

A yellow and red SANY SCD150 crane is shown in a large industrial warehouse. The crane is positioned diagonally across the frame, with its boom extending towards the left. The background features large glass windows and a high ceiling with steel beams. The crane has "SANY" written on its boom and body. The overall scene is brightly lit, suggesting a clean and modern industrial environment.

SANY

SCD150

**EXCELLENT ASSISTANT
FOR IN-PLANT MAINTENANCE**



15 USt (13.6 Mt)



54 ft (16.5 m)



70 ft (21.4 m)

**FULLY LOADED
IS THE NEW
STANDARD**

Best LMI in the Industry

Operator Friendly

Tier 1 Components

**Backed by SANY's
2-Year/2,000-Hour
Standard Warranty**

PRELIMINARY

**WHY SANY ROUGH
TERRAIN CRANES?**

STRENGTH. RELIABILITY. PERFORMANCE.

SANY's rough terrain cranes 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 3 years or 3,000 hours of proven reliability.



*Warranty applies to 2022 Crane 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 a tiltable cab, 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. Our network of local dealers will partner with you for routine maintenance and be there for warranty repairs. You can trust SANY to keep you moving, year-round.

**INDUSTRY'S
STRONGEST
STANDARD
WARRANTY** | **3-YEAR
3,000 HOURS**



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 11.2ft, approach angle 19° and departure angle 20°, 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 66 ft, offering a large working radius.

Maximum lifting moment 246 kft·lb, maximum lifting capacity of full-extension boom 12,11b, 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 5.2t 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.

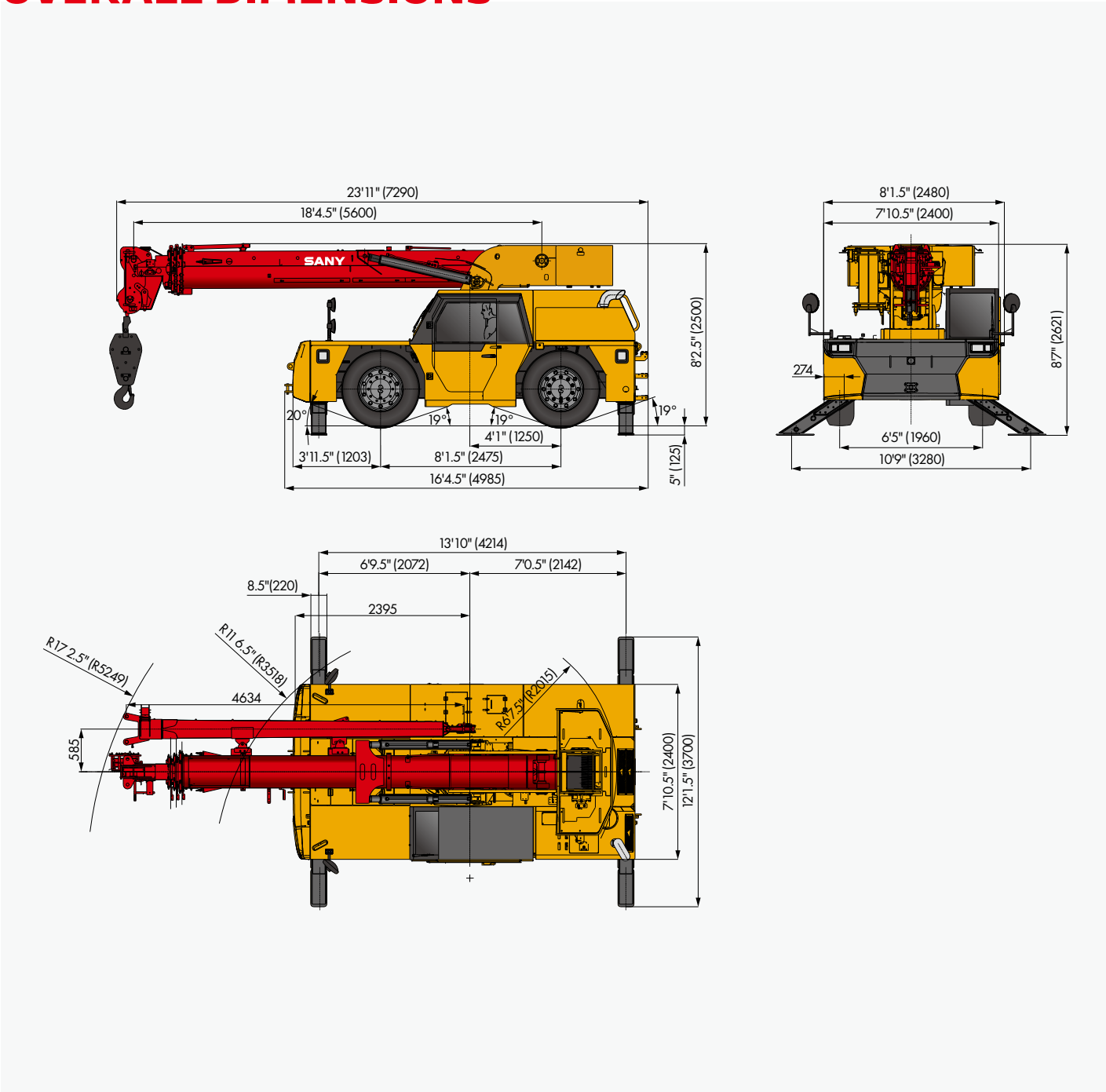
Front rigid suspension and rear oscillation suspension. It can adapt to various harsh working conditions and road surfaces, ensuring smooth vehicle operation and stability against rollovers.

