

SANY

SAT700A-3.1

ALL TERRAIN CRANE



70 Ust (60 t)



164 ft (50 m)



218 ft (66.5 m)



PRELIMINARY

WHY SANY ALL-TERRAIN CRANES?

**VERSITILITY.
EFFICIENCY.
RELIABILITY.**

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

*Warranty applies to 2025 Crane models only.

MODEL
SAT700A-3.1

MAX CAPACITY
70 USt

BOOM LENGTH
164'

JIB LENGTH
52'

MAX TIP HEIGHT
218'

**PROUDLY
MADE FOR
AMERICA**

Since 2006, SANY America has been investing in and growing across the U.S. From our \$60 million, 272-acre facility in Peachtree City, Georgia, where we employ over 200 American employees, to our thriving dealer network stretching from Maine to Washington, SANY America is dedicated to building business across America.

SANY America's equipment is specifically made for the U.S. market and designed to exceed your expectations. That's why all SANY machines are backed by the industry's strongest standard warranties, loaded with standard features, built with component brands you trust and serviced by trained technicians. Delivering true value to you and your customers and protecting your investment are important to us. We are dedicated to helping American businesses thrive with our commitment to value, performance and service.

The SAT700A-3.1 is a state-of-the-art all-terrain crane engineered for superior performance and versatility.

Boasting a 70 U.S. ton lifting capacity, it features a six-section boom that extends up to 164 feet.

Designed for precision and operator convenience, the SAT700A-3.1 features wireless remote control, an anti-electromagnetic interference module for reliability, and the new iCab, setting standard for comfort and ergonomics.

Built for durability and efficiency, the SAT700A-3.1 delivers the power and innovation needed to tackle the most demanding lifting challenges.





SAT700A-3.1

BUILT TO **LEAD** ENGINEERED TO **PERFORM**

UNMATCHED POWER, COMFORT, and RELIABILITY on EVERY JOBSITE

SANY delivers some of the toughest and most dependable cranes in the industry—designed and tested to maximize longevity and uptime. But durability is just the beginning. We've engineered the SAT700A-3.1 to enhance the operator experience, ensuring productivity and comfort on every lift.

Intuitive Control at Your Fingertips: A large, high-resolution touchscreen LMI simplifies operation, making it faster and easier to navigate critical lift data.

Designed for All-Day Comfort: A spacious, climate-controlled cab keeps operators cool in the heat and warm in the cold, reducing fatigue and maximizing efficiency.

Uncompromised Visibility & Awareness: The tiltable cab, expansive windows, and multiple cameras provide a clear view of the jobsite—day or night—helping operators work safely and with confidence.

From the first lift to the last, the SAT700A-3.1 is built to dominate.

**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**



PERFORMANCE

The SAT700A-3.1 delivers exceptional lifting power with a robust driveline, precision-engineered boom, and high-efficiency hydraulics, ensuring maximum productivity in any job site condition. Its advanced load management and smooth controls give operators the confidence to handle demanding lifts with ease.

COMFORT

Designed for operator comfort, the SAT700A-3.1 features a spacious, climate-controlled cab with ergonomic seating, intuitive controls, and low-noise insulation. A tiltable cab, wide visibility, and multiple cameras enhance awareness while reducing fatigue in any weather.

POWER

Powered by a high-performance Cummins engine, the SAT700A-3.1 delivers the torque and reliability needed for heavy lifts. Paired with an advanced hydraulic system and powerful winch, it provides strong pulling force and responsive operation on any job site.

EFFICIENCY

Built for uptime, the SAT700A-3.1 combines a fuel-efficient Cummins engine, advanced hydraulics, and intuitive controls for streamlined operation. With fast setup, smooth lifting cycles, and lower fuel consumption, it helps operators get more done while keeping costs down.

STRENGTH

Built with high-strength steel and reinforced structural components, the SAT700A-3.1 delivers superior durability and load-bearing capacity. Its rugged design ensures stability under heavy loads, making it a reliable choice for the toughest job site conditions.

INDUSTRY-LEADING WARRANTIES

The SAT700A-3.1 is backed by SANY's industry-leading 3-year/3,000-hour warranty, providing peace of mind and long-term protection. With reliable coverage and strong dealer support, you get maximum uptime and confidence in your investment.

SUPPORT

SANY's strong North American dealer network, factory-trained technicians, and fast parts availability, ensuring minimal downtime and maximum productivity.

COMPONENT BRANDS

The SAT700A-3.1 is built with proven, industry-leading components, including a Cummins engine, Allison transmission, Kessler axles, and Rexroth hydraulic systems, ensuring exceptional reliability, performance, and efficiency on every lift.





SAT700A-3.1

SANY ALL TERRAIN CRANE
70 USTON LIFTING CAPACITY

164ft boom

The SAT700A-3.1 features a 164 ft telescopic boom, delivering exceptional reach and versatility for demanding lifts.

Wireless remote control

Standard features include a wireless remote control, allowing full operation of all crane functions for effortless setup and precise adjustments, making the process faster and more efficient—even when working alone.

Anti-electromagnetic interference

The integrated anti-electromagnetic interference module ensures reliable performance even in environments with strong electric and magnetic fields (excluding wireless operations).

All new iCab design

Specifically engineered for the North American market and adopted globally, the iCab combines ergonomic innovation, enhanced safety, and superior comfort for an optimized operator experience.

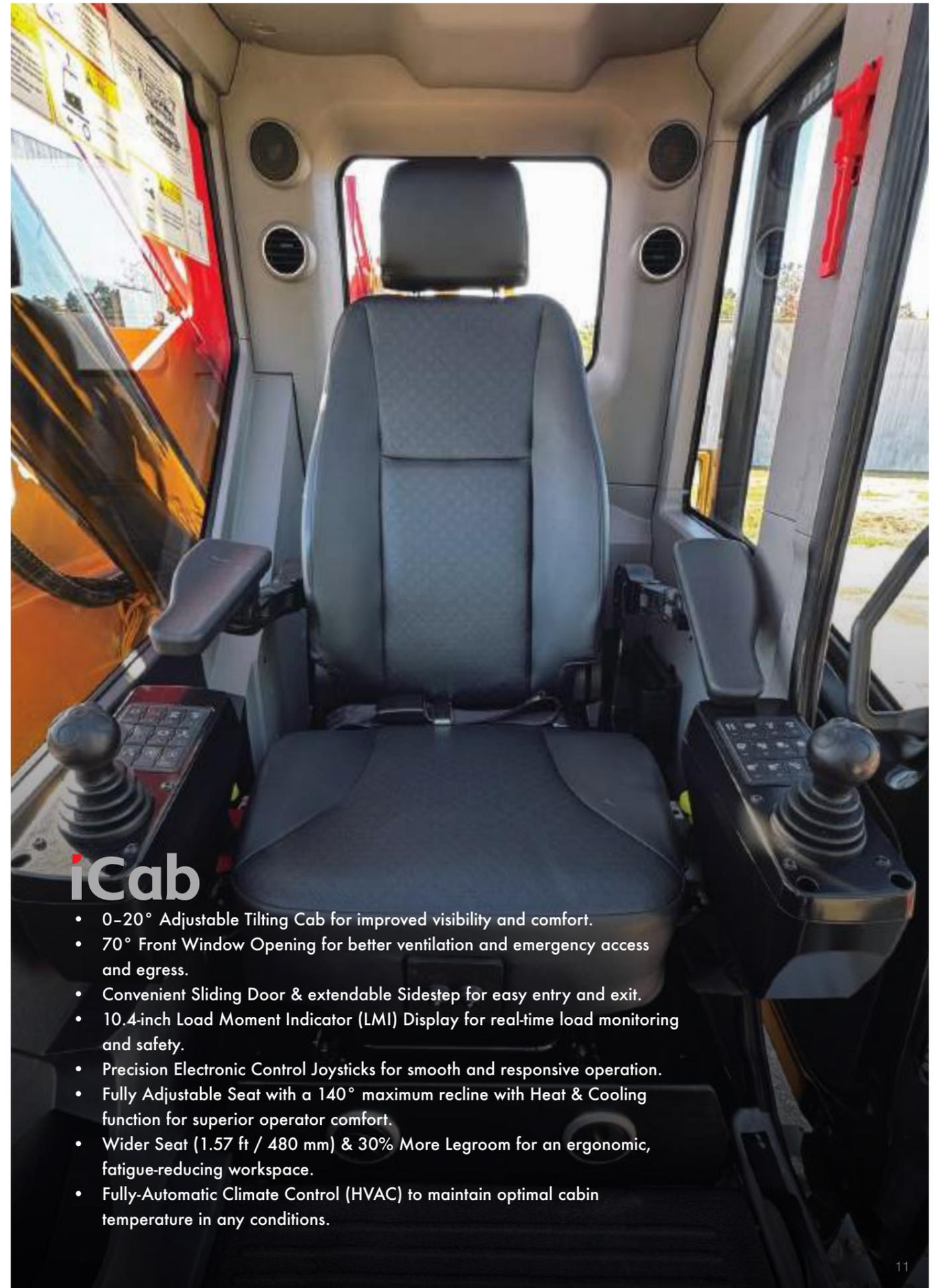


NEW GENERATION CAB CAPACIOUS, CONVENIENT AND COMFORTABLE



iCab

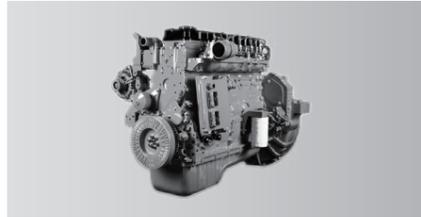
- Multi-Function Driver's Seat with air suspension for enhanced comfort on those longer hauls.
- Convertible Dual Passenger Seats that folds into a spacious sleeping berth for added convenience.
- 10.1-inch Touchscreen Display with integrated backup camera and multimedia controls.
- Wide-Angle Heated Rearview Mirrors for enhanced road visibility in all weather conditions.
- High-Intensity LED Headlamps & Fog Lights, ensuring clear, reliable illumination for nighttime and low-visibility driving.
- Fully-Automatic Climate Control System (HVAC) for optimal cabin temperature in any environment.



