SANY

SRA1200A

ROUGH TERRAIN CRANE

- 120 USt (110 Mt)
- 183.7 ft (56 m)
- 250 ft (76.2 m)

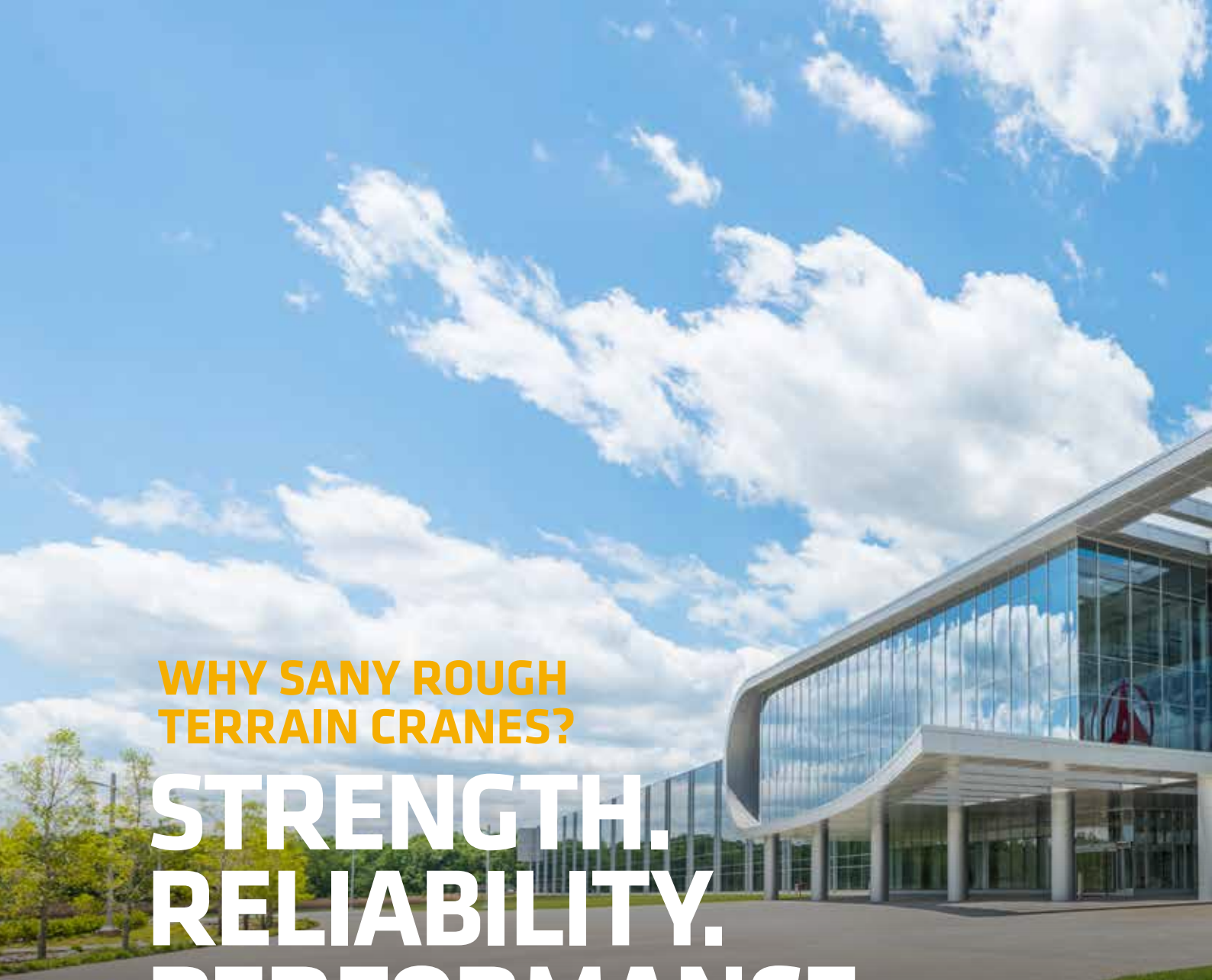
FULLY LOADED IS THE NEW STANDARD

Best LMI in the Industy

Operator Friendly

Tier 1 Components

Backed by SANY's 3-Year/3,000-Hour Standard Warranty



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.

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

*Warranty applies to 2023 Crane models only.

PROUDLY MADE FOR AMERICA

MODEL
SRA1200A

MAX CAPACITY
120 USt

BOOM LENGTH
183.7'

JIB LENGTH
34.4' - 59.1'

MAX TIP HEIGHT
250'

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 300 American employees, to our growing dealer network that stretches from Maine to Washington, SANY America is dedicated to building business across America. Our industry-leading warranty is proof of SANY's durability. Through our local service network SANY proudly shows 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.


SANY

SANY's 120 USton rough terrain crane with six-section 183.7-foot pinning boom, features strong capacity with reduced self-weight.

SRA1200A

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 operators 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

PERFORMANCE

With a long boom, strong winches, and strong charts that are best in their class, we made sure operators have what they need to work at peak performance all day long.

COMFORT

The roomy, temperature-controlled cabs have intuitive controls and high visibility. They are designed to keep operators comfortable, alert and engaged.

POWER

Cummins engines, robust and reliable powertrains, and trusted hydraulic components round up the power trifecta.

CONTROL

From high visibility of the jobsite and controls that are designed to be ergonomic and easy to use to an advanced LMI system that gives them critical information without having to dig through menus, operators have everything they need right in front of them to maintain control of the work and the site.

STRENGTH

SANY's heavy-duty body, outriggers and counterweight keep the crane stable when the greatest strength and rigidity is needed.

