



Manual # 99905387

9/65 Technical Specifications

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C H A P T E R 1

Technical Data and Charts

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9/65 Specifications

9/65	1-HYDRAULIC	2-HYDRAULIC	3-HYDRAULIC	4-HYDRAULIC	5-HYDRAULIC
Crane Rating (Single Link)	65,100 ft-lb (9.0 tm)	62,925 ft-lb (8.7 tm)	61,480 ft-lb (8.5 tm)	59,310 ft-lb (8.2 tm)	57,865 ft-lb (8.0 tm)
Crane Rating (Double Link)	63,650 ft-lb (8.8 tm)	61,480 ft-lb (8.5 tm)	59,310 ft-lb (8.2 tm)	57,865 ft-lb (8.0 tm)	55,695 ft-lb (7.7 tm)
Maximum Horizontal Reach	18'-0" (5.5 m)	24'-7" (7.5 m)	31'-10" (9.7 m)	38'-9" (11.8 m)	45'-11" (14.0 m)
Maximum Vertical Reach	25'-7" (7.8 m)	32'-3" (9.8 m)	39'-4" (12.0 m)	46'-5" (14.1 m)	53'-4" (16.3 m)
Capacity - Single Link Cranes					
Maximum Capacity	8380 lb (3800 kg)	7850 lb (3560 kg)	7630 lb (3460 kg)	7165 lb (3250 kg)	6745 lb (3060 kg)
Max Capacity @ Max Reach	3660 lb (1660 kg)	2515 lb (1140 kg)	1785 lb (810 kg)	1280 lb (580 kg)	950 lb (430 kg)
Capacity - Double Link Cranes					
Maximum Capacity	9040 lb (4100 kg)	8555 lb (3880 kg)	8115 lb (3680 kg)	7715 lb (3500 kg)	7340 lb (3330 kg)
Max Capacity @ Max Reach	3550 lb (1610 kg)	2425 lb (1100 kg)	1720 lb (780 kg)	1235 lb (560 kg)	950 lb (410 kg)
Crane Weight**	2360 lb (1070 kg)	2590 lb (1175 kg)	2810 lb (1275 kg)	3010 lb (1365 kg)	3185 lb (1445 kg)
Hook Approach					
Vertical	9'-8" (2.94 m)	9'-4" (2.84 m)	9'-0" (2.74 m)	8'-8" (2.64 m)	8'-4" (2.54 m)
Horizontal	2'-7" (0.79 m)	2'-9" (0.84 m)	2'-11" (0.89 m)	3'-1" (0.94 m)	3'-3" (1.0 m)
Center of Gravity-Stored (Single Link)					
Vertical	24" (604 mm)	25" (633 mm)	26" (662 mm)	27" (688 mm)	27.7" (704 mm)
Horizontal (C/L Rotation to Bridge)	10.6" (270 mm)	10.5" (265 mm)	10" (255 mm)	9.3" (236 mm)	9" (228 mm)
Center of Gravity-Stored (Double Link)					
Vertical	25" (637 mm)	26" (665 mm)	27.4" (695 mm)	28" (714 mm)	28.7" (729 mm)
Horizontal (C/L Rotation to Bridge)	10" (256 mm)	10" (255 mm)	9.8" (250 mm)	9" (229 mm)	8.7" (221 mm)

* Crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from the centerline of rotation with all extensions retracted, and the inner and outer booms in a horizontal position, per ANSI B30.22.

** Crane weight is for standard single-link crane with tank & mounting kit. Does not include stabilizers, oil. Add 55 lb (25 kg) for double link.



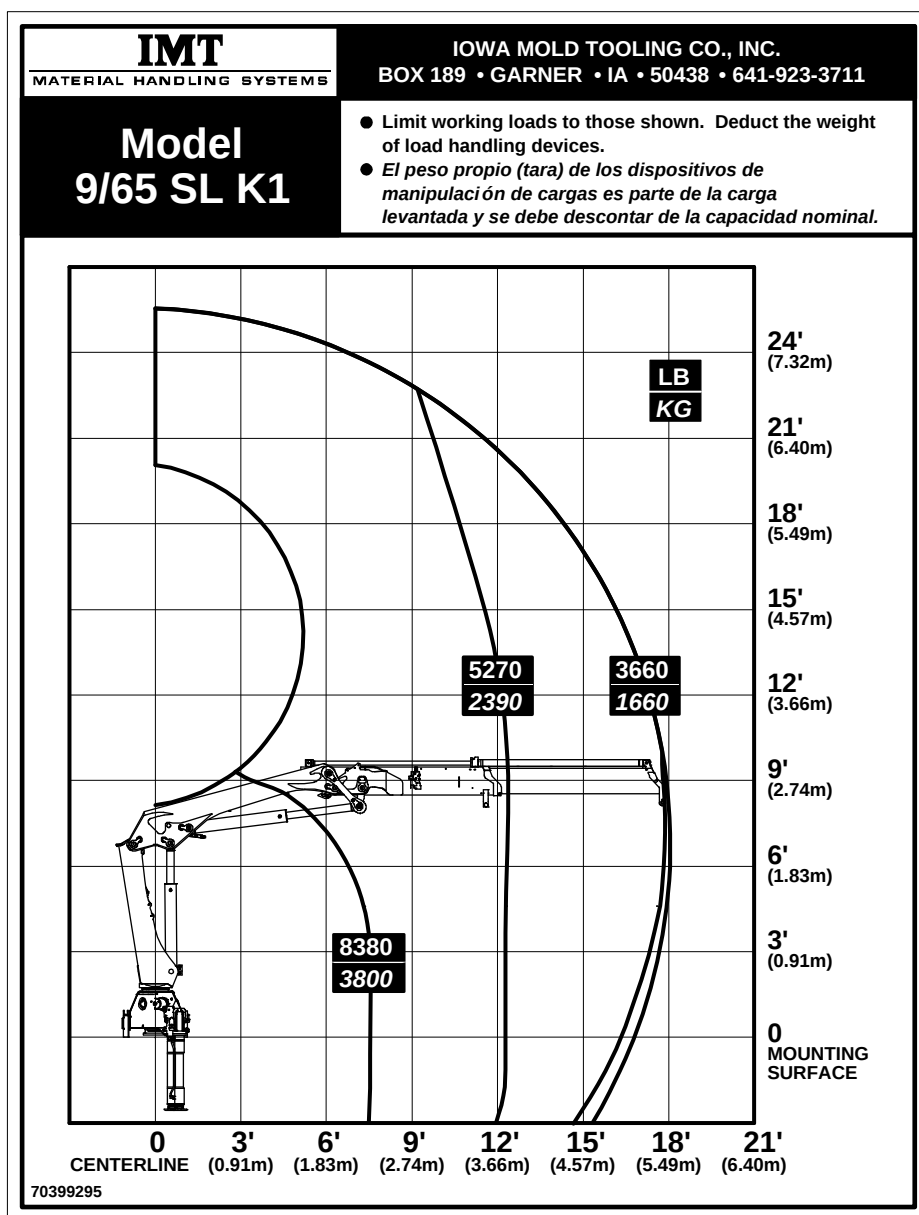
9/65 DIMENSIONS & PERFORMANCE	
Crane Storage Height	7'-0" (2135 mm)
Width	7'-9" (2350 mm)
Mounting Space	2'-5" (747 mm)
Maximum Swing Clearance (from top of chassis frame)	21.5" (545 mm) at 7'-5" (2251 mm) (Single) or 7'-6" (2276 mm) (Double)
Rotational Torque	9665 ft-lb (1.3 tm)
Rotation	420 degrees
Optimum Pump Performance	10.5 GPM (40 L/min)
System Pressure	4350 psi (300 bar)
Oil Reservoir Capacity	14.5 gal (55 L)

