Manual # 99905156

80/565 Technical Specifications

Revision Date 20111214

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Revisions

DATE	LOCATION	DESCRIPTION
20111214	Specifications	ECN 11628 - Updated stabilizer wording.

CHAPTER 1

Technical Data and Charts

In This Chapter

80/565 Technical Specifications

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Crane Rating*	557,665 ft lb (77.1 tm)	541,030 ft lb (74.8 tm)	531,625 ft lb (73.5 tm)	525,840 ft lb (72.7 tm)	528,730 ft lb (73.1 tm)	517,160 ft lb (71.5 tm)	511,375 ft lb (70.7 tm)
Maximum Horizontal Reach	27' 3" (8.3 m)	34' 1" (10.4 m)	40' 8" (12.4 m)	47' 11" (14.6 m)	51' 10" (15.8 m)	59' 9" (18.2 m)	67' 3" (20.5 m)
Maximum Vertical Reach	36' 5" (11.1 m)	43' 0" (13.1 m)	49' 6" (15.1 m)	57' 5" (17.5 m)	61' 8" (18.8 m)	69' 3" (21.1 m)	77' 1" (23.5 m)
Maximum Capacity	38,185 lb (17,320 kg)	37,325 lb (16,930 kg)	37,060 lb (16,810 kg)	36,090 lb (16,370 kg)	36,705 lb (16,650 kg)	35,605 lb (16,150 kg)	34,945 lb (15,850 kg)
Max Cap @ Max Reach	20,945 lb (9500 kg)	16,250 lb (7370 kg)	12,920 lb (5860 kg)	10,405 lb (4720 kg)	9305 lb (4220 kg)	7630 lb (3460 kg)	6285 lb (2850 kg)
Crane Weight **	12,390 lb (5620 kg)	13,160 lb (5970 kg)	13,910 lb (6310 kg)	14,595 lb (6620 kg)	15,035 lb (6820 kg)	15,610 lb (7080 kg)	16,070 lb (7290 kg)
Hook Approach							
Vertical	10' 10" (3.3 m)	10' 6" (3.2 m)	10' 2" (3.1 m)	9' 10" (3.0 m)	10' 2" (3.1 m)	9' 10" (3.0 m)	9' 10" (3.0 m)
Horizontal	4'-11" (1.5 m)	4'-11" (1.5 m)	4'-11" (1.5 m)	4'-11" (1.5 m)	4'-11" (1.5 m)	4'-11" (1.5 m)	4'-11" (1.5 m)
Center of Gravity - Stored							
Vertical	3' 2" (961 mm)	3' 2" (972 mm)	3' 2" (977 mm)	3' 3" (990 mm)	3' 3" (983 mm)	3' 3" (992 mm)	3' 3" (1000 mm)
Horizontal (C/L RotTo Bridge)	12.1" (308 mm)	12.2" (309 mm)	12.4" (315 mm)	11.9" (303 mm)	12.5" (317 mm)	12.4" (314 mm)	12.5" (317 mm)

80/565 Specifications	
Stabilizer Pad Diameter	7.9" (200 mm)
Crane Storage Height	8' 2" (2495 mm)
Mounting Space (K2 - K5) ***	4' 8" (1430 mm)
Mounting Space (K6 - K8) ***	5' 2" (1565 mm)
Mounting Space (K6 with K6 FJ1200) ***	5' 6" (1680 mm)
Rotational Torque	57,865 ft-lb (8.0 tm)
Rotation	Continuous
Optimum Pump Performance	2X17gpm (2X65 L/min)
System Pressure	5075 psi (350 bar)
Oil Reservoir Capacity	55.5 gal (210 L)
Stabilizer Extension Span	
Standard (hydraulic out / hydraulic down)	27' 7" (8420 mm)
Weight	2260 lb (1025 kg)
Minimum Chassis Specifications	
Front Axle Rating (GAWR)	20,000 lb (9070 kg)
Rear Axle Rating (GAWR)	46,000 lb (20,865 kg)
Resistance To Bending Moment	7,740,000 in-lb (891,745 kg-m)

80/565 Pressure Settings

NG PRESSURE ON MAIN-RELIEF VALVE & PORT-RELIEF VALVES

VALVE BLOCK, CIRCUIT 1

Main-relief valve			5367 psi (370 bar)	
FUNCTION	**DIRECTION**	**PORT**	**PORT-RELIEF VALVES**	**LS-PRESSURE ADJUSTMENT**
Slewing system	CW	A	P	2175 psi (150 bar)
	CCW	B	P	2175 psi (150 bar)
Winch	Lift	A	P	3045 psi (210 bar)
	Lower	B	P	3045 psi (210 bar)
Boom cylinder	Up	A	5367 psi (370 bar)	5076 psi (350 bar)
	Down	B	P	41815 psi (125 bar)

