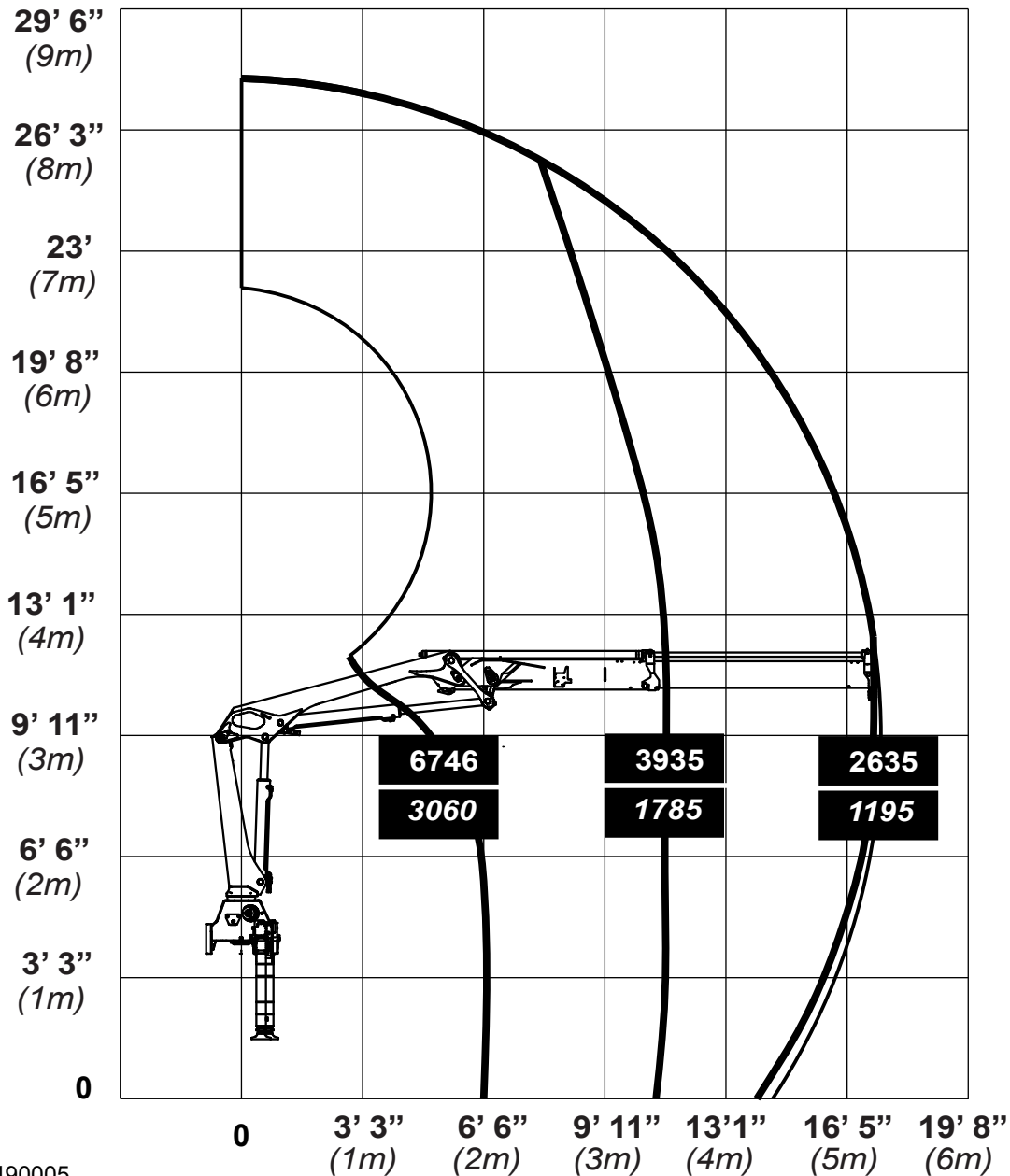
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Model 710 RCS K1

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



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710 RCS Lifting Capacity Chart, K2

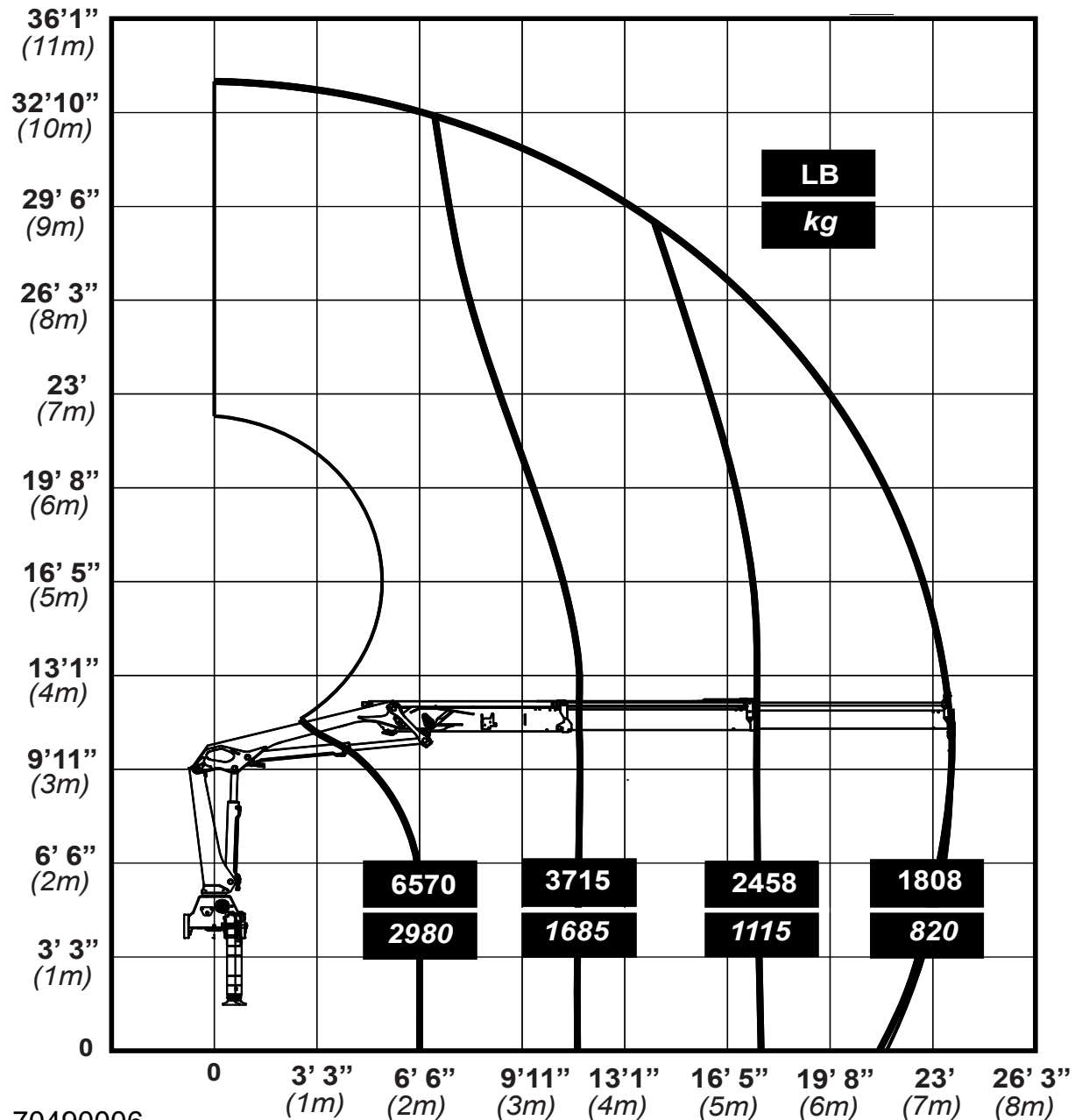
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MATERIAL HANDLING SYSTEMS

Model 710 RCS K2

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- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Before lift is made, stability must be checked per SAE J765A.



710 RCS Lifting Capacity Chart, K3

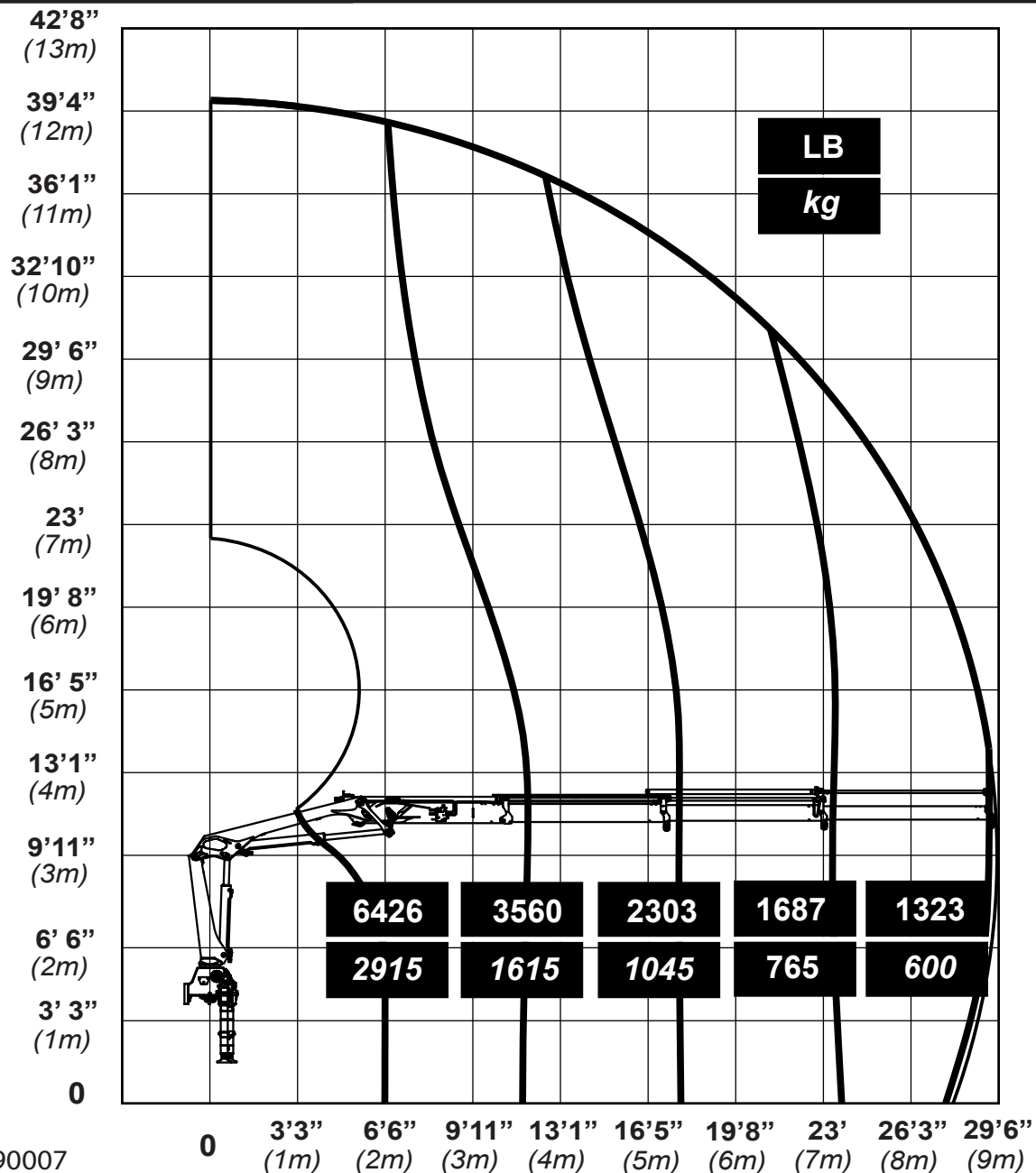
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Model 710 RCS K3

- Working loads will be limited 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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710 RCS Lifting Capacity Chart, K4

