

# SCD150

CARRY  
DECK



15 USt (13.6 Mt)



54 ft (16.5 m)



70 ft (21.4 m)

**SANY**



PRELIMINARY

WHY SANY CARRY DECKS?

# STRENGTH. RELIABILITY. PERFORMANCE.

SANY's carry decks have outstanding capacity to perform on a jobsite no matter the challenge or time of day. Operators appreciate the level of simplicity, comfort, high visibility and control at their fingertips. Technicians like the on-board diagnostics system which allows them to address an issue at the source right away so they can have the machine back up and working faster. Less downtime means more work gets done. Like all SANY cranes, they come loaded with all the standard features you need and are backed by the industry's strongest standard warranty. That's 2 years or 2,000 hours of proven reliability.



\*Warranty applies to 2026 Carry Deck models only.

PROUDLY  
MADE FOR  
AMERICA

Since 2006, SANY America has been investing in and growing across the U.S. From our 272-acre facility in Georgia, where we employ over 150 American employees, to our growing dealer network across the country, SANY America is dedicated to building business and forging relationships across America. We feature tier one components by brands you trust like Cummins, Kessler, Dana and Rexroth. And our industry-leading warranties are proof of SANY's reliability. It's the same for all of our equipment whether it be cranes, construction machinery or port machinery. We stand behind our equipment and proudly show continuous support to our machines and the people who operate them.

SANY America is dedicated to helping American-owned businesses thrive with our commitment to value, performance and service.





SCD150

# DESIGNED TO **DOMINATE** THE JOBSITE

SANY builds some of the most durable and reliable cranes in the world. That's design validation at the highest level working to increase the overall longevity of your machine. Beyond reliability and durability, we focus on the operator's experience. So we gave the LMI a large, touchscreen monitor which is easier and more intuitive to navigate. Then we focused on spaciousness, visibility, and climate control. This cab will keep them cool in the hottest days of summer and warm in the cold days of winter. They have high visibility of the jobsite day and night with wide windows and multiple cameras.

**WE'VE GOT  
YOUR  
BACK**

To provide peace of mind and ensure maximum uptime, SANY backs all its equipment with robust standard warranties. That's our commitment to keeping your fleet running at peak performance. You can trust SANY to keep you moving, year-round.

## HIGHLIGHTS

### WORKING IN NARROW SPACES

Overall height of 8.2ft, width of 7.9ft, easily pass through narrow areas such as workshops, petrochemical pipe racks, and port yards.

New oblique-style single-stage outriggers, strong adaptability to different terrains.

All-wheel steering with a minimum steering radius of 11.5ft, approach angle 20° and departure angle 19°, strong accessibility.

Three-position offset (0°, 15° and 30°) of jib.

The superstructure allows 360° free slewing, enabling precise operation in narrow spaces such as building windows.

Flexible boom nose adjusts +40°/+80° to lower height by 1.5 ft for low-clearance work, -30° / -15° increases the deck loading/unloading range, accommodating a wider variety of job sites.

### STRONG LIFTING CAPABILITY

Four U-section boom with a full extension of 54 ft, standard 15 ft jib, maximum lifting height 70 ft, offering a large working radius.

Maximum lifting moment 246 kft-lb, maximum lifting capacity of full-extension boom 12,11lb, boom working radius 6 ft–51 ft, delivering leading performance.

Supports load-carrying travel and crab travel modes, enabling precise relocation and installation of large equipment such as trusses, reactors, and power units even in confined plants or dense equipment areas—truly “compact size, big power.”

### TRAVELING WITH LOAD

The crane is able to travel with 5.75t load at dead front on its base boom.

### MULTIPLE WORKING CONDITION OPTIONS

Selectable boom, jib, traveling with load and others working configurations.

Steel walking surfaces and stepping surfaces, capable of short-distance handling and self-loading/unloading within the factory area, saving one flatbed truck.

### BRAND-NEW DRIVING EXPERIENCE

Industry-first pillar-free chamfered cab design expands interior space by 18%, offering enhanced visibility and easier access.

Front rigid suspension and rear oscillation suspension. It can adapt to various harsh working conditions and road surfaces, ensuring smooth vehicle operation and stability against rollovers.