VALVE BLOCK, CIRCUIT 2

Main-relief valve			5367 psi (370 bar)	
FUNCTION	**DIRECTION**	**PORT**	**PORT-RELIEF VALVES**	**LS-PRESSURE ADJUSTMENT**
Jib cylinder	Up	A	4930 psi (340 bar)	4640 psi (320 bar)
	Down	B	P	2900 psi (200 bar)
Extension	Extend	A	P	4350 psi (300 bar)
	Retract	B	P	4350 psi (300 bar)
Rotator	CW	A	4350 psi (300 bar)**	725 - 4350 psi (50-300 bar)*
	CCW	B	4060 psi (280 bar)**	725 - 4350 psi (50-300 bar)*
Grab	Open	A	P	725 - 4350 psi (50-300 bar)*
	Close	B	P	725 - 4350 psi (50-300 bar)*
Separate stabilizer valve		All		3045 psi (210 bar)

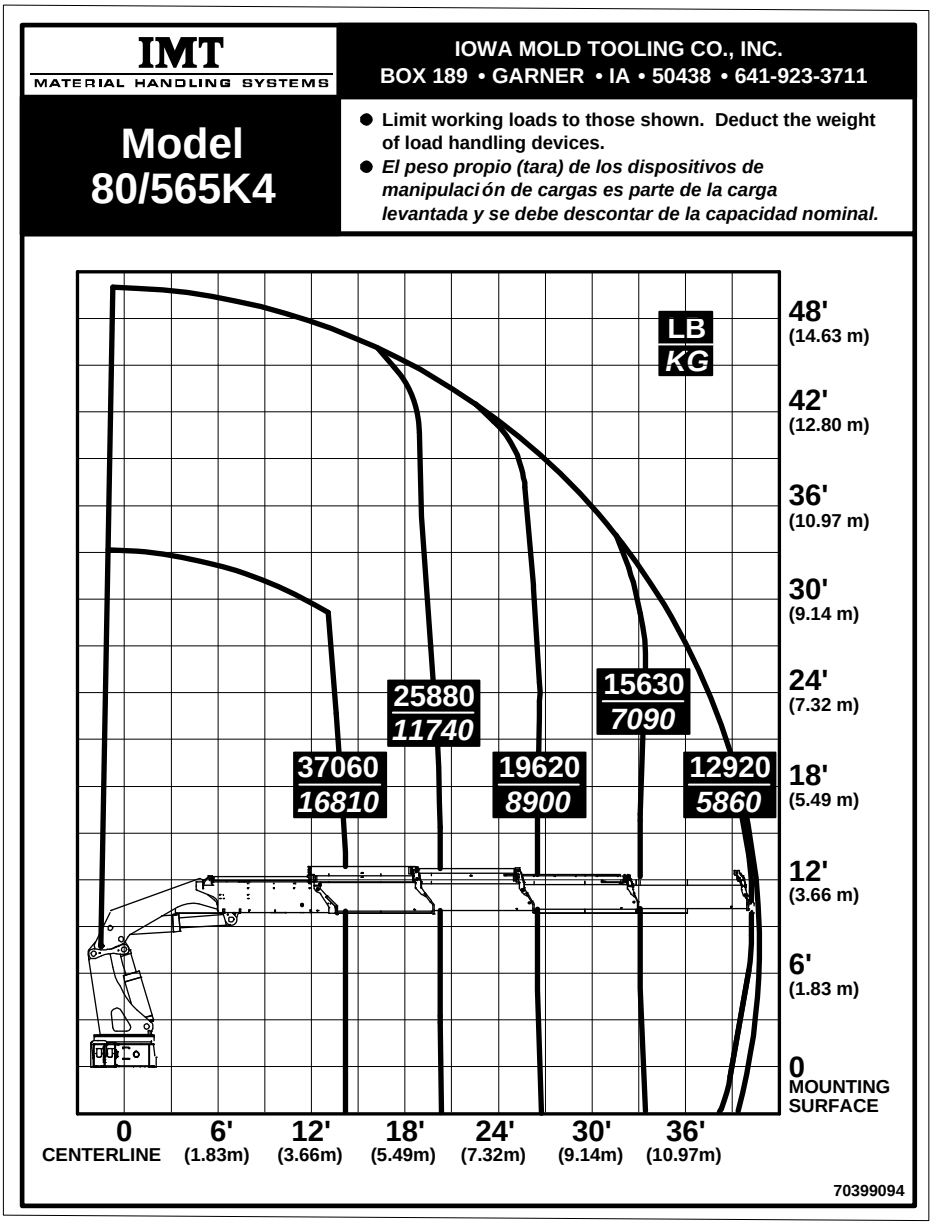
* On loaders without fly-jibs, the LS-pressure may be adjusted individually.
** On loaders without fly-jibs, it is possible to change the port-relief valves individually.

