



SANY
AMERICA INC.

SRC840
Product Guide



FEATURES

- 40 US T Capacity @ 10 ft. Radius
- 15,000 lbs Hoist Max Line Pull
- 32.8'-103.4' Main Boom
- 26'-45' Boom Extension
- Cummins QSB6.7 160 HP Engine

OPERATOR'S CAB



Spacious ergonomic cab with all steel construction. Optimum visibility, tinted safety glass through. Opening skylight with visor and wiper system. Sliding door on the left hand side and a framed sliding window on the right hand side. Acoustical foam to absorb noise and insulate the cab. Deluxe six-way adjustable seat is equipped with mechanical suspension and includes arm rests and head rest.



SANY DESIGNED LOAD MOMENT LIMITER (LML)

The user friendly SANY designed LML is prominently displayed and simple to set up and operate.



HIGH QUALITY, NAME BRAND COMPONENTS



Cummins engine coupled to **Parker & Husco** hydraulic components and **Braden Winches** deliver high reliability and consistent performance.

SRC840



- Engine: **Cummins** Model QSB6.7 160 HP @ 2500 rpm
- Hydraulic system: **Parker** Piston Pump and **Husco** Valve
- **Braden** Winches
- SANY designed LML with large display screen
- **AxleTech** Axles and **Dana** Powershift Transmission
- 103 Foot Four Section Main Boom and 26' – 45' Extension
- Key standard features
 - Large Cab
 - Horsepower Limited Pump
 - Hydraulic Joystick Controls
 - Post Compensated Valves
 - SANY 24 Volt Electrical Control System

Maximum Capacity @ Radius	40 US Ton @ 10 ft
Main Boom	32.8 ft – 103.4 ft
Max Tip Height W/extension	155.5 ft
Boom Extension	26 ft – 45 ft
Hoist Max Line Pull	15,000 lbs
Wire Rope Diameter	5/8 in.
Weight	71,209 lbs
Length	39 ft 10.5 in.
Height	11 ft 2 in.
Max Gradeability	100% GVW
Width	8 ft 7.5 in.
Tail Swing	12 ft 11 in

ENGINE

Cummins Model QSB6.7 Tier 3
 Power.....260 HP (119 Kw)
 Fuel Tank75 Gal. (284L)



SWING SYSTEM

The swing system can rotate 360 degrees continuously in both directions. Independent swing circuit eliminates function interaction. Planetary drive offers free swing or automatic brake application for operator preference. Maximum speed 2.7 RPM with a 12 ft 11 in tailswing.



HYDRAULIC SYSTEM

Parker horsepower limited piston pump with Husco post compensated valves provides multifunction load sharing and fine control. Energy saving system offers a lower operational cost. Oil cooler and pressure filter to ensure long component life.



HOISTS

Braden main and auxiliary hoists are independently driven and controlled by the joysticks.

Rope Diameter 5/8"
 Max Line Speed 460 ft/min
 Max Line Pull 15000
 Drum Capacity 770 ft



CONTROLS

Hydraulic pilot operated joysticks produce smooth variable control of crane functions. Drum rotation indicators are incorporated in the handles. Steering column mounted turn signals and transmission control. Foot pedals for swing brake, telescope, service brake and accelerator. Hi-Low hoist speed control switch in handle for ease of use. SANY electrical system includes LML and lockout with CAN bus for reduced complexity. Built in diagnostics and engine instrumentation display. Electrical system is 24 volt.



COUNTERWEIGHT

Fixed 8,818 pound counterweight.



OPERATOR'S CAB

Spacious ergonomic cab with all steel construction. Optimum visibility, tinted safety glass throughout. Opening skylight with visor and wiper system. Diesel heater and defroster. Sliding door on the left hand side and a framed sliding window on the right hand side. Deluxe six-way adjustable seat is equipped with mechanical suspension and includes arm rests and head rest.