iCab

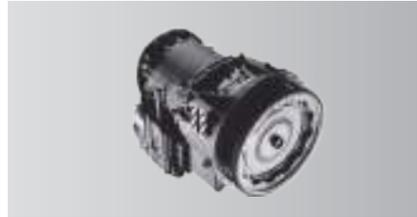
- 0-20° Adjustable Tilting Cab for improved visibility and comfort.
- 70° Front Window Opening for better ventilation and emergency access and egress.
- Convenient Sliding Door & extendable Sidestep for easy entry and exit.
- 10.4-inch Load Moment Indicator (LMI) Display for real-time load monitoring and safety.
- Precision Electronic Control Joysticks for smooth and responsive operation.
- Fully Adjustable Seat with a 140° maximum recline with Heat & Cooling function for superior operator comfort.
- Wider Seat (1.57 ft / 480 mm) & 30% More Legroom for an ergonomic, fatigue-reducing workspace.
- Fully-Automatic Climate Control (HVAC) to maintain optimal cabin temperature in any conditions.

POWER TRAIN



Engine

Cummins L9 off-road in-line six diesel engine, complying with Stage V emission standards. Rated power: 364.7 hp (272 kW)/2,100 rpm. Max. torque: 1,324 lb.ft (1,795 N.m)/1,400 rpm. Fuel reservoir capacity: 105.67 gal (400 L).



Transmission

Allison 4500SP 6-speed AT with three-phase torque converter and planetary gear, allowing for smooth start and smooth gearshift.



Axle and suspension

Kessler axles with high bearing capacity and reliable quality. Hydro pneumatic suspension system with stroke of $\pm 0.328\text{ft}$ ($\pm 100\text{mm}$). Standard 6x4 drive mode, with axles 2, 3 driven. Optional 6x6 drive mode, with axles 1, 2, 3 driven.

TELESCOPIC BOOM SYSTEM

Efficient Single-Cylinder Pin Boom System

Featuring a six-section boom with variable length combinations, the automatic telescoping system optimizes extension and retraction for maximum efficiency. The single-cylinder pin mechanism ensures seamless operation, reducing setup time and labor while enhancing overall performance. This advanced design delivers precision, speed, and reliability, making every lift safer and more efficient.

SANY-developed components

Including the anemometer, third wrap indicator, anti-two-block switch, telescope cylinder length reel, and external cable reel—are purpose-built to deliver enhanced safety, precision, and operational reliability. These integrated technologies reflect SANY's commitment to engineering excellence and job site performance you can count on.



Anti-two-block limit switch



Third wrap indicator



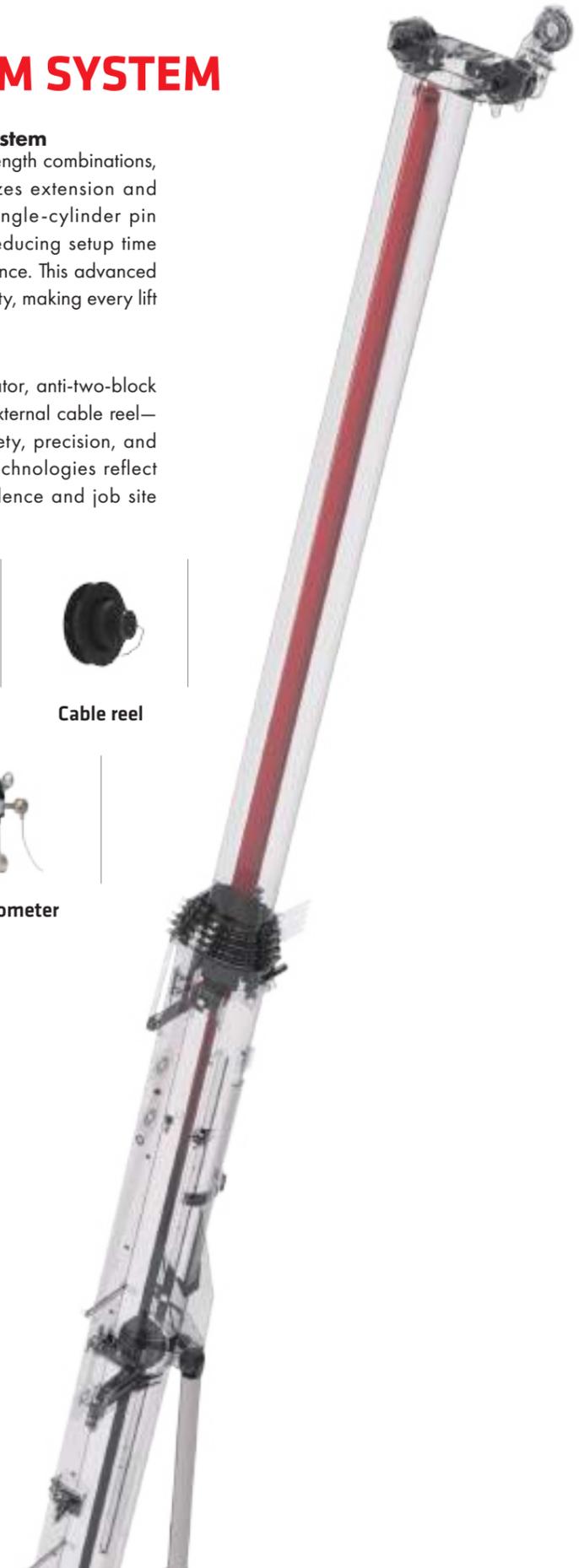
Cable reel



Cable reel inside the boom



Anemometer



Steering system

Dual-circuit power steering gear, and dual-circuit power steering system, with all axles steered.

Braking system

Adopt all-wheel pneumatic brake. With dual-circuit braking system, all wheels are equipped with disc brakes. Optional eddy current retarder, slow down the crane in advance, which can reduce the wear of brake parts and save the use cost.

ANTI-ELECTROMAGNETIC INTERFERENCE

The advanced anti-electromagnetic interference module ensures seamless crane operation even in high-intensity electric and magnetic fields (≥ 20 V/m and > 1640 ft (500 m) from interference sources). Designed for demanding job sites, it enables uninterrupted performance in high-power industrial zones, including construction clusters, high-voltage power lines, broadcasting stations, power plants, aluminum plants, radar stations, military bases, and mobile communication hubs. With this cutting-edge protection, your crane delivers uncompromised efficiency and safety, even in the most challenging electromagnetic environments.



WIRELESS REMOTE CONTROL SYSTEM

The cutting-edge wireless remote control system enhances operator convenience, allowing for seamless, precise, and safe crane operation from a distance.

Key Functions:

Outrigger Control - Independently adjust each outrigger beam, operate single-side jacks in any combination, and engage one-touch auto-leveling for quick and stable setup.

Crane Operations - Remotely manage boom telescoping, luffing, slewing, and hoisting, ensuring smooth and controlled lifting performance.

Auxiliary Functions - Easily handle counterweight installation/removal, jib assembly and stowage, side step extension/retraction, and cab tilting, optimizing efficiency on the job site.

This intelligent remote control system reduces setup time, improves safety, and enhances operational flexibility, making it an essential tool for high-performance lifting applications.



- Outrigger status
- Counterweight lifting/lowering, step extension/retraction
- Main parameters
- Boom telescoping

WORKING CONDITION

T: Boom

Max. lifting capacity	132 Klb (60 t)
Max. boom length	164 ft (50 m)
Max. radius	127 ft (39 m)
Max. height	165 ft (50.5 m)

TA: Boom + auxiliary jib (optional)