Opening Pressure on Load-Holding Valves

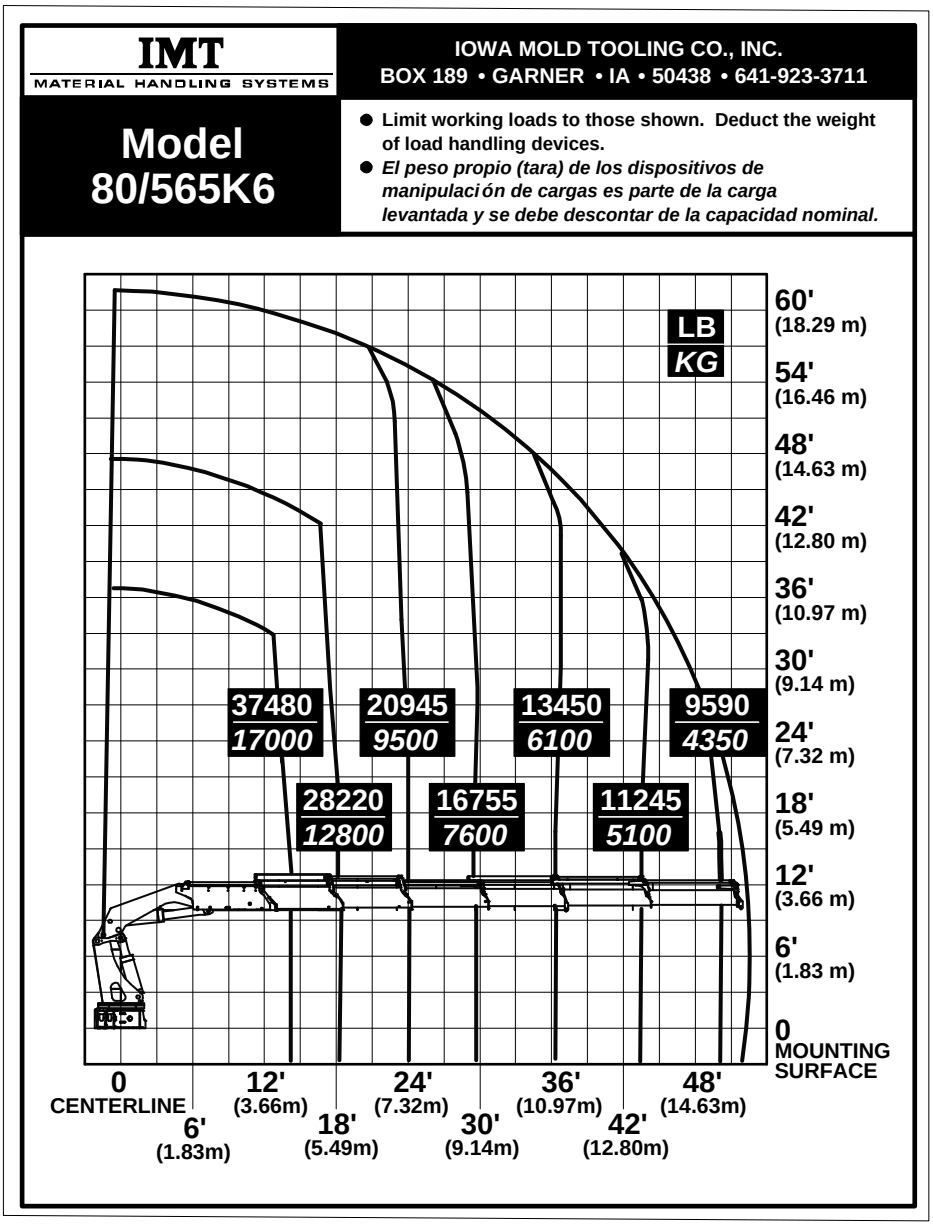
Planetary Gear, V1	Slewing CW	2320 psi (160 bar)
Planetary Gear, V2	Slewing CCW	2320 psi (160 bar)
Boom Cylinder C2-V2	Tilt Up	5511 psi (380 bar)
Boom Cylinder C1-V2	Tilt Down	1815 psi (125 bar)
Jib Cylinder C2-V2	Jib Up	5221 psi (360 bar)
Jib Cylinder C1-V2	Jib Down	3045 psi (210 bar)
Ext Cylinder C1-C2	Extension Retract	5510 psi (380 bar)
Ext Cylinder C2-V2	Extension Extend	3770 psi (260 bar)
Ext Cylinder C2-V1*	Extension Extend*	3480 psi (240 bar)
* Max. pressure at "Extension Extend" and regeneration OFF		

Load moment limitation (LMB)	4786 psi (330 bar)
Pump performance	21.1 gpm (80 l/min)