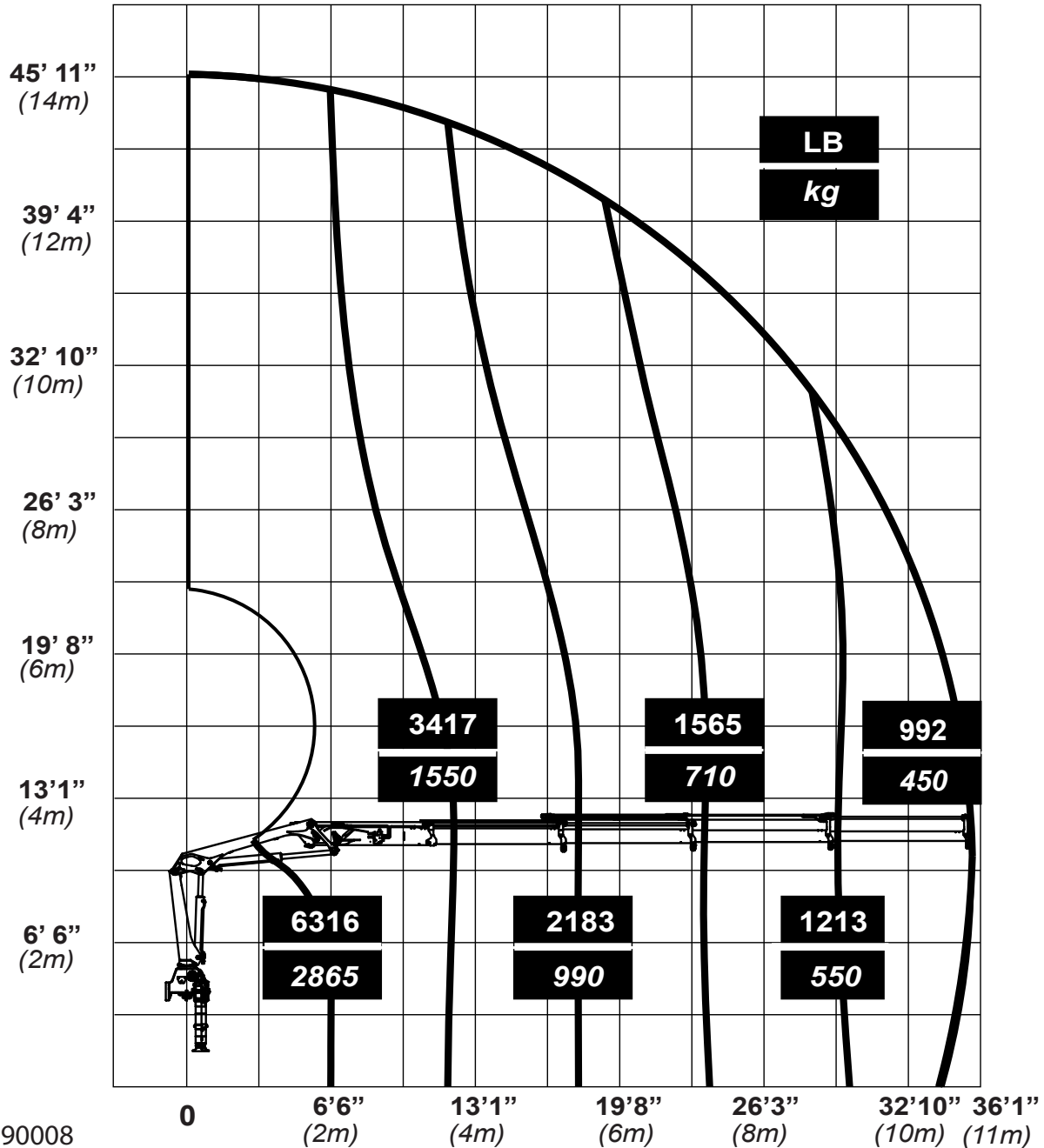
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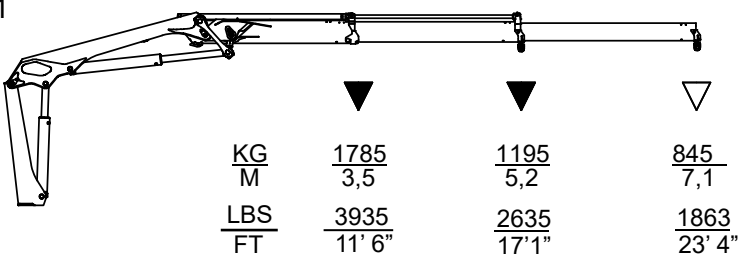
Model 710 RCS K4

- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Before lift is made, stability must be checked per SAE J765A.

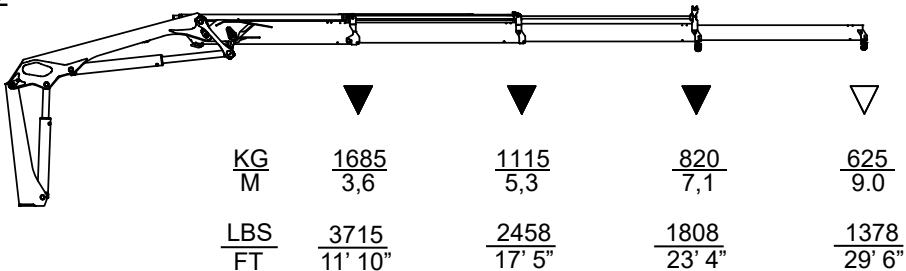


710 RCS Lifting Capacity Chart K1 - K4

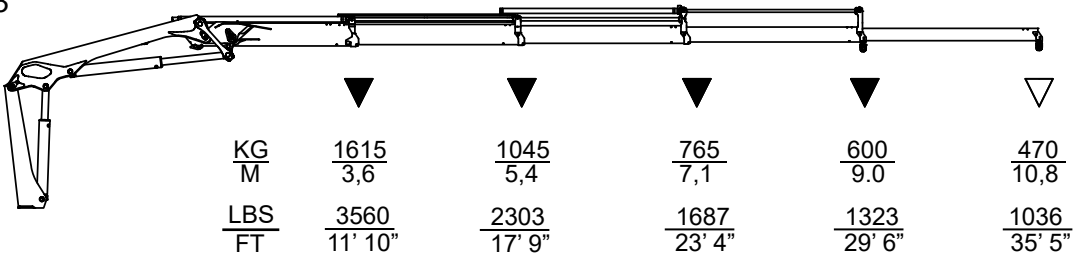
K1



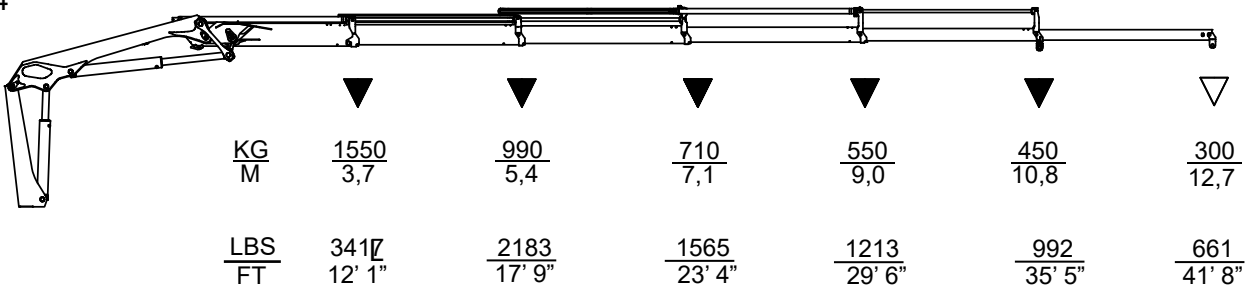
K2



K3



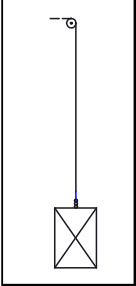
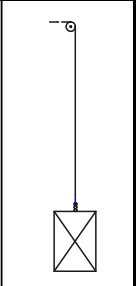
K4

