

SC SERIES

TRUCK MOUNTED AERIAL WORK PLATFORMS



Product Guide



SKY CRANE SERIES

HIGHLIGHTS

- Working heights to 97'
- Dual purpose machine; aerial platform and crane
- Multiple tool and lamp box options
- Extra long lamp box option in sub-frame
- Easy ground level entry to aerial platform
- Aerial remote controls
- Ground hydraulic controls
- Remote engine start / stop
- Auxiliary power unit
- Hydraulic and gravity leveled platforms
- Platform mounted jib with hydraulic winch
- 360° work area
- Continuous rotation
- Crane tip heights: 57', 60', 70', 85' and 92'
- Nylatron pad equipped booms
- Up to 6,000 lbs lift capacity
- Up to 24,000 lbs lift capacity for SC 85
- Detachable load line
- Radio anti-two block system
- Rugged, weatherproof, automotive style electrical system
- ORS face seal hydraulic fittings and adapters
- Unparalleled machine stability
- Heavy duty sub-frame
- Clamp-on mounting
- Design meets ANSI A92.2 and ANSI B30.5 recommendations



General Specifications

BOOM

Boom Sections – 4-plate design, telescopic booms equipped with teflon-plugged nylatron wear pads for smooth operation. Nylatron wear pads easily accessible for lubrication, inspection and replacement.

3-section booms extend and retract by internal telescoping hydraulic cylinder.

4-section boom telescope system consists of a telescoping cylinder and wire rope crowds.

Boom Point – Boom tip designed to easily accept Tadano Skycrane platforms. Detachable boom point sheave bracket (except SC 85) allows for easy removal and stowage of load line for aerial platform operation.

SC 85 only, “Quick Reeve” boom point design, accepts Tadano Skycrane platforms; facilitates parts of line configuration changes.

Boom Elevation – Double acting hydraulic cylinder; working range from 15° below horizontal to 85° above. Counterbalance valves hold cylinder and boom in position.

HOIST

Winch – Single or two speed planetary winch; wet multi-disc internal brake, spring applied, hydraulically released.

	SC62, SC65		
	SC75	SC85	SC97
Max. line pull	5,376 lbs	7,789 lbs	5,750 lbs
Max. line speed	78*	106*	333*
Rope capacity	138 ft	219 ft	243 ft

*ft/min

Wire Rope – 3/8” or 1/2” diameter 6 x 25 IWRC wire rope.

Anti-two Block – Wireless radio anti-two block system includes switch and receiver. Conforms to ANSI B30.5.

SWING SYSTEM

Swing Drive – Externally mounted single reduction worm gear swing drive; directly driven by a high-torque, low-speed hydraulic motor for smooth, controlled, operation.

Swing speed is directly proportional by position of control lever.

Rotation – All SC series machines are equipped with hydraulic and electric swivels that allow continuous rotation in either direction.

OUTRIGGERS

Front and Rear Outriggers

Fully hydraulic outriggers extend to maximum overall spread for un-paralleled machine stability. All cylinders equipped with check or counterbalance valves to ensure outriggers remain in position at all times. Jack cylinders operate independently for precise leveling; bubble level located near outrigger controls.

	SC75, SC85	
	SC62, SC65	SC97
Front spread	10' opt	19' 9.75"
Rear spread	18'6"	18'6"

MOUNTING

In true Tadano tradition, these machines are clamp mounted and require no drilling or welding to the truck chassis. This system allows for greater flexibility when positioning the machine on the chassis thus allowing the installer the ability to maximize available axle capacity.

Subframe – All SC series machines are equipped with a torsionally resistant, 4-plate, fabricated subframe that extends over the entire length of the truck chassis. The SC75, SC85 and SC97 sub-frame is fabricated with an integral outrigger base; this outrigger design further enhances the superior stability of the Tadano Skycrane.

Pedestal – Clamp mounted to the sub-frame and truck chassis with threaded rods and chassis clamp brackets.

Boom Rest – Heavy-duty fabricated boom rest secures boom in place when traveling.

BASKETS AND WORK PLATFORMS

Basket (standard) – One-man aluminum, gravity leveled basket. Equipped with safety lanyard anchor points; full body harness and lanyard for included. Basket is secured and cushioned by manual friction brakes and shock absorbers. Basket capacity is 300 lbs.

CONTROL SYSTEM

Outriggers – Valve mounted at the rear of the truck allows visibility to all outriggers for easy set-up.

Base Station – Mounted on the curbside of the turret, a four spool proportional control hydraulic valve operates the basic crane functions; elevation, rotation, telescope and loadline hoist. Controls for engine ignition start, throttle advance and emergency stop are also provided. Controls for the self leveling platform and hydraulic jib winch added when appropriate.

Aerial Platform – Platforms are equipped with a wired remote control system. The control box is fitted with electric joysticks to operate boom elevation, telescope, and rotation; basket control and Jib winch control. Switches for engine start/stop, emergency stop button, throttle advance, auxiliary pump is standard, optional generator start switch is also included when appropriate.

HYDRAULIC SYSTEMS

64 gallon tank fitted with 10 micron high pressure and return filters, gear pump variable to 20 GPM, 3000 maximum operating pressure at high engine speed.

GENERAL

Electrical – Connectorized automotive style electrical system is state-of-the-art, fitted with rugged, weather proof components throughout.

Design/Welding – Welding conforms to AWS D1.1. Design conforms to ANSI B30.5 (mobile cranes) and ANSI 92.2 (aerial devices).