9/65 STABILIZERS	
Stabilizer Pad Diameter	6" (158 mm)
Stabilizer Weights	
Standard Man Out/Hyd Down, Fixed	355 lb (160 kg)
Standard Man Out/Hyd Down, Swing-Up	365 lb (165 kg)
Extended Reach Hyd Out/Down, Fixed	410 lb (185 kg)
Extended Reach Hyd Out/Down, Swing Up	420 lb (190 kg)
Stabilizer Spread, Standard	13'-8" (4165 mm)
Stabilizer Spread, Extended Reach	16'-10" (5140 mm)

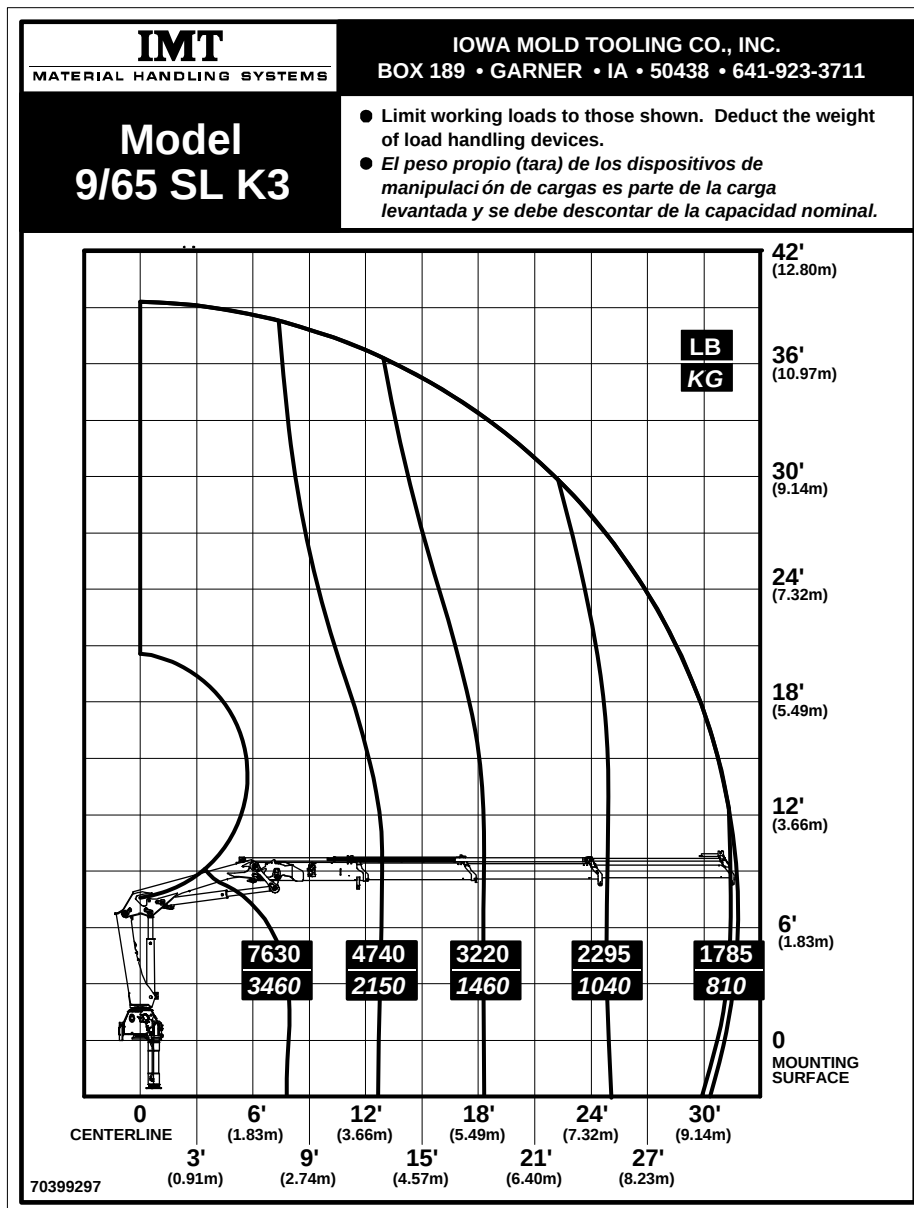
9/65 CHASSIS SPECIFICATIONS	
Front Axle Rating (GAWR)	8000 lb (3630 kg)
Rear Axle Rating (GAWR)	16,000 lb (7260 kg)
Resistance to Bending Moment	976,500 in-lb (112,505 kg-m)