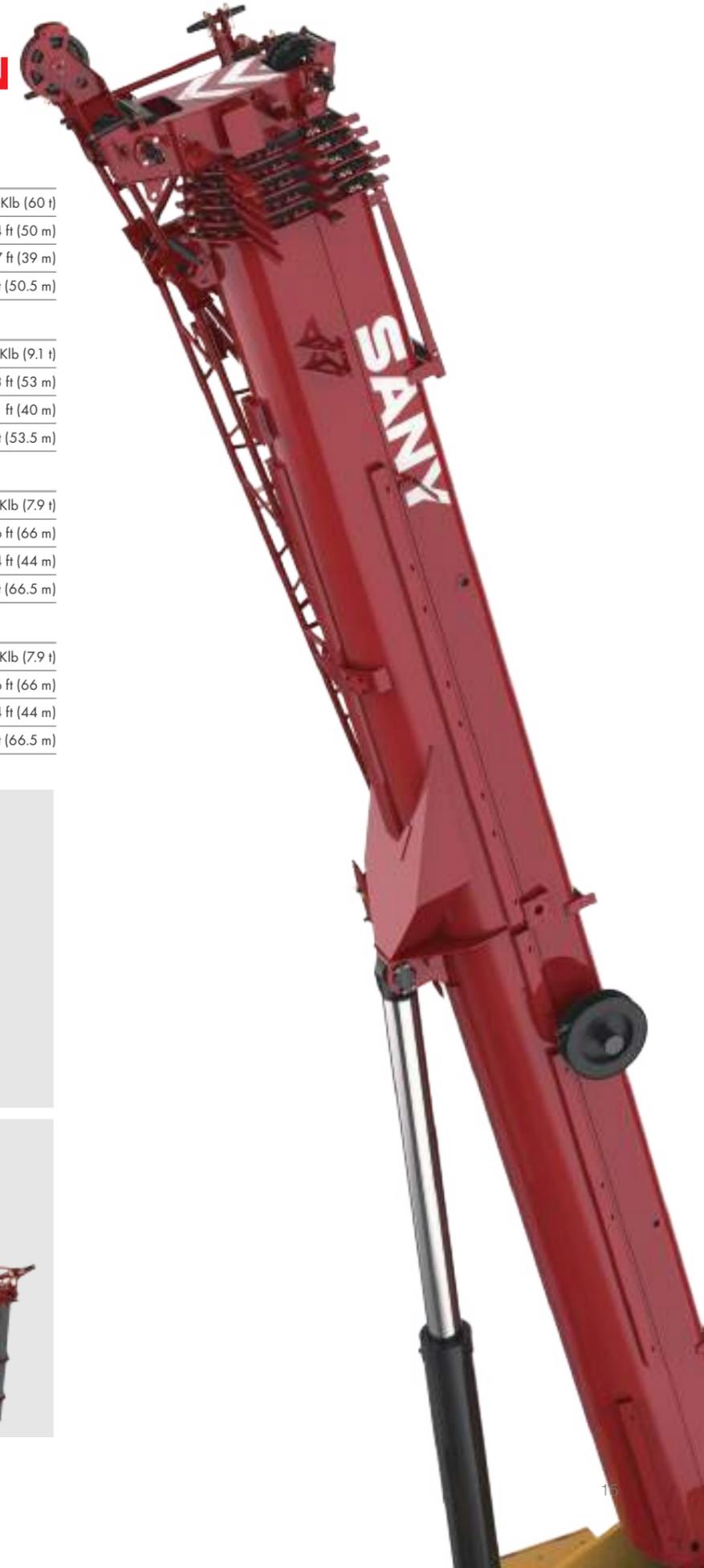
Max. lifting capacity	20 Klb (9.1 t)
Max. boom + jib length	173 ft (53 m)
Max. radius	131 ft (40 m)
Max. height	175 ft (53.5 m)

TH: Boom + hydraulically adjustable jib (optional)

Max. lifting capacity	17 Klb (7.9 t)
Max. boom + jib length	216 ft (66 m)
Max. radius	144 ft (44 m)
Max. height	218 ft (66.5 m)

TJ: Boom + fixed jib (optional)

Max. lifting capacity	17 Klb (7.9 t)
Max. boom + jib length	216 ft (66 m)
Max. radius	144 ft (44 m)
Max. height	218 ft (66.5 m)



STEERING CONFIGURATIONS



Independent rear axle steering



Crab steering



On-road driving



All-wheel steering

AXLE LOADING OPTIONS

Traveling with counterweight and hook block on board



≤ 35.3 Klb (16 t) ≤ 35.3 Klb (16 t) ≤ 35.3 Klb (16 t)

☰ 28.7 Klb (13 t)



≤ 26.5 Klb (12 t) ≤ 26.5 Klb (12 t) ≤ 26.5 Klb (12 t)

☰ 9.3 Klb (4.2 t)

Axle Load

Axle load	Total weight	Drive	Tire	Fixed CW	Jib bracket	Attachment
<26.5 Klb (<12 t)	≤79 Klb (≤36 t)	6×6	1.26 ft (385) / 95R25 alu	9.3 Klb (4.2 t)	-	13.9 Klb (6.3 t) hook placed at frame tail bucket
<26.5 Klb (<12 t)	≤79 Klb (≤36 t)	6×6	1.46 ft (445) / 95R25 alu	9.3 Klb (4.2 t)	-	-
<26.5 Klb (<12 t)	≤79 Klb (≤36 t)	6×4	1.46 ft (445) / 95R25 alu	9.3 Klb (4.2 t)	-	13.9 Klb (6.3 t) hook placed at frame tail bucket

ELECTRICAL SYSTEM

CAN-BUS communication system

CANBUS networking implemented for display, instrument panel, I/O module and main sensors, allowing for high-speed data transmission, resulting in a response time of less than 20ms.

Smart fault diagnosis system

The chassis adopts safety controller functioning smart monitoring, BCM power distribution management and integrated with fault diagnosis system.

AEC-approved console screen

The screen integrates chassis functions including suspension control, steering control, outrigger control and data calibration.

Precise load moment indicator

SANY's LMI system features a large, high-definition touchscreen that delivers critical load data with exceptional clarity and precision. Designed for efficiency, the intuitive interface minimizes menu navigation while exceeding industry standards for load accuracy to ensure safe and reliable crane operations.

Cabling

Centralized junction boxes and heavy-duty connectors used for wiring harness of the superstructure, making it convenient for maintenance; IP rating up to IP67, ensuring high reliability.

Winch monitoring system

Winch cameras are equipped to allow visual monitoring of the hoist drums - allowing the operator to identify issues early.

Integrated bus button panel input

An integrated bus button panel simplifies control with one-touch functionality. Indicator lights clearly display system states, reducing training time and increasing operational efficiency.

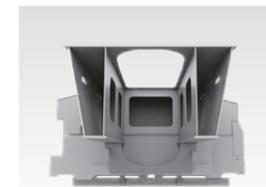
CARRIER FRAME

Reinforced High-Strength Carrier Frame

Superior Structural Integrity – The carrier frame is constructed from fine-grain, high-strength steel plates in a box-type section, delivering exceptional antitorsion capability—significantly stronger than C-type or H-type constructions.

Enhanced Stability

The H-type outriggers feature a 4-point support system, built from the same high-strength material as the frame. This rigid and durable design ensures optimal stability and safety during lifting operations, even in challenging environments.



HYDRAULIC SYSTEM

Superstructure

The SAT700A-3.1's superstructure is engineered for fluid, coordinated functionality, featuring an electronically controlled load-sensing hydraulic system and a closed-loop slewing mechanism that delivers quiet, responsive movement with zero pressure loss.

Operators can carry out up to four simultaneous functions, enhancing jobsite productivity and control.

The electro-proportional passive luffing-down system ensures smooth, stable boom operation, while the electronic joystick and throttle offer light-touch command with instantaneous responsiveness.

With a minimum single-line hoisting speed of just 3.3 feet per minute, the SAT700A-3.1 is built to deliver consistency, finesse, and dependable control in every application.

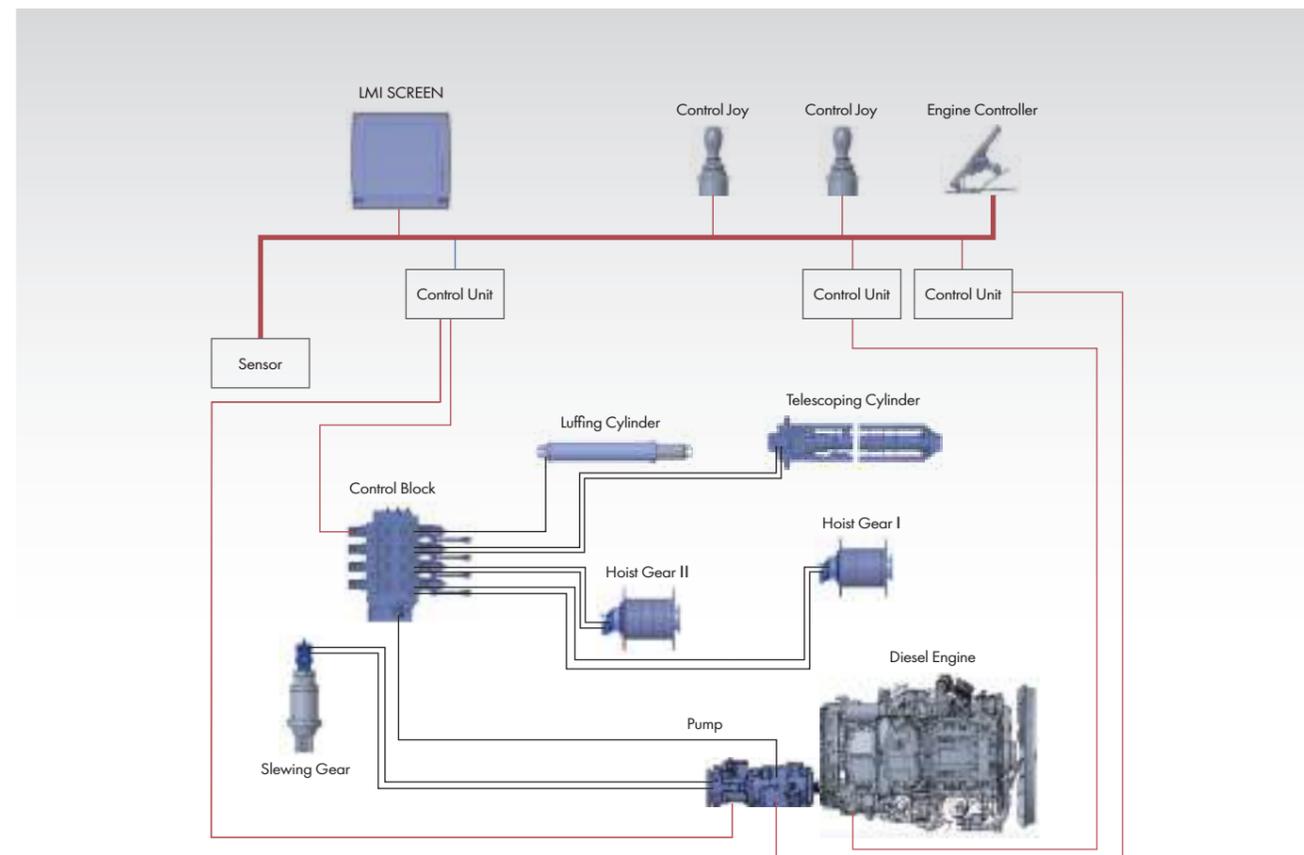
Chassis

Robust Chassis Built for Confident Mobility and Control
The SAT700A-3.1 features a dual-circuit steering system with emergency assist, delivering smooth, dependable handling in all operating conditions. The main steering system uses dual engine-driven hydraulic pumps to supply oil directly to the steering gear, ensuring precise and consistent maneuverability. In case of engine load fluctuations or failure, the emergency steering system—powered by a bidirectional piston pump on the transfer case—maintains steering responsiveness while traveling.