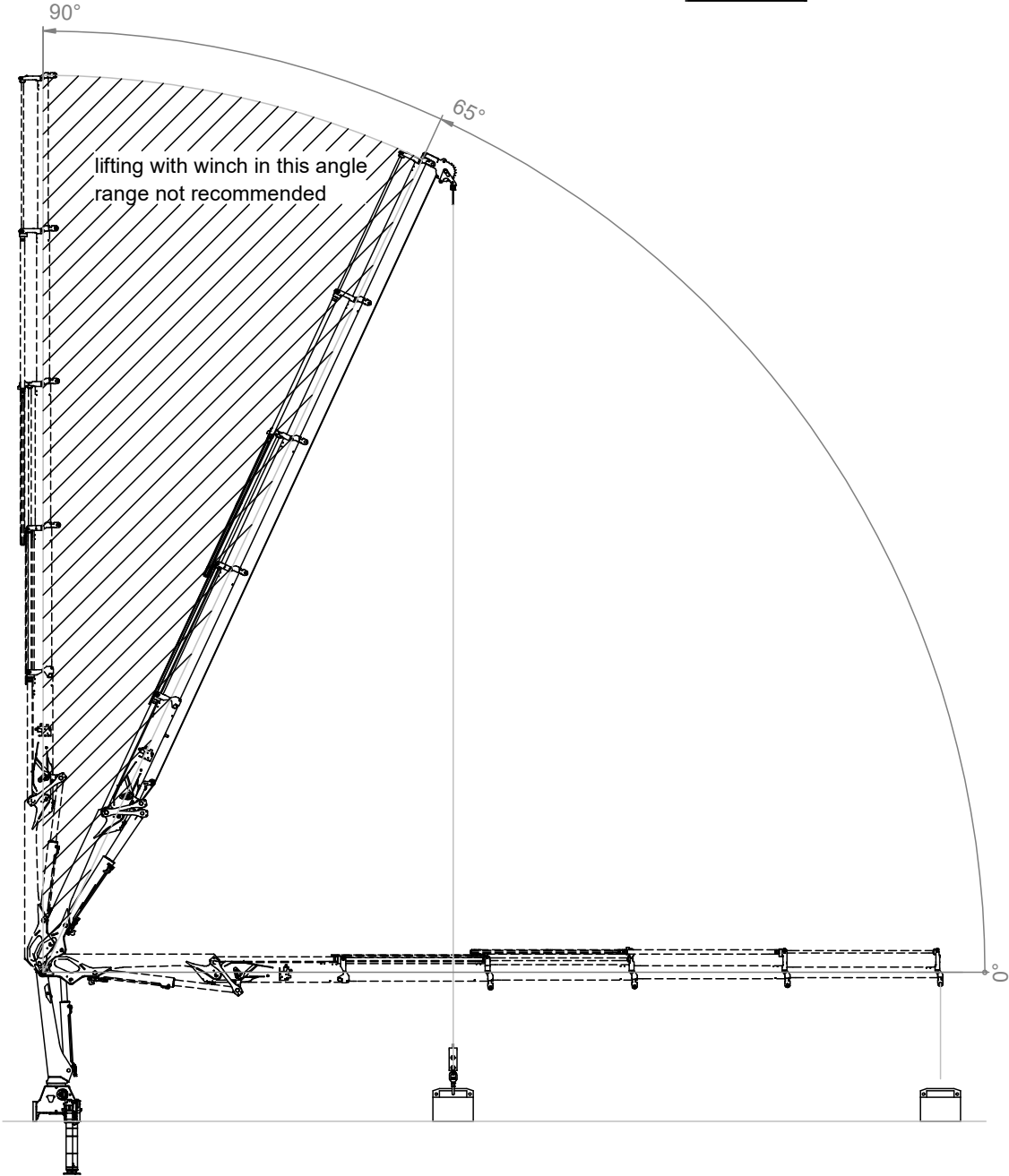


610 MCS/RC, 710 RCS DIMENSIONAL DATA

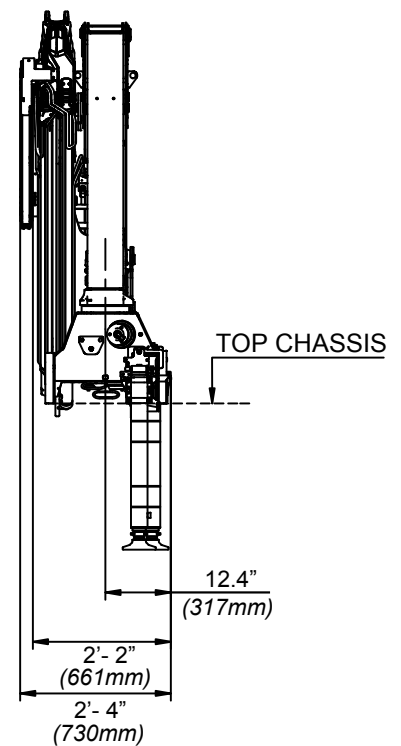
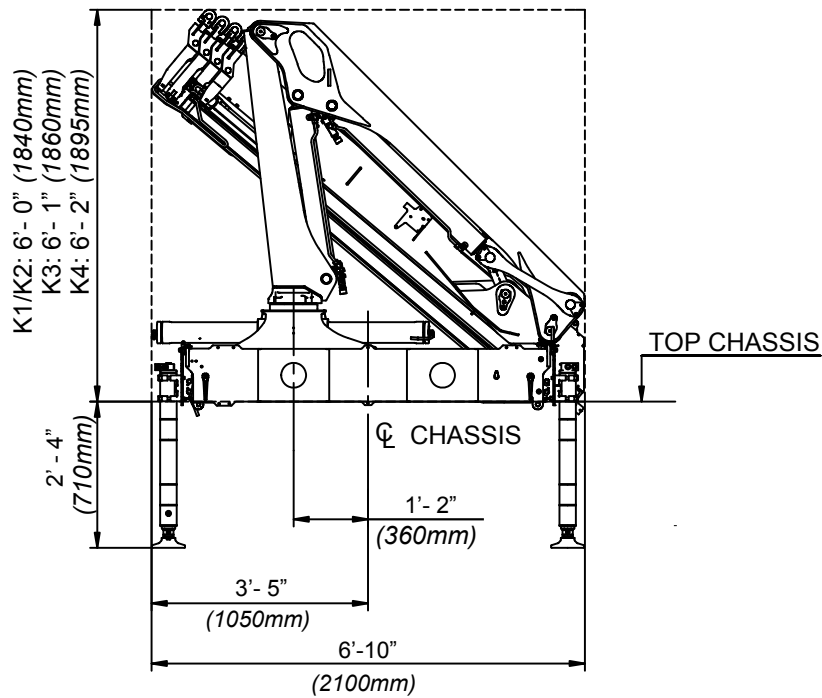
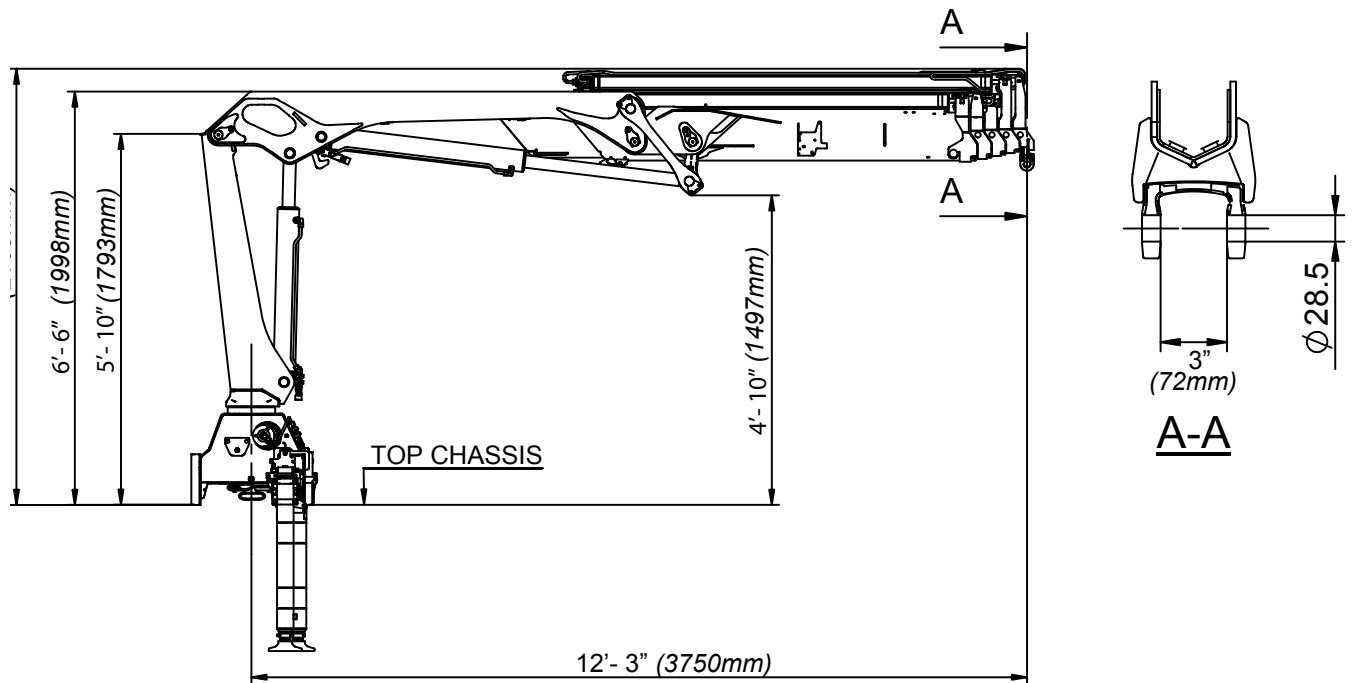
SECTION - 5

Lifting Capacity with Winch

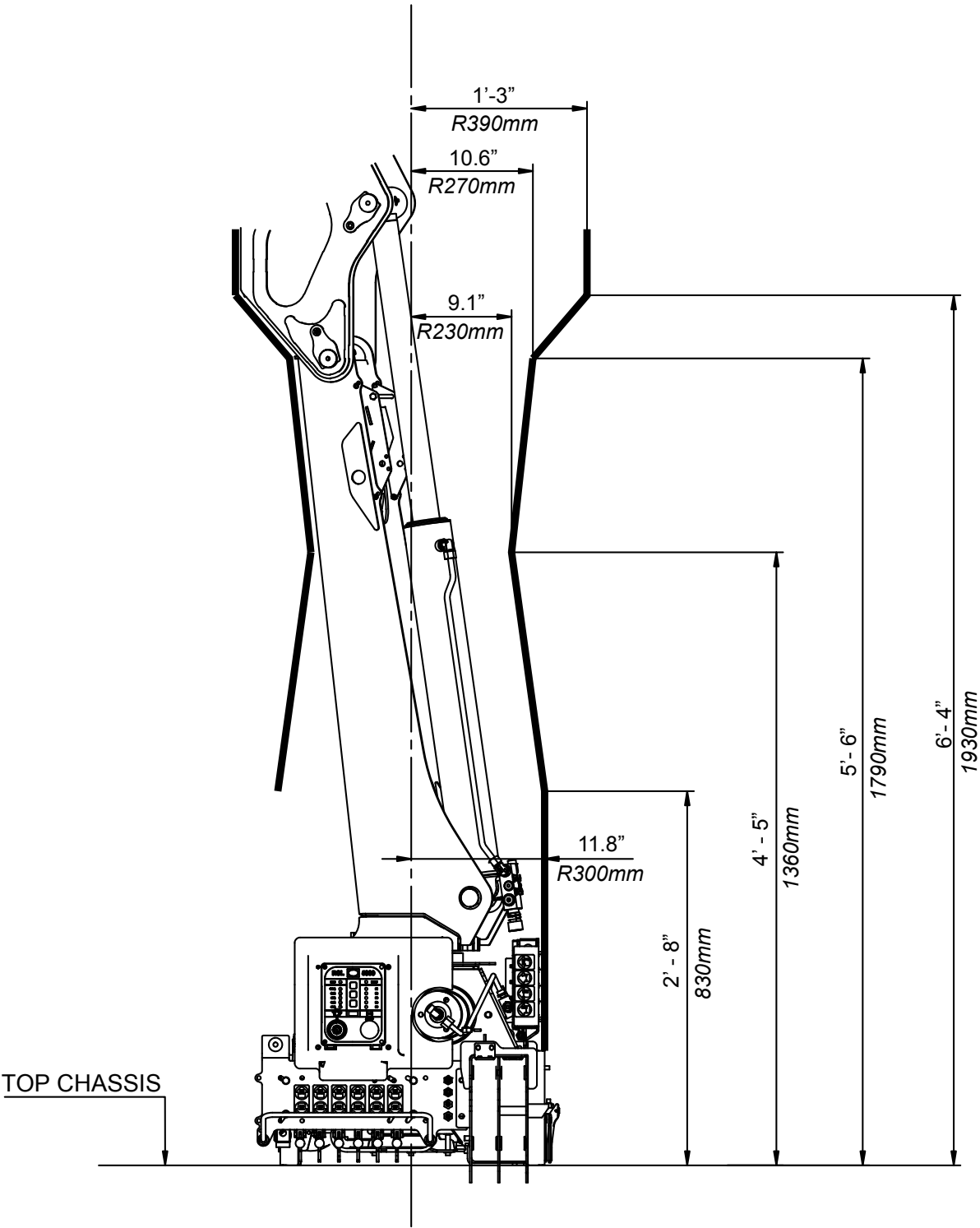
	MAXW		MAXW
Dinamic NP10	2425 lb	Dinamic NP10	1100 kg
			



Dimension Sketch

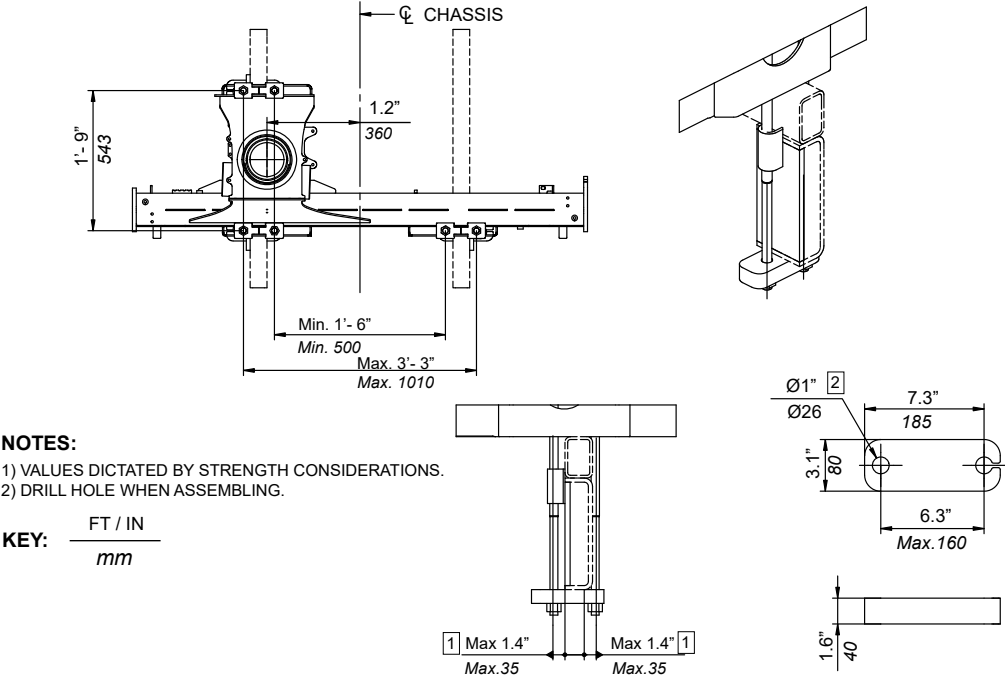


Slewing Radius

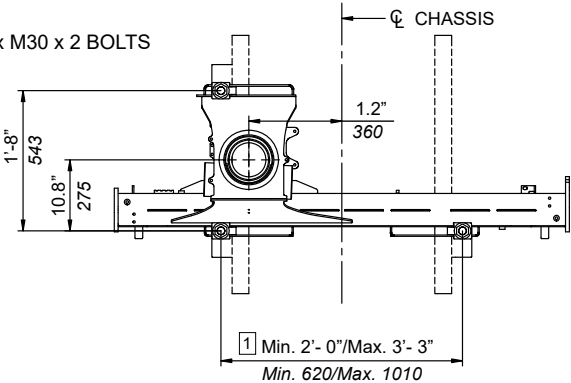


Dimension Sketch For Truck Mounted Loader

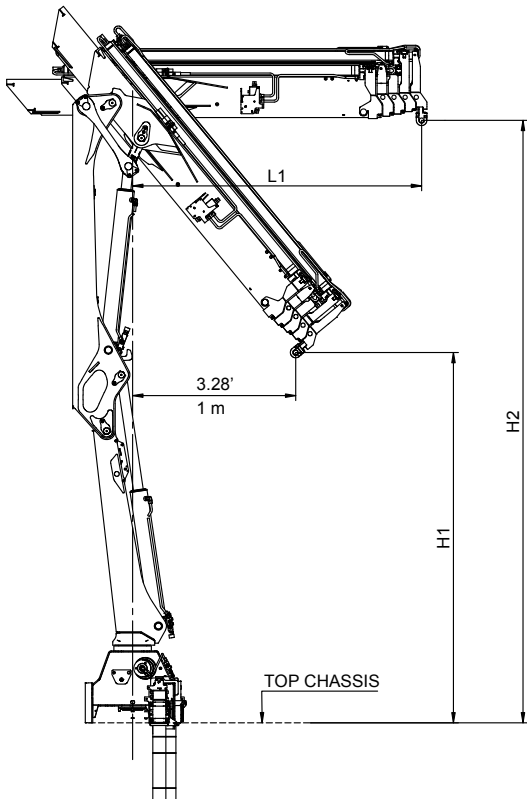
MOUNTING KIT 6 X 7/8 UNF BOLTS.