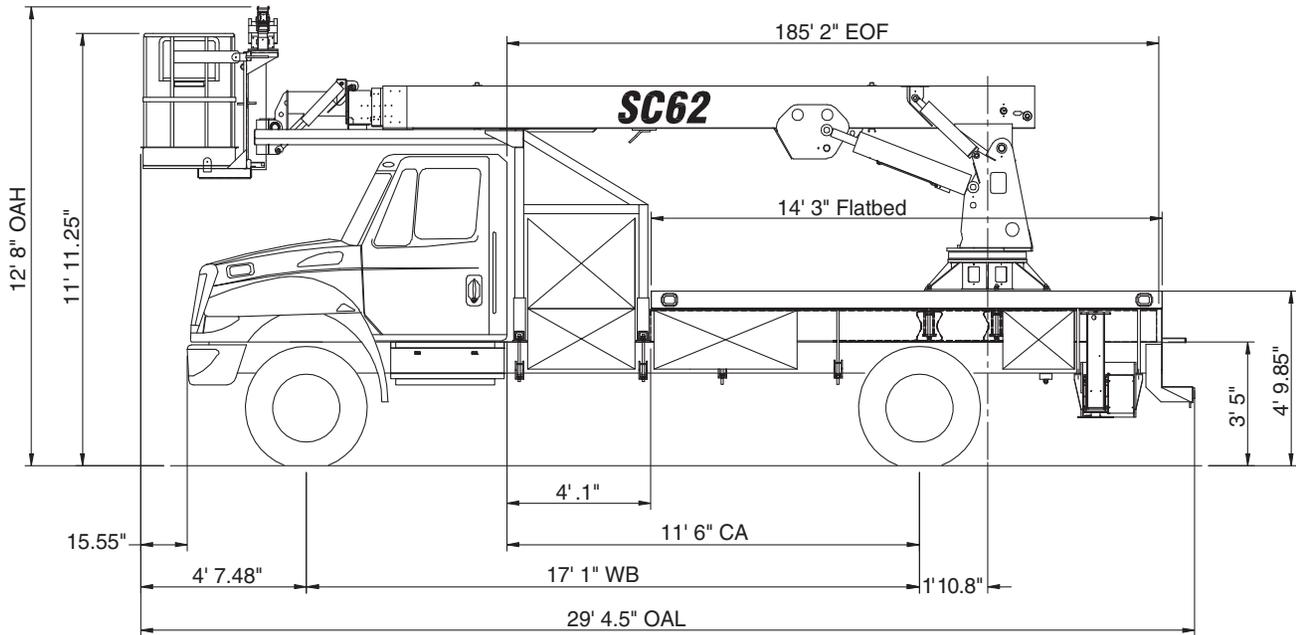
Paint – Standard Tadano blue and gray.

Manuals – Operator and parts manuals depict correct machine operation, maintenance procedures and parts listings.

Warranty – 12 month warranty covers parts and labor resulting from defects in material and workmanship.

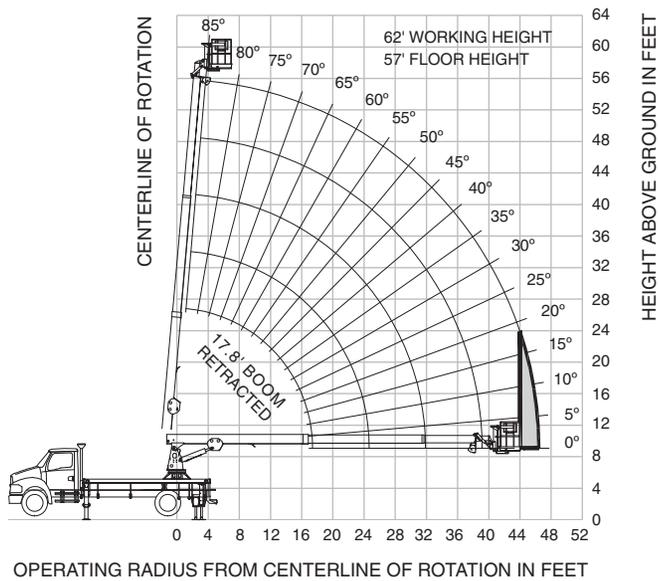
SC62

Dimensions

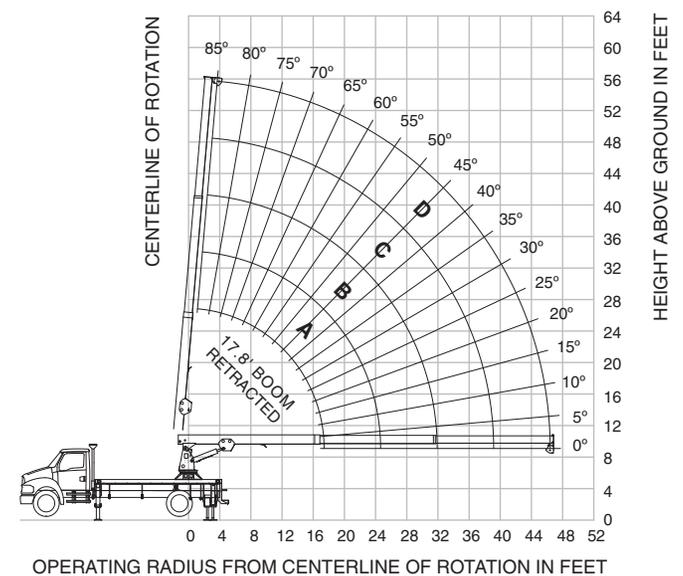


Boom Diagram

Work Platform



Crane Working Range



The gray area represents a "no work" zone, do not place the basket in this area.

Meets ANSI B30.5 and A92.2 requirements – Do not operate crane or accessories within 10' (3.05 m) of live power lines.