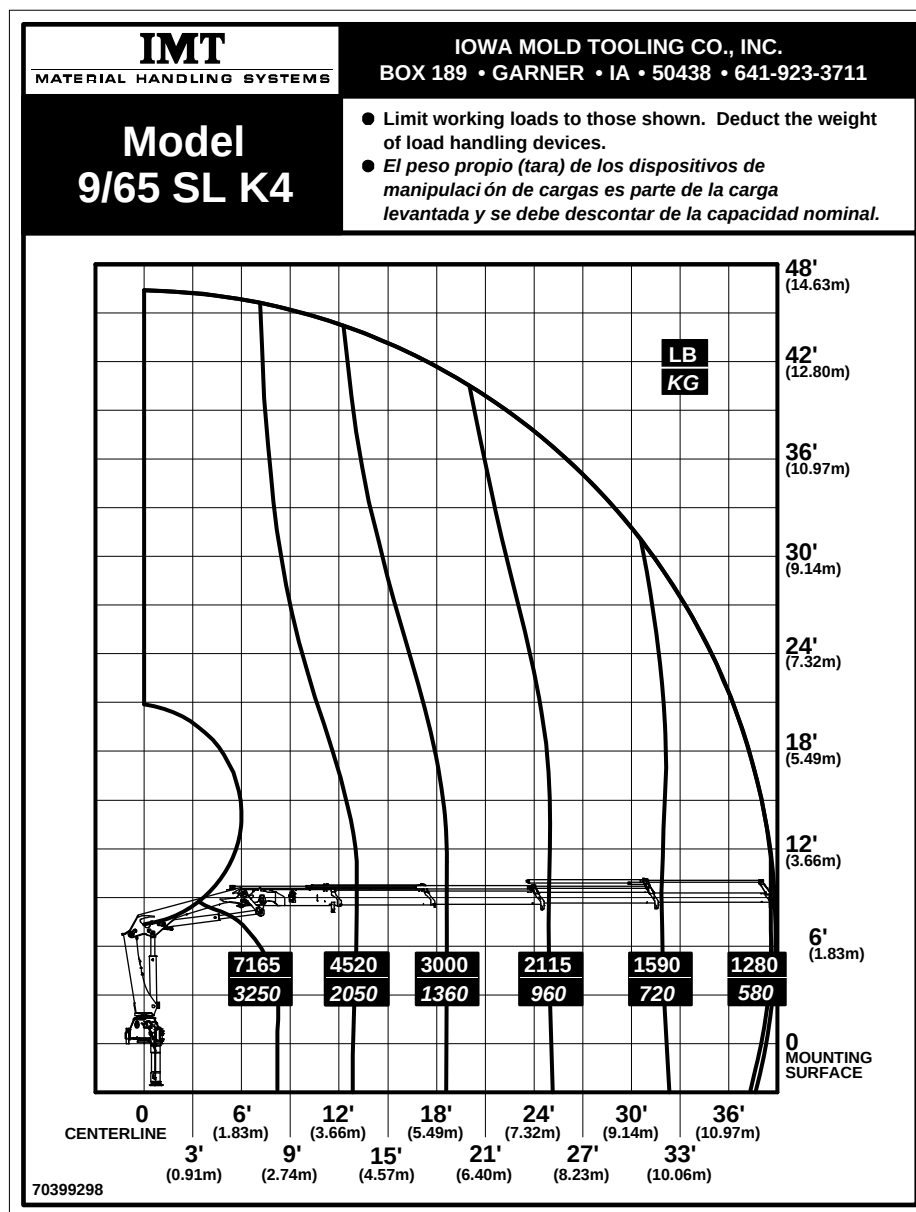


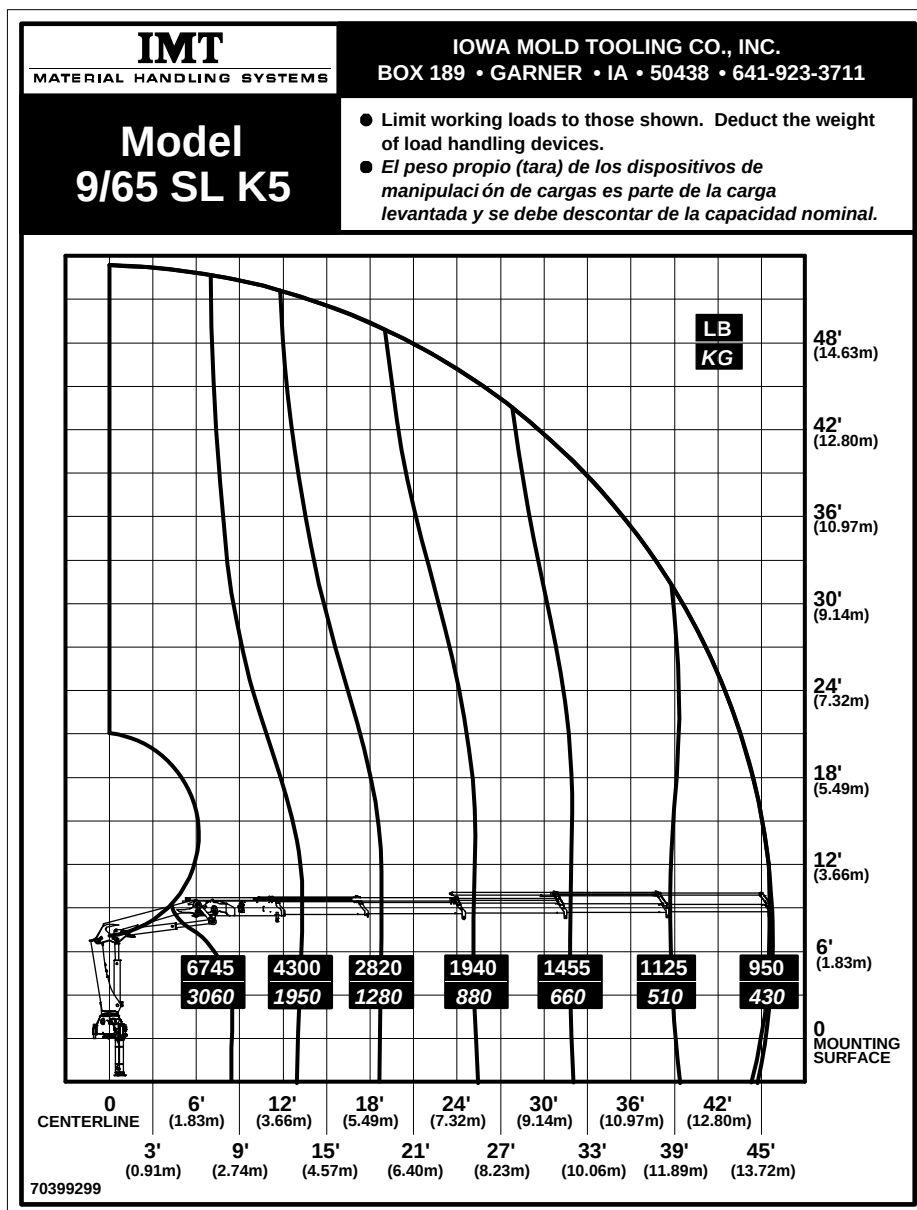
9/65 Series Single Link Capacity Charts





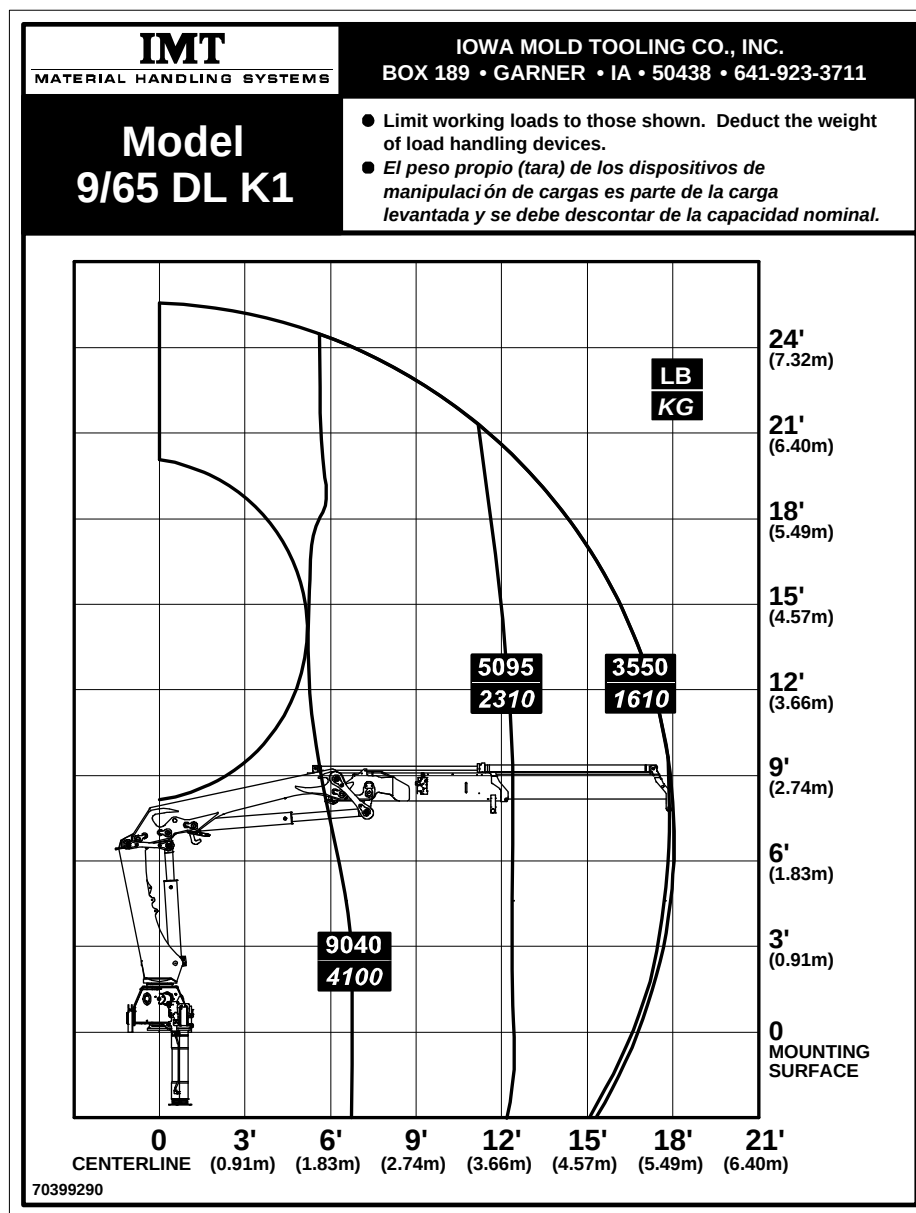


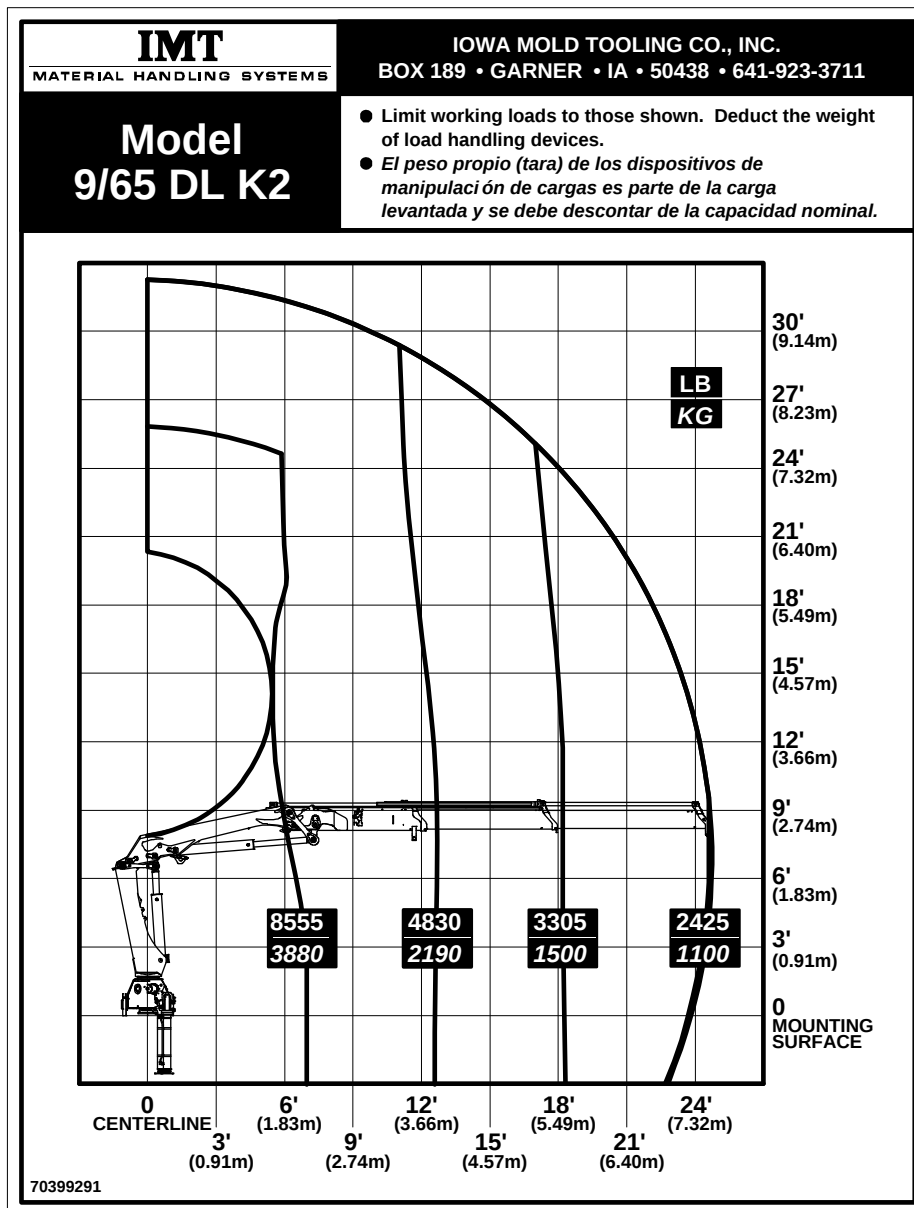