BOOM

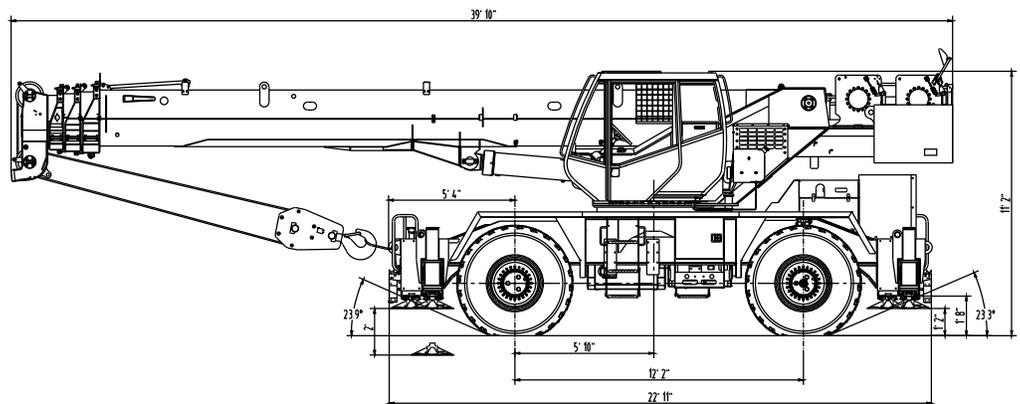
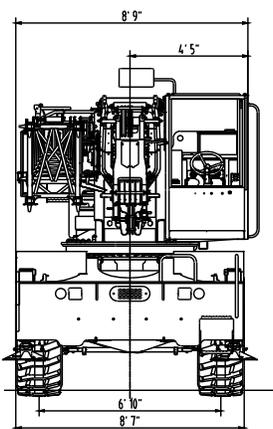
Four section sequenced synchronized full power boom.

(32.8' – 103.4') Boom elevation -2° to 78° with a maximum tip height of 111 ft. Side mounted bifold boom extension (26' – 45') with 0°, 15°, and 30° offset. Maximum tip height of 155.5 ft.



CARRIER

Equipped with hydraulic powered four way steering for excellent maneuverability. Three position outriggers provide 10" of ground penetration and 20.2 ft of extension to level the crane. Superior accessibility from ground for ease of maintenance. Earthmover style 20.5 X 25 tires provide excellent flotation for off road use. Dana powershift transmission includes 6 speeds forward and reverse with a maximum speed of 25 MPH. AxleTech drive steer axles are supplied with hydraulic disk brakes and a spring applied parking brake.



Anti-Two-Block (A2B)

A limit switch and an actuation weight on load lines are provided to prevent two-blocking of the hook block and the overhaul ball. When the lifting hook reaches its maximum height, a limit switch will activate the buzzer on the control panel, meanwhile the indicator light will blink and automatically stop the lifting operation of hook block.

Backup Alarm

A backup alarm will operate when the machine is placed in reverse.

Crane Level Indicator

A bubble level displaying the machine angle is mounted in the operators cab.

Boom Angle Indicator

An angle indicator is mounted on the side of the base section to show the boom angle. The boom angle is also displayed on the LML console.

Boom Length Indicator

A cable reel is provided to measure the boom length and it is displayed on the LML console.

Load Holding Valves

Load holding valves are provided on all cylinders that support the load to prevent uncontrolled lowering of the boom in the event of a hydraulic system failure (e.g., supply hose rupture).

Load Moment Limiter (LML)

A Load Moment Limiter (LML) system is supplied to monitor the hook load and compare it with the rated load for the configuration selected by the operator.

Outrigger Jack Integral Holding Valve

All four outrigger jacks are supplied with an integral holding valve to prevent cylinder retraction in the event of a hose failure.

Outrigger Position Sensor

Each outrigger beam is supplied with a position sensor to monitor the extension of the outrigger beams.

Hoist Drum Rotation Indicator

All drums are equipped with an electric drum rotation indicator device that will vibrate the operator's joystick as the drum rotates.

Horn

The crane is supplied with a horn for the operator to warn personnel in the vicinity of the crane..

Drum Brake

All hoist drums are equipped with a spring applied hydraulic released brake. The brake will automatically apply when the control handle returns to neutral.

Function Cut-Out

If the arm rest is raised, all crane functions for operating the superstructure will be deactivated.

Lighting

Equipped with driving lights in front of machine, stop turn & tail lights in the rear of the machine, operator's cab interior light, and a spot light mounted on the front of the cab.

Rearview Mirror

Externally installed on the left of the operator's cab for monitoring the rear of the machine.

Swing Lock

Mechanical pin lock to lock the crane in front positions.