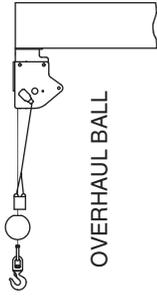
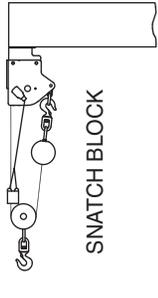
NOTICE: This chart is for reference only and must not be used for lift planning. Consult factory for other boom options.

SC62

Deductions

Overhaul weight	40 lbs
Snatch block	40 lbs
2-manbasket SLR platform	700 lbs

Weights

1 Part Line	2 Part Line	WARNING
 <p>OVERHAUL BALL</p>	 <p>SNATCH BLOCK</p>	<p>Anti-two-block system, if supplied, must be in good operating condition before operating crane.</p> <p>Refer to the owner's manual.</p> <p>Keep at least three wraps of load line on the drum at all times.</p>
3,500 lbs	6,000 lbs	<p>3/8" 6 x 25 IWRC (3.5:1 SF)</p> <p>13,120 lbs min. breaking strength</p>

Main Boom Load Ratings

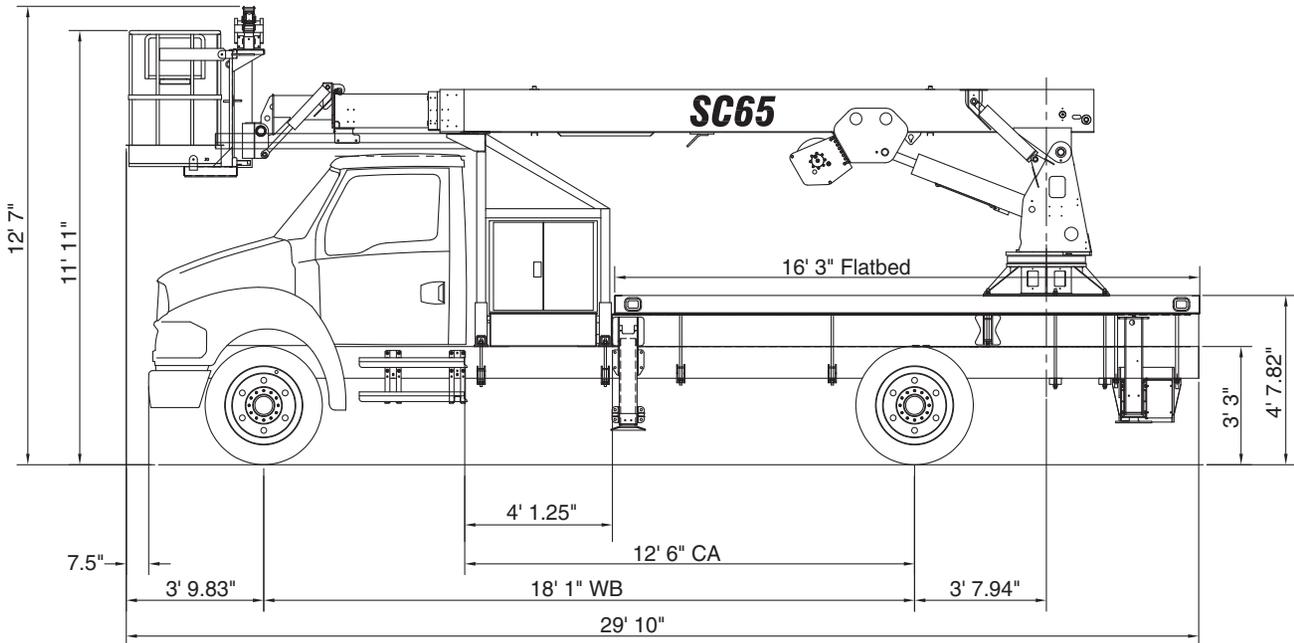
Outriggers Fully Extended (100 %)

	17.8 ft		25.1 ft (A)		32.3 ft (B)		39.6 ft (C)		46.8 ft (D)	
		Full 360°		Full 360°		Full 360°		Full 360°		Full 360°
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs
8	63	6,000	71	6,000	76	5,400	-	-	-	-
10	55	6,000	66	5,150	72	4,510	76	4,220	-	-
12	47	5,710	61	4,540	68	3,900	73	3,620	76	3,420
14	37	5,260	56	4,100	64	3,460	70	3,180	74	2,990
16	24	4,920	50	3,770	60	3,120	67	2,850	71	2,650
18	-	-	44	3,510	56	2,860	64	2,590	69	2,390
20	-	-	37	3,290	52	2,650	60	2,380	66	2,180
24	-	-	14	2,940	42	2,330	53	2,060	60	1,860
28	-	-	-	-	29	2,090	45	1,830	54	1,640
32	-	-	-	-	-	-	36	1,650	48	1,460
36	-	-	-	-	-	-	24	1,510	41	1,320
40	-	-	-	-	-	-	-	-	32	1,210
44	-	-	-	-	-	-	-	-	20	1,110

Load chart for crane applications only!