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 USt 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		USt	15
WEIGHT	Gross weight		lb	67900
	Fixed counterweight		lb	3747
POWER	Engine model		-	F3.8 US EPA 4(f)
	Max. engine power		HP/rpm	121/2200
	Max. engine torque		ft·lb/rpm	369/1500
DIMENSIONS	Overall length		ft	23'-11"
	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 "
TRAVEL	Max. travel speed		mph	15.5
	Approach angle		°	20
	Departure angle		°	19
MAIN PERFORMANCE	Min. rated lifting radius		ft	6
	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	Rope rate	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	4.4USt
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.



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%.
- The winch camera monitors the winch operation, promptly detecting any rope disorder problem.

CRANE INTRODUCTION



Boom system

- Boom: Four-section, basic boom 5.6m, full-extension 16.5m, 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: 4.6m 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.

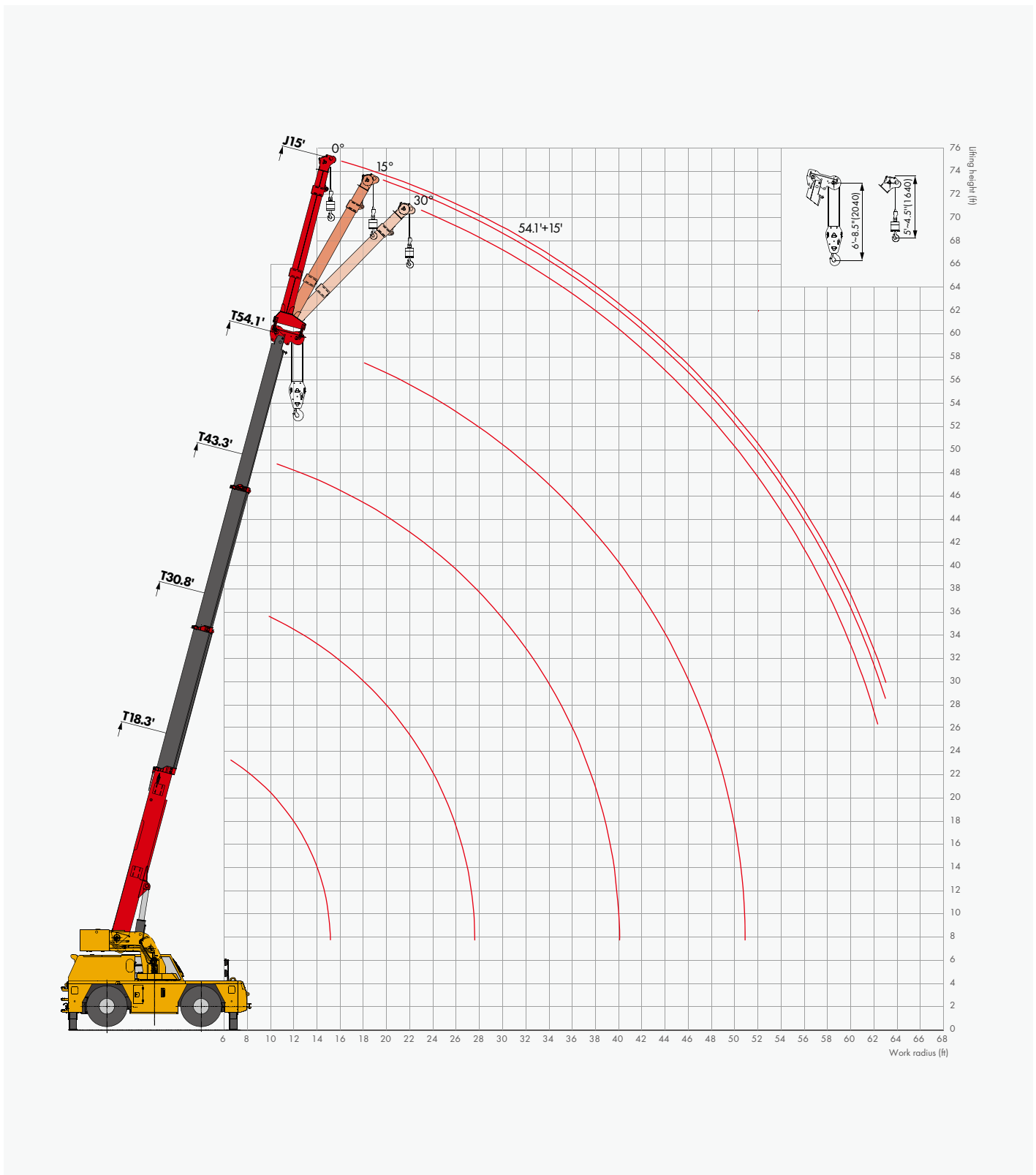


Safety equipment

- 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.

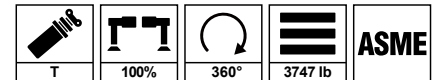
WORKING RANGE DIAGRAM — Telescopic Boom+Fixed Jib






Lifting capacities in klb



LOAD CHARTS — Telescopic Boom (T), 360° Slewing

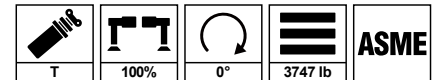
Unit: lbs








 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
 T _n	4	4	4	4	 T _n
 %	2#	0	35	70	2#
	3#	0	35	70	3#
	4#	0	35	70	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	2#