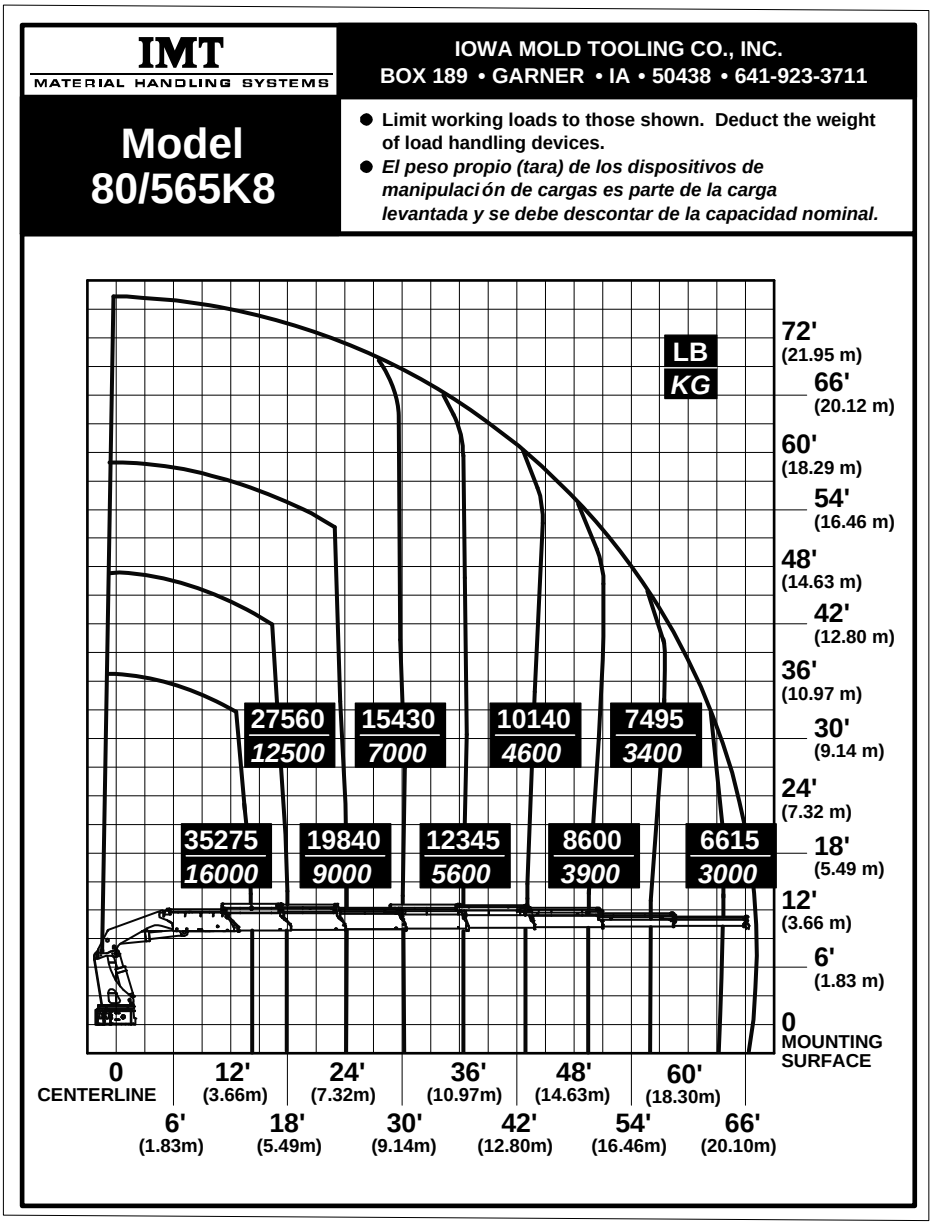
80/565 K4 Capacity Chart



80/565 K6 Capacity Chart

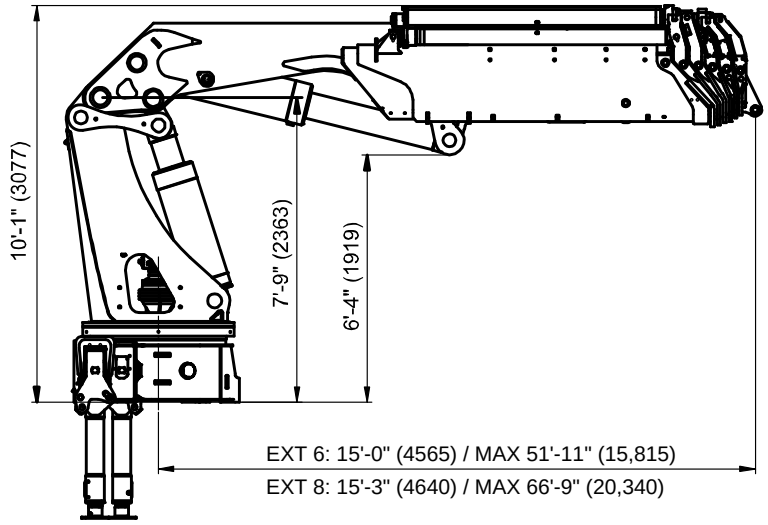


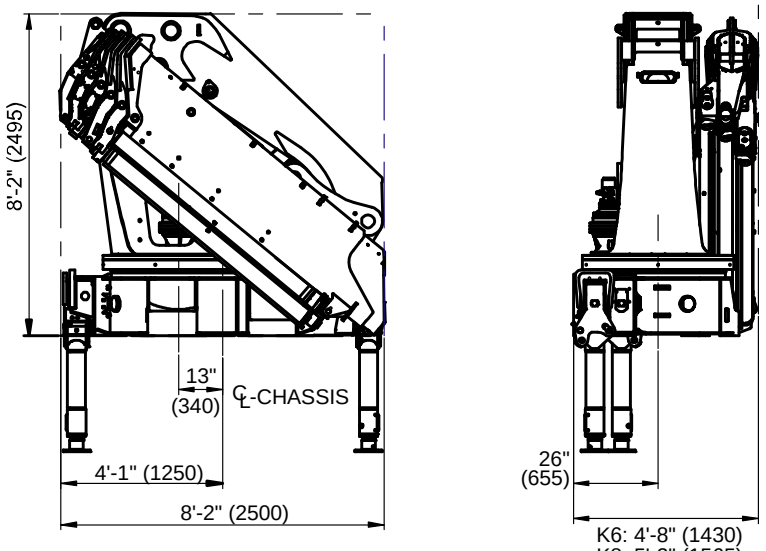