An electro-hydraulic assisted steering system with a load-sensing piston pump remains in standby mode for instant activation when additional steering support is needed, offering enhanced responsiveness in demanding terrain.

The electronically controlled suspension system adapts to driving conditions, with selectable modes for standard travel or on-road operation with counterweight loaded, locking the suspension for added stability.

Outrigger control is fully electronic, managing hydraulic extension and retraction with exceptional precision. With one touch auto leveling, the SAT700A-3.1 makes setup fast, accurate, and secure—even on uneven ground—reducing downtime and increasing operational confidence.

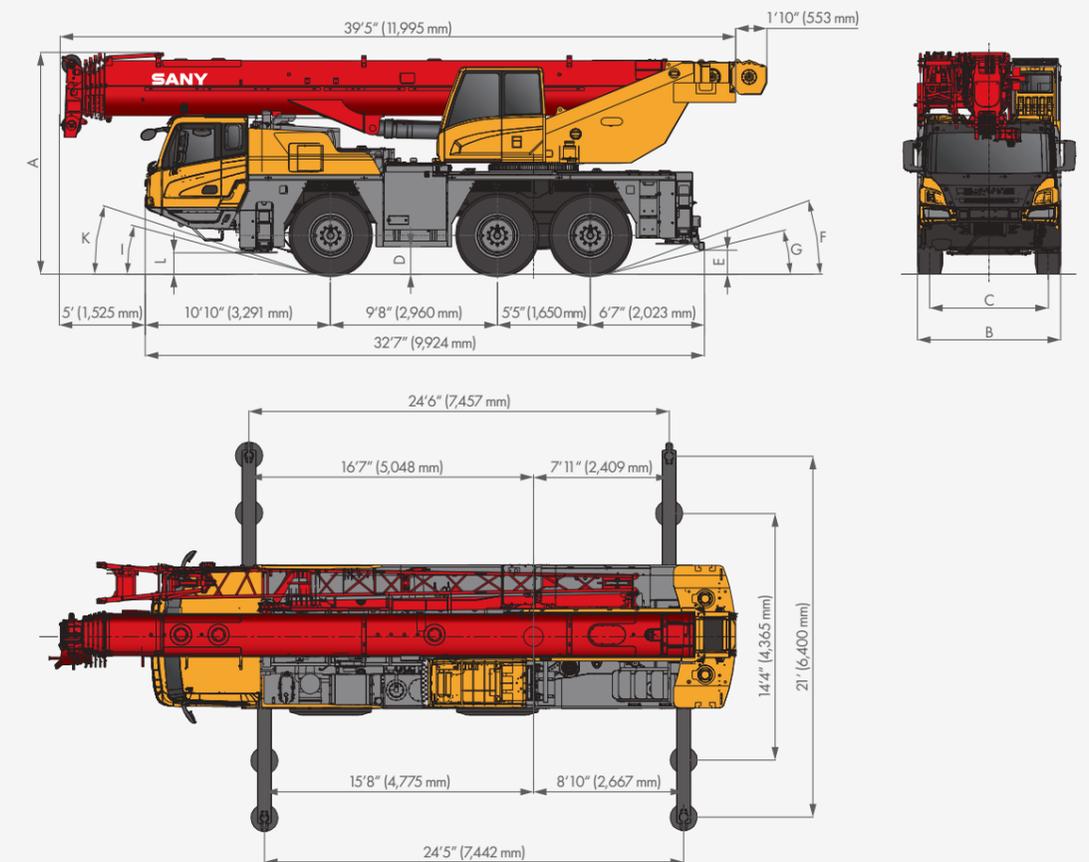


TECHNICAL SPECIFICATIONS ||| SAT700A-3.1

TRANSPORT, DIMENSIONS AND TECHNICAL SPECS

The SAT700A-3.1's technical specifications and strong load charts fit right in with the 70 US ton class in America. They were developed to perform at their peak especially for the American crane operator.

OVERALL DIMENSIONS



Tire size	A	A*	B	C	D	E	F	G	I	K	L
Unit	ft (mm)	ft (mm)	ft (mm)	ft (mm)	ft (mm)	ft (mm)	°	°	°	°	ft (mm)
385/95R25	12'9" (3,880)	12'5" (3,780)	8'4.5" (2,550)	7'1" (2,170)	1'5" (436)	1'2" (374)	18	12	13	15	1'1" (327)
445/95R25	12'11" (3,930)	12'7" (3,830)	8'4.5" (2,550)	6'11" (2,100)	1'7" (486)	1'5" (424)	20	14	15	18	1'2" (377)
525/95R25	13' 1" (3,980)	12'8.5" (3,873)	9'2" (2,800)	7'5.5" (2,275)	1'9" (529)	1'7" (467)	22	16	17	21	1'5" (427)

Remark:
A column is calculated when suspension is at middle level.
A* column is calculated when suspension is at lowest level.

TECHNICAL SPECIFICATIONS

CATEGORY	ITEM	UNIT	VALUE	
POWER	Engine model (Emission standard)	-	Cummins L9	
	Max. engine power	hp (kW)/rpm	3,647 (272)/2,100	
	Max. engine torque	Lb.ft (N·m)/rpm	1,324 (1,795)/1,400	
TRAVEL	Max.travel speed	mp/h (km/h)	50 (80)	
	Steering radius	Min.steering radius	ft (m)	21 (6.5)
		Min.steering radius of boom tip	ft (m)	32 (10)
	Wheel formula	-	6×4×6	
	Min.ground clearance	inch (mm)	14.8 (320)	
	Max.gradeability	-	60%	
	MAIN PERFORMANCE	Working temperature range	°F (°C)	-4→113 (-20→45)
Min.rated lifting radius		ft (m)	9.84 (3)	
Tail slewing radius		ft (m)	11.78 (3.59)	
Boom sections (Qty.)		-	6	
Boom shape		-	U shape	
Max.lifting moment		Basic boom	kN·m	1,861
		Full-extension boom	kN·m	966
		Full-extension boom+jib	kN·m	713
Boom length		Basic boom	ft (m)	35 (10.7)
		Full-extension boom	ft (m)	164 (50)
		Full-extension boom+jib	ft (m)	216 (66)
Max.lifting height		Basic boom	ft (m)	36 (11)
		Full-extension boom	ft (m)	165 (50.5)
		Full-extension boom+jib	ft (m)	218 (66.5)
Outrigger span (Longitudinal×Transverse)	ft (m)	24.4×21 (7.45×6.4)		
Jib offset/Hydraulic (optional)	°	0, 20, 40		
AIRCONDITIONER	In operator's cab	-	Heating & Cooling	
	In driver's cab	-	Heating & Cooling	

TECHNICAL PARAMETERS



Hook

Type	Load	Number of sheaves	Rope rate	Hook weight/lbs (kg)
139 Klb (63 t) ○	132 Klb (60 t)	7	14	1,020.7 (463)
110 Klb (50 t) ○	106 Klb (48.9 t)	5	11	895 (406)
71 Klb (32 t) ●	71 Klb (32 t)	3	7	712 (323)
35 Klb (16 t) ○	31 Klb (14.2 t)	1	3	474 (215)
14 Klb (6.3 t) ●	10.5 Klb (4.8 t)	-	1	238 (108)

● Standard ○ Optional



Operations

Item	Single rope speed	Rope diameter/length	Max. single line pull
Main winch	426 ft/min (130 m/min)	5/8 in (15 mm)/721 ft (220 m)	10.72 Klbf (47.7 kN)
Auxiliary winch	426 ft/min (130 m/min)	5/8 in (15 mm)/721 ft (220 m)	10.72 Klbf (47.7 kN)
Slewing		1.6 r/min	
Luffing		60 s/90 s	
Telescoping		350 s	
Outrigger jack	Retract	40 s	
	Extend	50 s	
Outrigger beam	Retract	40 s	
	Extend	50 s	

COUNTERWEIGHT COMBINATIONS

● Fixed counterweight
● Removable counterweight

Total weight	①	②	③	④	⑤	⑥
8.6 Klb (3.9 t)	●					
9.2 Klb (4.2 t)	●	●				
14.3 Klb (6.5 t)	●	●	●			
22 Klb (10 t)	●	●	●			●
28.6 Klb (13 t)	●	●	●	●	●	●

TRANSPORT DIMENSIONS

Unit: ft (mm)