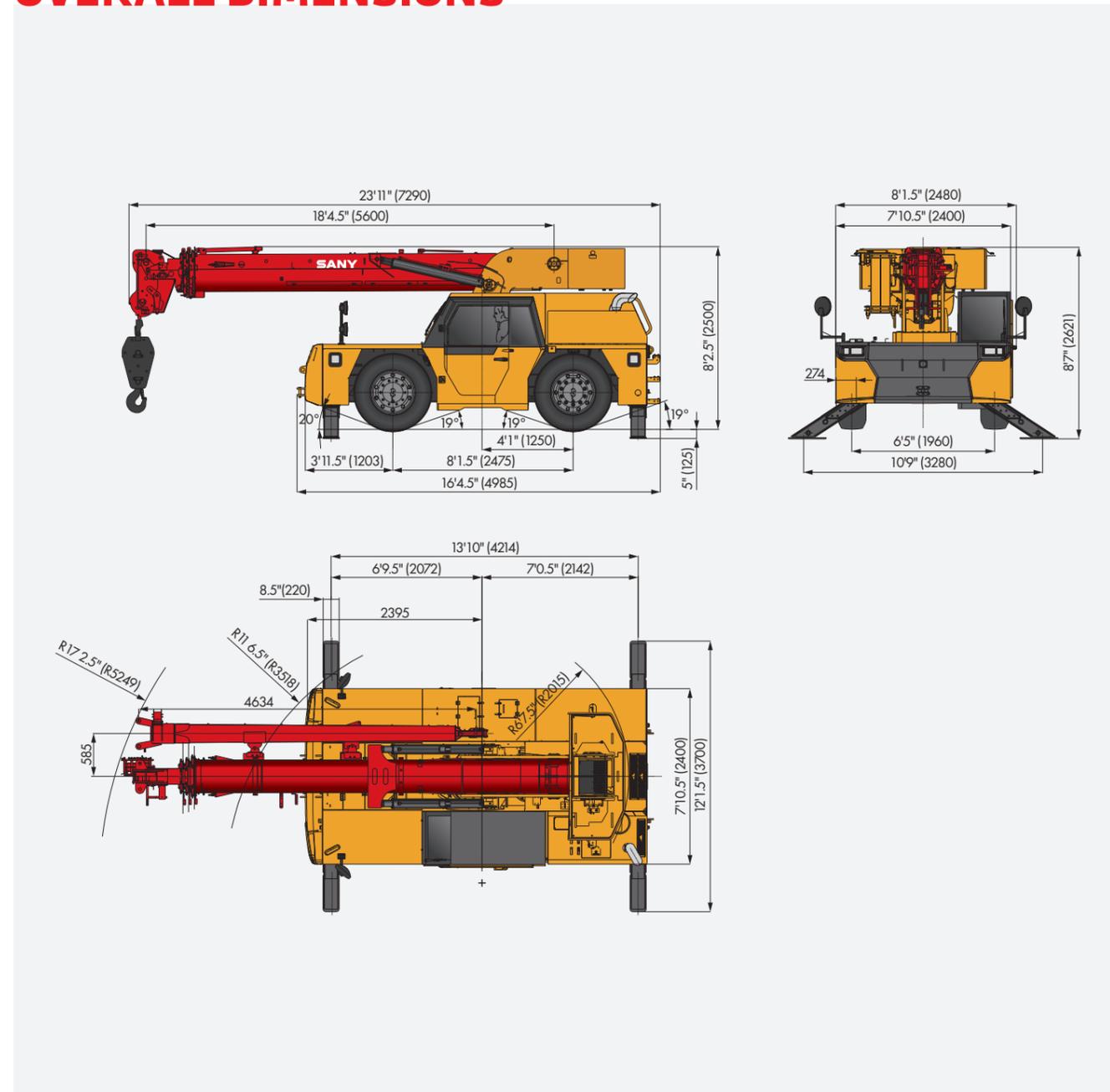
Equipped with six HD cameras, the operator gains full awareness of the surroundings. With on-crane wireless remote control, key functions—boom telescoping, luffing, slewing, and hook lifting—can be precisely managed from the optimal outside vantage point, greatly enhancing safety, responsiveness, and operational confidence in complex conditions.