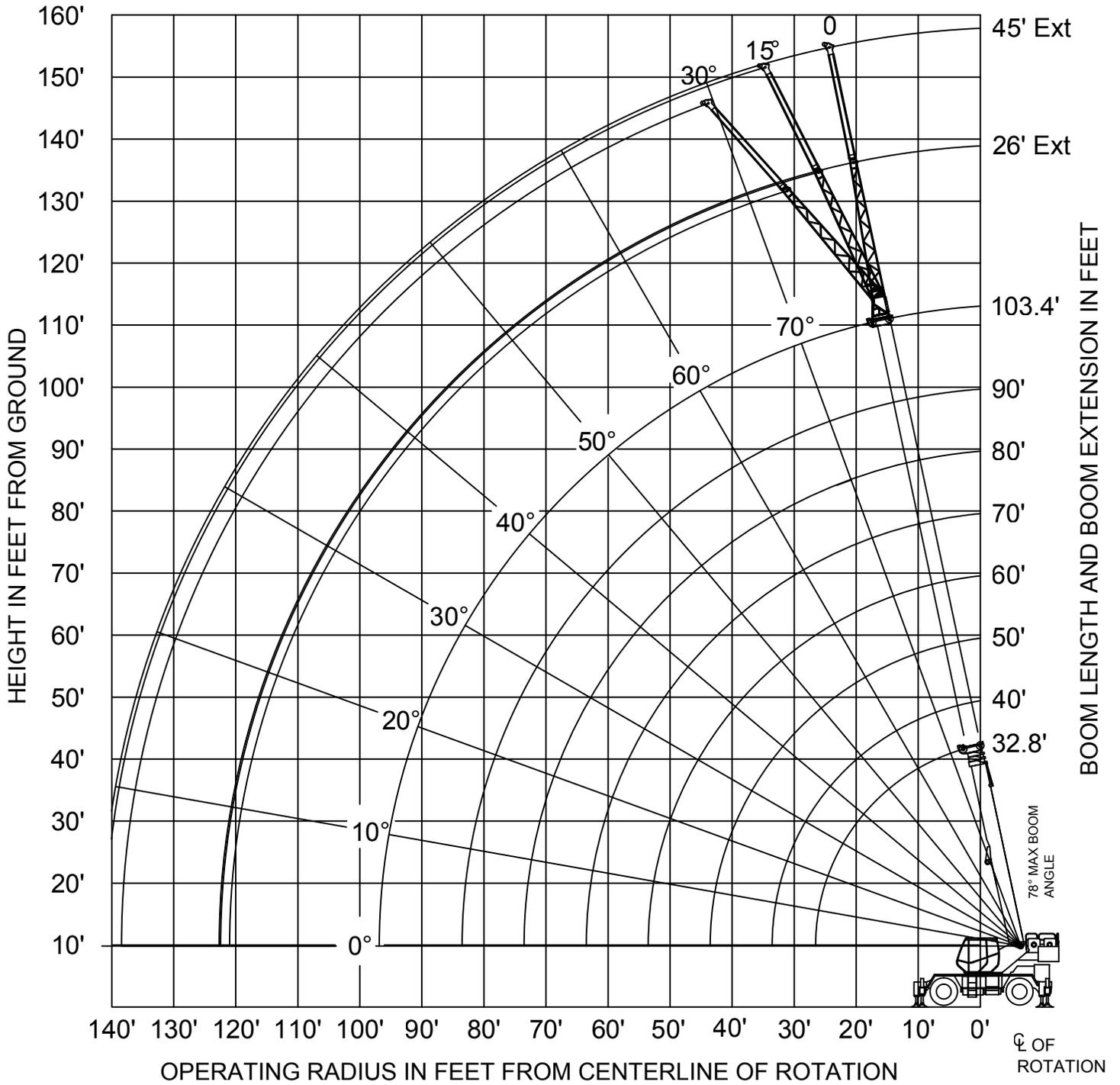
Seat Switch

The operator must be seated for all machine functions to work.

Third Wrap Indicator

A roller riding on the hoist wire rope will actuate a switch to warn the operator when 3 wraps are remaining. The system will sound a buzzer and an alarm indicator will be displayed on the instrument cluster and automatically stop the drum movement.