8.6 Klb (3.9 t) **0.66 Klb (0.3 t)** **5 Klb (2.3 t)**

3.3 Klb (1.5 t) **3.3 Klb (1.5 t)** **7.7 Klb (3.5 t)**

13.8 Klb (6.3 t) hook block **71 Klb (32 t) hook block** **35 Klb (16 t) hook block** **110 Klb (50 t) hook block** **139 Klb (63 t) hook block**

Auxiliary jib (909 lbs) **Mechanical adjustable jib (2,460 lbs)** **Hydraulic adjustable jib (2,640 lbs)**

Auxiliary winch (1,473 lbs) **Tires (507 lbs)**

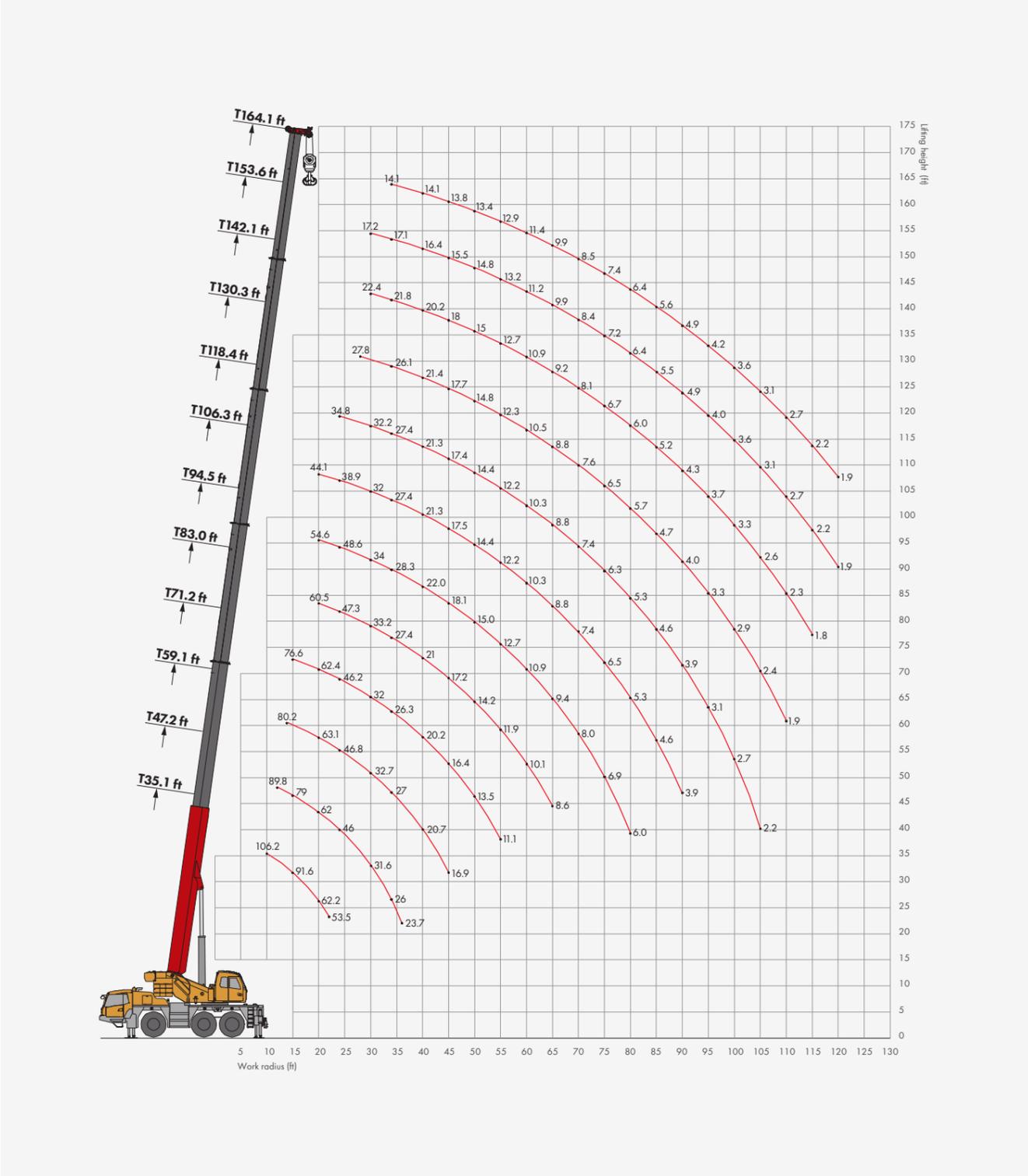
WORKING CONDITIONS & CODE DESCRIPTION

- T - Telescopic boom
- J - Fixed jib
- H - Hydraulically adjustable jib
- A - Auxiliary jib

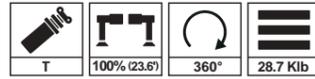


WORKING RANGE DIAGRAM – T

Lifting capacities in klb



LOAD CHARTS – T

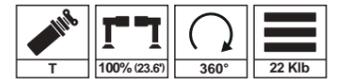


Unit: Imperial Klb

ft	35.1	35.1	47.2	58.7	70.2	82.4	93.8	105.6	117.5	129.3	141.4	153.6	164.1	ft
10	129.7*	106.2												10
11	116.7*	106.2												11
12	107.5*	106.2	89.8											12
13	102	102	85.7											13
14	97	97	82.3	80.2										14
15	91.6	91.6	79	77	76.6									15
16	84.5	84.5	75.9	74	73.4									16
17	78.3	78.3	72.6	71.3	70.6									17
18	72.8	72.8	69.2	68.7	68									18
19	67.3	67.3	65.7	66.2	65.5									19
20	62.2	62.2	62	63.1	62.4	60.5	54.6	44.1						20
22	53.5	53.5	53.3	55.1	53.6	53.7	52.6	41.4						22
24			47.7	48.4	46.6	49.2	48.6	38.9	34.8					24
26			41.6	42.3	42.7	43.1	42.5	36.6	34.3					26
28			37.2	37.9	38.7	38.7	38	34.3	33.4	27.8				28
30			33.2	34	34.9	34.7	34	32.7	32.2	27.5	22.4	17.2		30
32			30.1	30.8	31.8	31.6	31	31.1	29.8	26.9	22.1	17.2		32
34			27.2	28.6	29.1	29	28.7	29	28	26.1	21.8	17.1	14.1	34
36			24.4	26.6	26.6	26.6	26.8	26.6	27	25.1	21.4	17	14.1	36
38				24.5	24.7	24.4	25	24.5	25	23.2	20.8	16.7	14.1	38
40				22.6	22.9	22.5	23.3	23.2	23.1	21.7	20.2	16.4	14.1	40
45				18.9	19.1	18.8	19.5	19.8	19.5	18.9	18	15.5	13.8	45
50					16.1	15.7	16.4	16.8	16.8	16.6	16.1	14.8	13.4	50
55					13.6	13.6	14.2	14.4	14.4	14.2	13.6	13.2	12.9	55
60						12.3	12.3	12.5	12.5	12.1	11.8	11.2	11.4	60
65							11	10.6	11	11	10.6	10.3	9.9	65
70								9.3	9.5	9.6	9.2	9	8.4	70
75									8.5	8.5	8.5	8	7.8	75
80										7.7	7.5	7.5	7.1	80
85											6.7	6.7	6.3	85
90												6	6	90
95													5.3	95
100														100
105														105
110														110
115														115
120														120
125														125

Remark: rating with * indicates load over rear with additional sheaves.

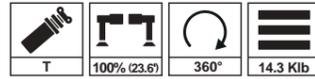
LOAD CHARTS – T



Unit: Imperial Klb

ft	35.1	47.2	58.7	70.2	82.4	93.8	105.6	117.5	129.3	141.4	153.6	164.1	ft
10	99.2												10
11	99.2												11
12	97.5	89.8											12
13	94	85.7											13
14	91.4	82.3	80										14
15	87.8	79	76.7	74.4									15
16	80.2	75.9	73.9	71.6									16
17	73.3	71.2	69.8	67.8									17
18	66.7	65.3	64.8	63.4									18
19	60.2	59.4	60.2	58.9									19
20	54.4	54.1	57.4	55.3	55.9	52.2	42.7						20
22	46.7	47.2	49.1	49.3	49	47.5	41						22
24		41.6	42.3	43.6	43.2	42.5	38.7	34.8					24
26		36.2	37.8	38.2	37.8	37.1	36	34.3					26
28		32.3	34	34.3	33.9	33.2	32.9	31.9	27.8				28
30		28.8	30.4	30.8	30.4	31	30.4	30.3	27.3	22.4	17.2		30
32		26	27.6	28	27.6	28.2	28	27.9	25.9	22.1	17.2		32
34		23.4	25.1	25.4	25.1	25.8	26.2	25.5	23.9	21.8	17.1	14.1	34
36		21.9	22.8	23	22.8	23.5	23.9	23.9	22.5	21.4	17	14.1	36
38			20.9	21.1	20.9	21.6	22	22	20.7	19.8	16.7	14.1	38
40			19.2	19.3	19.1	19.9	20.2	20.3	19.6	18.9	16.4	14.1	40
45			15.6	15.9	16.3	16.3	16.7	16.7	16.3	16	15.1	13.8	45
50				13.1	14	13.7	14	13.9	13.7	13.1	12.7	12.7	50
55				11.1	12	11.9	12	12	11.5	11.3	10.7	10.7	55
60					10.1	10.5	10.3	10.3	9.9	9.6	9	9	60
65					8.8	9.2	8.8	8.8	8.6	8.3	7.7	7.7	65
70						8	7.7	7.7	7.3	7.1	6.4	6.5	70
75						7.2	6.9	6.7	6.3	6.1	5.6	5.6	75
80						6.1	6	5.8	5.5	5.3	4.8	4.9	80
85							5.2	5.1	4.9	4.5	4	4.1	85
90							4.7	4.4	4.1	3.8	3.3	3.3	90
95								4	3.5	3.3	2.9	2.9	95
100									3.4	3.1	2.8	2.3	100
105										3.1	2.6	2.4	105
110											2.3	2	110