# TRANSPORT, DIMENSIONS AND TECHNICAL SPECS

The SCD150's technical specifications and strong load charts fit right in with the 15 US<sub>t</sub> class in America. They were developed to perform at their peak especially for the American crane operator.

## OVERALL DIMENSIONS



## TECHNICAL SPECIFICATIONS

CATEGORY	ITEM	UNIT	VALUE	
CAPACITY	Max. rated lifting capacity	US <sub>t</sub>	15	
	Gross weight	lbs	32800	
WEIGHT	Fixed counterweight	lbs	3747	
	Engine model	Cummins	F3.8 US EPA 4(f)	
POWER	Max. engine power	HP/rpm	121/2200	
	Max. engine torque	ft·lb/rpm	369/1500	
	Overall length	ft	23'-11"	
DIMENSIONS	Overall width	ft	7'-10 1/2"	
	Overall height	ft	8'-2 1/2"	
	Wheelbase	ft	8'-1 1/2"	
	Track width	ft	6'-5"	
	Min. steering radius	ft	11'-6"	
	Turntable tail slewing radius	ft	6'-7 1/2"	
	Max. travel speed	mph	15.5	
TRAVEL	Approach angle	°	20	
	Departure angle	°	19	
	Min. rated lifting radius	ft	6	
MAIN PERFORMANCE	Max. lifting moment	Main boom	kip.ft	246
		Full-extension boom	kip.ft	220
		Full-extension boom + jib	kip.ft	141
	Boom length	Basic boom	ft	18'-4 1/2"
		Full-extension boom	ft	54'-1 1/2"
		Full-extension boom + jib	ft	69'-5"
	Max. lifting height	Basic boom	ft	19'-0 1/2"
		Full-extension boom	ft	53'-7"
		Full-extension boom + jib	ft	70'-3"
Outrigger span (Longitudinal×Transverse)	ft	13'-10"×10'-9"		
Adjustable boom nose	°	-30/-15/0/40/80		

In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

# TECHNICAL PARAMETERS



## Hook

Axle	1	2	Gross weight
Axle load/lb	16700	16100	32800
Remark	Full configuration, with one operator.		



## Hook

Rated load/USt	Number of sheaves	Parts of line	Hook weight/lb
15	2	4	353
5.5	-	1	176



## Operations

Item	Max. single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Winch speed	0~186fpm	9/16in/328ft	8,800 lbs
Slewing speed		0~2.1r/min	
Full luffing up/down time of boom		30/37s	
Full extension/retraction time of boom		20/18s	

# CRANE INTRODUCTION

## Driver's cab

- Sany independently developed cab, designed based on ergonomic principles, with excellent shock absorption and sealing properties. It is equipped with a two-point safety belt, an adjustable multifunction steering wheel, and automatic heating and cooling air conditioning. 10.1-inch display screen, providing a comprehensive view of the vehicle's status. The button panel is fully functional, enhancing the driving experience for comfort, safety, and user-friendliness.
- Industry-first pillar-free chamfered cab design expands interior space by 18%, offering enhanced visibility and easier access.
- 360° Camera display

## Carrier frame

- Sany double longitudinal beam construction welded by high-strength fine-grained high-strength steel plate, higher bearing capacity and longer service life.

## Axles

- All-wheel steering, with the front axle serving as the driving axle, offers light and flexible steering, thereby enhancing maneuverability and agility.

## Engine

- Model: Inline four-cylinder diesel engine with watercooler and inter cooler.
- Environmental-friendly: Cummins engines can provide emission power solution tailored meeting the emission standards US EPA 4(f), and Euro Stage V.
- Fuel reservoir capacity: 39.6 gal.

## Transmission

- Integrated Manual and Automatic Transmission, 3 forward gears and 3 reverse gears. Smooth gear shifting.

## Suspension system

- Front axle suspension and rear axle with cylinder locking pivot swing suspension.

## Steering

- Hydraulic cylinder steering.
- Equipped with multiple steering modes to achieve higher maneuverability, and the minimum steering radius is 11.5ft.

## Braking

- The braking system includes service brake & parking brake.
- Wet-type brakes offer rapid braking response and high braking efficiency.