MOUNTING KIT 3 x M30 x 2 BOLTS

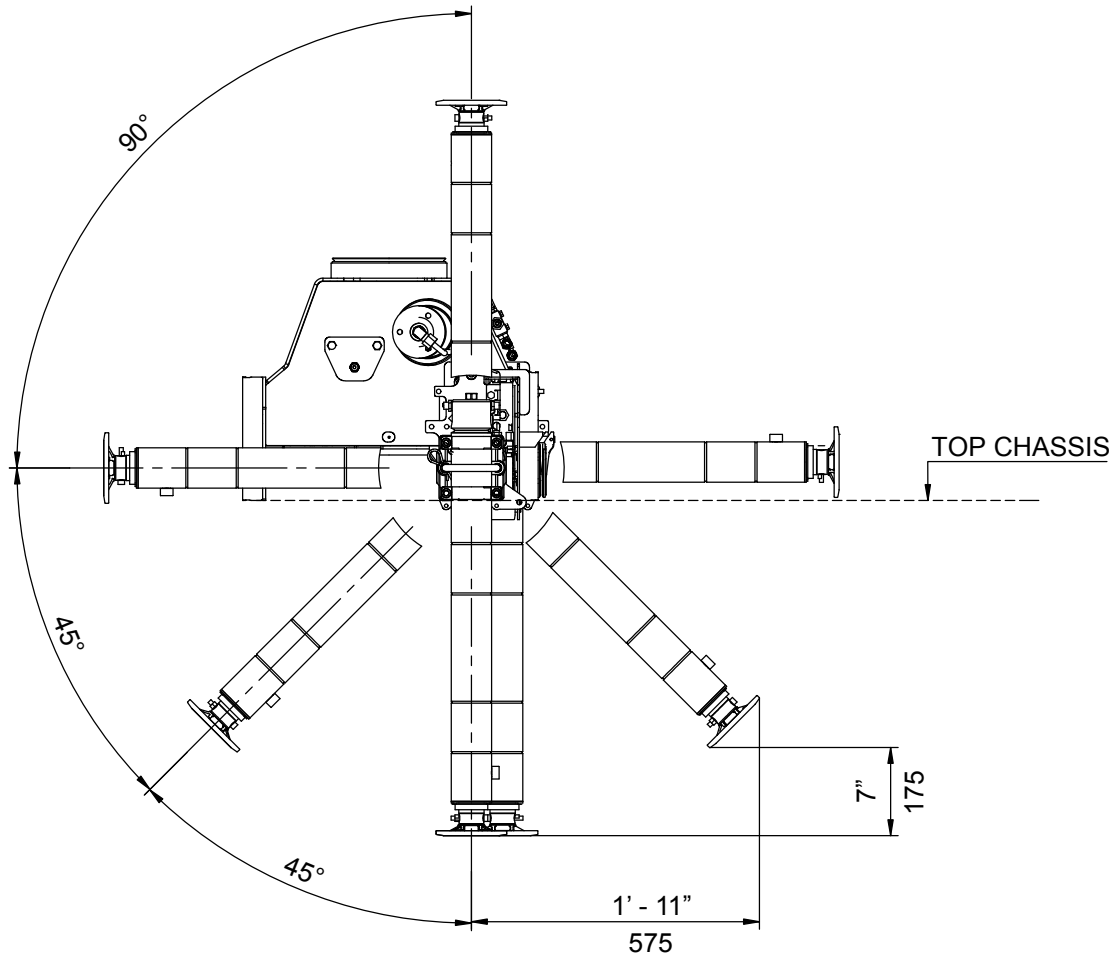


Lifting Height at Column

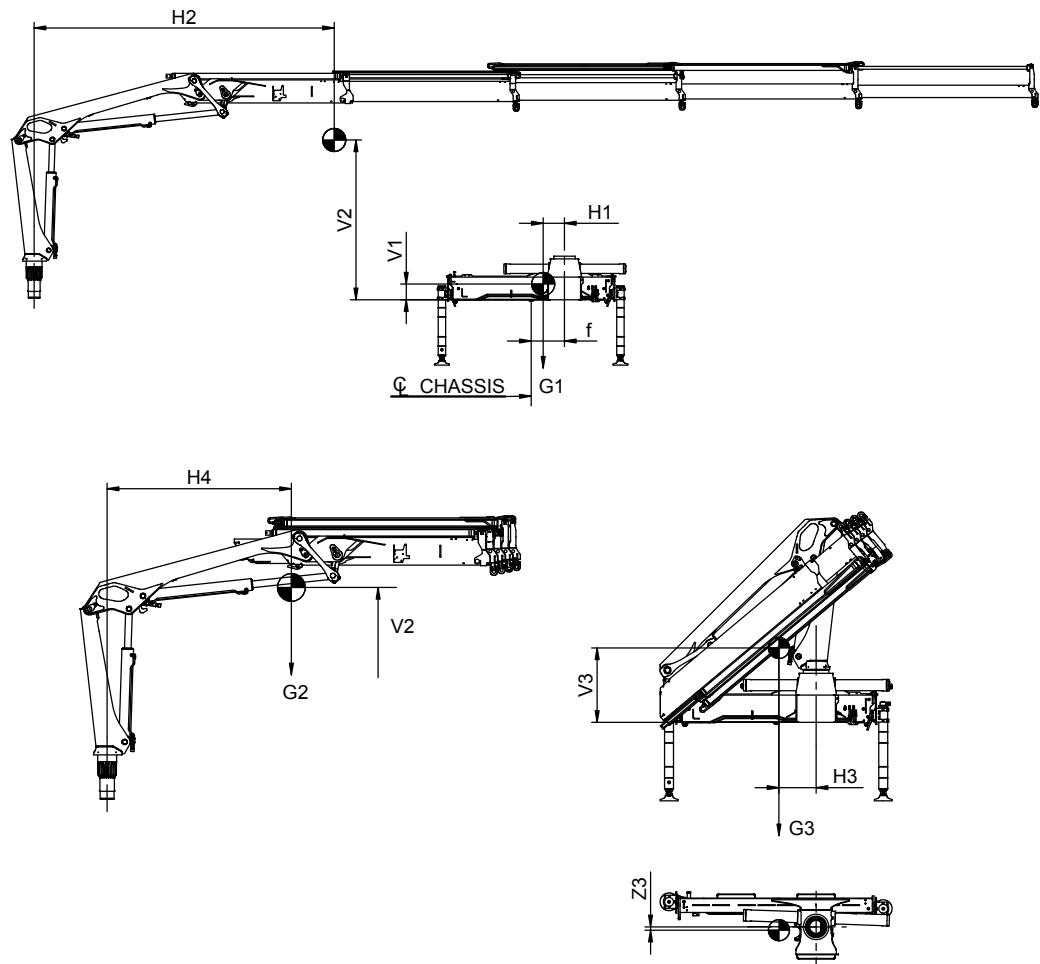


	H1 MM	H1 FEET/INCHES	H2 MM	H2 FEET/INCHES	L1 MM	L1 FEET/INCHES
K1	2530	8' 3"	3655	11' 11"	1565	5' 1"
K2	2445	8'	3670	12'	1635	5' 4"
K3	2355	7' 9"	3685	12' 1"	1705	5' 7"
K4	2270	7' 5"	3700	12' 1.6"	1775	5' 9"

Dimension Sketch: Swing-Up Stabilizer Legs (Manual)

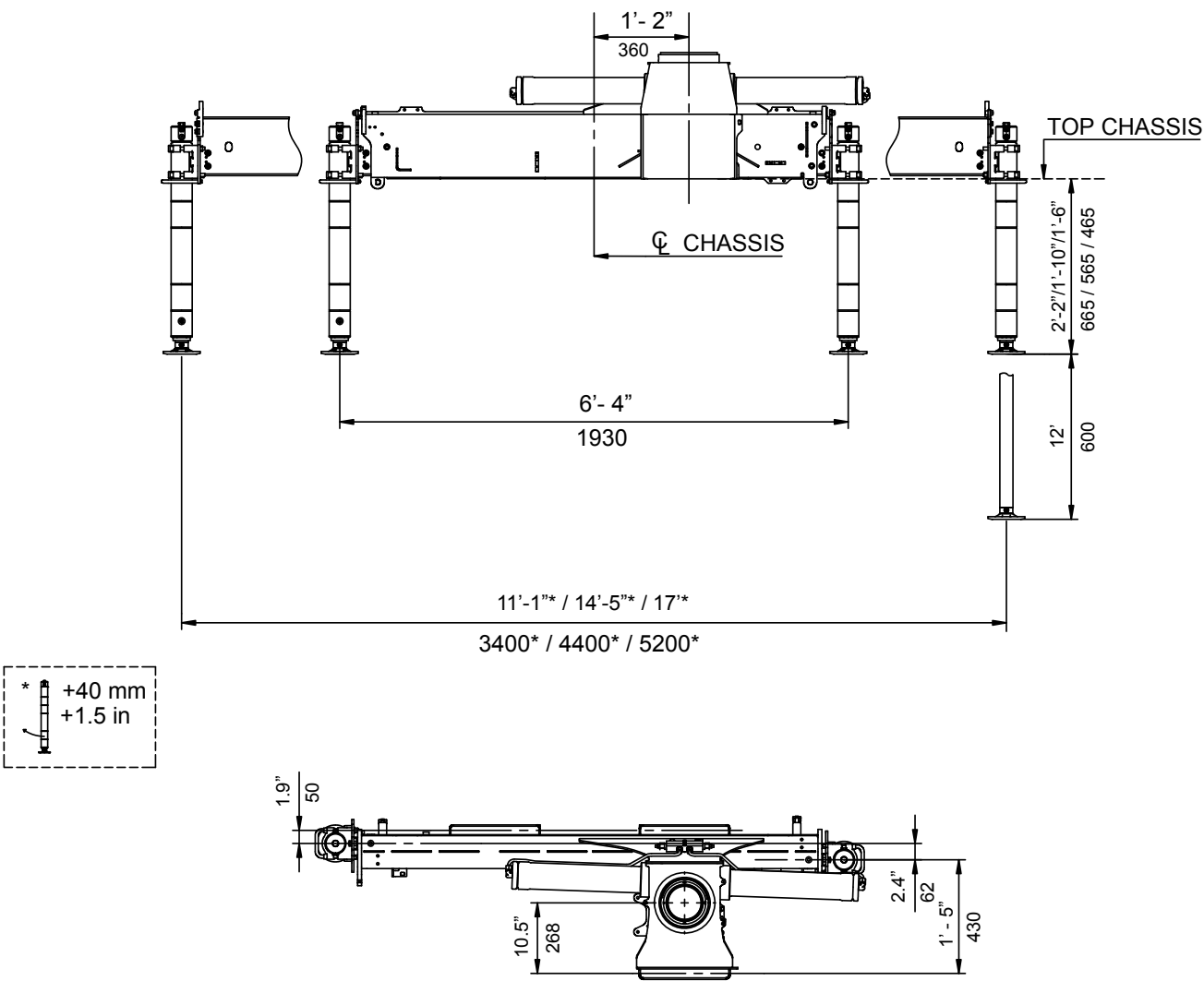


Dimension Sketch: Internal Hose Routing



	MM									KG		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
610-K1	140	1830	590	235	1455	355	1220	-15	360	305	465	770
610-K2	140	1915	620	235	2055	355	1415	5	360	305	540	845
610-K3	140	1975	650	235	2670	345	1560	25	360	305	610	915
610-K4	140	2020	670	235	3245	335	1660	35	360	305	670	975
	FEET/INCHES									POUNDS		
	V1	V2	V3	H1	H2	H3	H4	Z3	f	G1	G2	G3
610-K1	5.5"	6'	1' 11"	9"	4' 9"	1' 2"	4'	-0.6"	1' 2"	1'	1' 6"	2' 6"
610-K2	5.5"	6' 3"	2'	9"	6' 8"	1' 2"	4' 8"	0.2"	1' 2"	1'	1' 9"	2' 6"
610-K3	5.5"	6' 5"	2' 1"	9"	8' 10"	1' 1.5"	5' 1"	.10"	1' 2"	1'	2'	3'
610-K4	5.5"	6' 7"	2' 2"	9"	10' 8"	1' 1"	5' 5"	1.4"	1' 2"	1'	2' 2"	3' 2"

Dimension sketch, fixed stabilizer legs



Technical data, winch

Performance (at 2176 lb):	Unit	1,5T winch
Max. wire pull – 1st layer	lb	2425
Max. wire pull – 2nd layer	lb	2205
Max. wire pull – 3rd layer	lb	2028
Max. wire pull – 4th layer	lb	N/A

Wire speed (at 10.6 ft / min.):	Unit	1,5T winch
Max. wire speed – 1st layer	ft/min	52.5
Max. wire speed – 2nd layer	ft/min	57.4
Max. wire speed – 3rd layer	ft/min	62.3
Max. wire speed – 4th layer	ft/min	N/A

Weights:	Unit	1,5T winch
Tare weight, winch (CE)	lb	220
Fixed parts (valve section, brackets, hoses etc.)	lb	88
Wire Ø10 x 164 ft	lb	44
Spare parts, single snatch block	lb	33
Spare parts, double snatch block	lb	N/A