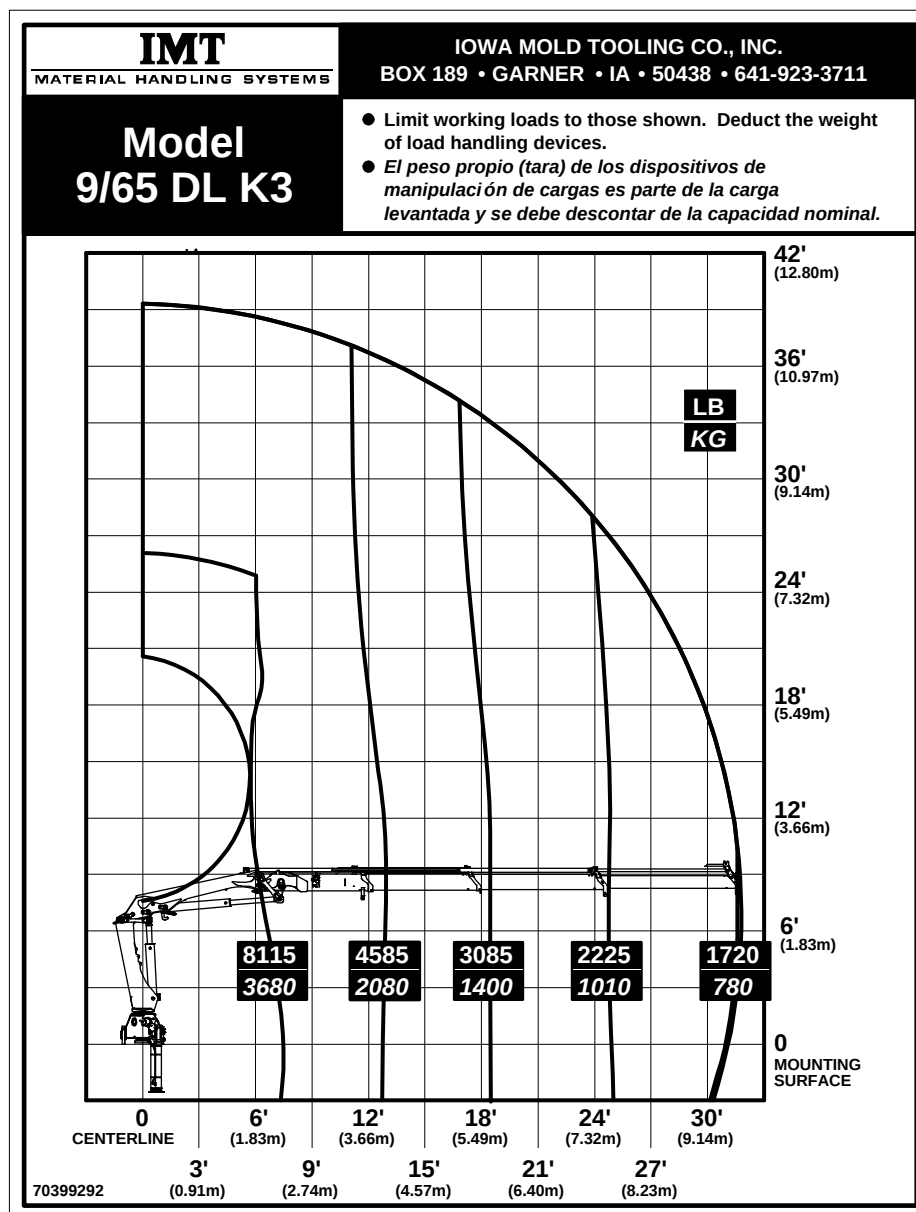


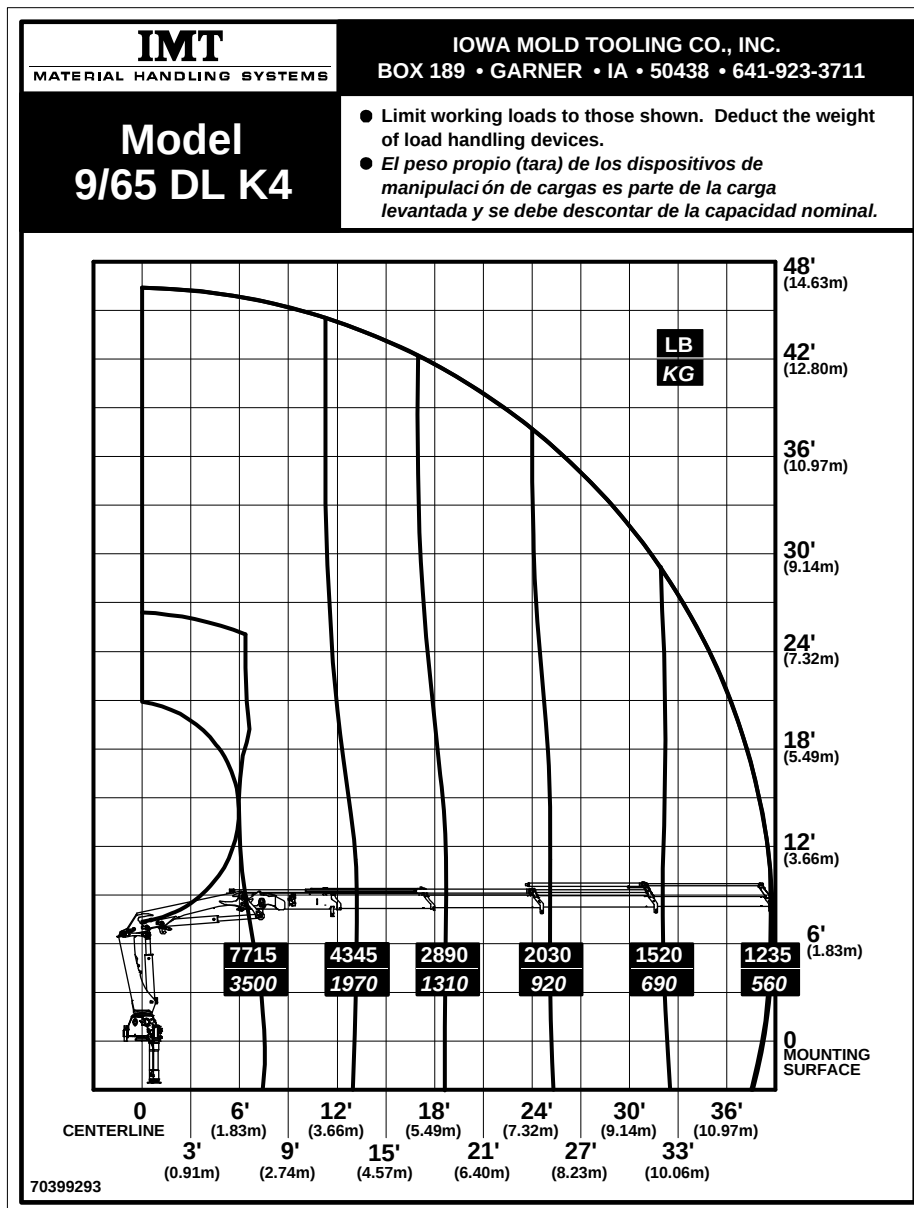


9/65 Series Double Link Capacity Charts





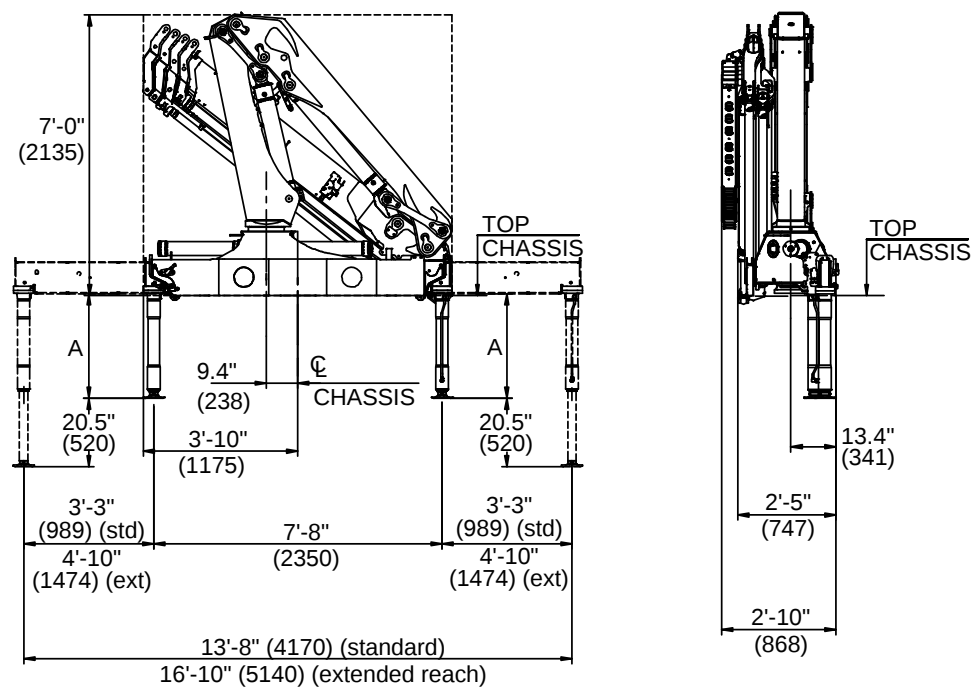