INDUSTRY-LEADING WARRANTIES

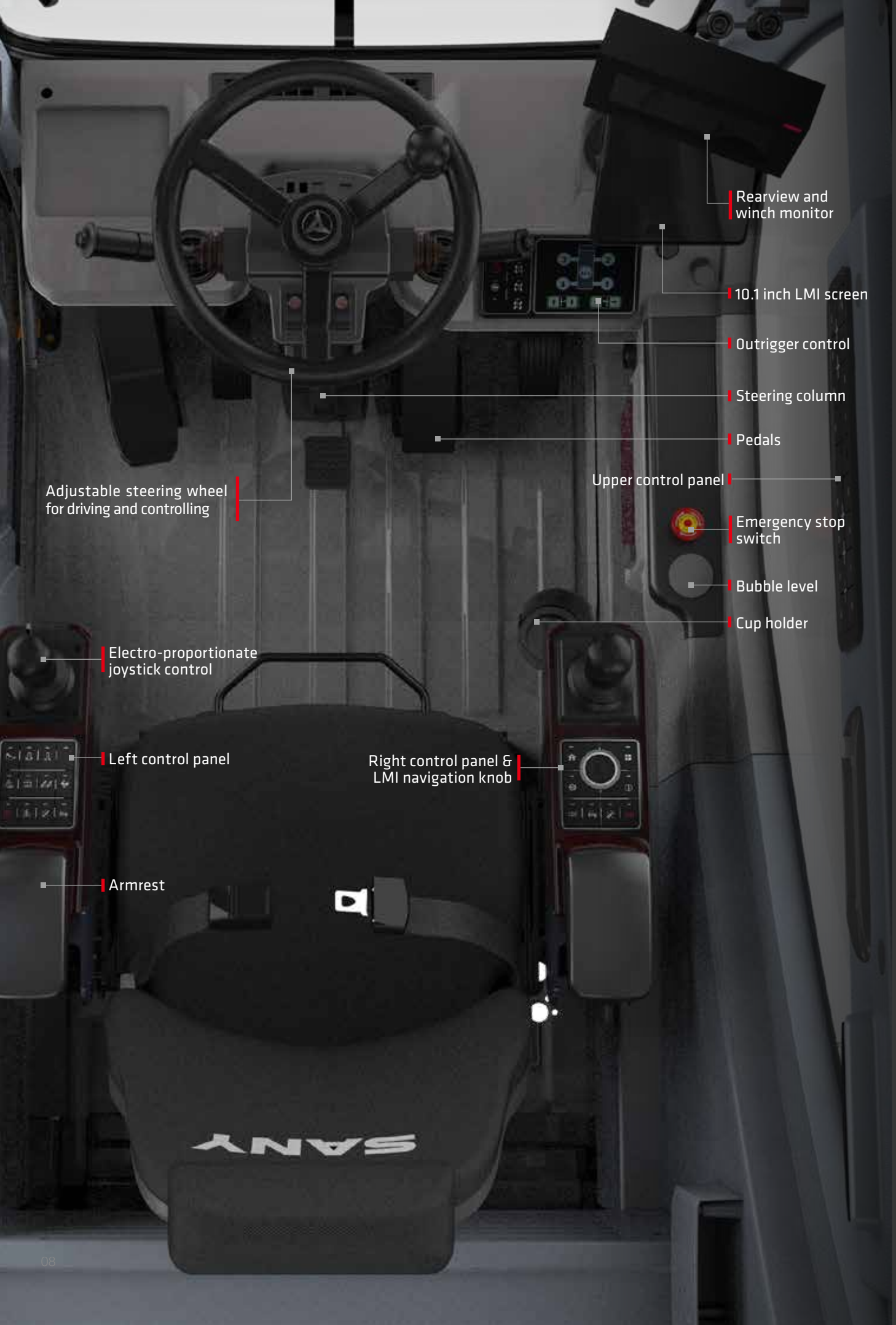
To provide peace of mind and ensure maximum uptime, SANY America's rough terrain cranes are backed by a 3-year/3,000-hour industry-leading standard warranty.

SUPPORT

SANY's crane dealer network is growing as we seek to provide dealerships across America for local service and maintenance. Including in-house support, parts, and field technicians.

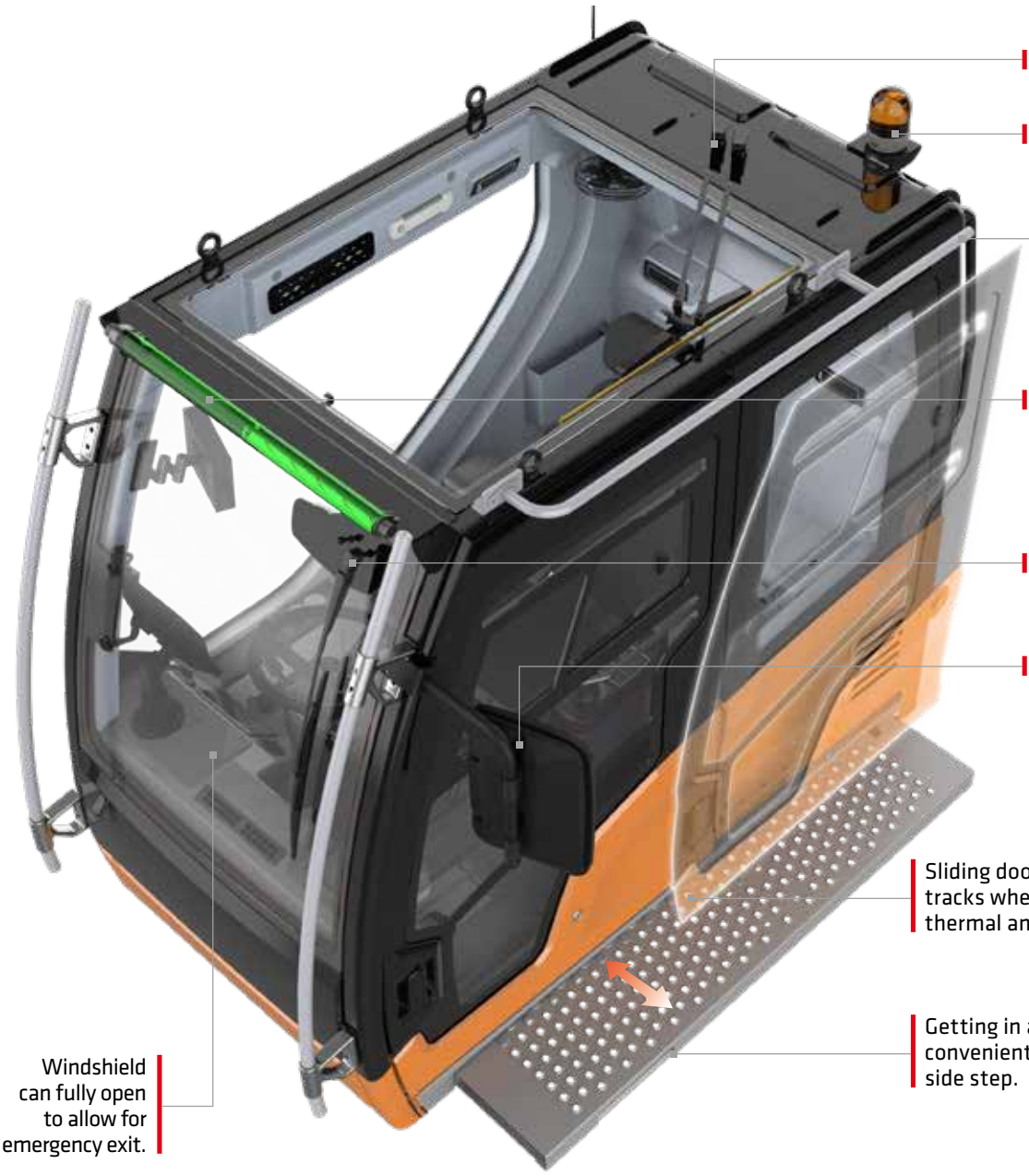
COMPONENT BRANDS

Cummins
DANA
KESSLER+CO
Rexroth Bosch Group
ROPEBLOCK


Rearview and winch monitor
10.1 inch LMI screen
Outrigger control
Steering column
Pedals
Upper control panel
Adjustable steering wheel for driving and controlling
Emergency stop switch
Bubble level
Cup holder
Electro-proportionate joystick control
Left control panel
Right control panel & LMI navigation knob
Armrest
SANY

THE SMOOTH, PRECISE CONTROL COMES STANDARD

Inside and out, this cab has been designed to improve the operator experience. The temperature is controlled so operators are always comfortable working throughout the day with enough space to move. Ergonomic, modular and highly efficient controls are well placed. With the use of icons, buttons on the control panels are easy to understand. The controls have good feedback and movement is precise. The LMI in this crane is something SANY is particularly proud of and we think it's the best in the industry—it's unquestionably the most operator-friendly.



Safety & Reliability | **Comfort & Convenience** | **Simplicity & Efficiency**

THE MOST MODERN & OPERATOR-FRIENDLY LMI IN THE INDUSTRY

Multi-functional touchscreen
The large 10.1 inch HD touchscreen display incorporates crane setup, working conditions, working period, virtual wall, and diagnostics with an additional navigation knob for convenience.

Precise Load Moment Indicator (LMI)
SANY's LMI exceeds load accuracy standards.