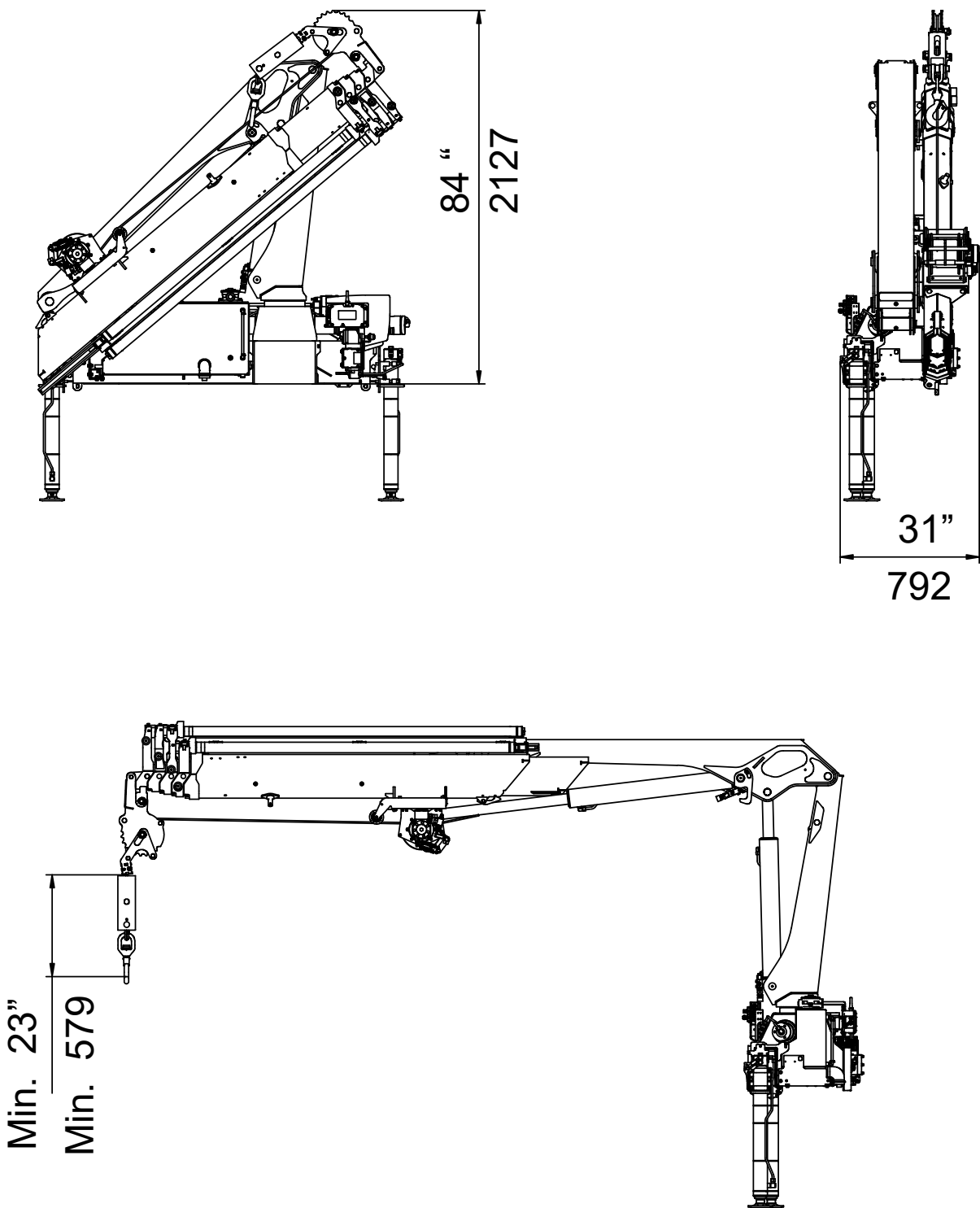
Technical data, winch (Metric)

Performance (at 160 bar):	Unit	1T winch
Max. wire pull – 1st layer	kg	1100
Max. wire pull – 2nd layer	kg	1000
Max. wire pull – 3rd layer	kg	920
Max. wire pull – 4th layer	kg	N/A

Wire speed (at 20 l/min.):	Unit	1T winch
Max. wire speed – 1st layer	m/min	16
Max. wire speed – 2nd layer	m/min	17,5
Max. wire speed – 3rd layer	m/min	19
Max. wire speed – 4th layer	m/min	N/A

Weights:	Unit	1T winch
Tare weight, winch (CE)	kg	40
Fixed parts (valve section, brackets, hoses etc.)	kg	20
Wire Ø8 x 37 m	kg	15
Spare parts, single snatch block	kg	35
Spare parts, double snatch block	kg	N/A

Dimension sketch, winch

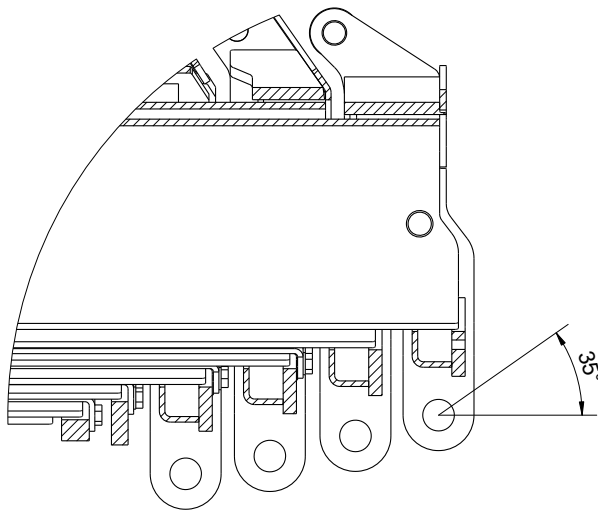


Dimension sketch for connecting link

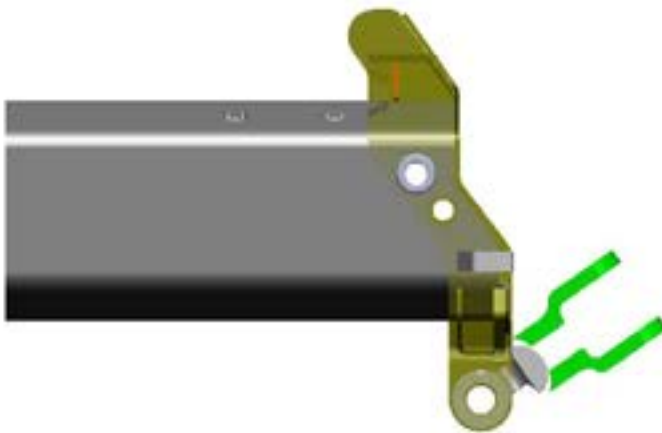
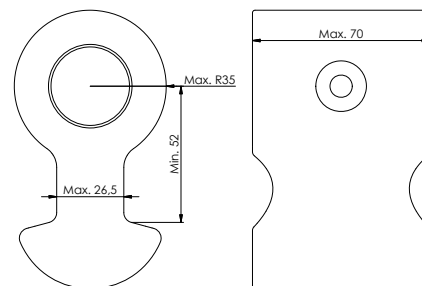
Manufacturing of connecting links for crane equipment:

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

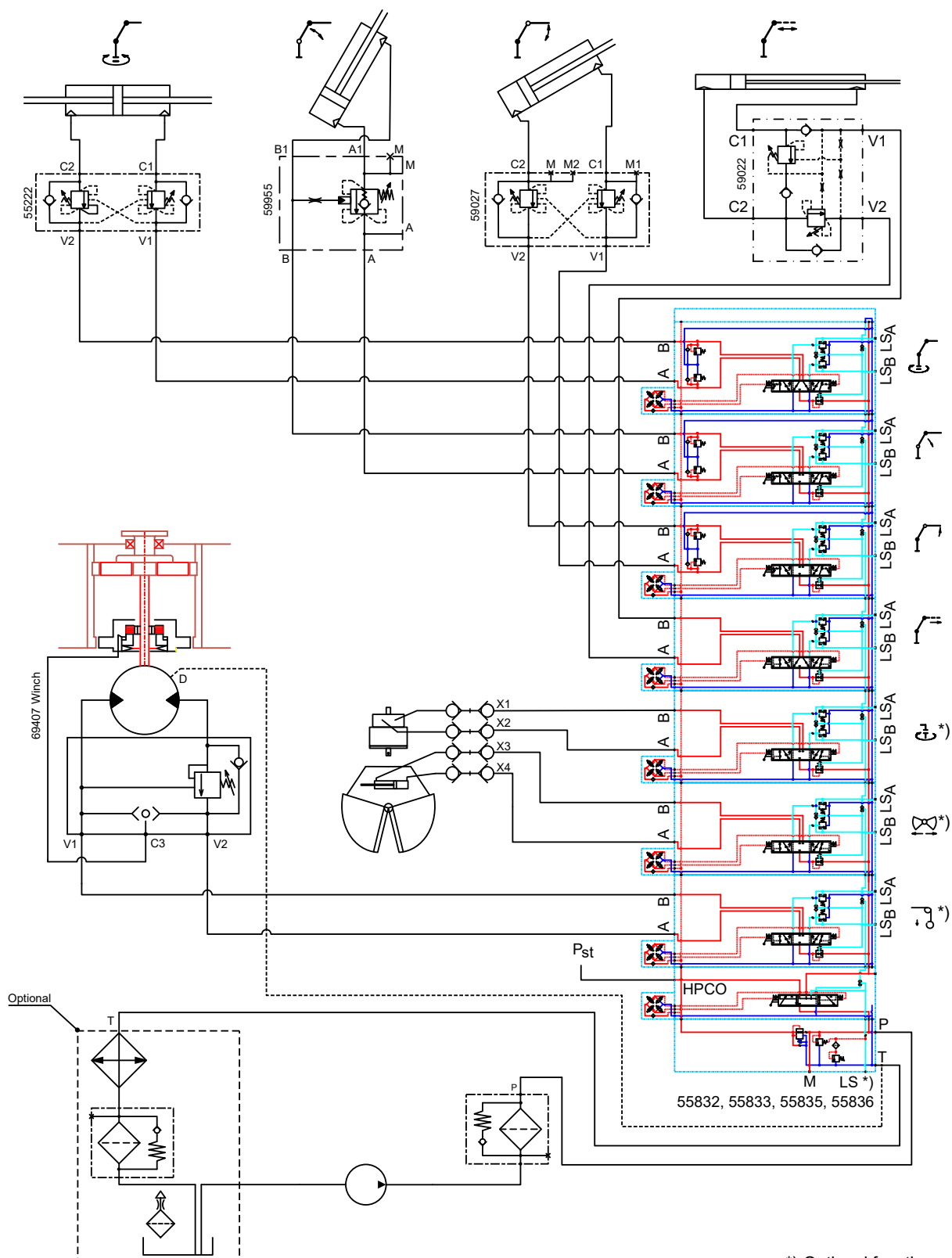


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610 MCS/RC, 710 RCS Hydraulic Drawings