WORKING RANGE DIAGRAM
(BOOM DEFLECTION NOT SHOWN)
SANY SRC840



SRC840 MAIN BOOM - ON OUTRIGGERS - FULLY EXTENDED, 360°									
		 Main Boom	 Outriggers Fully Extended						 360°
RADIUS FT	Boom Length - Feet								
	32.8	40	50	60	70	80	90	103.4	
10	80000 (65)	50690 (70)	48720 (74.5)						
12	69680 (61)	50690 (67)	48720 (72.5)	46400 (75.5)					
15	55990 (54.5)	48390 (62)	44090 (68.5)	41880 (72.5)	40630 (75.5)				
20	40120 (41.5)	36740 (53)	35270 (62)	34830 (67.5)	32540 (71)	31180 (74)	22920 (76)		
25	30040 (21.5)	28130 (42.5)	26790 (55)	28760 (62)	27080 (66.5)	25820 (70.5)	20720 (73)	18950 (76)	
30		22310 (28.5)	20130 (47)	22940 (56)	22880 (62)	21830 (66.5)	18180 (69.5)	17410 (73)	
35			15670 (38)	18790 (50)	18950 (57)	18680 (62.5)	15650 (66)	15540 (70)	
40			12480 (25.5)	15170 (43)	15380 (52)	15530 (58.5)	13880 (62.5)	13660 (67)	
45				12230 (34.5)	12380 (46)	12490 (54.5)	12320 (58.5)	12160 (64)	
50				9870 (23)	10160 (39.5)	10250 (49.5)	10270 (54.5)	10270 (60.5)	
55					8320 (32)	8480 (44)	8500 (50.5)	8530 (57)	
60					6820 (23)	7050 (38)	7090 (45.5)	7140 (53.5)	
65						5820 (30.5)	5950 (41)	5990 (50)	
70						4800 (21)	4980 (35)	5020 (46)	
75							4100 (28.5)	4230 (41.5)	
80							3370 (19.5)	3520 (36.5)	
85								2860 (31.5)	
90								2310 (24.5)	
95								1800 (14.5)	
MIN BOOM ANGLE	0°	0°	0°	0°	0°	0°	0°	0°	
PARTS LINE	8	6	6	4	4	4	4	3	

Boom Angle	Main Boom Length - Feet							
	32.8	40	50	60	70	80	90	103.4
0°	25350 (26.5)	18730 (33.7)	12670 (43.7)	8520 (53.7)	5930 (63.7)	4180 (73.7)	2900 (83.7)	1660 (96.8)

Number in parentheses () is the Boom Angle in Degrees.
 * This rated load is with the boom at the maximum boom angle.

SRC840 MAIN BOOM - ON OUTRIGGERS - 50% EXTENDED, 360°								
 Main Boom			 Outriggers 50% Extended			 360°		
RADIUS FT	Boom Length - Feet							
	32.8	40	50	60	70	80	90	103.4
10	77160 (65)	50690 (70)	48720 (74.5)					
12	66240 (61)	50690 (67)	48720 (72.5)	46400 (75.5)				
15	48500 (54.5)	41880 (62)	40120 (68.5)	38580 (72.5)	40630 (75.5)			
20	29980 (41.5)	30090 (53)	30200 (62)	30640 (67.5)	31080 (71)	31180 (74)	22920 (76)	
25	19390 (21.5)	20310 (42.5)	21150 (55)	21720 (62)	22120 (66.5)	22440 (70.5)	19620 (73)	18950 (76)
30		14240 (28.5)	15000 (47)	15520 (56)	15880 (62)	16160 (66.5)	16090 (69.5)	15650 (73)
35			11050 (38)	11530 (50)	11870 (57)	12130 (62.5)	12330 (66)	12540 (70)
40			8300 (25.5)	8750 (43)	9080 (52)	9330 (58.5)	9520 (62.5)	9710 (67)
45				6710 (34.5)	7020 (46)	7260 (54.5)	7440 (58.5)	7630 (64)
50				5140 (23)	5440 (39.5)	5670 (49.5)	5840 (54.5)	6030 (60.5)
55					4190 (32)	4410 (44)	4580 (50.5)	4760 (57)
60					3170 (21.5)	3390 (38)	3560 (45.5)	3730 (53.5)
65						2550 (30.5)	2710 (41)	2880 (50)
70						1840 (21)	2000 (35)	2160 (46)
75							1390 (28.5)	1550 (41.5)
MIN BOOM ANGLE	0°	0°	0°	0°	0°	0°	22°	35°
PARTS LINE	8	6	6	4	4	4	4	3