More pictorial, less menus
LMI navigation just went to the next level. No need to dig through archaic looking menus trying to find critical information or functionality. No language barriers here, because there's rarely a need for language at all. The LMI is very pictorial which allows operators to easily get to the information they need typically in less than three clicks.

Main Dashboard

Virtual Wall

Outrigger Configuration

Boom Attachment Configuration

Accessories

Information/Diagnostics

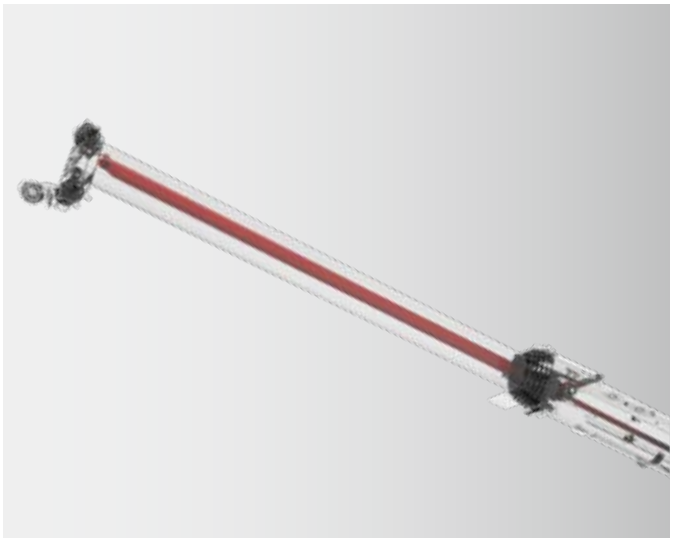
Outstanding screen clarity
Operators have a crisp, clear viewing screen at all times. It's well lit and low glare which makes navigating this LMI even easier any time of day.

True on-board diagnostics
These advanced diagnostics can even solve an issue down to the wire number. Having critical diagnostic data when you need it means technicians save time problem solving and move right to the solution.

Adjustable steering wheel for driving and controlling, modular control panels, and smart user interface deliver intuitive and highly efficient control.

HYDRAULIC SYSTEM

The SRA1200A has a six section, pinning telescopic boom. The boom extends and retracts sequentially by single cylinder with pin interlocking.



Superstructure

The SRA1200A has an open-type electronically controlled load-sensing system and dynamic swing brake system.

With the dynamic swing brake, the crane can realize precise control of the swing speed.

The electro-proportional, compensated, passive luffing-down system is applied to control the luffing speed, making luffing more reliable and stable.

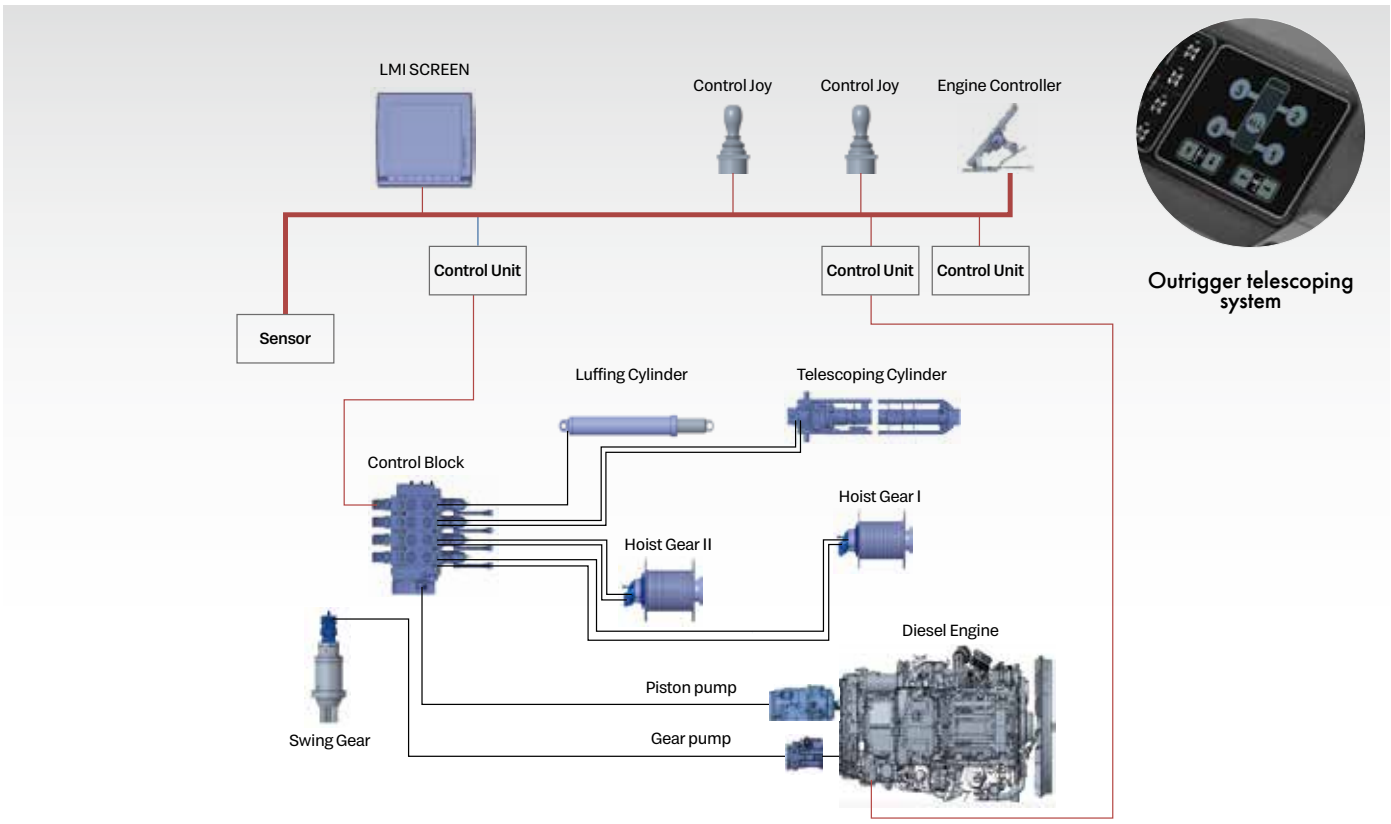
Ensuring easy operation, it has an electronically controlled load-sensing hydraulic system, electronic joystick and electronic throttle.

Chassis steering system

A gear pump is installed to supply oil for hydraulic steering. The steering pressure is controlled by an electro-proportional relief valve. The four steering modes are controlled by multiple solenoid directional valves.

Outrigger telescoping system

This user friendly system with a single finger control pad has built-in outrigger position sensing with and real time position on the LMI screen. The electro proportional relief valve identifies pressure staging of outrigger telescoping, satisfying operation requirements under high pressure and forming protection under limited pressure.



Outrigger telescoping system

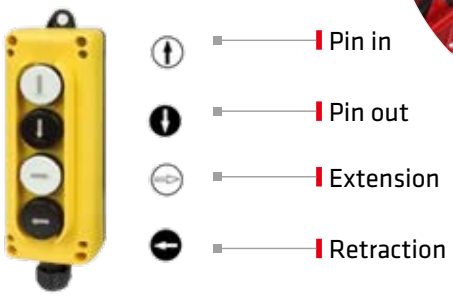
SYSTEMS, FEATURES & TRUSTED COMPONENTS

The smooth operation and reliability of our cranes is in part due to the seemless design integration of our different component systems. We followed that up with on-baord diagnostics to show electrical inputs/outputs, hydraulic pressure readings, and multiple CAN-BUS modules for problem isolation.