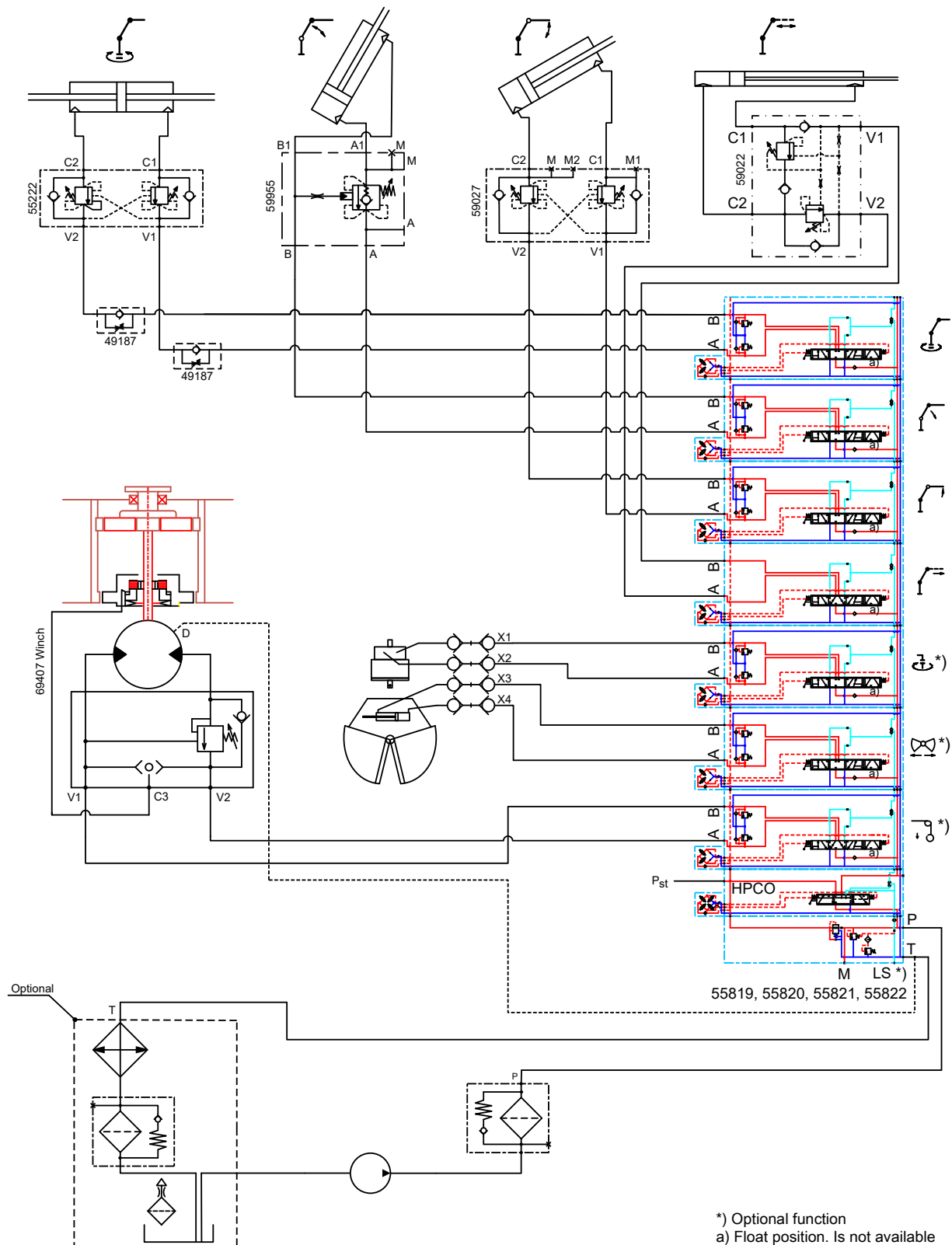
SECTION - 6

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

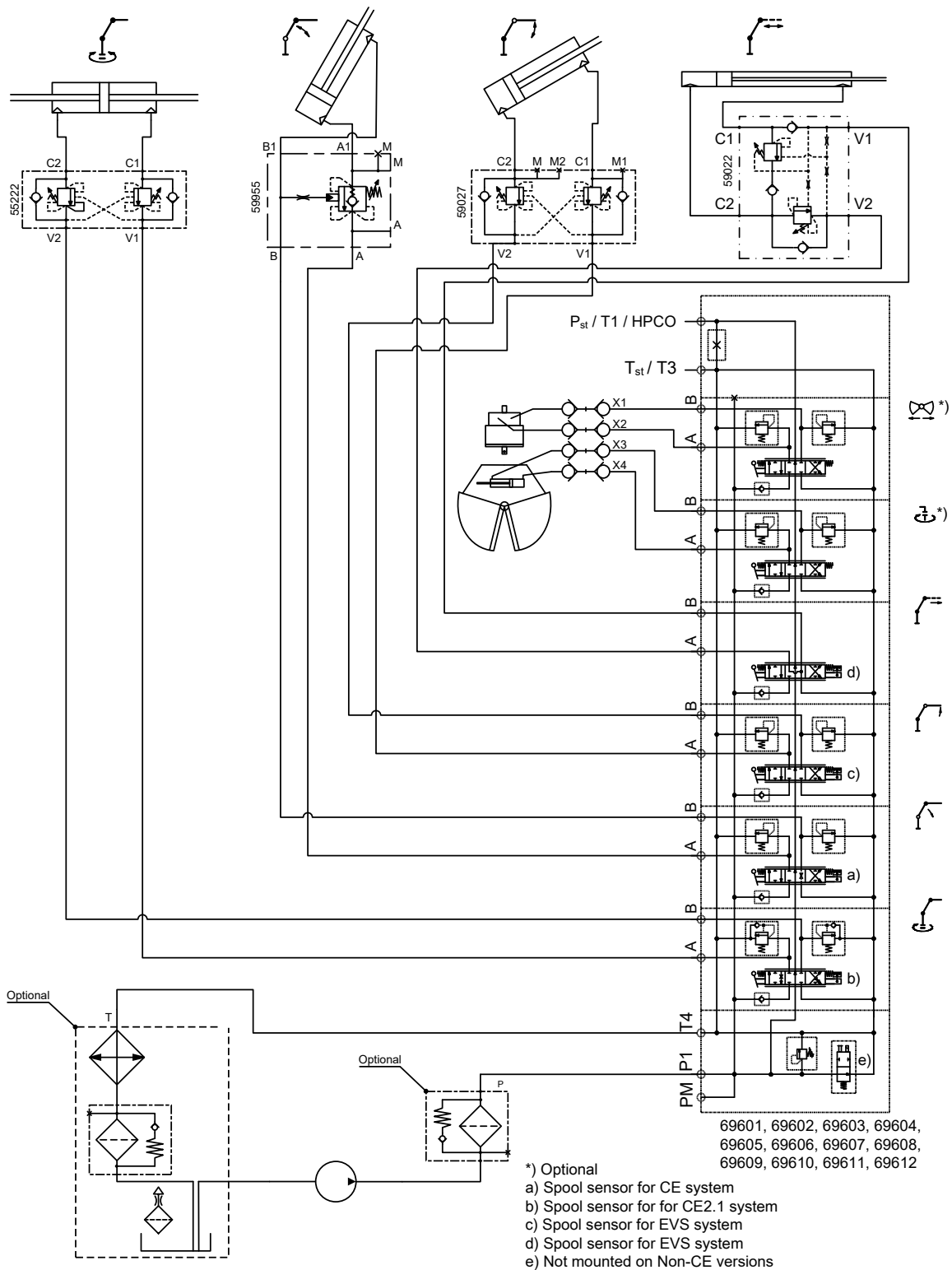


*) Optional function

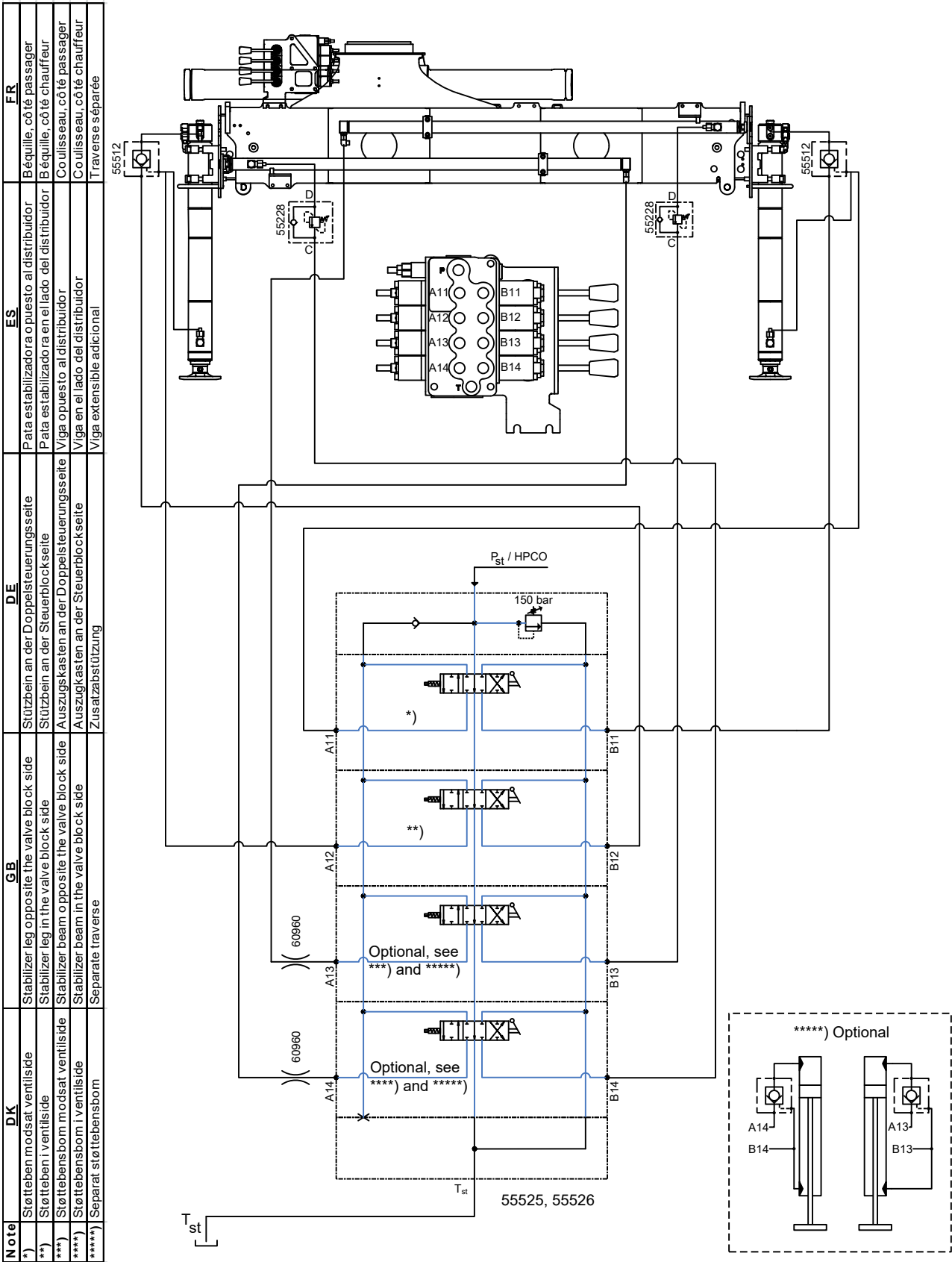
Hydraulic Diagram - Danfoss PVG16, fixed 6 fcts. RC (2 EXV: Grab + Rotator)



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

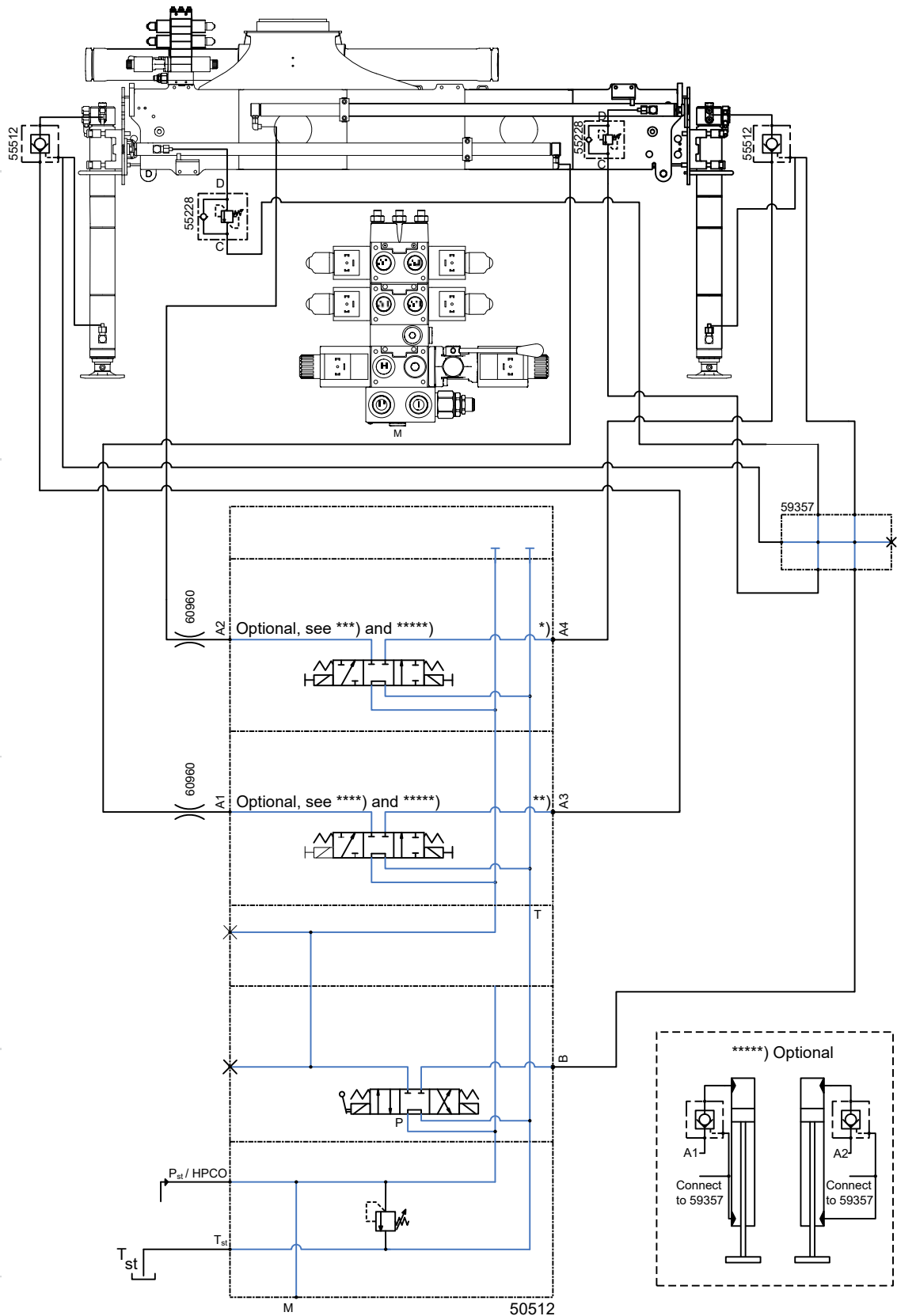


Hydraulic Diagram - Stabilizer circuit – 2/4 fcts.