80/565 K8 Capacity Chart

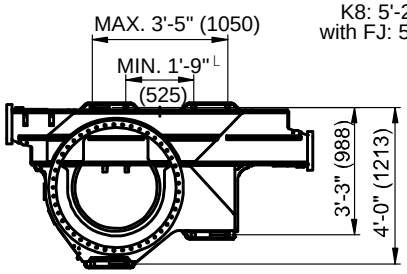


80/565 Dimensional Drawing

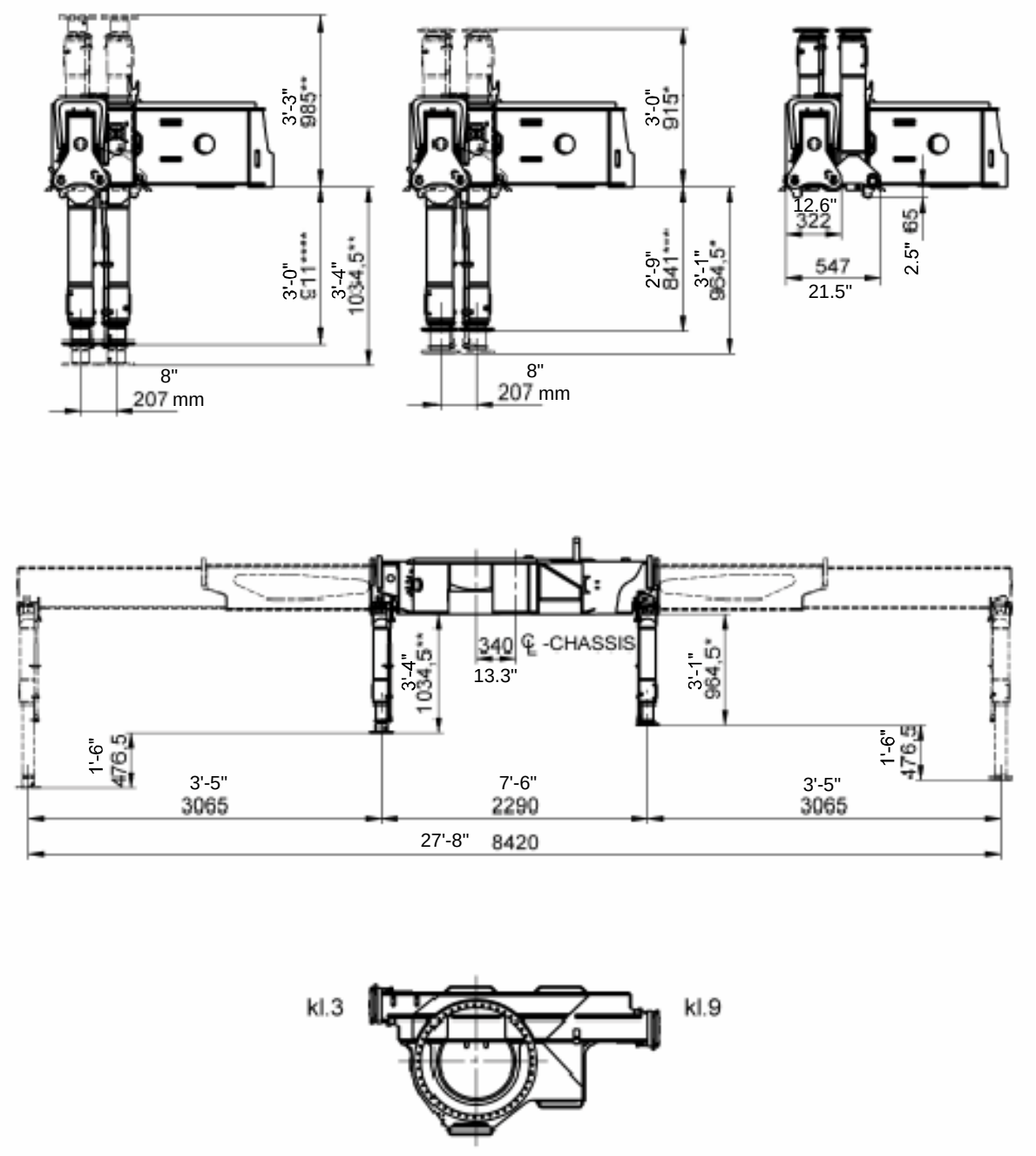
Dimensions in feet-inches / mm.