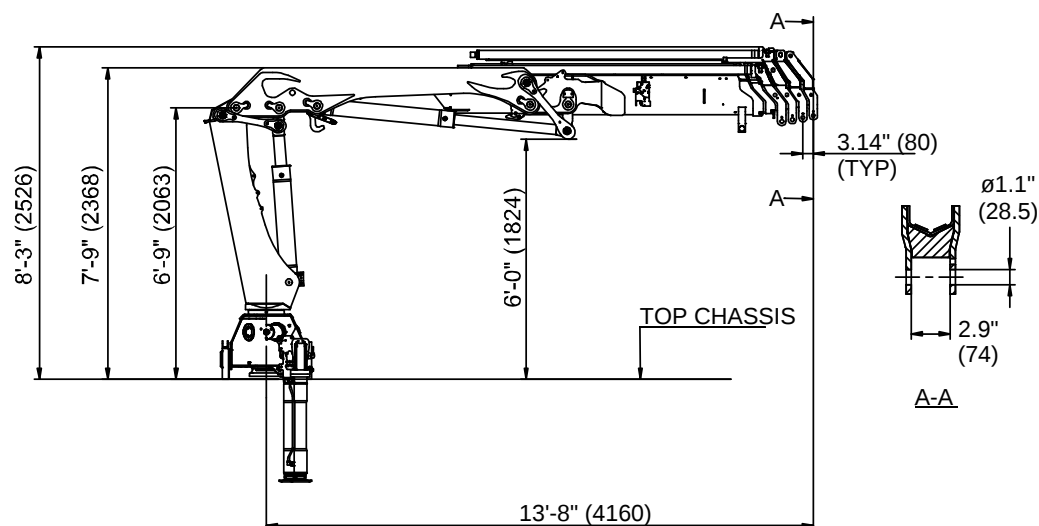








Dimensions

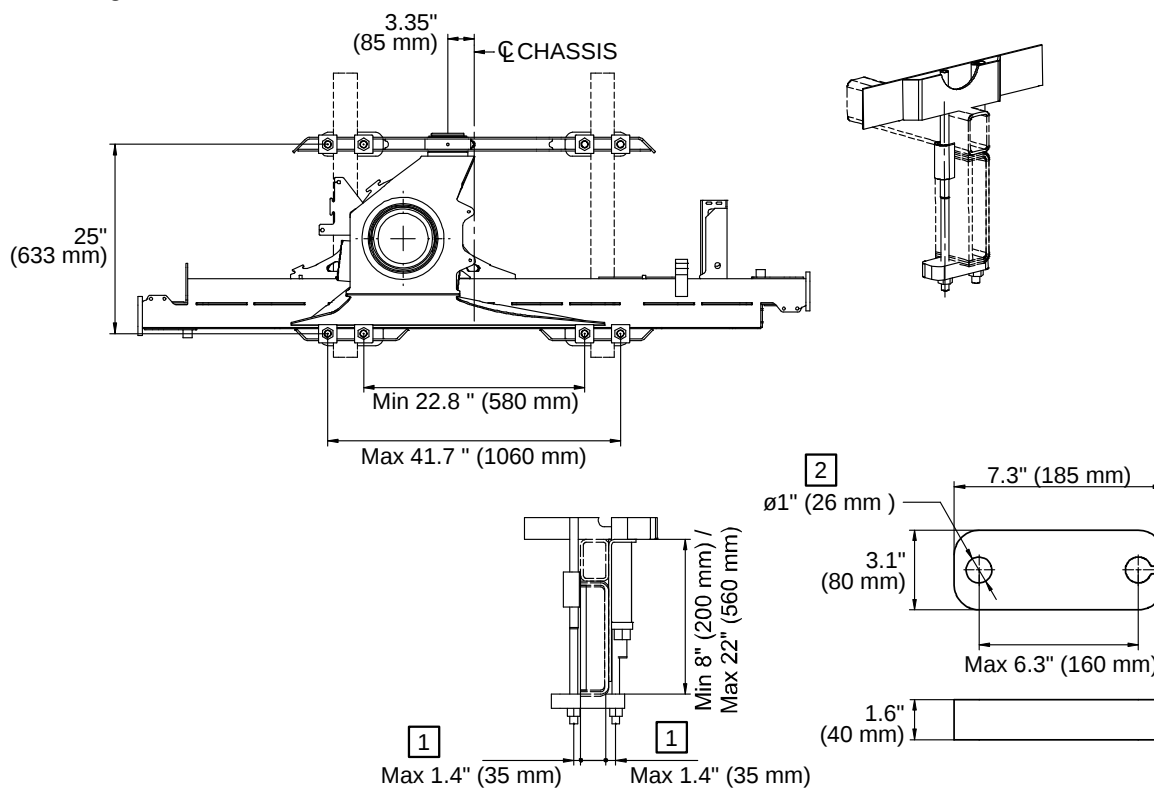


Double link crane shown. Single link dimensions are the same.
Dimensions shown in ft-in (mm).