JIB SETUP VIA REMOTE CONTROL

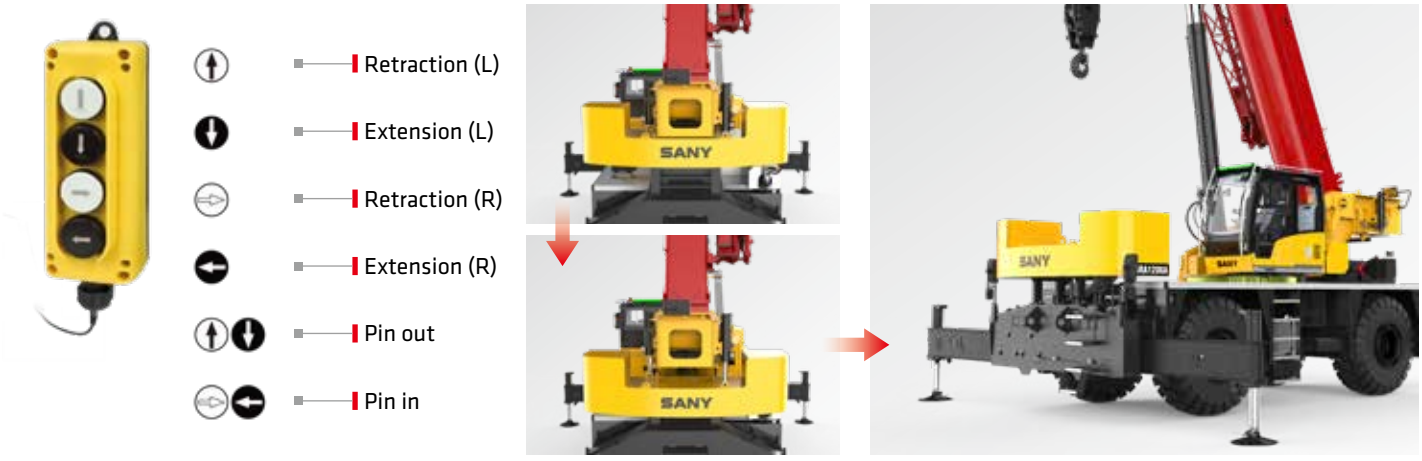
Hydraulic power assisted jib deployment can be handled by one person with the use of remote controller.

The fly jib gives the crane an extra tip height of 250 feet.



Remote controller

The counterweight is mounted and dismounted by two asymmetrically placed cylinders via remote control, ensuring the center of gravity rearward located to increase work stability.



ELECTRICAL SYSTEM

Smart CAN-BUS communication system

International advanced CAN-BUS data communication network applied for display, instrument panel, I/O module, joysticks and main sensors, allowing for high-speed data transmission and quick response in less than 20ms.

Cabling

Centralized electric cabinet and heavy-duty connector applied for cabling of superstructure, convenient for maintenance; IP rating up to 67, ensuring high reliability.

Cameras

Winch cameras equipped for monitoring its working condition, as well as a backup camera and right side swing camera.

Centralized electric cabinet

Anti-two-block limit switch

Third wrap indicator

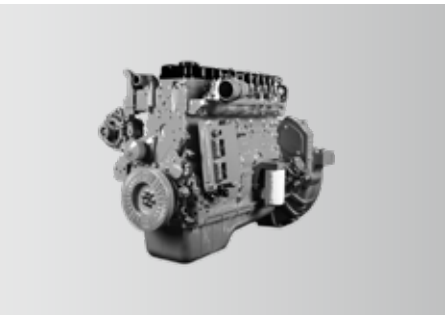
Cable reel

Anemometer

CARRIER FRAME

Inverted trapezoidal variable cross section frame is 5% less in weight and 10% stronger in rigidity.

POWER TRAIN



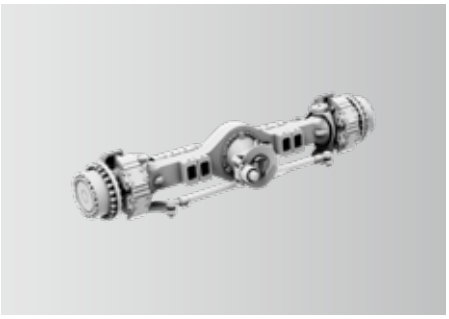
Engine

Power comes from a Cummins B6.7 inline six-cylinder water-cooled, turbocharged and intercooled off-highway diesel engine, complying with Stage V emission standards.

Rated power: 280 hp/2,200 rpm
Max. torque: 950 lb·ft/1,500 rpm

Transmission

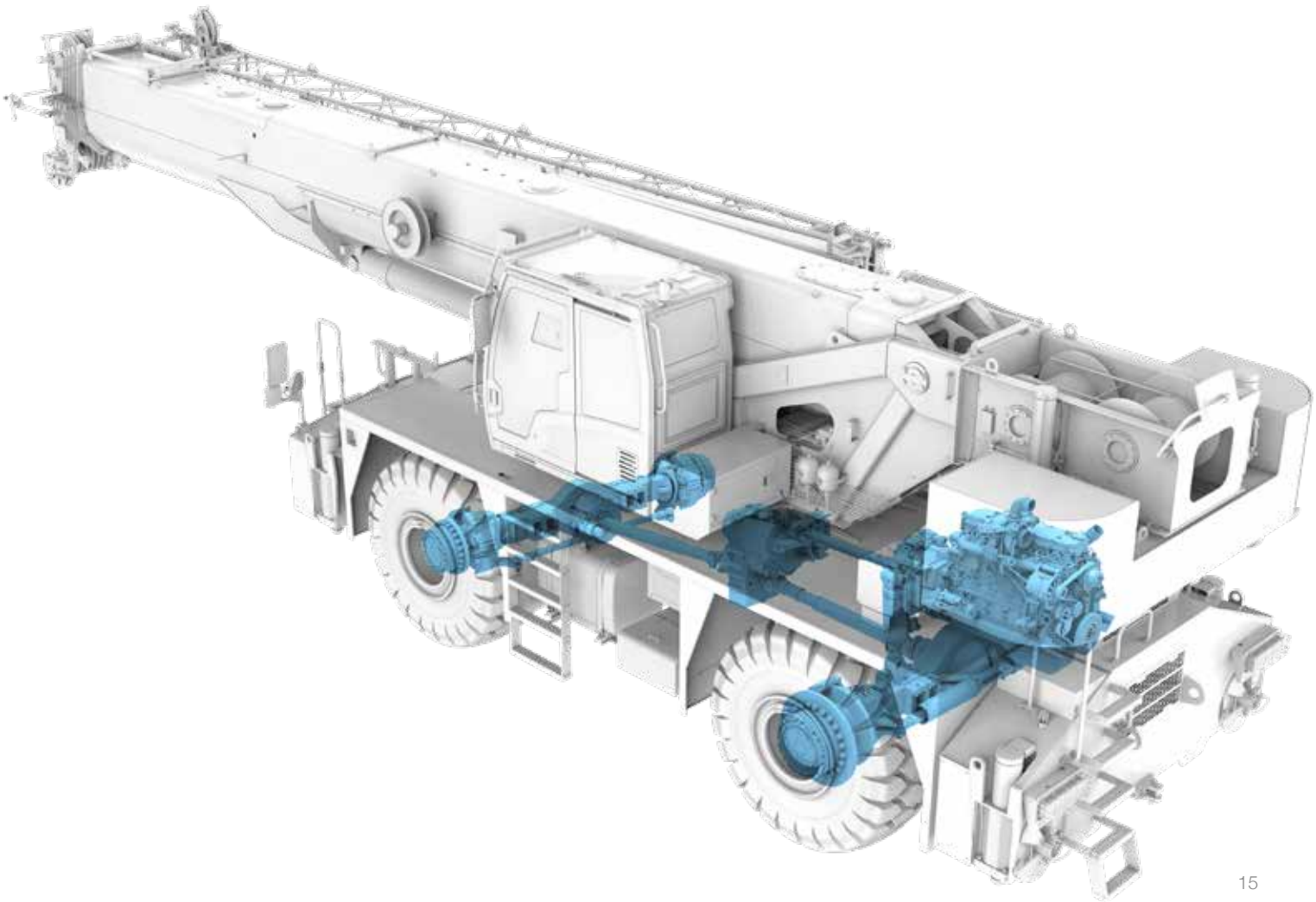
Dana electronically controlled automatic transmission features 6 speeds forward and 6 speeds reverse, wide ratio range, and smooth gearshift.