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	Auszugskasten an der Doppelsteuerungsseite	Viga opuesto al distribuidor	Coulisseau, côté passager
****)	Støttebensbom i ventilside	Stabilizer beam in the valve block side	Auszugskasten an der Steuerblockseite	Viga en el lado del distribuidor	Coulisseau, côté chauffeur
*****)	Separat støttebensbom	Separate traverse	Zusatzabstützung	Viga 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
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Pressure Setting for HDL Valve

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

Max. Pump Performance

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

Pressure Setting Diagram, Hydac RS210 (Metric)

Working Pressure on Main Relief Valve & Port Relief Valves

FUNCTION	DIRECTION	PORT	810K-MCS (HDL BAR)
MAIN RELIEF VALVE			325
SLEWING SYSTEM	RIGHT	A	190
	LEFT	B	190
BOOM CYLINDER5	DOWN	A	100
	UP	B	340
JIB CYLINDER	UP	A	340
	DOWN	B	200
EXTENSION CYLINDERS	EXTEND	A	P
	RETRACT	B	P
ROTATOR	RIGHT	A	200
	LEFT	B	200
GRAB	OPEN	A	200
	CLOSE	B	200
SEPARATE STABILIZER VALVE		ALL	150

Working Pressure on Load Holding Valves

FUNCTION	DIRECTION	PORT	OPENING (BAR) PRESSURE
BOOM CYLINDER			350
SLEWING SYSTEM	UP	A	350
	DOWN	B	210
SLEWING SYSTEM			210
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
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610 MCS/RC, 710 RCS
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

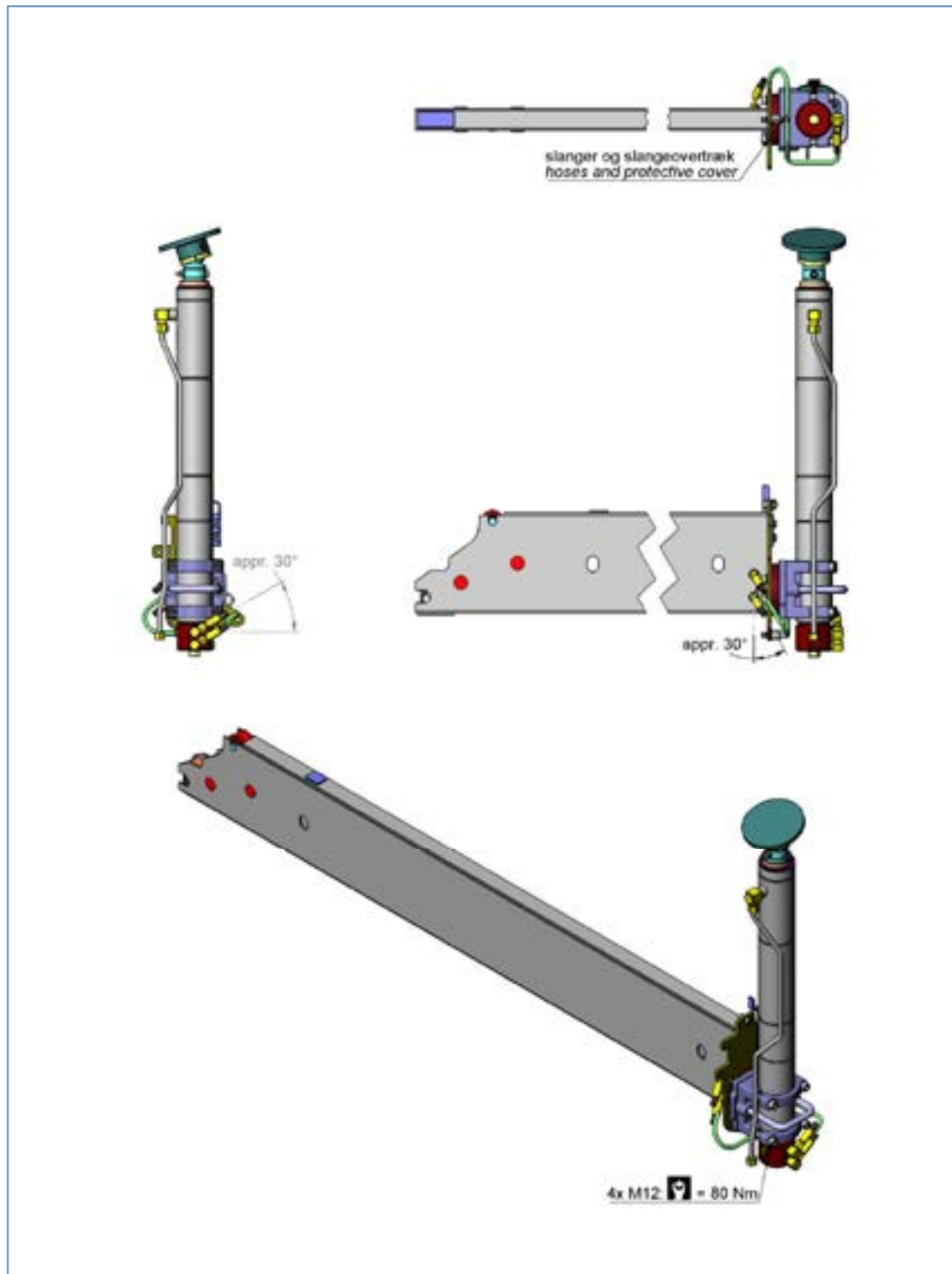
810-K / 910-K Series 557 02 070/557 02 080

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

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

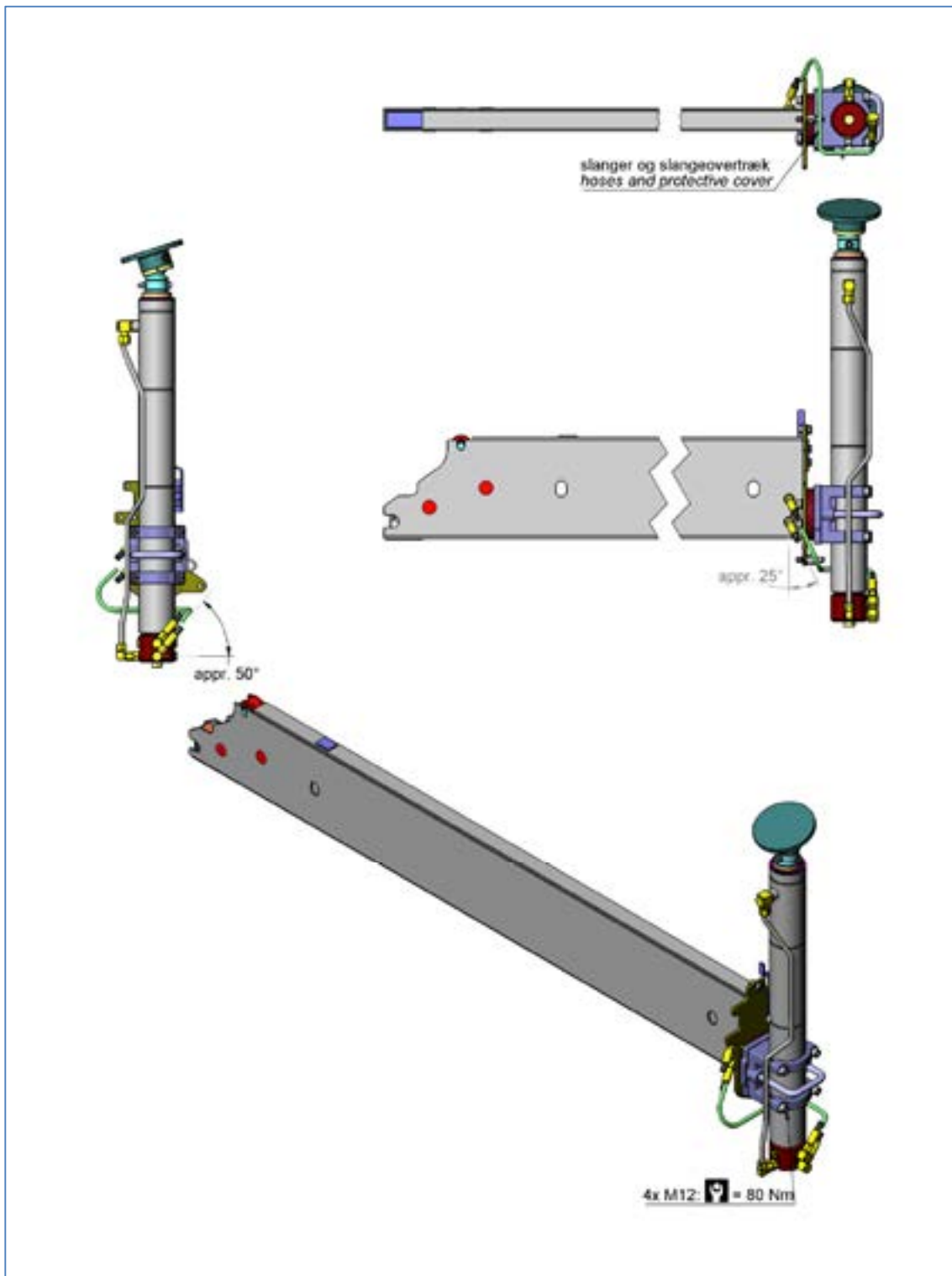
Swing Up Stabilizer Leg, Standard (SR)

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



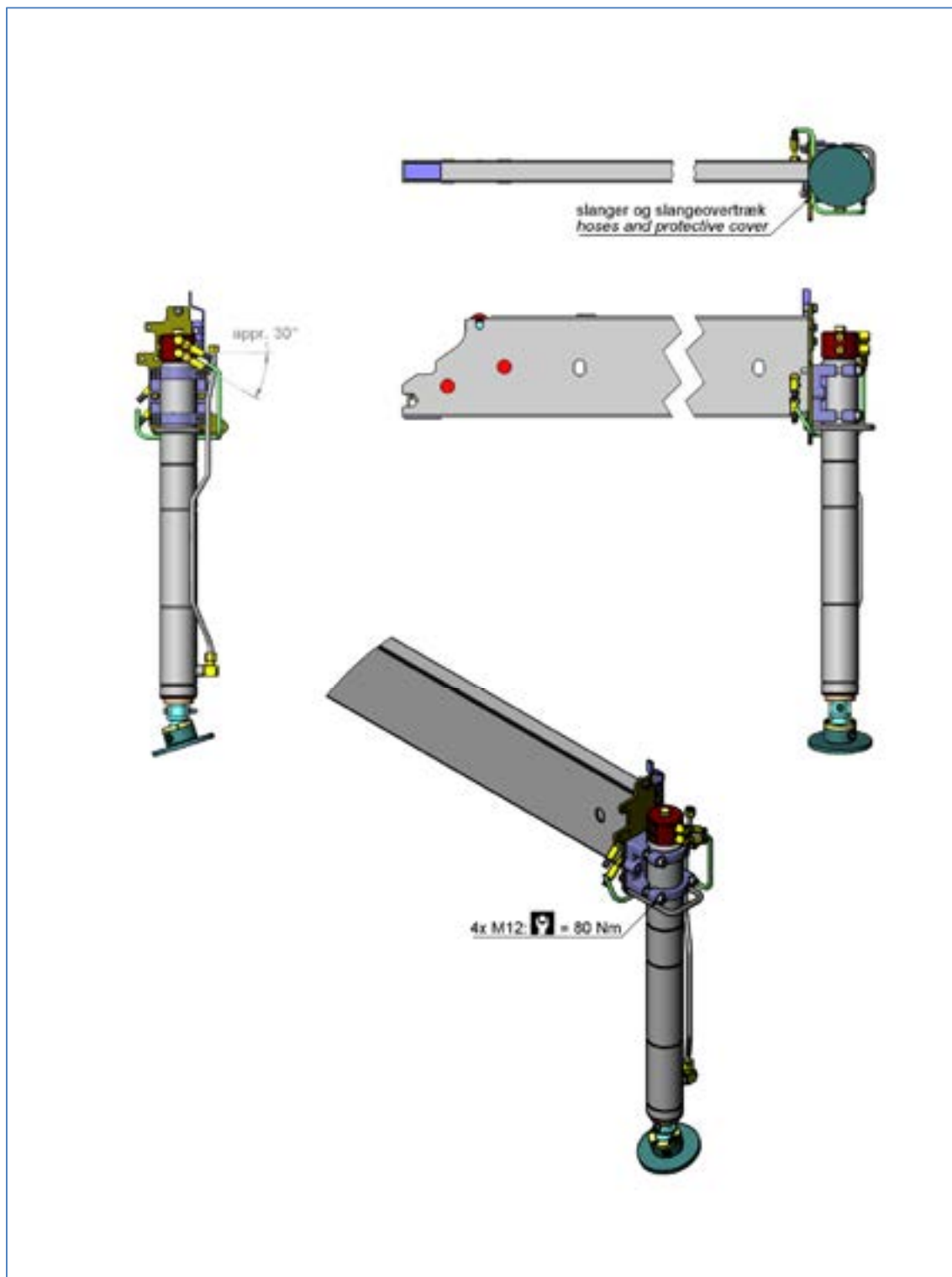
Swing up stabilizer leg, adjusted by 100 mm (SR + 100)