Boom Angle	Main Boom Length - Feet					
	32.8	40	50	60	70	80
0°	17110 (26.5)	10650 (33.7)	6330 (43.7)	3760 (53.7)	2150 (63.7)	1330 (73.7)

SRC840 MAIN BOOM - ON OUTRIGGERS RETRACTED, 360°								
 Main Boom			 Outriggers Retracted			 360°		
RADIUS FT	Boom Length - Feet							
	32.8	40	50	60	70	80	90	103.4
10	52020 (65)	50040 (70)	48720 (74.5)					
12	34130 (61)	35320 (67)	36410 (72.5)	37150 (75.5)				
15	22670 (54.5)	23690 (62)	24620 (68.5)	25250 (72.5)	25700 (75.5)			
20	13080 (41.5)	13950 (53)	14740 (62)	15280 (67.5)	15660 (71)	15950 (74)	16180 (76)	
25	8040 (21.5)	8830 (42.5)	9550 (55)	10040 (62)	10390 (66.5)	10650 (70.5)	10850 (73)	11060 (76)
30		5670 (28.5)	6350 (47)	6810 (55)	7130 (62.5)	7380 (66.5)	7570 (69.5)	7760 (73)
35			4180 (38)	4620 (47)	4930 (57)	5160 (62.5)	5340 (66)	5530 (70)
40			2620 (25.5)	3030 (38)	3330 (52)	3560 (58.5)	3730 (62.5)	3910 (67)
45				1840 (25.5)	2130 (46)	2350 (54.5)	2510 (58.5)	2690 (64)
50					1180 (39.5)	1400 (50.5)	1560 (54.5)	1730 (60.5)
MIN BOOM ANGLE	0°	0°	0°	23°	36°	44°	49°	55°
PARTS LINE	6	6	6	4	4	4	4	3

Boom Angle	Main Boom Length - Feet		
	32.8	40	50
0°	6940 (26.5)	3970 (33.7)	1640 (43.7)

Number in parentheses () is the Boom Angle in Degrees.
 * This rated load is with the boom at the maximum boom angle.

SRC840 - LOAD STATIONARY, ON TIRES, 360°				
 Stationary On Tires  360°				
RADIUS FT	Boom Length - Feet			
	32.8	40	50	60
10	24040 (66)	24090 (71.5)	22990 (76)	
12	19630 (62)	20040 (68)	19630 (73.5)	
15	15240 (55.5)	15540 (63)	16090 (70)	13890 (74)
20	8730 (42.5)	9370 (54)	9850 (63.5)	9850 (68.5)
25	4820 (23)	5560 (44.5)	6240 (56.5)	6500 (63.5)
30		3090 (30.5)	3730 (48.5)	4160 (57.5)
35			2010 (39.5)	2420 (51)
40				1160 (44)
MIN BOOM ANGLE	0°	0°	0°	31°
PARTS LINE	4	4	4	4

- NOTES TO ALL ON TIRE CAPACITY CHARTS:
- Capacities are in pounds and do not exceed 75% of tipping loads as tested in accordance with SAE J765.
 - Capacities are applicable to machines equipped with 20R25 - ** Bridgestone radial tires at 75 psi cold inflation pressure.
 - Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
 - Capacities are applicable only with machine on firm level surface.
 - On tire lifting with the boom extensions is not permitted.
 - For pick and carry operation, boom must be centered over the front of the machine with the swing lock engaged and the load restrained from swinging.
 - Axle lockouts must be functioning when lifting on tires.
 - All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity information for tire used. Damaged tires are hazardous to safe operation of crane.