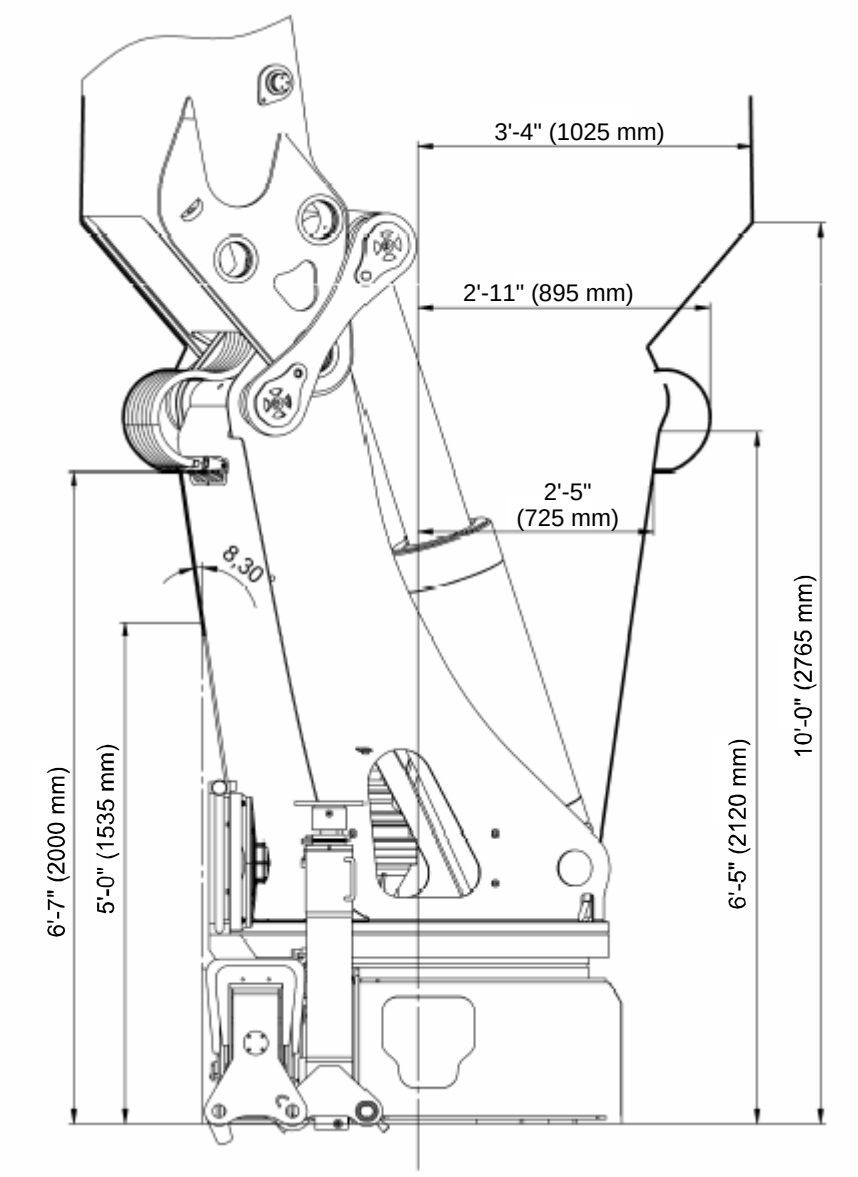




Stabilizer Dimensions, Hydraulic Swing-up, 80/565



80/565 Swing Clearance

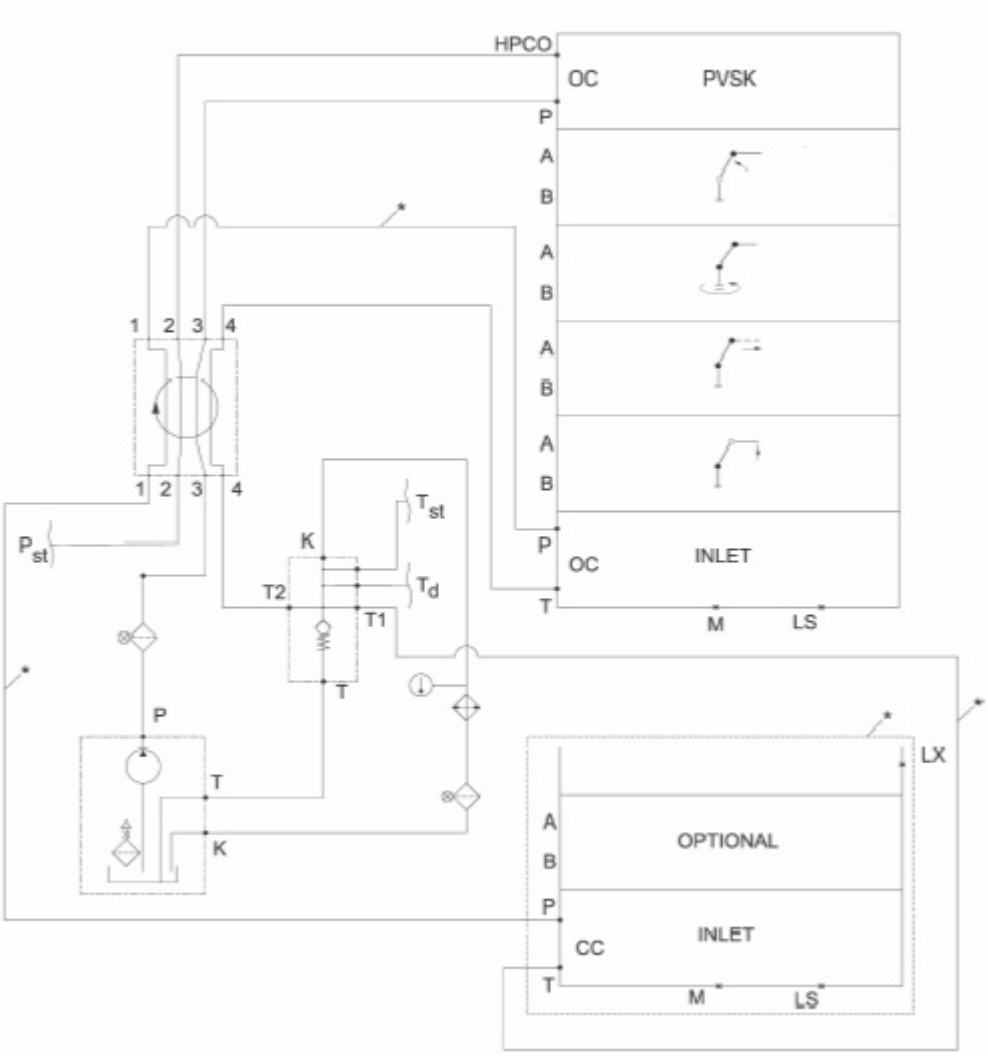