Axle and suspension

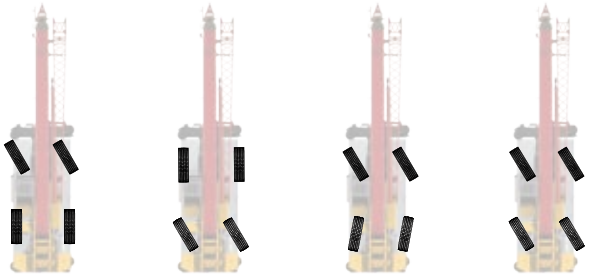
Both Kessler axles are driven and steered. The front axle is rigid mounted to the carrier frame and the rear adopts oscillation cylinders with hydraulic lockout.

Driving comfort and lateral stability is therefore guaranteed on rough terrains.



CONVENIENT TRANSPORT

Four steering modes:

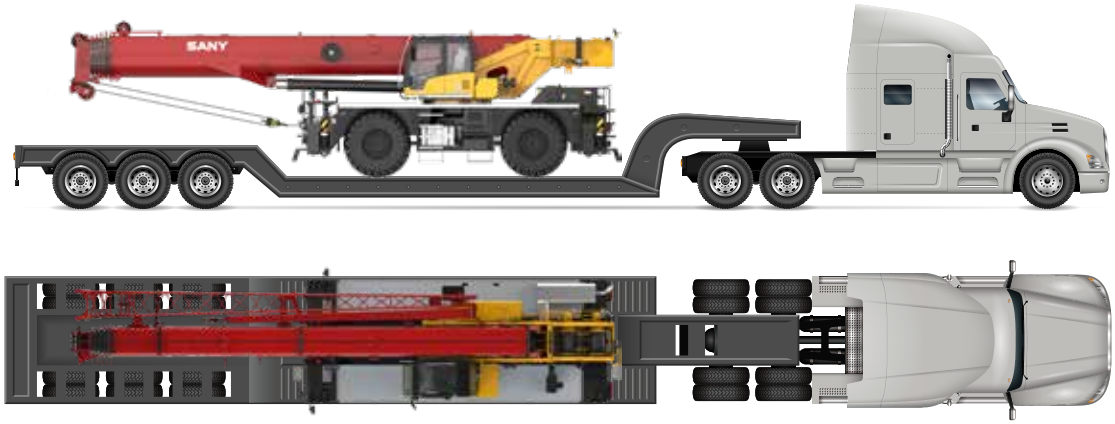


2 wheel front
2 wheel rear
4 wheel
Crab

Steering control panel

One-Trailer Transport

Base unit transports under 100,000 lbs minus counterweight.
Overall transport height 12.6 ft, width 10.96 ft.

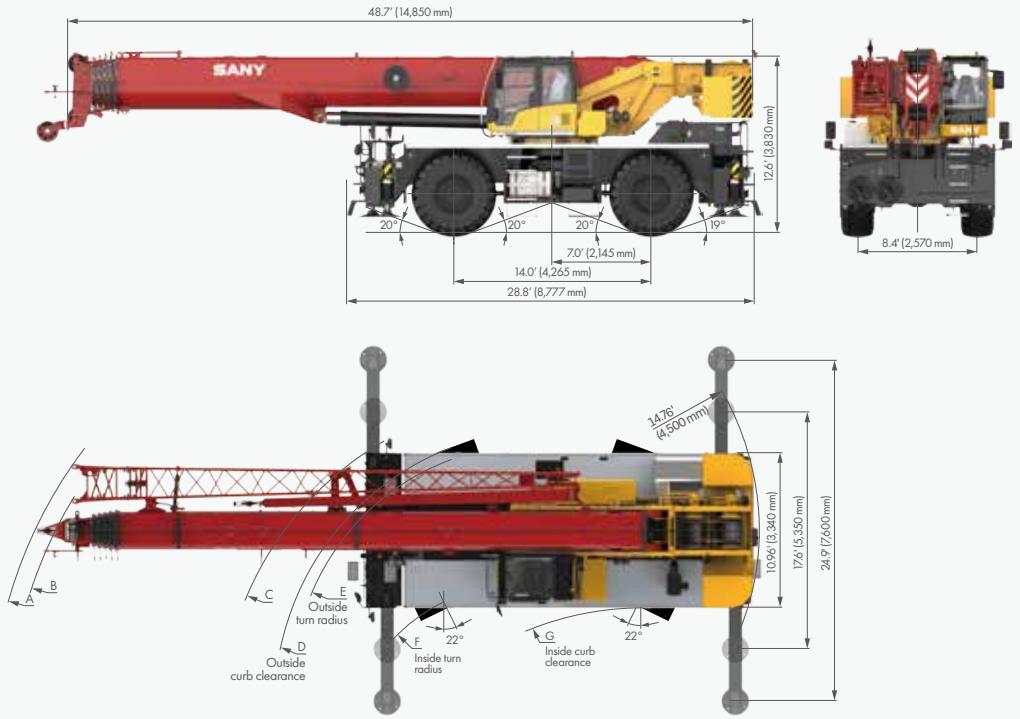


Axle Load Distribution

Items		IN POUND			IN KG		
		GVW	Front	Rear	GVW	Front	Rear
Base unit with auxiliary hoist and wire rope		129,400	64,484	64,925	58,700	29,250	29,450
Remove	Counterweight	-29,800	11,326	-41,087	-13,500	5,137	-18,637
	Bi-fold fly jib	-2,687	-6,283	3,595	-1,219	-2,850	1,631
	Auxiliary lifting sheave	-101	-462	360	-46	-209	163
	60 USt hook block	-1,230	-3,541	2,311	-558	-1,606	1,048
	8 USt hook ball	-320	-928	609	-145	-421	276

TRANSPORT, DIMENSIONS AND TECHNICAL SPECS

OVERALL DIMENSIONS



TWO-WHEEL STEER	A	B	C	D	E	F	G
	60.70'	58.73'	49.87'	47.57'	46.59'	38.39'	34.45'
	18.5m	17.9m	15.2m	14.5m	14.2m	11.7m	10.5m
FOUR-WHEEL STEER	A	B	C	D	E	F	G
	41.99'	40.68'	29.20'	26.57'	25.59'	17.39'	15.09'
	12.8m	12.4m	8.9m	8.1m	7.8m	5.3m	4.6m