## Wheel formula

- 4×2.

## Outrigger

- Single-stage oblique outriggers, strong adaptability to different terrains.
- Axle articulation structure with adjustable angles to adapt to different ground conditions.

## Tires

- 385/65R22.5.

## Electrical system

- Utilizing an internationally advanced distributed integrated bus data communication network, the system ensures high-speed information transmission with a response time of less than 20ms.
- Equipped with a 10.1-inch high-definition display screen featuring a new user interface. Various work statuses can be displayed through button indicator lights.
- Sany independently developed a Load Moment Indicator with precision up to 0-5%.

# CRANE INTRODUCTION

## Boom system

- Boom: Four-section, basic boom 18.3ft, full-extension 54.1ft, made of fine-grained high-strength welded steel plates. Single cylinder telescoping with rope arranger functioning automatic telescoping, with a double-acting cylinder that can control the extension and retraction of all boom sections, achieving various combinations of boom lengths.
- Jib: 15ft jib with adjustable jib head, offset at 0°, 15°, 30°.

## Slewing platform

- SANY independently developed, made of fine grain high strength steel in optimized structure.

## Hydraulics

- Load-sensitive superstructure hydraulic system, achieving high-precision flow control to maximize energy efficiency. The boom extension and retraction system uses an open system composed of an electronically controlled proportional pump and a proprietary main valve. The hoist and winch systems, as well as the slewing system, adopt open systems.
- All key components, including hydraulic pumps, piston motors, and balance valves, are sourced from top-tier international brands, ensuring high quality and reliability. Sany's independently developed double pump intelligent flow distribution system.

## Hoist

- High-quality wire rope locks enhances the efficiency of changing the wire rope ratio, making it convenient and swift.
- Specifications: 9/16in (14mm), 35WxK7 anti-rotation steel wire rope.
- Max. single rope speed: 180fpm.

## Luffing system

- Luffing angle: 0°~75°, electric proportional control, combining power luffing with passive luffing, it can achieve rapid luffing at large angles and stable, slow-speed luffing at small angles.

## Slewing

- 360° slewing in both direction, max. speed 2.1 rpm. The slewing adopts a open system for stable braking.

## Control system

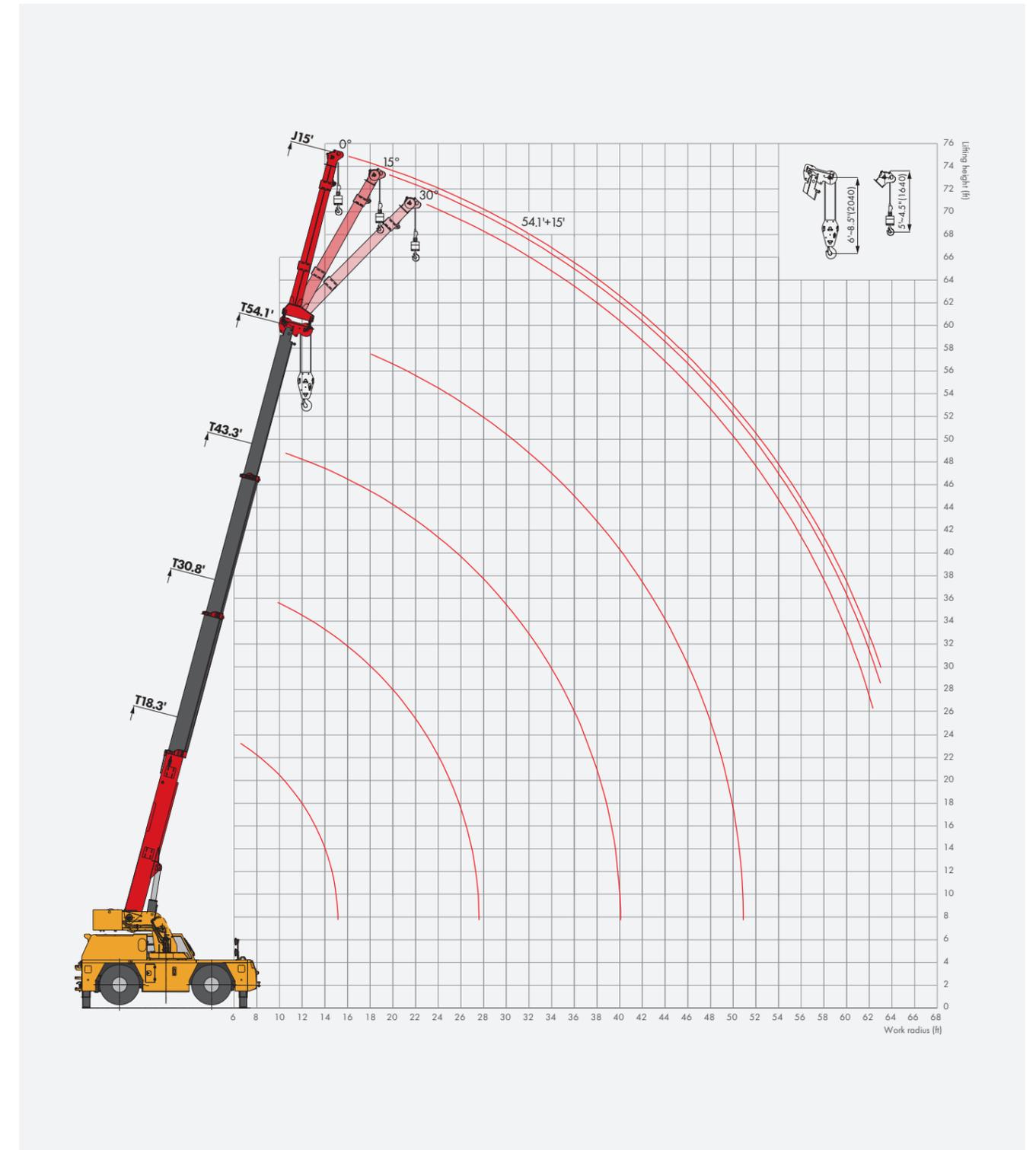
- Powered by a 24V DC power supply, and controlled by a CAN-BUS control network.
- The system features real-time monitoring and automatic fault diagnosis capabilities.