LOAD CHARTS – T



Unit: Imperial Klb

ft	35.1	47.2	58.7	70.2	82.4	93.8	105.6	117.5	129.3	141.4	153.6	164.1	ft
10	94.8												10
11	94.8												11
12	92.8	89.8											12
13	88.8	85.7											13
14	85.1	82.2	78.5										14
15	80.4	77.9	75.2	71.8									15
16	71.6	70.6	70.8	69.3									16
17	64.6	64.6	65.5	64.8									17
18	58.8	59.4	59.6	58.9									18
19	53	54.1	54.3	54.3									19
20	47.9	49.5	50.1	51.6	54.5	49.5	42.6						20
22	41	42.5	43.2	44.5	46.8	43.1	40.1						22
24		36.6	38.3	38.5	40.4	37.4	36.5	33.9					24
26		32	33.3	33.6	35.3	33.9	33.1	33.2					26
28		28.5	29.7	29.9	31.3	30.5	29.7	29.9	26.7				28
30		25.1	26.4	26.6	27.7	27.1	27.5	27	24.9	22.4	17.2		30
32		22.5	23.6	23.8	24.9	24.2	24.7	24.6	23.1	21.8	17.2		32
34		20.2	21.2	21.5	22.5	21.9	22.4	22.4	21.2	20.4	17.1	13.9	34
36		18.8	19.1	19.5	20.4	19.9	20.4	20.4	19.5	19.4	17	13.9	36
38			17.6	17.7	18.6	18.7	18.5	18.6	17.9	17.7	16.4	13.9	38
40			16.1	16.1	17	17.5	16.8	17	16.6	16.1	15.5	13.9	40
45			12.9	13.1	14.2	14.3	14.2	13.9	13.5	13.1	12.6	12.6	45
50				10.9	11.6	11.8	11.7	11.6	11.2	10.9	10.3	10.3	50
55				9.8	9.8	10.2	9.9	9.8	9.6	9.1	8.6	8.7	55
60					8.5	8.5	8.3	8.3	7.9	7.5	7	7	60
65					7.2	7.4	7.2	7.2	6.7	6.4	5.8	5.8	65
70						6.4	6.2	6	5.6	5.4	4.9	4.9	70
75							5.6	5.4	5.2	5	4.5	4.1	75
80								4.8	4.7	4.4	4.1	3.8	80
85									4	3.7	3.5	3.1	85
90										3.4	3.2	2.9	90
95											2.6	2.4	95
100												2	100
105													105

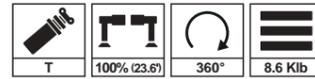
LOAD CHARTS – T



Unit: Imperial Klb

ft	35.1	47.2	58.7	70.2	82.4	93.8	105.6	117.5	129.3	141.4	153.6	164.1	ft
10	94.8												10
11	94.8												11
12	92.8	89.8											12
13	88.8	85.7											13
14	80.1	78.5	77.5										14
15	71.1	70.8	72.4	68.1									15
16	62.7	63.6	64.2	61.8									16
17	56.2	58	58.8	57.8									17
18	51.1	52.9	53.6	53.5									18
19	45.9	47.7	48.4	49.1									19
20	41.3	43.1	43.8	45.2	44.9	43.4	40.1						20
22	34.8	36.6	38.1	38.9	38.5	37.4	36.8						22
24		31.8	33	33.3	32.9	34	33	30.1					24
26		27	28.1	28.5	29.4	29.2	29.2	28.3					26
28		23.6	24.7	25	26.1	25.6	25.9	25.7	24				28
30		20.6	21.7	21.9	23	23.2	22.8	23	22.3	21.2	17.2		30
32		18.3	19.4	19.6	20.6	21	20.5	20.6	19.9	19.4	17.2		32
34		16.4	17.4	17.7	18.5	18.9	18.6	18.5	18.1	17.6	16.5	13.9	34
36		14.7	15.5	16.5	16.6	16.9	16.9	16.6	16.2	15.8	15.3	13.9	36
38			14.1	15.2	15.4	15.6	15.4	15.1	14.8	14.4	13.8	13.3	38
40			13	13.9	14.2	14.4	13.9	13.8	13.5	13.1	12.5	12.5	40
45			11	11.2	11.5	11.7	11.4	11.2	10.8	10.4	9.9	9.9	45
50				9.2	9.5	9.6	9.4	9.2	8.7	8.5	7.9	8	50
55				7.7	8.1	8	7.8	7.7	7.3	6.9	6.4	6.5	55
60					6.8	6.6	6.4	6.4	6	5.5	5.1	5.3	60
65					5.6	5.6	5.4	5.4	5	4.7	4.1	4.2	65
70						4.7	4.7	4.5	4	3.8	3.3	3.4	70
75							4.1	3.8	3.6	3.4	3.1	2.5	75
80								3.3	3.2	3.1	2.7	2.4	80
85									2.6	2.6	2.2	1.8	85
90										2.1	2.1	1.8	90
95											2		95

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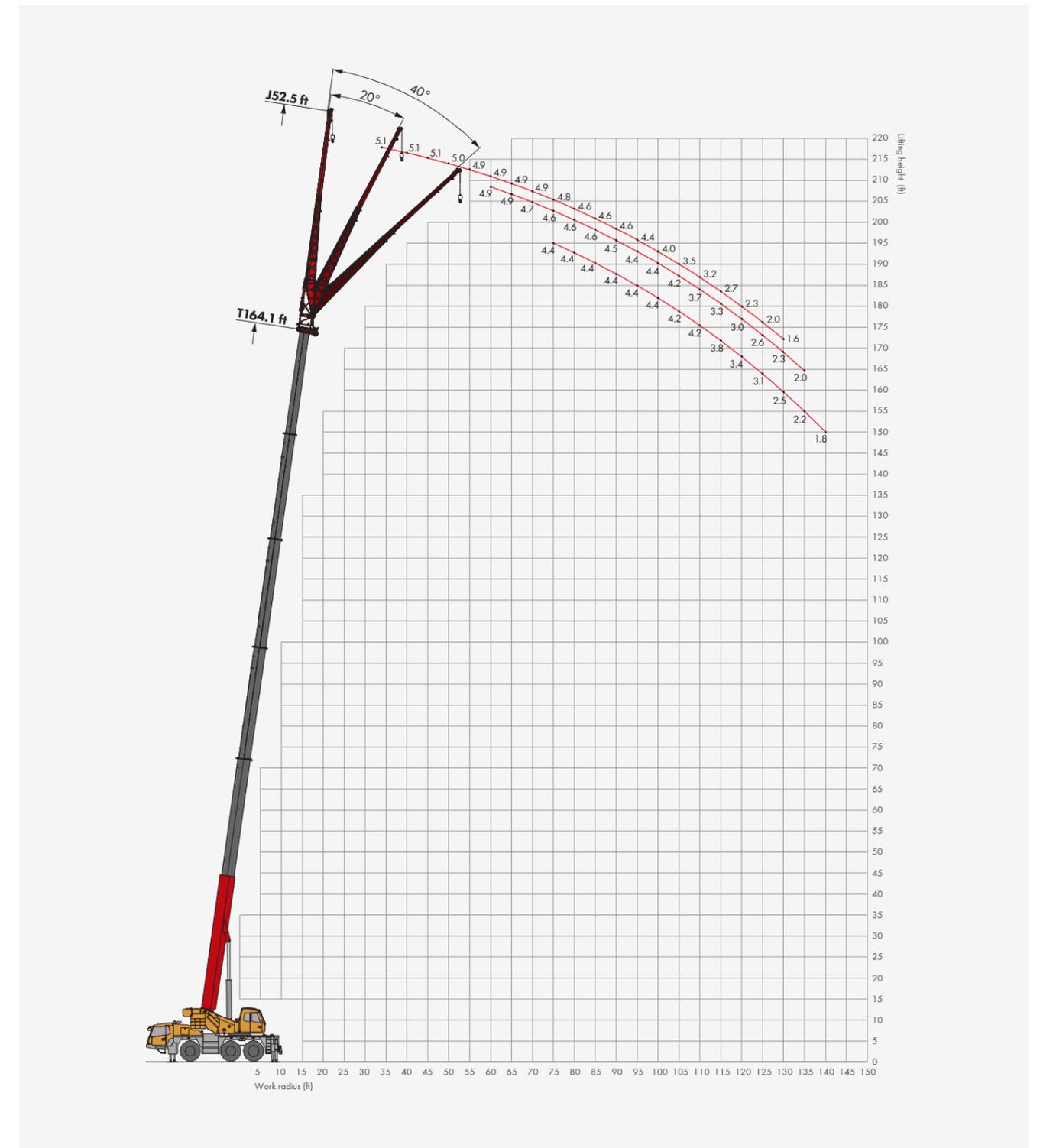