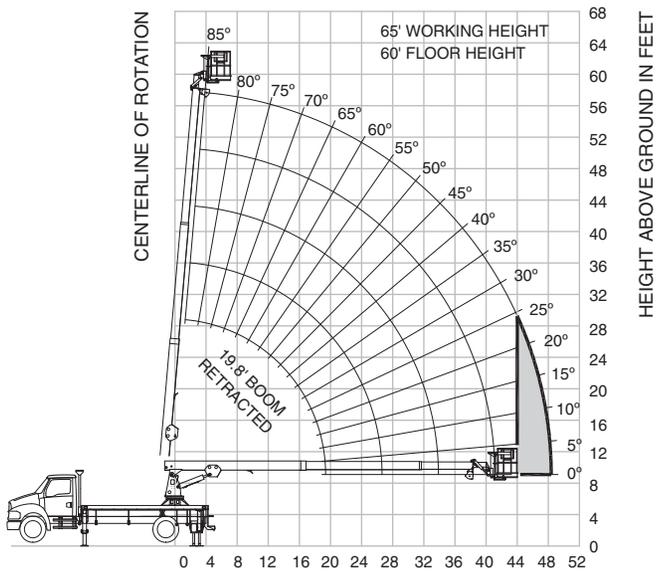
SC65

Dimensions



Boom Diagram

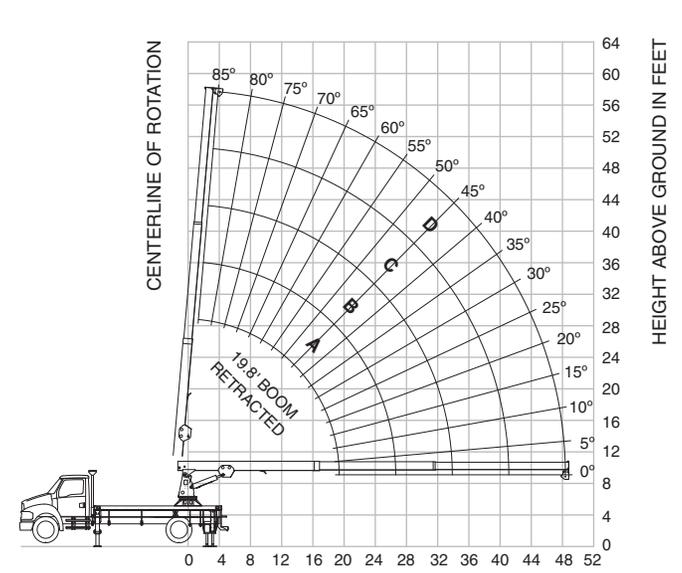
Work Platform



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET
The gray area represents a "no work" zone, do not place the basket in this area.

Meets ANSI B30.5 and A92.2 requirements – Do not operate crane or accessories within 10' (3.05 m) of live power lines.
NOTICE: This chart is for reference only and must not be used for lift planning. Consult factory for other boom options.

Crane Working Range



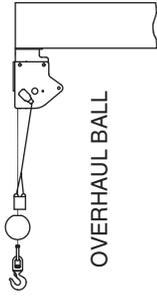
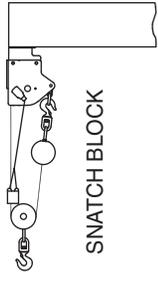
OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

SC65

Deductions

Overhaul weight	40 lbs
Snatch block	40 lbs
2-manbasket SLR platform	700 lbs

Weights

1 Part Line	2 Part Line	WARNING
 <p>OVERHAUL BALL</p>	 <p>SNATCH BLOCK</p>	<p>Anti-two-block system, if supplied, must be in good operating condition before operating crane.</p> <p>Refer to the owner's manual.</p> <p>Keep at least three wraps of load line on the drum at all times.</p>
3,500 lbs	6,000 lbs	

Main Boom Load Ratings

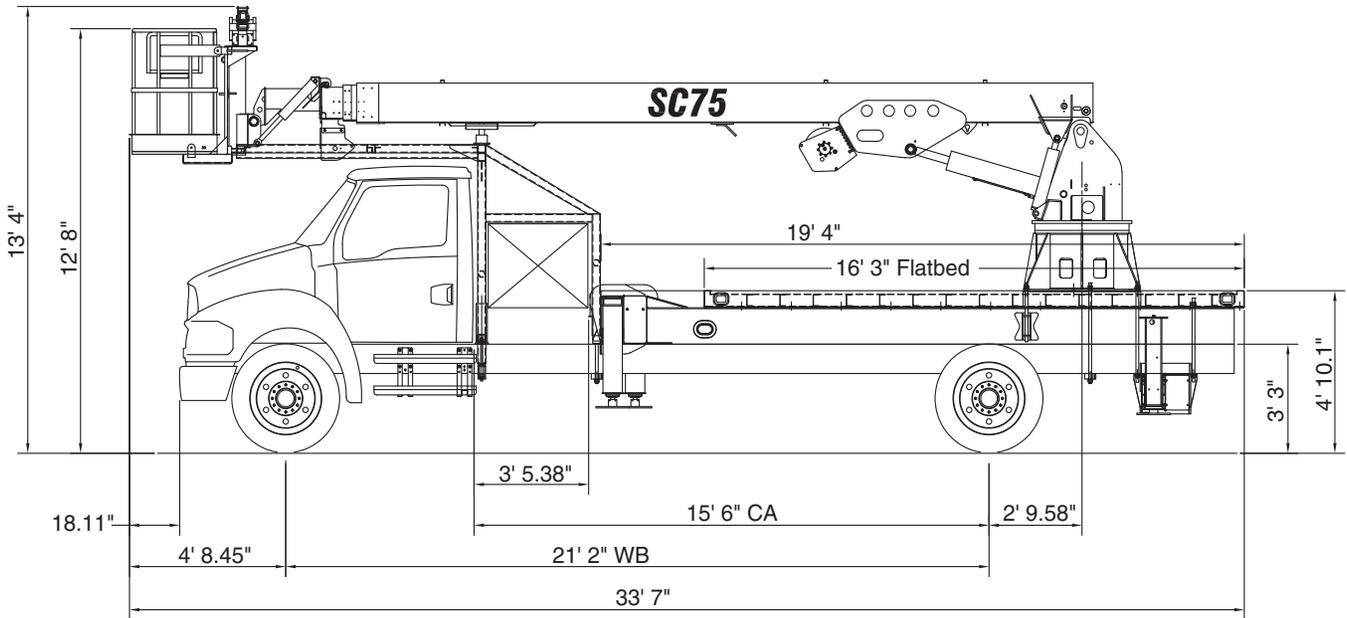
Outriggers Fully Extended (100 %)