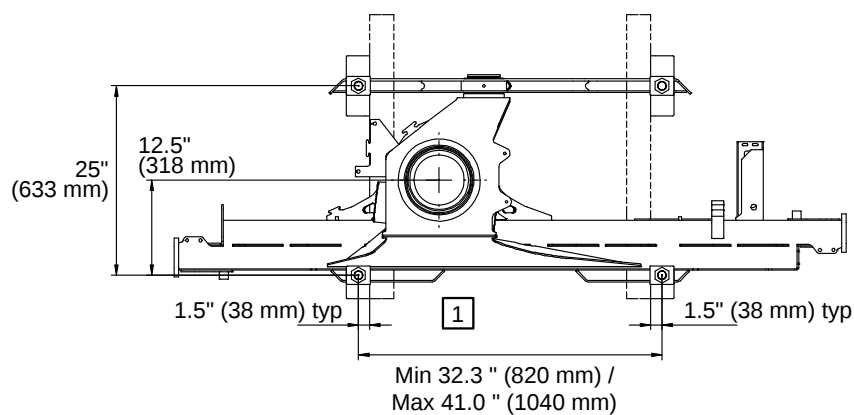


Mounting Dimensions

8 mounting holes - M24 x 2 bolt



4 mounting holes - M30 x 2 bolt

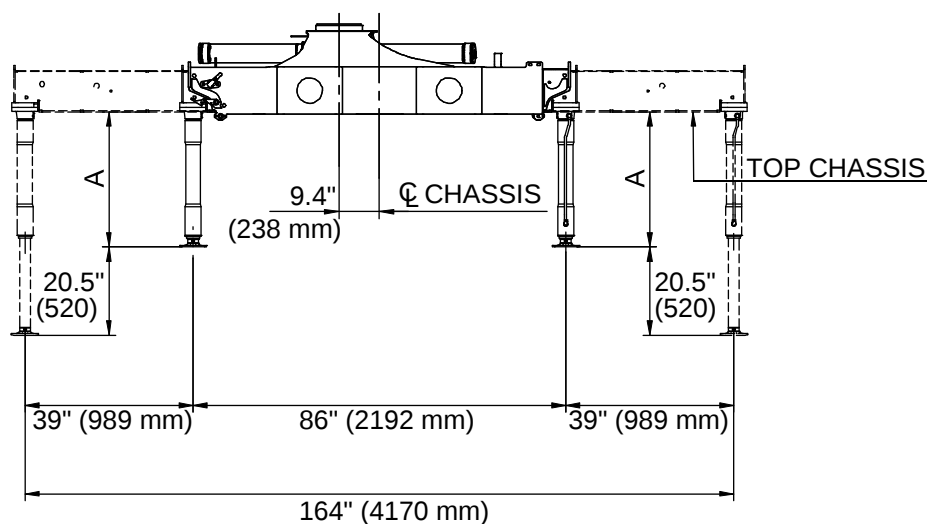
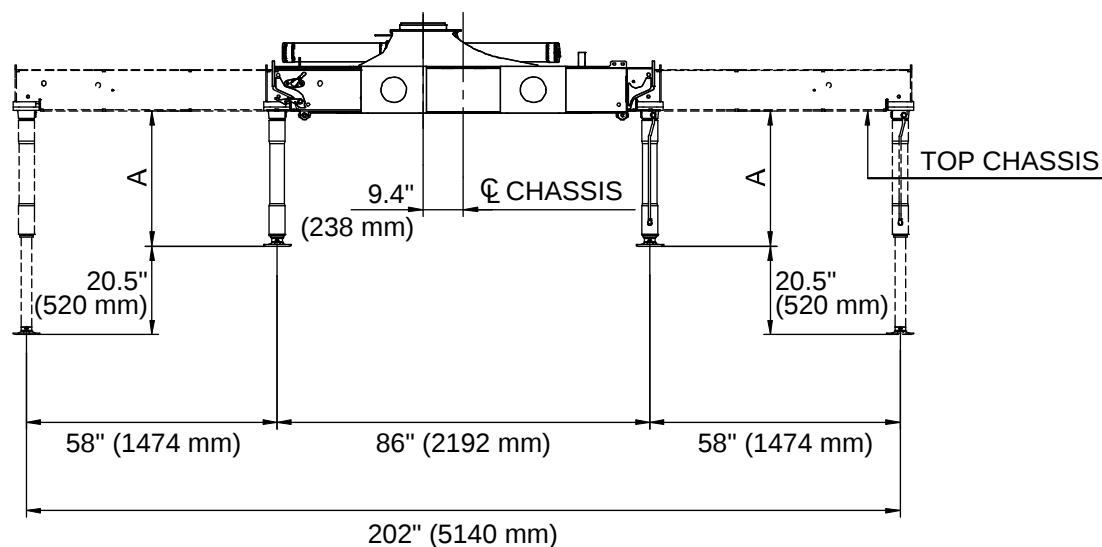


NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 Value dictated by strength concerns.
- 2 Mounting hole diameter.