CHAPTER 2

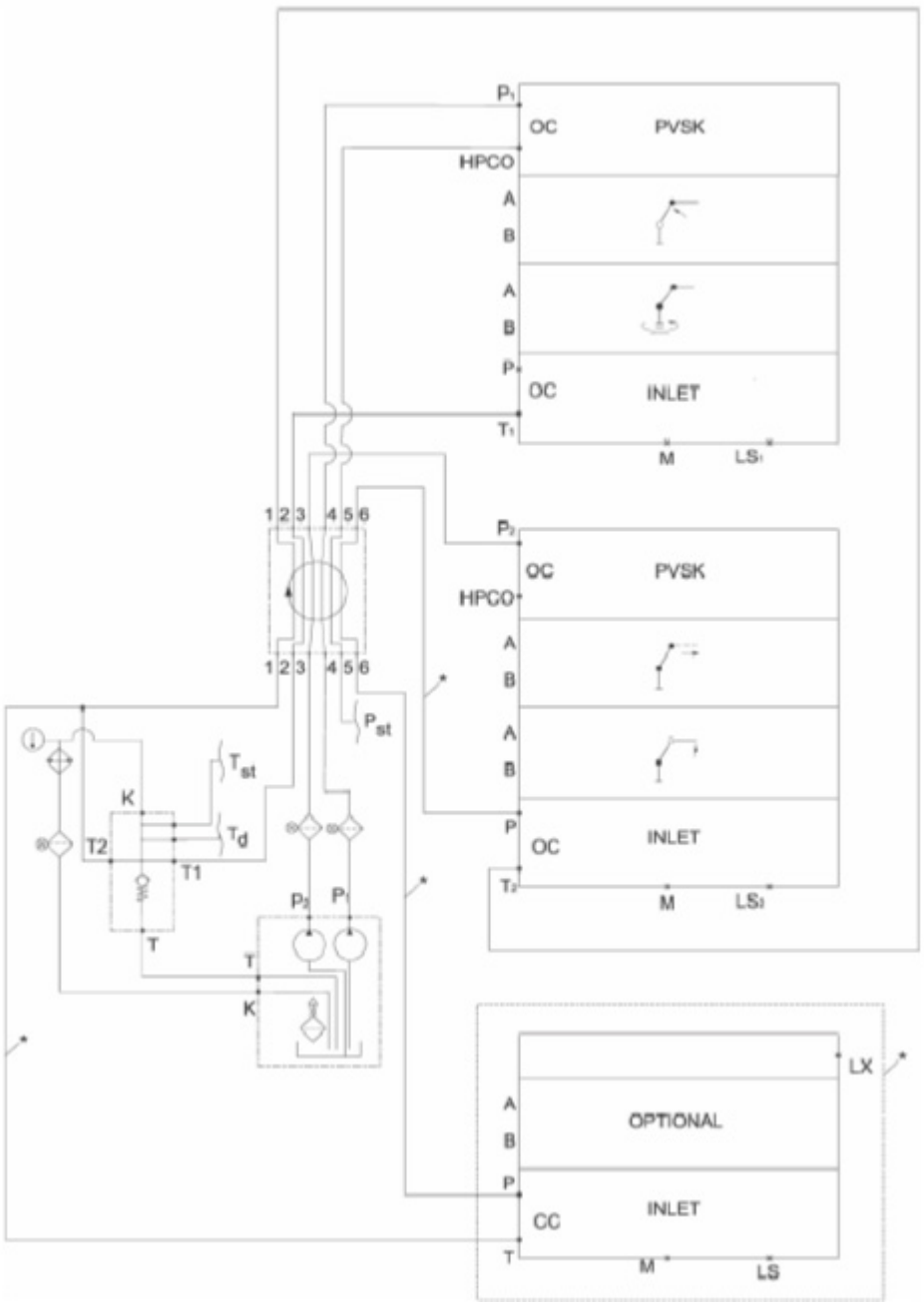
Hydraulic Schematics

In This Chapter

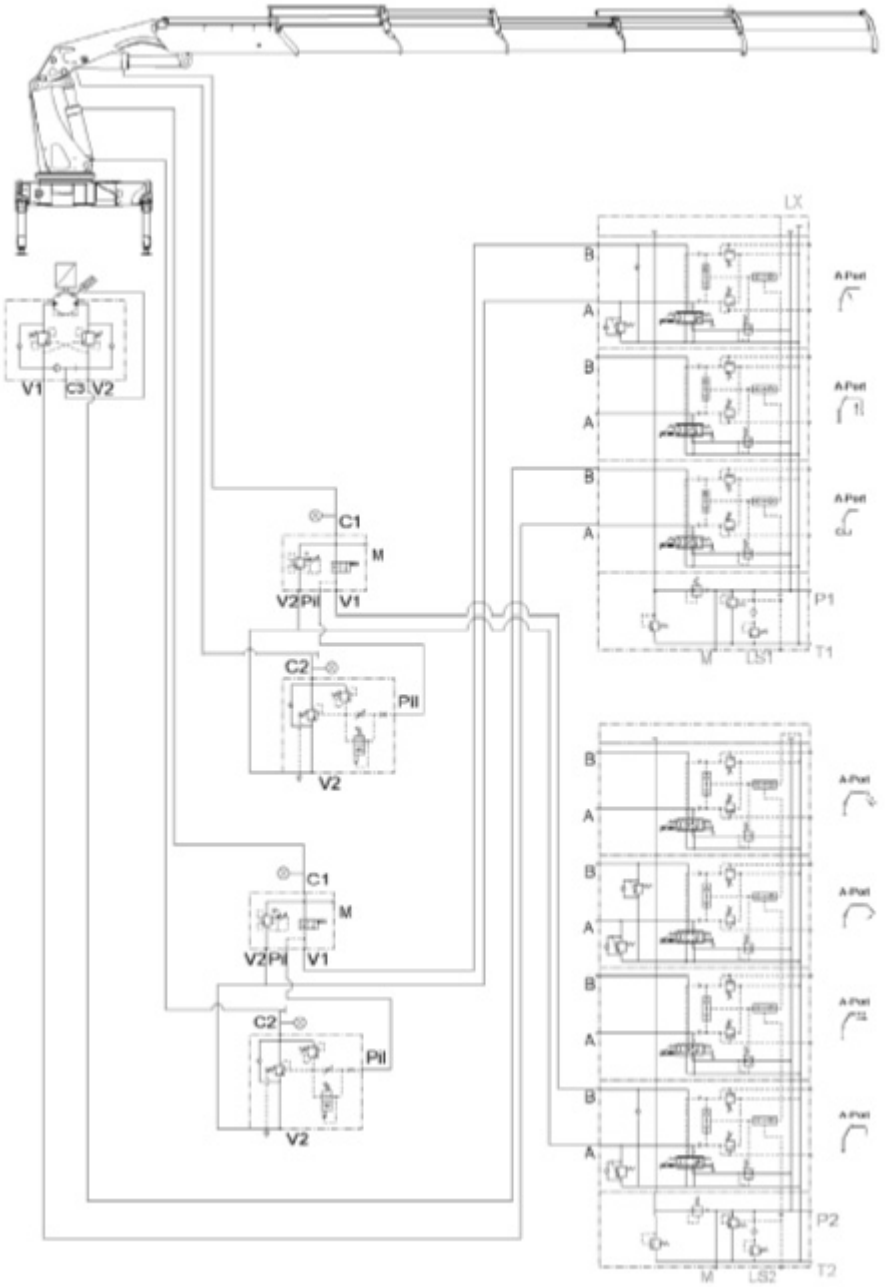
80/565 Hydraulic Schematic, Single-Circuit Fixed



80/565 Hydraulic Schematic, Dual-Circuit Fixed



80/565 Hydraulic Schematic, Loader Functions



80/565 Hydraulic Schematic, Winch