ft	19.8 ft		27.0 ft (A)		34.3 ft (B)		41.5 ft (C)		48.8 ft (D)	
	ft	lbs	ft	lbs	ft	lbs	ft	lbs	ft	lbs
8	66	6,000	73	5,910	77	5,320	-	-	-	-
10	59	6,000	68	5,020	73	4,430	77	4,170	-	-
12	52	5,420	64	4,410	70	3,820	74	3,560	77	3,380
14	44	4,980	59	3,970	66	3,380	71	3,130	75	2,940
16	35	4,640	54	3,640	62	3,050	68	2,790	72	2,610
18	23	4,360	48	3,370	58	2,790	65	2,530	70	2,350
20	-	-	42	3,160	54	2,580	62	2,320	67	2,140
24	-	-	26	2,830	45	2,250	55	2,000	62	1,820
28	-	-	-	-	35	2,020	48	1,770	56	1,590
32	-	-	-	-	20	1,830	40	1,600	50	1,420
36	-	-	-	-	-	-	30	1,460	43	1,280
40	-	-	-	-	-	-	15	1,330	36	1,170
44	-	-	-	-	-	-	-	-	26	1,080
48	-	-	-	-	-	-	-	-	9	970

Load chart for crane applications only!

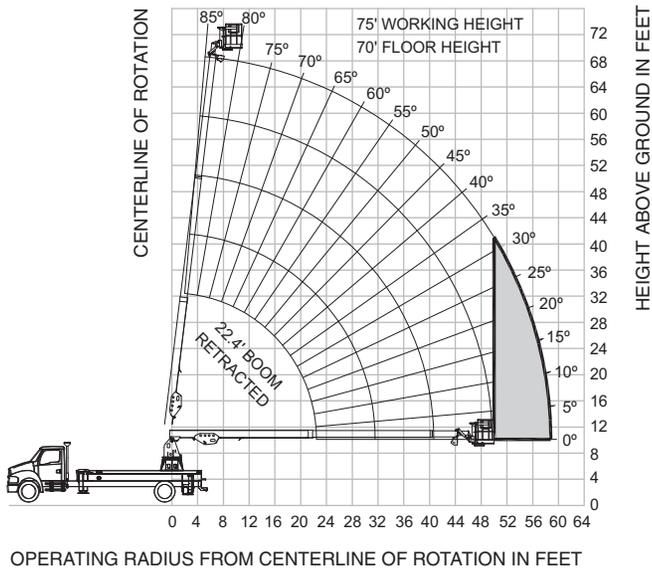
SC75

Dimensions

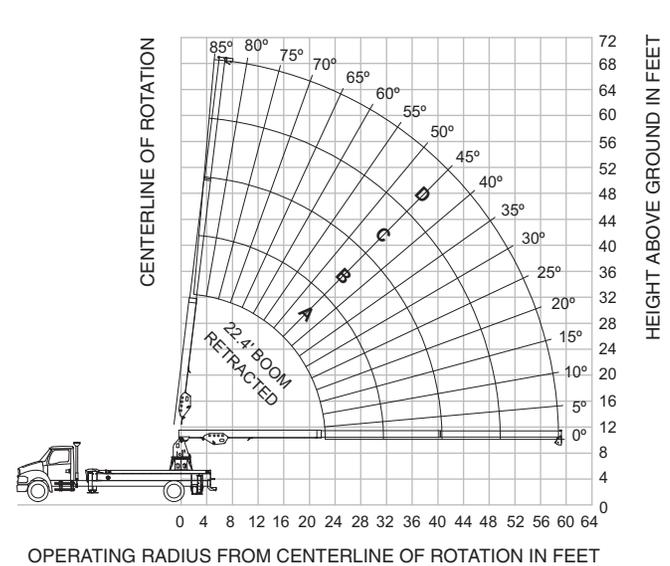


Boom Diagram

Work Platform



Crane Working Range



The gray area represents a "no work" zone, do not place the basket in this area.

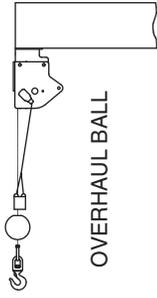
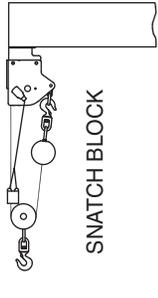
Meets ANSI B30.5 and A92.2 requirements – Do not operate crane or accessories within 10' (3.05 m) of live power lines.
 NOTICE: This chart is for reference only and must not be used for lift planning. Consult factory for other boom options.