Dimensions, Fixed Stabilizer Legs

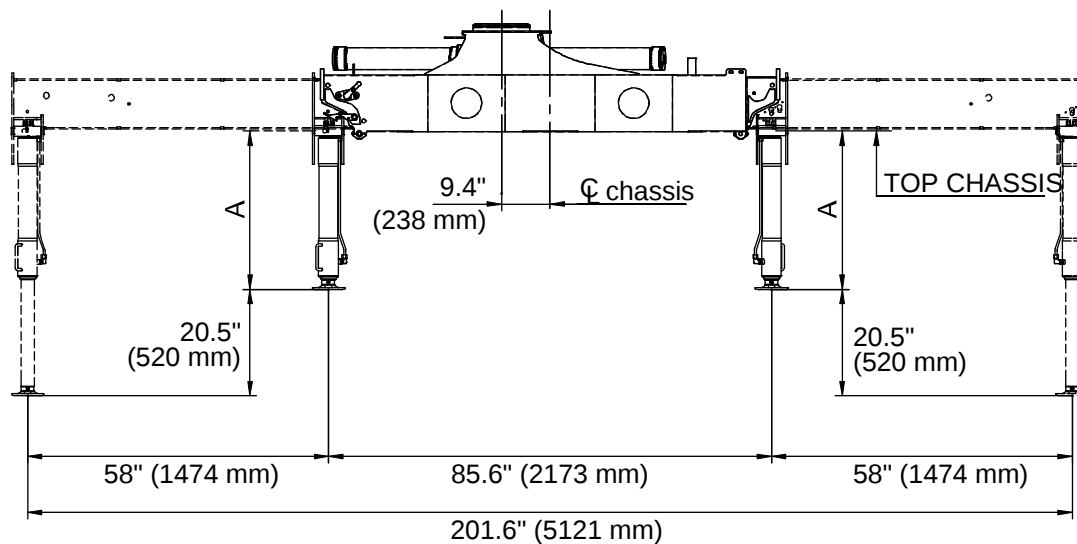
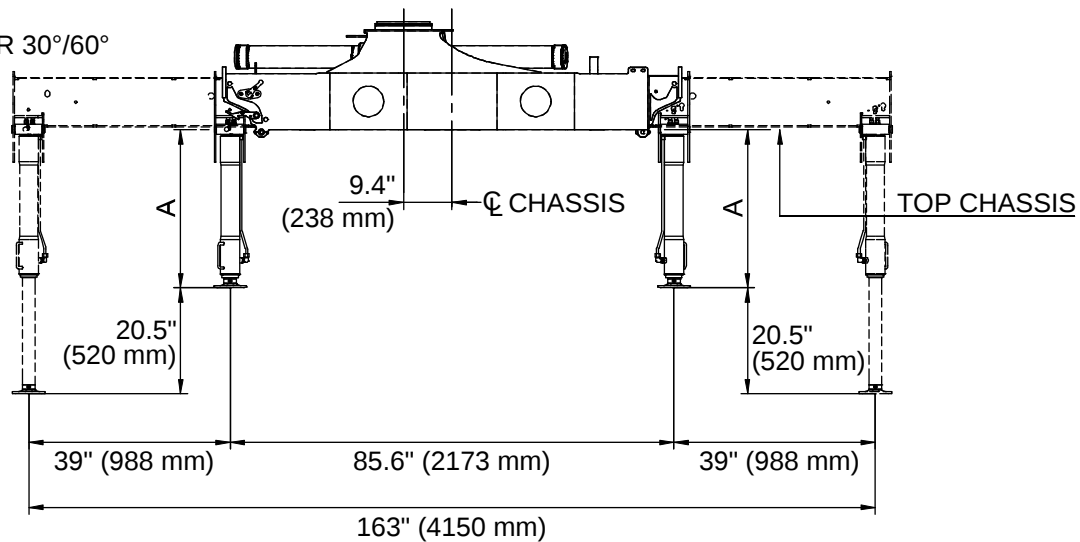


A	30.6" (777)	34.5" (877)	38.5" (977)

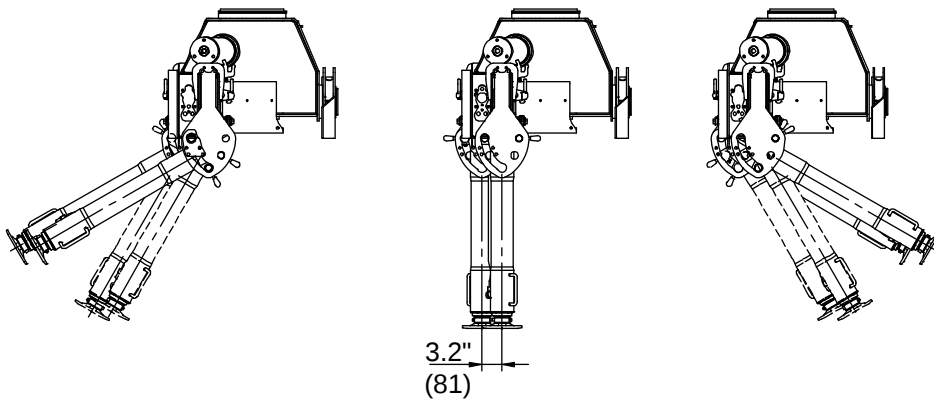
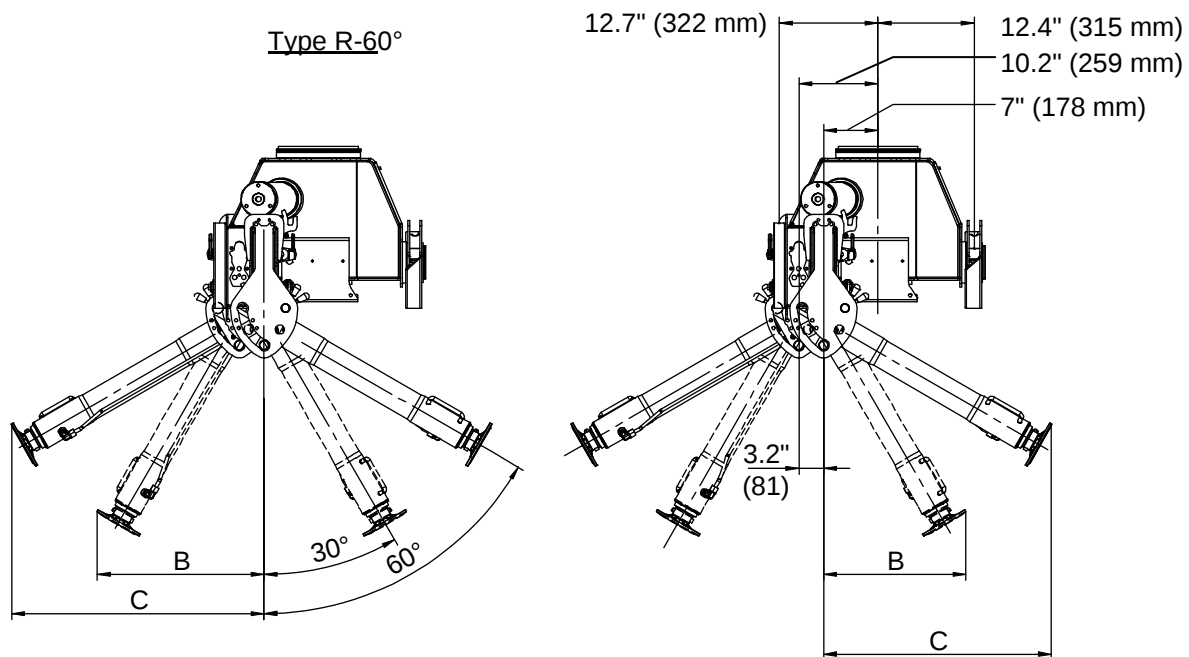