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



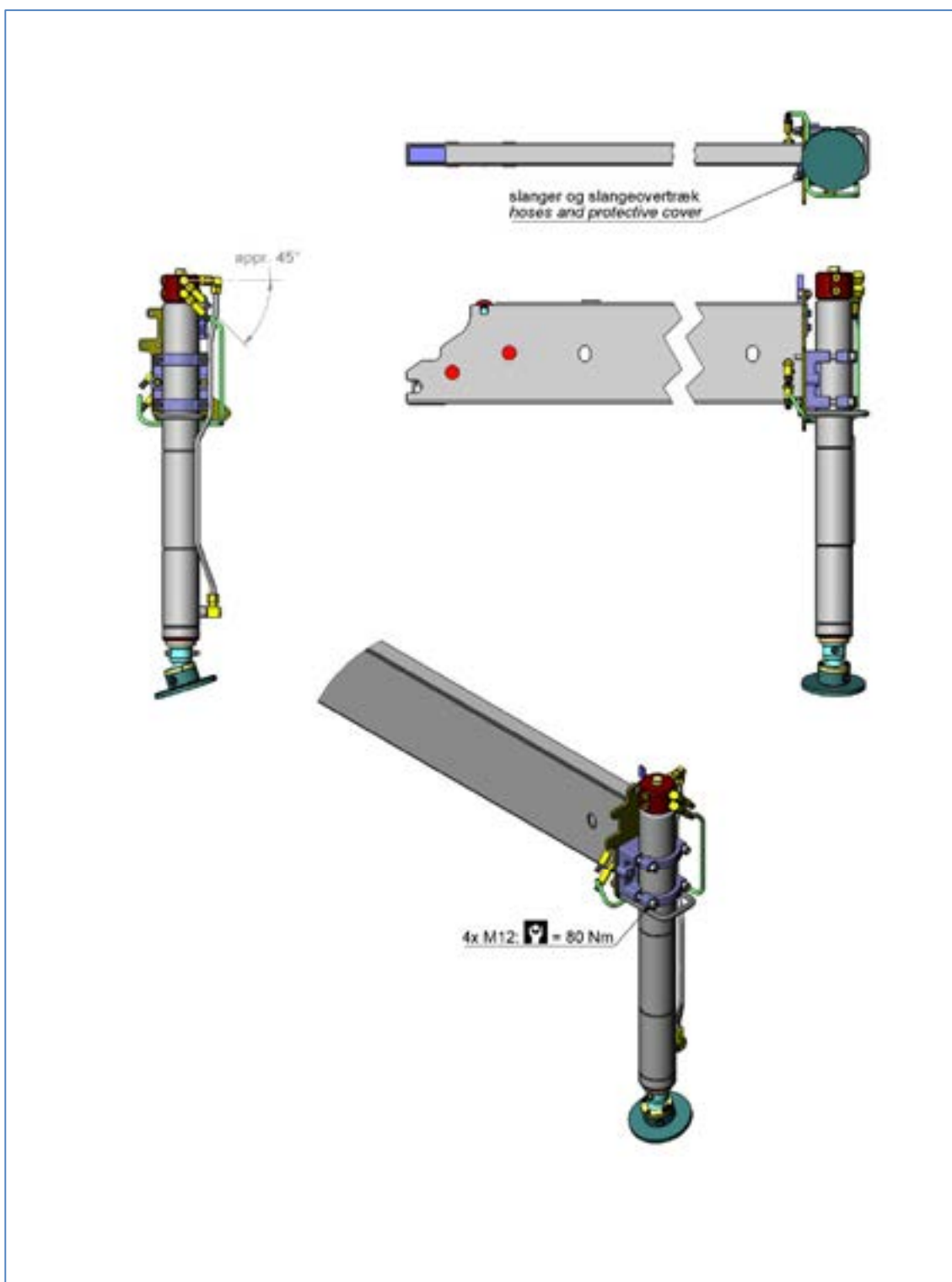
Vertical stabilizer leg, standard (SV)

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



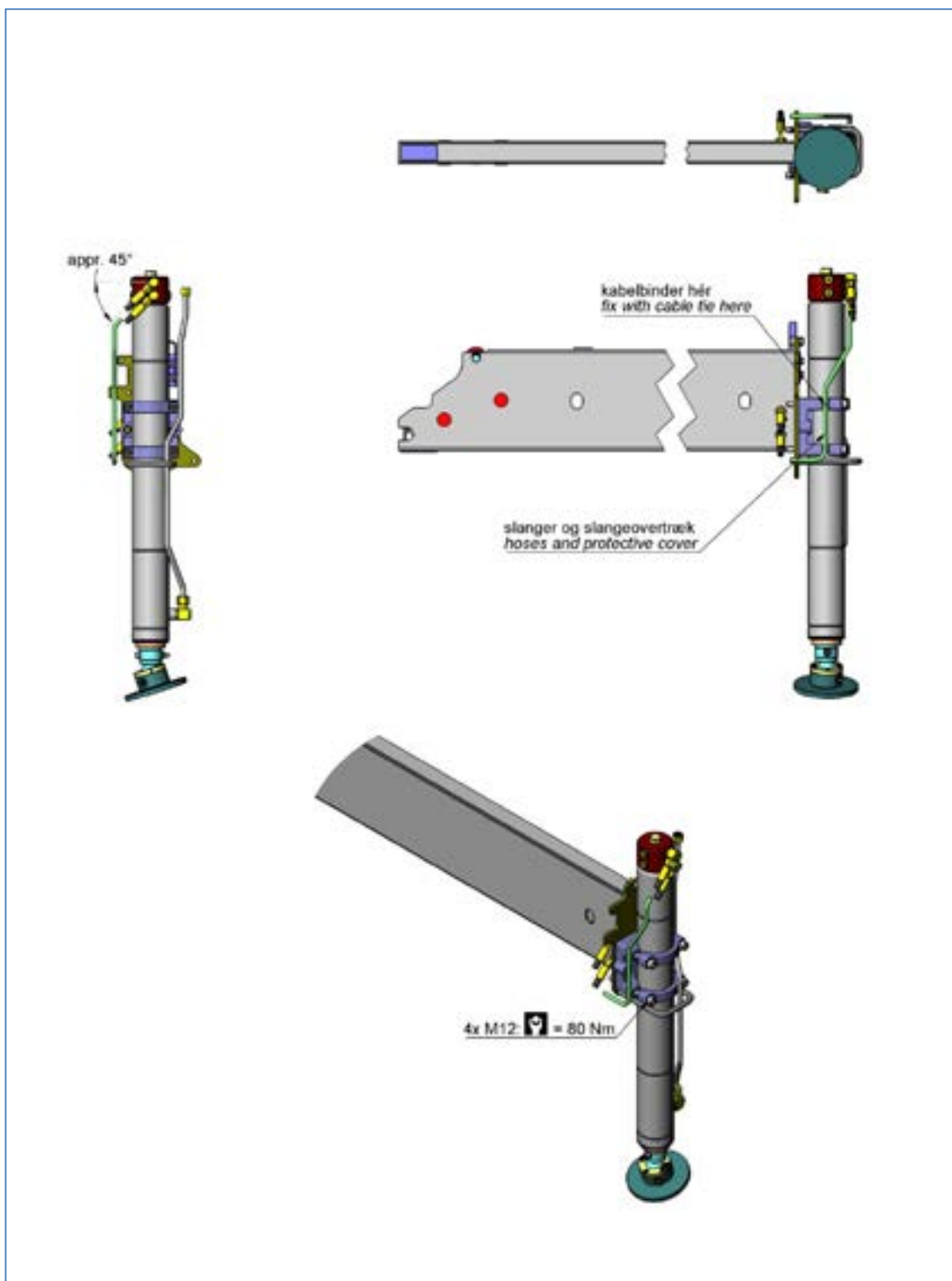
Vertical stabilizer leg, adjusted by 100 mm (SV + 100)

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



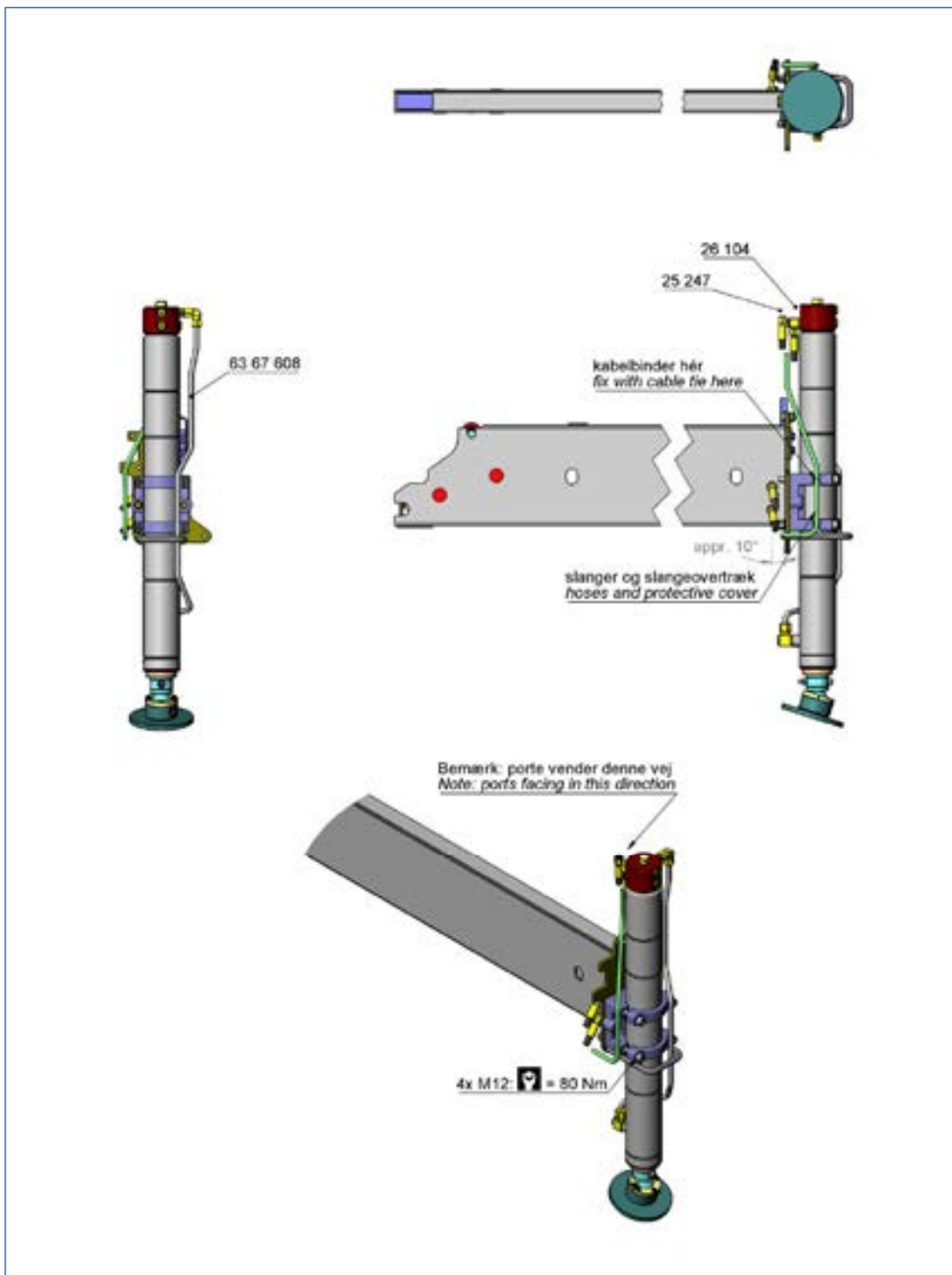
Vertical stabilizer leg, adjusted by 200 mm (SV + +200)

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



Vertical stabilizer leg, adjusted by 300 mm (SV + +300)

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





IOWA MOLD TOOLING CO., INC.

P.O. Box 189 Garner, IA 50438

Tel: 641.923.3711

Fax: 641.923.2424

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