TECHNICAL SPECIFICATIONS

CATEGORY	ITEM		UNIT	VALUE
CAPACITY	Max. lifting capacity		USt (Mt)	120 (110)
WEIGHT	Gross weight		lbs (kg)	129,400 (58,700)
POWER	Engine model		Cummins	QSB 6.7 (Stage V)
	Max. engine power		hp (kW)/rpm	280 (209)/2,200
	Max. engine torque		lb·ft (N·m)/rpm	950 (1,288)/1,500
DIMENSIONS	Overall length		ft (mm)	48.71 (14,850)
	Overall width		ft (mm)	10.96 (3,340)
	Overall height		ft (mm)	12.56 (3,830)
TRAVEL	Max.travel speed		mph (km/h)	15 (24)
	Steering radius	Min.steering radius	ft (m)	25.6 (7.8)
		Min.steering radius of boom tip	ft (m)	46.6 (14.2)
	Wheel drive type		-	2 wheel/4 wheel
	Min.ground clearance		in (mm)	1.74 (530)
	Approach angle		°	20
	Departure angle		°	19
	Max.gradeability		-	75%
MAIN PERFORMANCE	Working temperature range		°F (°C)	-4~+114.8 (-20~+46)
	Min.rated lifting radius		ft (m)	8 (2.44)
	Tail swing radius		ft (m)	14.76 (4.5)
	No. of boom sections		-	6
	Boom shape		-	U shape
	Max.lifting moment	Basic boom	lb·ft (kN·m)	2,054,673 (2,784)
		Full-extension boom	lb·ft (kN·m)	1,089,065 (1,476)
		Full-extension boom+jib	lb·ft (kN·m)	160,141 (711)
	Boom length	Basic boom	ft (m)	41.0 (12.5)
		Full-extension boom	ft (m)	183.7 (56)
		Full-extension boom + jib	ft (m)	242.8 (74)
	Max.tip height	Basic boom	ft (m)	44.3 (13.5)
		Full-extension boom	ft (m)	185.4 (56.5)
		Full-extension boom + jib	ft (m)	250 (76.2)
	Outrigger span (Longitudinal×Transverse)		ft×ft (m×m)	24.7×24.9 (7.52×7.6)
	Jib offset		°	0, 20, 40
Air conditioner	In operator's cab		-	Heating & Cooling

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

Capacity / USt (Mt)	Number of sheaves	Parts of line	Hook weight /lbs (kg)
60 (55)	3	6	1,230 (558)
8 (7)	-	1	320 (145)

Operations

Item		Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch		476 ft/min (145 m / min)	0.75" (19 mm) / 984 ft (300 m)	15,500 lbs (7,030 kg)
Auxiliary winch		476 ft/min (145 m / min)	0.75" (19 mm) / 541 ft (165 m)	15,500 lbs (7,030 kg)
Swing speed		1.8 r / min		
Full luffing up/down time of boom		70 s / 72 s		
Full extension/retraction time of boom		340 s / 350 s		
Outrigger beam	Extension	18 s		
	Retraction	10 s		
Outrigger jack	Extension	32 s		
	Retraction	33 s		

Hoist Performance

Wire Rope Layer	Hoist line pulls		Drum capacity (ft)	
	Two speed hoist			
	Low	High	Layer	Total
	Available (lb)	Available (lb)		
1	23,900	9,700	131	131
2	21,900	8,900	142	273
3	20,200	8,300	152	425
4	18,800	7,700	162	587
5	17,600	7,200	172	759
6	16,500	6,700	182	941

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CRANE INTRODUCTION

Frame

- Turntable and carrier frame are made of high strength steel, with anti-torsion large cross-section, featuring heavy load-bearing capacity.

Outrigger

- 4 outriggers, H-type arrangement, controlled by electrically and hydraulically and located at both sides of chassis frame.

Engine

- Cummins, inline six-cylinder water-cooled compression ignition diesel engine, rated power 280 hp / 2,200 rpm, max. torque 950 lb·ft / 1,500 rpm, off-road Stage V emission standards.
- Fuel tank capacity: Approx. 92.46 gal.

Hydraulic System

- The constant variable displacement pump is connected to the transmission through PTO for controlling the operation of crane.

Gearbox

- Automatic transmission from DANA, with 6 forward and 6 reverse gears available.

Axles

- With both front axle and rear axle for driving and steering.

Suspension

- Front axle is connected with frame rigidly. Hydraulic suspension is used for rear axle and travel smoothness is improved when driving on roads. The rear suspension cylinder may be locked to rigid state so as to meet the requirement for travel with a load suspended.

Tires

- 4 tires, each axle is equipped with single tire.
- Tire specifications: 29.5-25.

Steering

- Four modes: Two wheel front, four wheel, crab, two wheel rear.

Brakes

- Service brake: dual-circuit hydraulic disc brake, acting on all wheels.
- Parking brake: Front wheels.

Main Winch System

- Driven by a hydraulic motor, with built-in planetary gear reducer, constantly closed brake and Φ0.75" (19 mm) rotation-resistant wire rope equipped, high speed and low speed mode available.

Swing System

- Single-row four-point ball contact swing ring, driven by hydraulic motor through planetary gear reducer and with built-in constantly closed brake, for 360° continuous rotation at both directions.

Boom

- 1 basic boom and 5 telescoping sections, U-shape cross section welding structure. Single cylinder with pin interlocking mechanism is for sequential telescoping.
- 6 sheaves on boom head are standard.
- Boom length: 41.0' (12.5 m) ~ 183.7' (56 m).

Safety Devices

- Hydraulic balance valve, hydraulic relief valve, hydraulic two-way valve and LMI.
- Third-wrap indicator is equipped for both winches to prevent rope over-releasing. Anti-two block limit switch is fitted on the boom head to prevent rope over-winding.

Counterweight

- Hydraulically removable counterweight, total weight is 29,760 lbs (13.5 t).