## Safety equipment

- Analytical mechanics is applied and load moment indicator calculation system based on the hoisting mechanics model is established. Through online empty-load calibration, the rated accuracy can reach 0~5%.
- The hydraulic system includes balance valve, relief valve, two-way holding valve, etc. to realize system stability and reliability.
- The main and auxiliary winches are equipped with third-wrap indicators to prevent over-hoist-down of the wire rope.
- Boom head and jib head are equipped with A2B switches to prevent the wire rope from over winding.
- Boom head and jib head are equipped with anemometer to monitor whether the high-altitude wind speed exceeds the permissible operating range.

# WORKING RANGE DIAGRAM — Telescopic Boom+Fixed Jib

Lifting capacities in klb



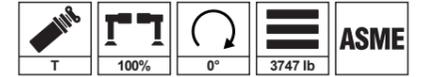
# LOAD CHARTS – Telescopic Boom (T), 360° Slewing



Unit: lbs

ft	18.3	30.8	43.3	54.1	ft	
6.0	30000				6.0	
8.0	26200				8.0	
10.0	21600	18500			10.0	
12.0	19000	17200			12.0	
14.0	13700	15700	15400		14.0	
16.0		12600	12800		16.0	
18.0		10400	10400	10400	18.0	
20.0		8600	8800	8600	20.0	
22.0		7700	7700	7700	22.0	
24.0		6800	7000	7100	24.0	
26.0		6400	6200	6200	26.0	
28.0			5700	5700	28.0	
30.0			4600	4900	30.0	
32.0			4200	4400	32.0	
34.0			3700	3700	34.0	
36.0			3300	3300	36.0	
38.0			3100	3100	38.0	
40.0				2900	40.0	
42.0				2600	42.0	
44.0				2400	44.0	
46.0				2200	46.0	
48.0				2000	48.0	
50.0				1800	50.0	
51.0				1500	51.0	
	4	4	4	4		
	2#	0	35	70	100	2#
	3#	0	35	70	100	3#
	4#	0	35	70	100	4#