Unit: Imperial Klb

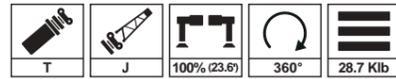
ft	35.1	47.2	58.7	70.2	82.4	93.8	105.6	117.5	129.3	141.4	153.6	164.1	ft
10	94												10
11	90.1												11
12	87.3	89.8											12
13	85.5	85.7											13
14	78	77.9	76.8										14
15	70	69.7	71.1	67.1									15
16	61.7	62.9	63.6	61									16
17	55.4	57.1	58	56.2									17
18	50.3	52	52.9	52.2									18
19	45.2	46.8	47.7	48.2									19
20	40.7	42.2	43.3	44.5	44.3	42.8	39.6						20
22	34.2	35.8	37.6	38.2	38	36.8	36.3						22
24		30.3	32.4	32.7	32.3	33.3	32.4	29.9					24
26		26.2	27.6	27.8	28.7	28.5	28.6	28.3					26
28		23.1	24.2	24.4	25.5	25.3	25.3	25.3	23.8				28
30		20.1	21.2	21.4	22.5	22.8	22.3	22.3	21.9	21.1	17.2		30
32		17.9	19	19.2	20.1	20.5	20.1	20.1	19.5	19.1	17.2		32
34		15.9	17	17.4	18.3	18.5	18.3	18.1	17.6	17.2	16.3	13.9	34
36		14.2	15.3	16.2	16.4	16.6	16.4	16.4	15.8	15.5	14.9	13.9	36
38			13.8	14.8	15	15.2	14.9	14.9	14.4	14	13.5	13.2	38
40			12.6	13.6	13.8	13.9	13.6	13.6	13.1	12.7	12.3	12.3	40
45			10.1	11	11.2	11.2	11	11	10.6	10.1	9.7	9.7	45
50				9	9.1	9.2	9	9	8.5	8.3	7.6	7.9	50
55				7.4	7.7	7.7	7.7	7.5	7	6.6	6.2	6.2	55
60					6.4	6.4	6.3	6.1	5.8	5.5	5	5	60
65					5.4	5.4	5.3	5.2	4.7	4.5	4.1	3.8	65
70						4.7	4.5	4.3	4	3.6	3.2	3.2	70
75						4	3.6	3.6	3.2	3	2.5	2.5	75
80						3.2	3.1	2.9	2.7	2.2	1.8	1.9	80
85							2.6	2.4	2	1.8			85
90							2.1	2	1.7				90
95								2					95

WORK RANGE DIAGRAM – TJ

Lifting capacities in klb



LOAD CHARTS – TJ



Unit: Imperial Klb / Imperial Inch

ft Klb	142.1 ft + 30.2 ft			153.6 ft + 30.2 ft			164.1 ft + 30.2 ft			ft Klb
	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	11.7									28
30	11.7									30
32	11.7									32
34	11.7									34
36	11.7									36
38	11.7									38
40	11.7	9.6		8.6	8.8		7.5			40
45	11.5	9.6		8.6	8.6		7.5			45
50	11.2	9.6	9.6	8.5	8.5		7.5	7.5		50
55	10.8	9.6	9.4	8.3	8.2	7.8	7.4	7.4	7.2	55
60	10.5	9.6	9.3	8.2	7.9	7.6	7.3	7.3	7.1	60
65	10	9.4	9	7.9	7.7	7.3	7.1	7.1	6.8	65
70	9	9	8.7	7.6	7.6	7.2	6.9	6.8	6.7	70
75	8	8.4	8.4	7.2	7.3	7	6.6	6.5	6.5	75
80	7.1	7.7	8	6.6	6.9	6.8	6.3	6.4	6.4	80
85	6.3	6.9	7.2	5.8	6.2	6.6	5.7	6.2	6.2	85
90	5.6	6	6.5	5.1	5.6	6	5.1	5.6	5.8	90
95	5	5.4	5.8	4.5	4.9	5.3	4.5	4.8	5.3	95
100	4.4	4.9	5	3.8	4.2	4.7	3.8	4.1	4.7	100
105	3.7	4.2	4.2	3.3	3.7	4	3.3	3.7	4	105
110	3.2	3.7	3.8	2.8	3.2	3.5	2.8	3.2	3.5	110
115	2.8	3.2	3.4	2.4	2.7	3.1	2.4	2.7	3.1	115
120	2.5	2.8		2.1	2.3	2.7	2.1	2.3	2.7	120
125	2.2	2.6			2.2	2.2		2	2.2	125
130	1.9	2.1			1.6	1.9		1.6	1.9	130
135	1.6	1.9								135
140										140

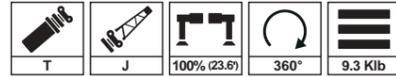
LOAD CHARTS – TJ



Unit: Imperial Klb / Imperial Inch

ft Klb	130.3 ft + 52.5 ft			142.1 ft + 52.5 ft			153.6 ft + 52.5 ft			164.1 ft + 52.5 ft			ft Klb
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	7.6			6.6									28
30	7.5			6.6			5.7						30
32	7.5			6.6			5.7						32
34	7.5			6.6			5.7			5.1			34
36	7.4			6.6			5.7			5.1			36
38	7.3			6.6			5.7			5.1			38
40	7.3			6.6			5.7			5.1			40
45	7.1			6.4			5.7			5.1			45
50	7.1	6.2		6.4	5.8		5.6			5			50
55	7	6.1		6.3	5.6		5.5	5.2		4.9			55
60	6.8	6	5.1	6.2	5.5		5.5	5.1		4.9	4.9		60
65	6.6	5.7	5.1	6	5.5		5.5	5.1		4.9	4.9		65
70	6.5	5.6	5	6	5.4	4.9	5.4	5	4.6	4.9	4.7		70
75	6.3	5.4	4.9	5.9	5.2	4.9	5.3	4.9	4.6	4.8	4.6	4.4	75
80	6.1	5.3	4.9	5.7	5.1	4.8	5.3	4.9	4.6	4.6	4.6	4.4	80
85	5.7	5.3	4.9	5.5	5.1	4.6	5.1	4.9	4.6	4.6	4.6	4.4	85
90	5.1	5.2	4.7	5.5	5	4.6	5.1	4.7	4.6	4.6	4.5	4.4	90
95	4.5	5	4.6	5.2	4.9	4.6	4.8	4.6	4.5	4.4	4.4	4.4	95
100	3.8	4.7	4.6	4.7	4.9	4.6	4.2	4.6	4.4	4	4.4	4.4	100
105	3.3	4	4.6	4	4.9	4.6	3.5	4.4	4.4	3.5	4.2	4.2	105
110	3	3.6	3.9	3.6	4.2	4.6	3.2	3.9	4.2	3.2	3.7	4.2	110
115	2.5	3.2	3.5	3.2	3.7	4.1	2.7	3.4	3.8	2.7	3.3	3.8	115
120	2.1	2.7	3.1	2.8	3.4	3.6	2.3	3	3.4	2.3	3	3.4	120
125		2.2	2.6	2.6	3.1	3.3	2.2	2.6	3.1	2	2.6	3.1	125
130		1.9	2.3	2.3	2.5	3	1.6	2.3	2.5	1.6	2.3	2.5	130
135		1.6		2	2.2	2.6		2	2.2		2	2.2	135
140					1.9	2.3			1.8			1.8	140

LOAD CHARTS – TJ



Unit: Imperial Klb / Imperial Inch

ft Klb	142.1 ft + 30.2 ft			153.6 ft + 30.2 ft			164.1 ft + 30.2 ft			ft Klb
	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	11.7									28
30	11.7									30
32	11.7									32
34	11.7									34
36	11.7									36
38	11.7									38
40	11.6	9.6		8.6	8.8		7.5			40
45	10.6	9.6		8.6	8.6		7.5			45
50	8.7	9.5	9.6	7.8	8.5		7.4	7.5		50
55	7.1	8	8.8	6.6	7.6	7.7	6.6	7.1	7.2	55
60	6	6.6	7.5	5.3	6.2	7.1	5.3	6.2	6.9	60
65	5	5.6	6.3	4.3	5.2	5.8	4.3	5.2	5.8	65
70	4.1	4.8	5.3	3.5	4.2	4.8	3.5	4.4	4.8	70
75	3.4	4	4.4	2.8	3.4	4	2.8	3.5	3.9	75
80	2.8	3.3	3.6	2.3	2.9	3.3	2.2	2.8	3.2	80
85	2.2	2.6	3.1	1.8	2.2	2.6	1.5	2.2	2.6	85
90	1.7	2.2	2.6		1.7	2.2		1.7	2.2	90
95			2.1							95
100										100
105										105
110										110