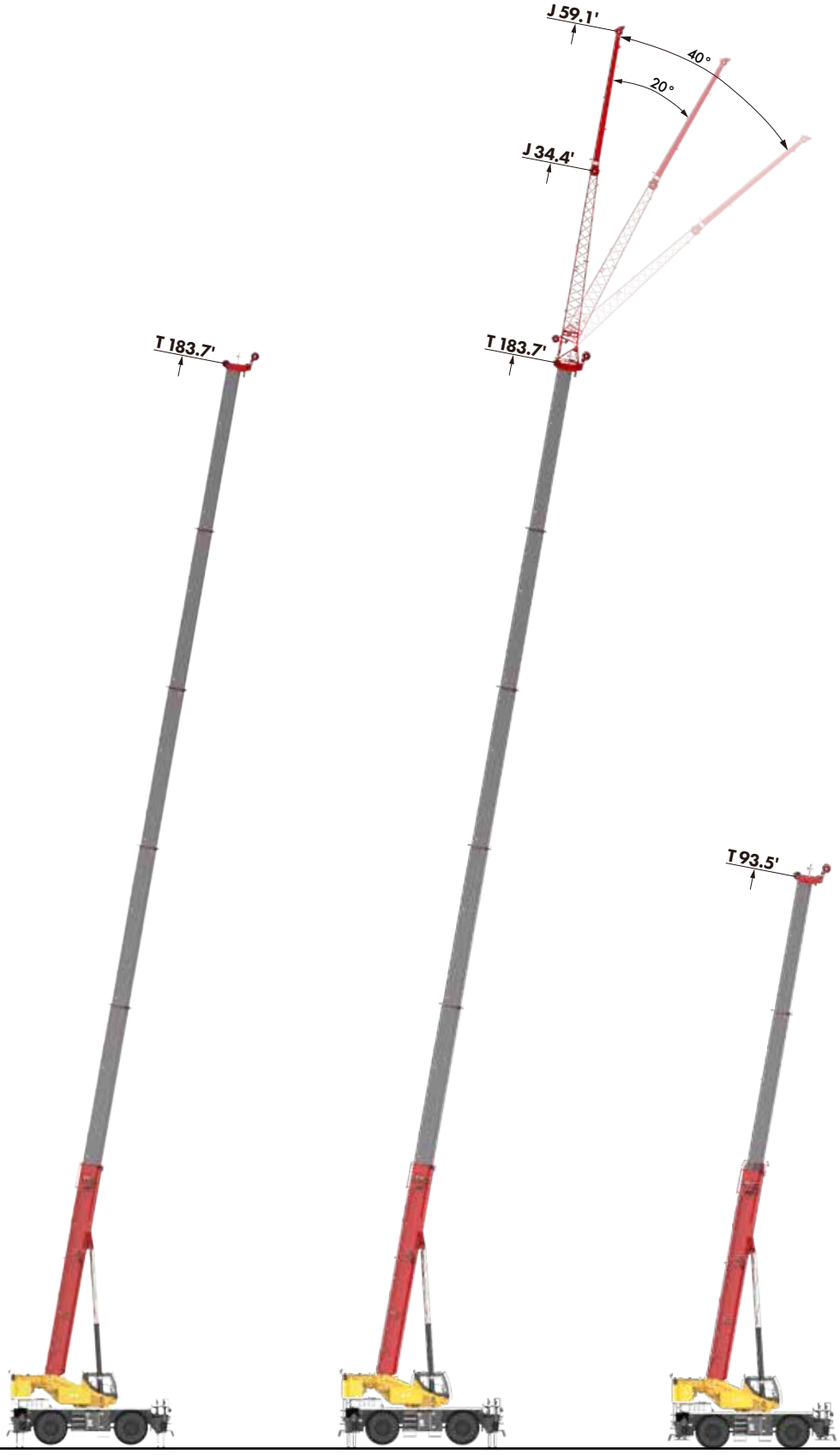
Electrical System

- DC 24 volts are in series with two 12-volt battery packs.

Optional Equipment at Extra Fees

- Spark arrester / Air intake shutoff valve.