# LOAD CHARTS – Telescopic Boom (T), Load Over Front



Unit: lbs

ft	18.3	30.8	43.3	54.1	ft	
6.0	30000				6.0	
8.0	26200				8.0	
10.0	21600	18500			10.0	
12.0	19000	17200			12.0	
14.0	13700	16500	15400		14.0	
16.0		15000	13900		16.0	
18.0		13700	12800	12100	18.0	
20.0		11700	11500	11000	20.0	
22.0		9900	9700	9700	22.0	
24.0		8600	8400	8400	24.0	
26.0		6600	7300	7300	26.0	
28.0			6600	6400	28.0	
30.0			6000	5700	30.0	
32.0			5300	5100	32.0	
34.0			4600	4600	34.0	
36.0			4200	4200	36.0	
38.0			4000	4000	38.0	
40.0				3500	40.0	
42.0				3500	42.0	
44.0				3100	44.0	
46.0				2900	46.0	
48.0				2600	48.0	
50.0				2400	50.0	
51.0				2200	51.0	
	4	4	4	4		
	2#	0	35	70	100	2#
	3#	0	35	70	100	3#
	4#	0	35	70	100	4#

## LOAD CHARTS – Telescopic Boom, On Tires Stationary, Load Over Front



Unit: lbs

 ft	18.3	30.8	43.3	54.1	 ft	
6.0	15700				6.0	
8.0	12800				8.0	
10.0	10600	10600			10.0	
12.0	7700	8200			12.0	
14.0	6000	6400	6600		14.0	
16.0		5100	5300		16.0	
18.0		4200	4400	4400	18.0	
20.0		3500	3700	3700	20.0	
22.0		3100	3100	3300	22.0	
24.0		2600	2600	2900	24.0	
26.0			2400	2400	26.0	
28.0			2000	2200	28.0	
30.0			1800	1800	30.0	
32.0			1500	1500	32.0	
34.0			1300	1300	34.0	
36.0			1100	1100	36.0	
38.0			900	1100	38.0	
40.0				900	40.0	
42.0				900	42.0	
44.0				700	44.0	
46.0				700	46.0	
 $C_n$	4	4	4	4	 $C_n$	
 %	2#	0	35	70	100	2#
	3#	0	35	70	100	3#
	4#	0	35	70	100	4#

## LOAD CHARTS – Telescopic Boom, On Tires Stationary, 360° Slewing



Unit: lbs

 ft	18.3	30.8	43.3	54.1	 ft	
6.0	14100				6.0	
8.0	10100				8.0	
10.0	7100	7500			10.0	
12.0	5100	5500			12.0	
14.0	4000	4200	4400		14.0	
16.0		3500	3500		16.0	
18.0		2900	2900	3300	18.0	
20.0		2200	2400	2400	20.0	
22.0		1800	2000	2000	22.0	
24.0		1500	1500	1800	24.0	
26.0			1300	1500	26.0	
28.0			1100	1300	28.0	
30.0			900	1100	30.0	
32.0			700	900	32.0	
34.0			700	700	34.0	
 $C_n$	4	4	4	4	 $C_n$	
 %	2#	0	35	70	100	2#
	3#	0	35	70	100	3#
	4#	0	35	70	100	4#

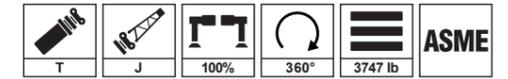
# LOAD CHARTS – Telescopic Boom, Pick & Carry, Load Over Front



Unit: lbs

ft	ft				ft	
	18.3	30.8	43.3	54.1		
6.0	11500				6.0	
8.0	9300				8.0	
10.0	7700	7900			10.0	
12.0	6400	6600			12.0	
14.0	5300	5500	5700		14.0	
16.0		4400	4900		16.0	
18.0		3700	4000	4000	18.0	
20.0		3100	3300	3300	20.0	
22.0		2600	2900	2900	22.0	
24.0		2200	2400	2600	24.0	
26.0			2200	2200	26.0	
28.0			1800	2000	28.0	
30.0			1500	1800	30.0	
32.0			1300	1300	32.0	
34.0			1100	1100	34.0	
36.0			900	1100	36.0	
38.0			700	1100	38.0	
40.0				900	40.0	
42.0				900	42.0	
44.0				700	44.0	
$C_n$	4	4	4	4	$C_n$	
%	2#	0	35	70	100	2#
	3#	0	35	70	100	3#
	4#	0	35	70	100	4#