LOAD CHARTS – TJ

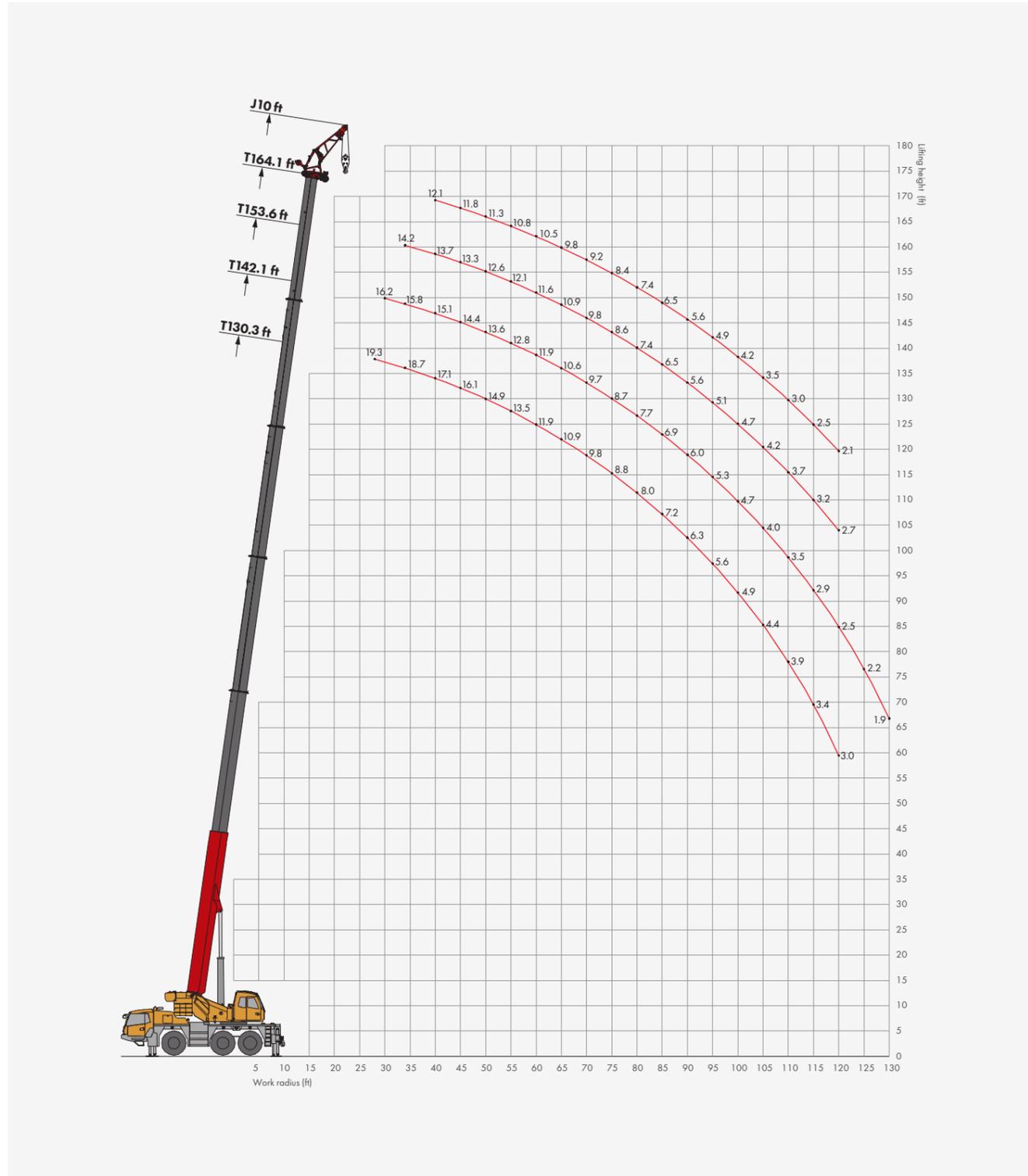


Unit: Imperial Klb / Imperial Inch

ft Klb	130.3 ft + 52.5 ft			142.1 ft + 52.5 ft			153.6 ft + 52.5 ft			164.1 ft + 52.5 ft			ft Klb
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
28	7.6			6.6									28
30	7.5			6.6			5.7						30
32	7.5			6.6			5.7						32
34	7.5			6.6			5.7			5.1			34
36	7.4			6.6			5.7			5.1			36
38	7.3			6.6			5.7			5.1			38
40	7.3			6.6			5.7			5.1			40
45	7.1			6.4			5.7			5.1			45
50	7.1	6.2		6.4	5.8		5.6			5			50
55	6.6	6.1		6.3	5.6		5.5	5.2		4.9			55
60	5.5	6	5.1	6	5.5		5.4	5.1		4.9	4.9		60
65	4.3	5.7	5.1	5.2	5.5		4.7	5.1		4.6	4.9		65
70	3.6	4.8	5	4.4	5.4	4.9	3.9	5	4.6	3.9	4.7		70
75	2.9	4	4.7	3.6	4.8	4.9	3.1	4.4	4.6	3.1	4.1	4.4	75
80	2.3	3.3	4.2	3	4	4.8	2.5	3.5	4.4	2.5	3.4	4.3	80
85	1.8	2.6	3.5	2.4	3.3	4.2	2	2.9	3.7	2	2.9	3.7	85
90		2.2	2.9	2	2.8	3.6		2.4	3.3		2.4	3.1	90
95			2.3		2.3	3		2	2.8		1.9	2.6	95
100			1.9		1.9	2.5			2.3			2.1	100
105			1.5		1.5	2			1.8			1.8	105
110						1.6							110

WORKING RANGE DIAGRAM – TA

Lifting capacities in klb



LOAD CHARTS – TA

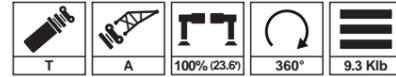


Unit: Imperial Klb / Imperial Inch

ft	129.3	141.4	153.6	164.1	ft
28	19.3				28
30	19.3	16.2			30
32	19.1	16			32
34	18.7	15.8	14.2		34
36	18.1	15.6	14		36
38	17.6	15.3	13.8		38
40	17.1	15.1	13.7	12.1	40
45	16.1	14.4	13.3	11.8	45
50	14.9	13.6	12.6	11.3	50
55	13.5	12.8	12.1	10.8	55
60	11.9	11.9	11.6	10.5	60
65	10.9	10.6	10.9	9.8	65
70	9.8	9.7	9.8	9.2	70
75	8.8	8.7	8.6	8.4	75
80	8	7.7	7.4	7.4	80
85	7.2	6.9	6.5	6.5	85
90	6.3	6	5.6	5.6	90
95	5.6	5.3	5.1	4.9	95
100	4.9	4.7	4.7	4.2	100
105	4.4	4	4.2	3.5	105
110	3.9	3.5	3.7	3	110
115	3.4	2.9	3.2	2.5	115
120	3	2.5	2.7	2.1	120
125		2.2			125
130		1.9			130

LOAD CHARTS – TA

Unit: Imperial Klb / Imperial Inch



ft	129.3	141.4	153.6	164.1	ft
28	19.3				28
30	19.3	16.2			30
32	19.1	16			32
34	18.5	15.8	14.2		34
36	17.8	15.6	14		36
38	17	15.3	13.8		38
40	16.1	14.9	13.5	12	40
45	12.9	12.4	11.8	11.6	45
50	10.6	10.3	9.7	9.7	50
55	8.7	8.5	7.8	7.8	55
60	7.3	6.9	6.4	6.4	60
65	5.9	5.6	5.1	5.1	65
70	5	4.6	4.1	4	70
75	4.1	3.7	3.2	3.1	75
80	3.3	2.9	2.4	2.4	80
85	2.6	2.2	1.8	1.8	85
90	2.2	1.7			90
95					95
100					100
105					105
110					110
115					115
120					120
125					125
130					130

CRANE INTRODUCTION

Carrier

- Frame**
 - Box-type welded structure using high strength steel plate, higher bearing capacity.
- Outrigger**
 - H-type layout, with hydraulic cylinder, auto-levelling.
- Engine**
 - Cummins L9 diesel engine, complying with EU Stage V emission standard.
 - Fuel reservoir capacity: 105.67gal (400L).
- Transmission**
 - Allison auto-transmission, 6 forward gears and 1 reverse gears, large speed ratio range, high torque output.
- Axles**
 - All wheel steering. Planetary transmission with differential lock. Driven by axles 2 and 3 (standard equipment).
 - Axle 1 steered mechanically with hydraulic booster, axles 2 and 3 steered electro-hydraulically. Easier and better maneuverability.
- Suspension**
 - Hydro-pneumatic suspension with hydraulic lock, range ± 0.328 ft (± 100 mm) in height. Smooth driving, anti-tipping.
- Tires**
 - Size 445/95R25 (standard equipment), radial tires.
- Brakes**
 - All-wheel air brakes. Dual circuit disc service brake, optional eddy-current retarder available for prolonged life of brakes.
- Control system**
 - CAN-BUS communication, 24V DC, two battery sets (180Ah each), manual power-switch.
 - Low energy cost (5w) integrated display system, LCD screen.

Superstructure

- Operator's cab**
 - Corrosion resistant bodywork of ergonomic design including softened interior trim and adjustable seat.
- Boom**
 - U-shape welded structure using high strength steel, single cylinder pin mechanism. 2-stage folding jib offset at 0°, 20°, 40°.
- Slewing**
 - Slewing platform designed by SANY, 360° slewing. Electro-proportional closed type hydraulics for smooth operation and better inching motion performance.
- Hydraulics**
 - DANFOSS PVG main valve, higher efficiency for single motion and better maneuverability for combined motions.
 - Auto adjustable oil pump with higher power use ratio and less energy cost. Variable plunger pump featuring load sensing and constant power control.
- Hoist**
 - Main and auxiliary winch wire ropes are 0.05 ft (15 mm) in diameter and 721 ft (220 m) in length.
- Luffing**
 - Passive luffing down with dynamic compensation. Boom angle: -2°~82°.
- Safety equipment**
 - Self-developed LMI.
 - Hydraulic balance valve, relief valve.
 - Third wrap indicator, A2B switch.
 - Anemometer at boom tip.
- Counterweight**
 - 28.6 Klb (13 t) counterweight.
- Optional equipment at extra fees**
 - 138 Klb (63 t) / 110 Klb (50 t) hook blocks.
 - Auxiliary winch.
 - Auxiliary jib.
 - 6×6 drive mode.
 - Tires size 385/95R25.
 - 52.5 ft (16m) hydraulic luffing arm.
 - Customized painting.
 - Other equipment available upon request.

SANY



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

*Warranty applies to 2025 Crane models only.

SANY America Inc.
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| T | 470-552-SANY
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In the interest of continual equipment development, SANY America Inc. reserves the right to change these specifications at any time without prior notification.

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