SC75

Deductions

Overhaul weight	40 lbs
Snatch block	40 lbs
2-manbasket SLR platform	700 lbs

Weights

1 Part Line	2 Part Line	WARNING
 <p style="text-align: center;">OVERHAUL BALL</p>	 <p style="text-align: center;">SNATCH BLOCK</p>	<p>Anti-two-block system, if supplied, must be in good operating condition before operating crane.</p> <p>Refer to the owner's manual.</p> <p>Keep at least three wraps of load line on the drum at all times.</p>
3,500 lbs	6,000 lbs	

Main Boom Load Ratings

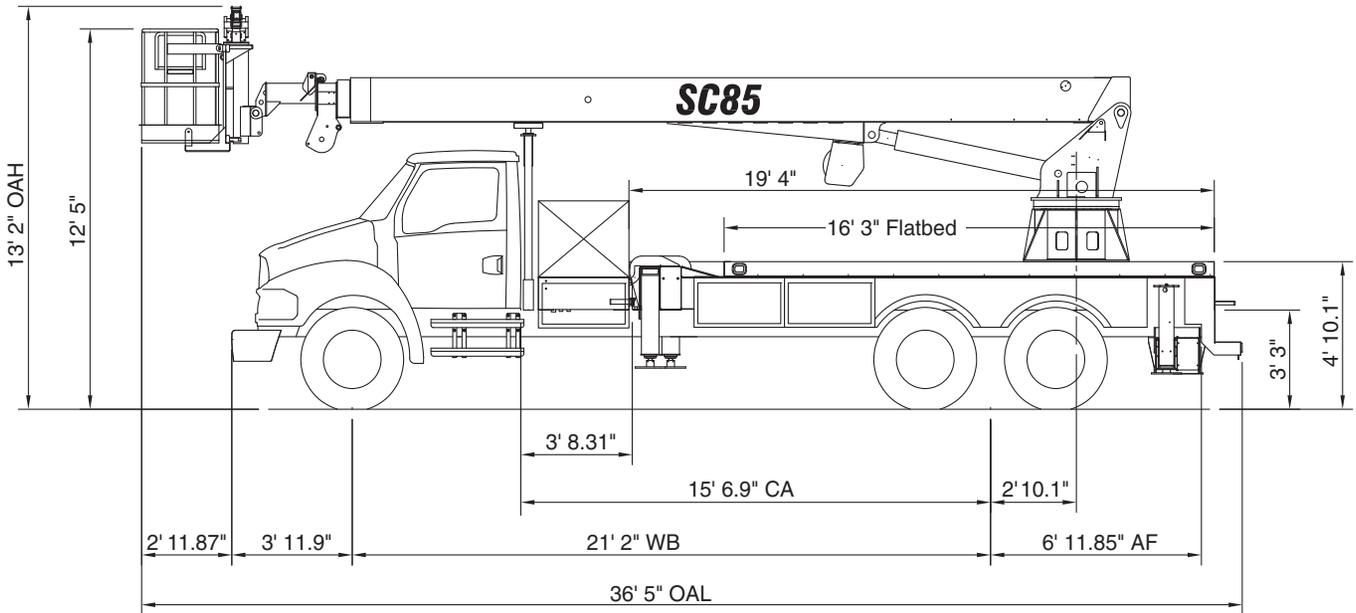
Outriggers Fully Extended (100 %)

		22.4 ft		31.5 ft (A)		40.6 ft (B)		49.7 ft (C)		58.8 ft (D)	
		Full 360°		Full 360°		Full 360°		Full 360°		Full 360°	
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	
8	71	5,450	77	4,970	80	4,500	-	-	-	-	
10	65	5,360	73	4,850	77	4,350	80	3,750	-	-	
12	60	5,300	69	4,750	74	4,200	78	3,600	80	3,000	
14	53	5,190	65	4,620	71	4,050	75	3,490	78	2,930	
16	46	5,080	61	4,490	68	3,900	73	3,380	76	2,870	
18	39	4,980	57	4,360	65	3,750	70	3,280	74	2,810	
20	29	4,780	52	4,180	62	3,580	68	3,160	72	2,750	
24	-	-	42	3,780	55	3,210	63	2,910	68	2,620	
28	-	-	29	3,380	48	2,840	57	2,670	64	2,500	
32	-	-	-	-	39	2,360	52	2,350	59	2,350	
36	-	-	-	-	29	1,980	45	2,020	54	2,070	
40	-	-	-	-	11	1,620	38	1,710	49	1,800	
44	-	-	-	-	-	-	29	1,480	44	1,580	
48	-	-	-	-	-	-	17	1,250	37	1,290	
52	-	-	-	-	-	-	-	-	30	1,000	
56	-	-	-	-	-	-	-	-	20	800	

Load chart for crane applications only!