	3#	0	35	70	3#
	4#	0	35	70	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
	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, 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
	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, Pick & Carry, Load Over Front

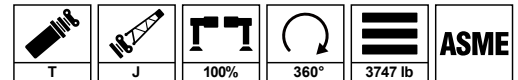
Unit: lbs








 ft	18.3	30.8	43.3	54.1	 ft
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
 ζ_n	4	4	4	4	 ζ_n
 2#	0	35	70	100	2# 
 3#	0	35	70	100	3# 
 4#	0	35	70	100	4# 

LOAD CHARTS — Fixed Jib

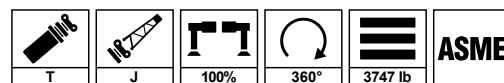
Unit: lbs








 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						18
20		7100	7100	7100	7100	7100	7100	7100	7100	7100				20
22		6200	6200	6200	6200	6200	6200	6200	6200	6200	4900			22
24		5700	5700	5700	5700	5700	5700	5700	5700	5700	4900			24
26		5300	5300	5300	5300	5300	5300	5300	5300	5300	4600	3700		26
28		4900	4900		4900	4900	4900	4900	4900	4900	4400	3500		28
30					4600	4600	4600	4600	4600	4600	4200	3500		30
32					4200	4200	4200	4200	4200	4200	4000	3300		32
34					3700	3700	3700	3700	3700	3700	3700	3300		34
36					3300	3300	3300	3300	3300	3300	3500	3300		36
38					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
 n		1	1	1	1	1	1	1	1	1	1	1	1	 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
 T _n		1	1	1	1	1	1	1	1	1	1	1	1	 T _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#



INDUSTRY'S
STRONGEST
STANDARD
WARRANTY

2-YEAR
2,000 HOURS

*Warranty applies to 2022 Crane models only.

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