Boom Angle	Main Boom Length - Feet	
	32.8	40
0°	4090 (26.5)	1850 (33.7)

SRC840 - LOAD STATIONARY, OVER FRONT TIRES, 360°				
 Stationary On Tires  Over Front Tires				
RADIUS FT	Boom Length - Feet			
	32.8	40	50	60
10	31010 (66)	31600 (71.5)	32130 (76)	
12	26620 (62)	27150 (68)	27670 (73.5)	
15	21590 (55.5)	22110 (63)	22630 (70)	22970 (74)
20	15860 (42.5)	16370 (54)	16880 (63.5)	17210 (68.5)
25	12030 (23)	12520 (44.5)	13020 (56.5)	13350 (63.5)
30		8970 (30.5)	9530 (48.5)	9910 (57.5)
35			7030 (39.5)	7380 (51)
40			5260 (26.5)	5590 (44)
45				4260 (36)
50				3240 (24.5)
MIN BOOM ANGLE	0°	0°	0°	0°
PARTS LINE	4	4	4	4

Boom Angle	Main Boom Length - Feet			
	32.8	40	50	60
0°	10990 (26.5)	7190 (33.7)	4320 (43.7)	2260 (53.7)

SRC840 - LOAD PICK & CARRY ON TIRES				
 Pick & Carry On Tires  Over Front Tires				
RADIUS FT	Boom Length - Feet			
	32.8	40	50	60
10	27140 (66)	26890 (71.5)		
12	23340 (62)	23240 (68)		
15	18940 (55.5)	19090 (63)	19390 (70)	
20	13690 (42.5)	14190 (54)	14490 (63.5)	14540 (68.5)
25	10090 (23)	10740 (44.5)	11140 (56.5)	11190 (63.5)
30		7950 (30.5)	8610 (48.5)	8780 (57.5)
35			5920 (39.5)	6350 (51)
40			4020 (26.5)	4430 (44)
45				3000 (36)
50				1890 (24.5)
MIN BOOM ANGLE	0°	0°	0°	0°
PARTS LINE	4	4	4	4

Boom Angle	Main Boom Length - Feet			
	32.8	40	50	60
0°	9710 (26.5)	6960 (33.7)	4120 (43.7)	2160 (53.7)

Number in parentheses () is the Boom Angle in Degrees.
 * This rated load is with the boom at the maximum boom angle.

SRC840 - BOOM EXTENSION, 360°												
 Boom Extension  360°												
BOOM ANGLE	26 ft						45 ft					
	OFFSET ANGLE						OFFSET ANGLE					
	0°		15°		30°		0°		15°		30°	
	lbs	Deg	lbs	Deg	lbs	Deg	lbs	Deg	lbs	Deg	lbs	Deg
25	7450	77.5										
30	6870	75.5	4760*	78			5240*	78				
35	6230	73.5	4430	75.5	3610	78	4370	75.5				
40	5580	70.5	4170	73	3420	75.5	3960	73.5	2790*	78		
45	5170	68.5	3940	71	3300	73	3640	72	2560	76		
50	4650	66.5	3640	68.5	2990	70.5	3380	70	2440	73.5	1980*	78
55	4140	64	3390	66	2760	68.5	3200	68.5	2330	71.5	1880	75.5
60	3310	61.5	2950	63	2470	65.5	2910	66	2250	69.5	1770	73.5
65	2520	58.5	2550	61	2170	63	2620	64	2150	67.5	1640	71
70	1510	56	2110	58.5	1790	60.5	2390	62	2040	65.5	1550	69
75			1210	56	1290	57.5	1710	59	1870	63.5	1470	66.5
80					830	54.5	1200	57	1670	62	1370	64.5
85							890	55	1360	58.5	1250	62
90											1140	59.5
95											1050	57
MIN BOOM ANGLE	32°		34°		35°		34°		37°		39°	

* This rated load is with the boom at the maximum boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- Capacities above the bold line are based on the structural strength of the boom extension.
- The capacities listed are with the outriggers fully extended and vertical jacks properly set only.
- The boom extension may only be used for single line lifting service.
- Use only the load which corresponds to the boom extension length and offset angle as the machine is configured.
- For main boom lengths less than fully extended with the boom extension erected, the boom extension rated loads are determined by the boom angle not the radius.
- For boom angles not shown, use the rating of the next lower boom angle.
- The boom angle is defined as the angle above or below the horizontal line of the longitudinal axis of the boom base section after lifting the rated load.
- When lifting over the main boom nose with the boom extension erected, the outriggers must be fully extended and the proper load reduction must be used.
- Do not lower the boom below the Minimum Boom Angle with the extension erected. Fully retract the boom to lower the boom below the Minimum Boom Angle.



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Please visit www.sanyamerica.com to find out more.

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*We are constantly improving our products and therefore reserve the right to change designs and specifications.

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