Dimensions, Manual Swing-Up Stabilizer Legs

Type SR 30°/60°



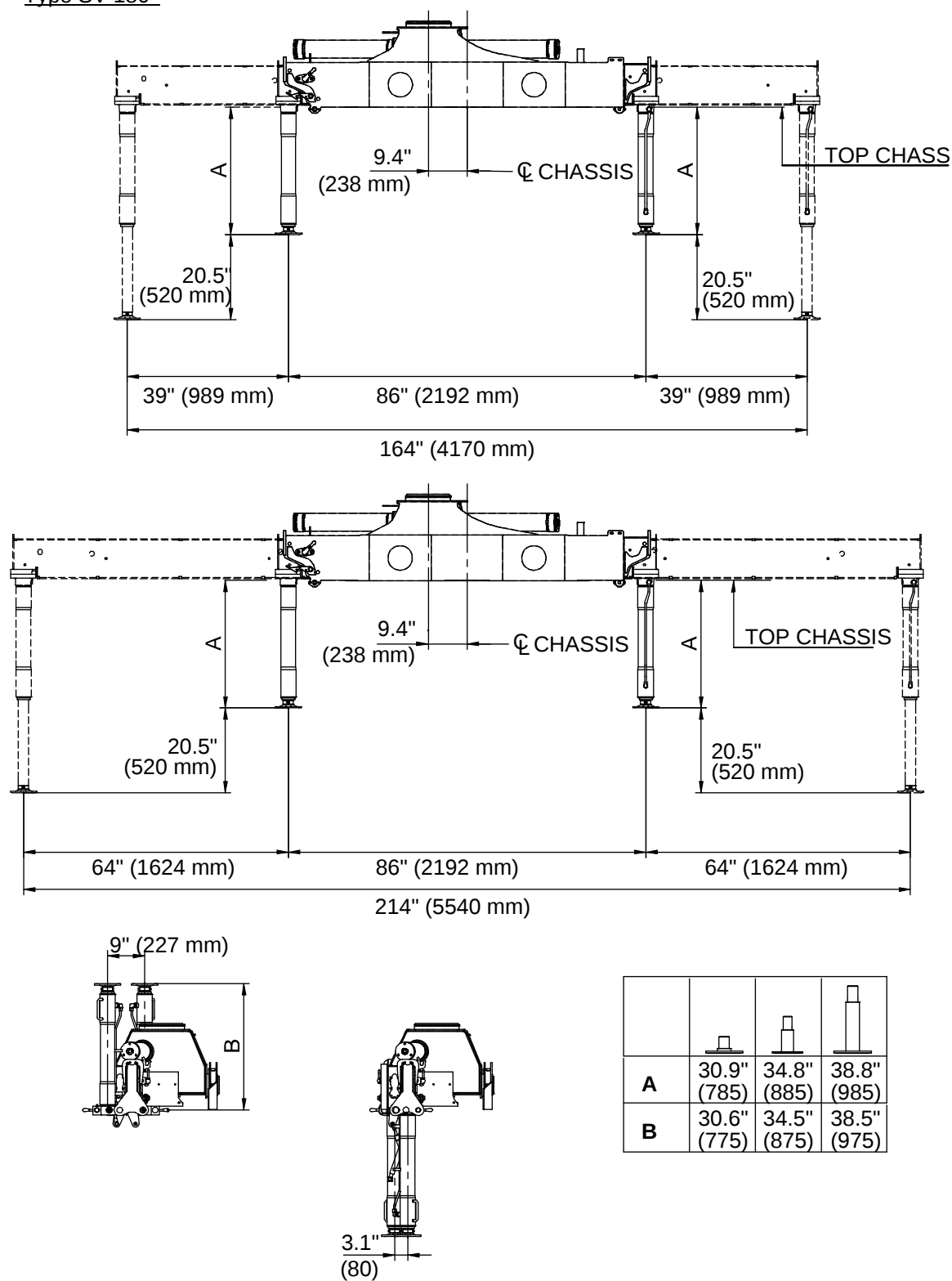
A	30.6" 775	34.5" 875	38.5" 975



B	18.3" (465)	20.3" (515)	22.2" (565)
C	29.3" (745)	32.7" (831)	36.1" (918)



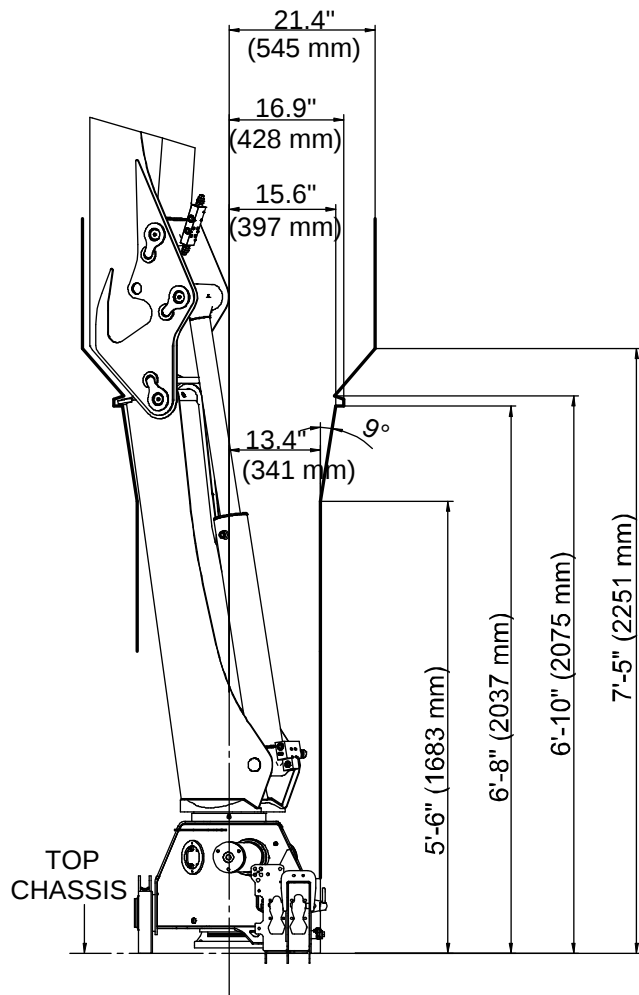
Type SV 180°





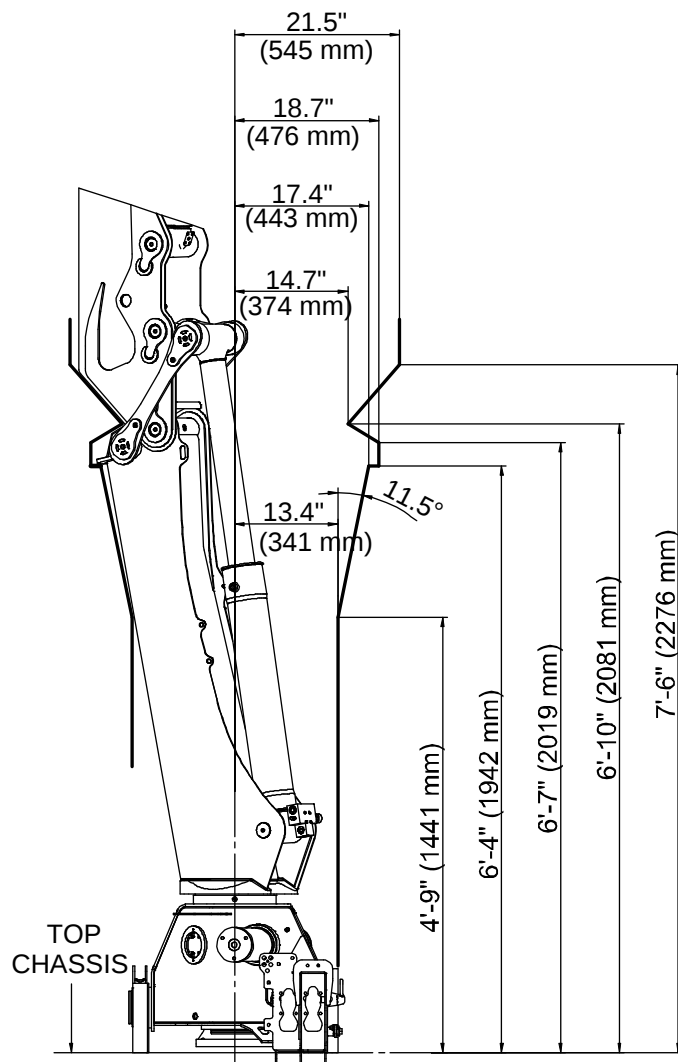
Swing Clearance Drawings

Single Link Swing Clearance





Double Link Swing Clearance







CHAPTER 2

Pressure Settings & Hydraulic Schematics

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9/65 Pressure Settings

Working Pressure on Main-Relief Valve & Port-Relief Valves			
Function	Direction	Port	9/65 Pressure psi (bar)
Main-relief valve			4350 (300)
Slewing system	Right	A	P
	Left	B	P
Boom cylinder	Down	A	1450 (100)
	Up	B	4715 (325)
Jib cylinder	Up	A	4715 (325)
	Down	B	2900 (200)
Extension cylinders	Extend	A	P
	Retract	B	P
Rotator	Right	A	2900 (200)
	Left	B	2900 (200)
Grab	Open	A	2900 (200)
	Close	B	2900 (200)
Separate stabilizer valve		All	2175 (150)

Working Pressure on Load-Holding Valves			
Function	Direction	Port	9/65 Opening Pressure psi (bar)
Boom cylinder			4715 (325)



Jib cylinder	Up	A	4785 (330)
	Down	B	
Slewing system			3045 (210)
Extension cylinders	Extend	A	3045 (210)
	Retract	B	6235 (430)

Pressure Setting for Load Moment Limitation (LMB)	
Load moment limitation (LMB)	4205 (290)

Maximum Pump Performance	
Pump performance, 1-circuit	10.5 gpm (40 l/min)



9/65 Hydraulic Schematic