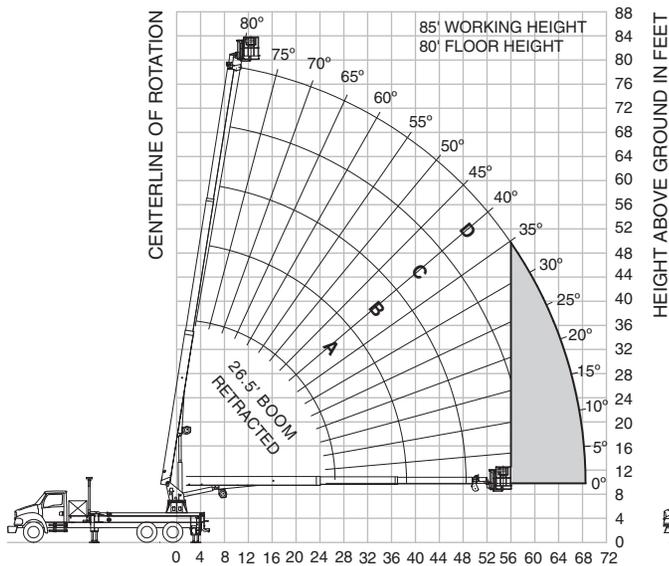
SC85

Dimensions

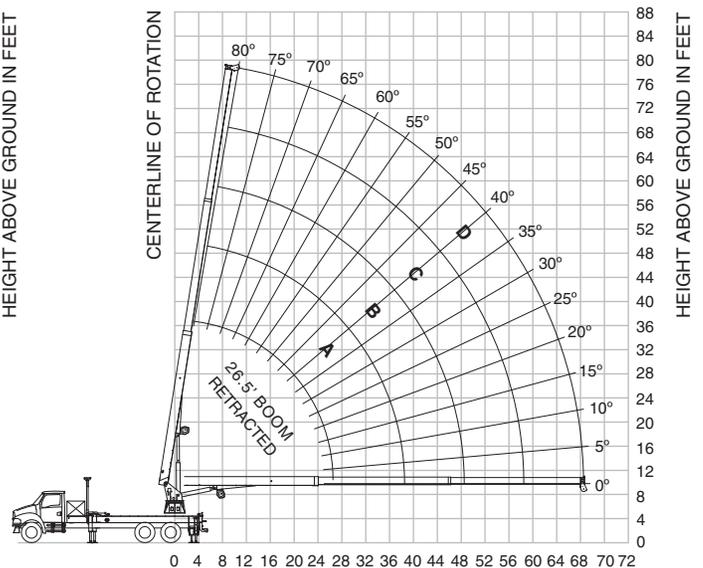


Boom Diagram

Work Platform



Crane Working Range



The gray area represents a "no work" zone, do not place the basket in this area.

Meets ANSI B30.5 and A92.2 requirements – Do not operate crane or accessories within 10' (3.05 m) of live power lines.

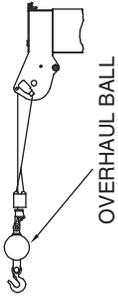
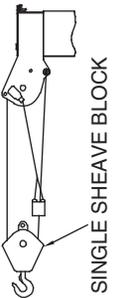
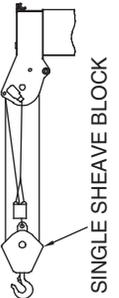
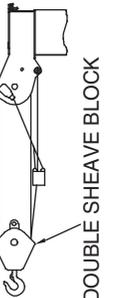
NOTICE: This chart is for reference only and must not be used for lift planning. Consult factory for other boom options.

SC85

Deductions

Overhaul weight	see manufacturer nameplate
Snatch block	see manufacturer nameplate
2-manbasket SLR platform	700 lbs

Weights

1 Part Line	2 Part Line	3 Part Line	4 Part Line	WARNING
				<p>Anti-two-block system, if supplied, must be in good operating condition before operating crane.</p> <p>Refer to the owner's manual.</p> <p>Keep at least three wraps of load line on the drum at all times.</p>
5,840 lbs	11,680 lbs	17,520 lbs	23,360 lbs	1/2" ROT RESISTANT (5:1 SF) 29,200 lbs min. breaking strength
6,000 lbs	12,000 lbs	18,000 lbs	24,000 lbs	1/2" 6 x 25 IWRC (3.5:1 SF) 23,000 lbs min. breaking strength

Main Boom Load Ratings

Outriggers Fully Extended (100 %)

	26.5 ft		40.0 ft (A)		50.0 ft (B)		60.0 ft (C)		70.0 ft (D)	
										
	Full 360°									
ft	°	lbs								
5	78	24,000	-	-	-	-	-	-	-	-
8	71	17,030	78	15,840	-	-	-	-	-	-
10	67	14,380	75	13,230	78	12,740	-	-	-	-
12	62	12,480	72	11,370	76	10,900	79	10,570	-	-
14	57	11,040	69	9,990	73	9,520	77	9,200	79	8,960
16	51	9,880	66	8,910	71	8,460	75	8,140	78	7,900
18	45	8,910	63	8,040	69	7,600	73	7,290	76	7,060
20	38	8,040	59	7,320	66	6,900	71	6,600	74	6,370
24	18	6,180	52	6,180	61	5,810	67	5,530	71	5,310
28	-	-	44	5,300	55	5,000	62	4,730	67	4,520
32	-	-	35	4,540	49	4,350	58	4,120	64	3,920
36	-	-	22	3,730	43	3,800	53	3,620	60	3,440
40	-	-	-	-	35	3,320	48	3,200	56	3,040
44	-	-	-	-	26	2,820	43	2,830	52	2,700
48	-	-	-	-	10	2,060	36	2,490	47	2,400
52	-	-	-	-	-	-	29	2,150	42	2,140
56	-	-	-	-	-	-	19	1,730	37	1,890
60	-	-	-	-	-	-	-	-	31	1,640
64	-	-	-	-	-	-	-	-	23	1,360
68	-	-	-	-	-	-	-	-	9	900

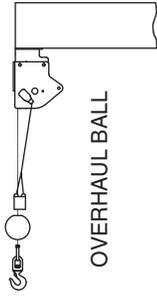
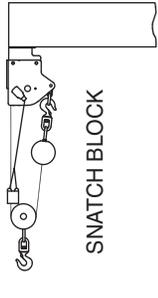
Load chart for crane applications only!