# LOAD CHARTS – Fixed Jib



Unit: lbs

ft	18.3+15.1			30.8+15.1			43.3+15.1			54.1+15.1			ft	
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°		
8	7100												8	
10	7100												10	
12	7100	7100		7100									12	
14	7100	7100	7100	7100	7100								14	
16	7100	7100	7100	7100	7100		7100						16	
18	7100	7100	7100	7100	7100	7100	7100	7100					18	
20	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100			20	
22	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	4900		22	
24	5700	5700	5700	5700	5700	5700	5700	5700	5700	5700	4900		24	
26	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	4600	3700	26	
28	4900	4900		4900	4900	4900	4900	4900	4900	4900	4400	3500	28	
30				4600	4600	4600	4600	4600	4600	4600	4200	3500	30	
32				4200	4200	4200	4200	4200	4200	4200	4000	3300	32	
34				3700	3700	3700	3700	3700	3700	3700	3700	3300	34	
36				3300	3300	3300	3300	3300	3300	3300	3500	3300	36	
38				3100	3100	3100	3100	3100	3100	3100	3100	3100	38	
40				2900			2900	2900	2900	2900	2900	2900	40	
42							2600	2600	2600	2600	2600	2600	42	
44							2400	2400	2400	2400	2400	2400	44	
46							2200	2200	2200	2200	2200	2200	46	
48							2000	2000	2000	2000	2000	2000	48	
50							1800	1800		1800	1800	1800	50	
52										1500	1500	1800	52	
54										1500	1400	1500	54	
56										1300	1300	1300	56	
58										1100	1200	1100	58	
60										1100	1100	1100	60	
62										900	900		62	
$C_n$	1	1	1	1	1	1	1	1	1	1	1	1	$C_n$	
%	2#	0	0	0	35	35	35	70	70	70	100	100	100	2#
	3#	0	0	0	35	35	35	70	70	70	100	100	100	3#
	4#	0	0	0	35	35	35	70	70	70	100	100	100	4#

# LOAD CHARTS – Fixed Jib



Unit: lbs

ft	18.3+1.5			30.8+1.5			43.3+1.5			54.1+1.5			ft	
	0°	-15°	-30°	0°	-15°	-30°	0°	-15°	-30°	0°	-15°	-30°		
6	6600	6600	6600										6	
8	6600	6600	6600										8	
10	6600	6600	6600	6600	6600	6600							10	
12	6600	6600	6600	6600	6600	6600	6600	6600	6600				12	
14	6600	6600	6600	6600	6600	6600	6600	6600	6600				14	
16				6600	6600	6600	6600	6600	6600	6600	6600	6600	16	
18				6600	6600	6600	6600	6600	6600	6600	6600	6600	18	
20				6600	6600	6600	6600	6600	6600	6600	6600	6600	20	
22				5700	5700	5700	5700	5700	5700	5700	5700	5700	22	
24				5300	5300	5300	5300	5300	5300	5300	5300	5300	24	
26							4900	4900	4900	4600	4600	4600	26	
28							4000	4000	4000	4000	4000	4000	28	
30							3500	3500	3500	3500	3500	3500	30	
32							3100	3100	3100	3100	3100	3100	32	
34							2600	2600	2600	2600	2600	2600	34	
36							2400	2400	2400	2400	2400	2400	36	
38										2200	2200	2200	38	
40										2000	2000	2000	40	
42										1800	1800	1800	42	
44										1500	1500	1500	44	
46										1300	1300	1300	46	
48										1100	1100	1100	48	
$C_n$	1	1	1	1	1	1	1	1	1	1	1	1	$C_n$	
%	2#	0	0	0	35	35	35	70	70	70	100	100	100	2#
	3#	0	0	0	35	35	35	70	70	70	100	100	100	3#
	4#	0	0	0	35	35	35	70	70	70	100	100	100	4#





**SANY**

**INDUSTRY'S  
STRONGEST  
STANDARD  
WARRANTY** | **2-YEAR\*  
2,000 HOURS**

\*Warranty applies to 2026 Carry Deck models only.

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