SC97

Deductions

Overhaul weight	80 lbs
Snatch block	40 lbs
2-manbasket SLR platform	700 lbs

Weights

1 Part Line	2 Part Line	WARNING
		<p>Anti-two-block system, if supplied, must be in good operating condition before operating crane.</p> <p>Refer to the owner's manual.</p> <p>Keep at least three wraps of load line on the drum at all times.</p>
4,000 lbs	6,000 lbs	
		<p>1/2" 6 x 25 IWRC (3.5:1 SF)</p> <p>14,000 lbs min. breaking strength</p>

Main Boom Load Ratings

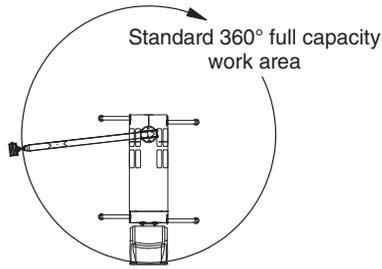
Outriggers Fully Extended (100 %)

		24.1 ft		39.0 ft (A)		53.0 ft (B)		67.0 ft (C)		81.1 ft (D)	
		Full 360°		Full 360°		Full 360°		Full 360°		Full 360°	
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	
8	73	6,000	80	6,000	83	5,500	-	-	-	-	
10	68	6,000	77	6,000	81	5,270	83	4,000	-	-	
12	63	6,000	74	5,520	78	5,050	81	4,000	84	3,200	
14	57	5,690	71	5,250	76	4,820	80	3,960	82	3,100	
16	51	5,380	68	4,990	74	4,600	78	3,800	81	3,010	
18	44	5,070	64	4,720	72	4,370	76	3,640	79	2,910	
20	37	4,760	61	4,450	69	4,150	74	3,480	77	2,820	
24	9	4,150	54	3,920	64	3,700	71	3,160	75	2,630	
28	-	-	46	3,230	60	3,250	67	2,840	72	2,440	
32	-	-	37	2,800	54	2,800	63	2,520	69	2,250	
36	-	-	24	2,200	49	2,350	59	2,200	66	2,060	
40	-	-	-	-	42	1,900	55	1,880	63	1,870	
44	-	-	-	-	35	1,500	51	1,590	59	1,680	
48	-	-	-	-	27	1,160	46	1,250	56	1,350	
52	-	-	-	-	13	870	41	970	52	1,070	
56	-	-	-	-	-	-	35	750	48	820	
60	-	-	-	-	-	-	28	530	44	600	

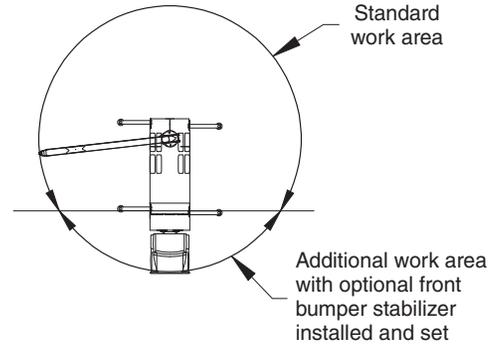
Load chart for crane applications only!

Area of Operation

Models:
SC62, SC65, SC75, SC97



Model:
SC85



CHASSIS DATA	SC62	SC65	SC75	SC85	SC97
Chassis RBM (per rail)	1,600,000 in-lbs				
Front axle gross weight rating	12,000 lbs	12,000 lbs	12,000 lbs	16,000 lbs	16,000 lbs
Rear axle gross weight rating	21,000 lbs	21,000 lbs	21,000 lbs	34,000 lbs	34,000 lbs
Minimum truck axle weight – Front*	6,500 lbs	6,500 lbs	6,650 lbs	7,000 lbs	7,000 lbs
Minimum truck axle weight – Rear*	4,100 lbs	4,100 lbs	4,100 lbs	6,500 lbs	6,500 lbs
Cab-to-axle distance (typ)	138"	150"	187"	187"	187"
Cab-to-end-of-frame distance (typ)	245"	245"	276"	276"	276"
Wheelbase (typ)	205"	217"	254"	254"	254"

* Minimum chassis weight is required to meet 85% stability requirements.

Chassis data is general – not for engineering. Some dimensions change depending on truck selection and machine options ordered.

OPTIONAL EQUIPMENT

Work Platform – Gravity Leveled

30" x 46" work platform with 42" high rails and safety lanyard anchor points. Each platform is equipped with a full body harness and lanyard. Basket is secured and cushioned by manual friction brakes and shock absorbers. Platform capacity is 300 lbs.

SLR Work Platform – Self Leveling

30" x 54" work platform with 42" high rails and safety lanyard anchor points. Each platform is equipped with a full body harness and lanyard. The self leveling system consists of one master cylinder mounted to the boom base that interfaces with the two slave cylinders at the platform mounting bracket that together form a hydraulic close-loop system. Platform capacity is 600 lbs.

Jib with hydraulic winch in basket

Winch capacity is 400 lbs.

Low oil level shutdown

Two part snatch block

Welder/Generator (200 amps, 5 kW)

Portable remote control module

Special paint colors (customer specified)

OPTIONAL EQUIPMENT

Special Body Rigging

- Front bulkhead at boom rest
- Over cab walkway / bulkhead
- Built in long lamp tray (in sub-frame)
- Wood or steel beds; 18', 20'
- Full body skirting; steel or aluminum
- Rear step and bumper; steel or aluminum

Lamp / Tool Boxes

- Steel or Aluminum – Tool
1-1/2'; 2'; 3'; 4'; 5'
- Steel or Aluminum – Lamp
30" H x 36" W x 100" L
20" H x 20" W x 120" L

Remote Services in Basket and /or Truck Body

- 110 VAC with GFI
- Weld leads
- Compressed air (from chassis)
- Water
- Pressure washer
- Hydraulic tool circuit (6 GPM at basket)
- Oxygen / Acetylene service

UPTime is the Tadano commitment to complete support of thousands of units working every day.

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Tadano Ltd.

Kanda Square 18th Floor, 2-2-1 Kanda-Nishikicho, Chiyoda-ku, Tokyo 101-0054, Japan
Phone: +81-3-6811-7309 (International Division)

Manitex Inc.

3000 South Austin Avenue, Georgetown, TX 78626, USA
Phone: +1 (512) 942-3000



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