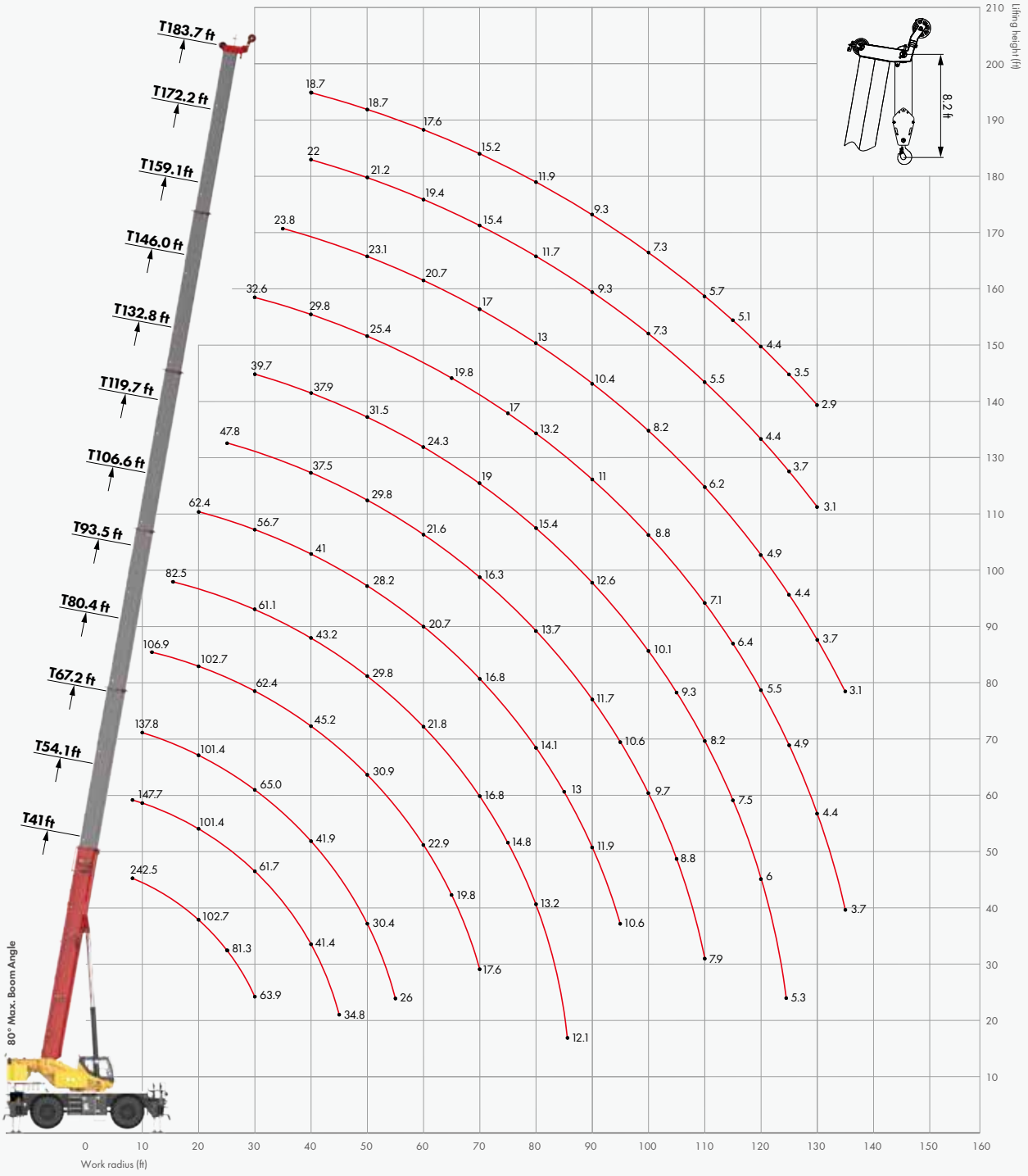
BOOM & JIB COMBINATIONS



Main Boom On Outriggers | Fly Jib On Outriggers | Main Boom On Tires

WORKING RANGE DIAGRAM – Main Boom

Lifting capacities in klb



LOAD CHARTS — Main Boom, On 100% Outriggers, 360°

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	106.6' (32.5 m)	119.7' (36.5 m)	132.8' (40.5 m)	146.0' (44.5 m)	159.1' (48.5 m)	172.2' (52.5 m)	183.7' (56.0 m)	ft
8	242,500*	147,700											8
10	180,800	147,700	137,800										10
12	160,100	145,500	130,100	106,900									12
15	134,500	133,400	120,100	106,900	82,500								15
20	102,700	101,400	101,400	102,700	73,900	62,400							20
25	81,300	79,400	79,400	79,100	66,600	58,900	47,800	39,700					25
30	63,900	61,700	65,000	62,400	61,100	56,700	45,900	39,700	32,600				30
35		48,500	50,700	53,100	52,900	51,800	41,000	37,900	31,700	26,500	22,000		35
40		41,400	41,900	45,200	43,200	41,000	37,500	35,700	29,800	26,500	22,000	18,700	40
45		34,800	35,900	36,400	35,500	33,500	34,600	31,500	27,300	25,400	21,600	18,700	45
50			30,400	30,900	29,800	28,200	29,800	27,600	25,400	24,300	21,200	18,700	50
55			26,000	26,500	25,600	23,800	25,100	24,300	22,500	23,100	20,500	18,300	55
60				22,900	21,800	20,700	21,600	21,600	19,800	20,700	19,400	17,600	60
65				19,800	19,000	18,100	18,700	19,000	19,200	19,400	17,900	16,800	65
70				17,600	16,800	16,800	16,300	16,800	17,000	17,000	15,400	15,200	70
75					14,800	15,400	15,000	15,400	15,000	14,800	13,200	13,400	75
80					13,200	14,100	13,700	13,900	13,200	13,000	11,700	11,900	80
85					12,100	13,000	12,600	12,600	12,100	11,700	10,400	10,600	85
90						11,900	11,700	11,500	11,000	10,400	9,300	9,300	90
95						10,600	10,600	10,100	9,900	9,300	8,200	8,200	95
100							9,700	9,300	8,800	8,200	7,100	7,300	100
105							8,800	8,200	7,700	7,300	6,200	6,400	105
110							7,900	7,500	7,100	6,200	5,500	5,700	110
115								6,800	6,400	5,500	4,900	5,100	115
120								6,000	5,500	4,900	4,200	4,400	120
125								5,300	4,900	4,400	3,500	3,500	125
130									4,400	3,700	2,900	2,900	130
135									3,700	3,100			135

Remark
Capacity marked by * requires additional equipment.

LOAD CHARTS — Main Boom, On 100% Outriggers, 360°, 0 lb Counterweight

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	ft
10	99,200	66,100	50,700			10
12	88,200	61,700	50,700	44,100		12
15	77,200	57,300	46,300	44,100	39,700	15
20	61,700	52,900	41,900	40,800	36,400	20
25	44,100	41,900	37,500	36,400	33,100	25
30	28,700	33,100	30,900	29,800	28,700	30
35		24,300	24,300	24,300	24,300	35
40		18,700	18,700	18,700	19,800	40
45		14,300	14,300	14,300	15,400	45
50			11,000	12,100	13,200	50
55			7,700	10,600	11,000	55
60				8,800	9,300	60
65				7,100	7,700	65
70				5,500	6,600	70
75					5,500	75
80					4,400	80
85					3,300	85

LOAD CHARTS — Main Boom, On 50% Outriggers, 360°

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	106.6' (32.5 m)	119.7' (36.5 m)	132.8' (40.5 m)	146.0' (44.5 m)	159.1' (48.5 m)	172.2' (52.5 m)	183.7' (56.0 m)	ft
10	165,300	77,200	76,100										10
12	149,900	77,200	76,100	75,000									12
15	119,000	75,000	73,900	72,800	70,500								15
20	69,400	63,900	68,300	70,500	68,300	57,300							20
25	50,700	51,800	55,100	59,500	57,300	48,500	39,700						25
30	38,600	39,700	43,000	44,100	41,900	39,700	37,500	36,400	29,800				30
35		30,900	33,100	34,200	32,000	30,900	30,400	29,800	27,600	20,900	19,800		35
40		25,400	26,500	27,600	26,500	24,300	23,800	23,600	22,900	20,900	19,800	16,500	40
45		19,400	21,400	22,000	20,900	19,800	19,400	19,600	19,200	18,700	18,300	15,400	45
50			18,300	18,700	17,600	16,300	15,900	17,000	16,500	16,100	15,700	14,300	50
55			15,400	15,900	15,000	13,400	13,000	14,300	13,900	13,700	13,400	13,200	55
60				12,300	12,800	11,200	10,600	12,600	12,100	11,900	11,700	11,500	60
65				10,100	10,800	9,000	8,800	10,600	10,400	10,100	9,900	9,700	65
70				7,900	9,000	7,700	7,300	9,300	9,000	8,800	8,600	8,400	70
75					7,700	6,600	6,200	8,200	7,900	7,700	7,300	7,100	75
80					6,400	5,500	5,300	7,100	6,800	6,600	6,200	6,000	80
85					5,100	4,600	4,000	6,200	6,000	5,700	5,100	4,900	85
90						3,700	3,100	5,300	5,100	4,600	4,200	4,000	90
95								4,600	4,400	3,700	3,100	2,900	95
100								3,700	3,500	2,900			100
105								3,100	2,900				105

LOAD CHARTS — Main Boom, On 0% Outriggers, 360°

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	106.6' (32.5 m)	119.7' (36.5 m)	132.8' (40.5 m)	146.0' (44.5 m)	159.1' (48.5 m)	172.2' (52.5 m)	183.7' (56.0 m)	ft
20	36,400												20
25	27,600	28,700	28,200	27,600	26,500	25,400	24,300						25
30	18,700	22,000	22,000	21,600	21,200	20,900	19,600	22,000	20,900				30
35		15,700	17,000	16,800	16,500	16,300	15,000	17,000	16,800	15,400	15,000		35
40		12,800	13,400	13,200	13,000	12,800	11,700	13,700	13,400	12,600	12,300	12,100	40
45		9,900	11,500	11,000	10,800	10,400	9,500	11,700	11,500	10,400	10,100	9,900	45
50			9,300	8,800	8,600	8,400	7,300	9,500	9,300	8,800	8,400	8,200	50
55			7,500	7,300	7,100	6,600	5,500	7,700	7,500	7,100	6,800	6,600	55
60				5,700	5,500	4,900	4,200	6,400	6,200	5,700	5,100	4,900	60
65				4,400	4,200	4,000	2,900	5,300	5,100	4,400	4,000	3,700	65
70				3,100	2,900	2,600		4,200	4,000	3,100	2,900	2,600	70
75								3,100	2,900				75

Remark
1. Load capacity in the chart is the maximum weight which this crane could hoist include the hook block's weight.
2. Radius shown in the chart is the actual radius when loading.
3. The load capacity in the chart is the maximum weight when this crane is supported with the firm ground and stays in level.
4. Choose rated load capacity of the longer boom and radius when the actual boom length and radius are between two values in the charts.
5. The machine can be used only when the wind scale is less than 6.

LOAD CHARTS — Main Boom, Stationary, On Tires, Over Front Tires

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	ft
15	48,500					15
20	37,000	39,200	39,700			20
25	28,700	31,300	31,700	32,200	33,100	25
30	20,900	24,300	25,400	26,500	27,300	30
35		18,500	20,300	20,500	21,400	35
40		14,300	15,900	16,500	17,200	40
45		11,000	12,800	13,200	13,900	45
50			10,400	11,000	11,200	50
55			8,400	9,000	9,300	55
60				7,300	7,700	60
65				6,200	6,600	65
70				4,600	5,500	70
75					4,400	75
80					3,500	80
85					2,600	85
n	4	4	4	4	4	n
Min	0	0	0	0	0	Min
Min lbs	11,000	7,700	4,400	2,200	1,800	Min lbs
Max	72	73	74	75	77	Max

LOAD CHARTS – Main Boom, Stationary, On Tires, 360°

Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	ft
20	20,300					20
25	9,900	13,200				25
30	6,200	8,800	9,900	11,000		30
35		5,500	7,100	8,800	9,300	35
40		3,300	4,900	6,600	7,100	40
45			3,300	4,400	4,600	45
50				3,300	3,500	50
n	4	4	4	4	4	n
Min	0	30	40	45	52	Min
Min lbs	3,300	1,800	1,800	1,800	1,800	Min lbs
Max	56	60	62	66	69	Max

LOAD CHARTS – Main Boom, Pick & Carry, On Tires, Over Front Tires

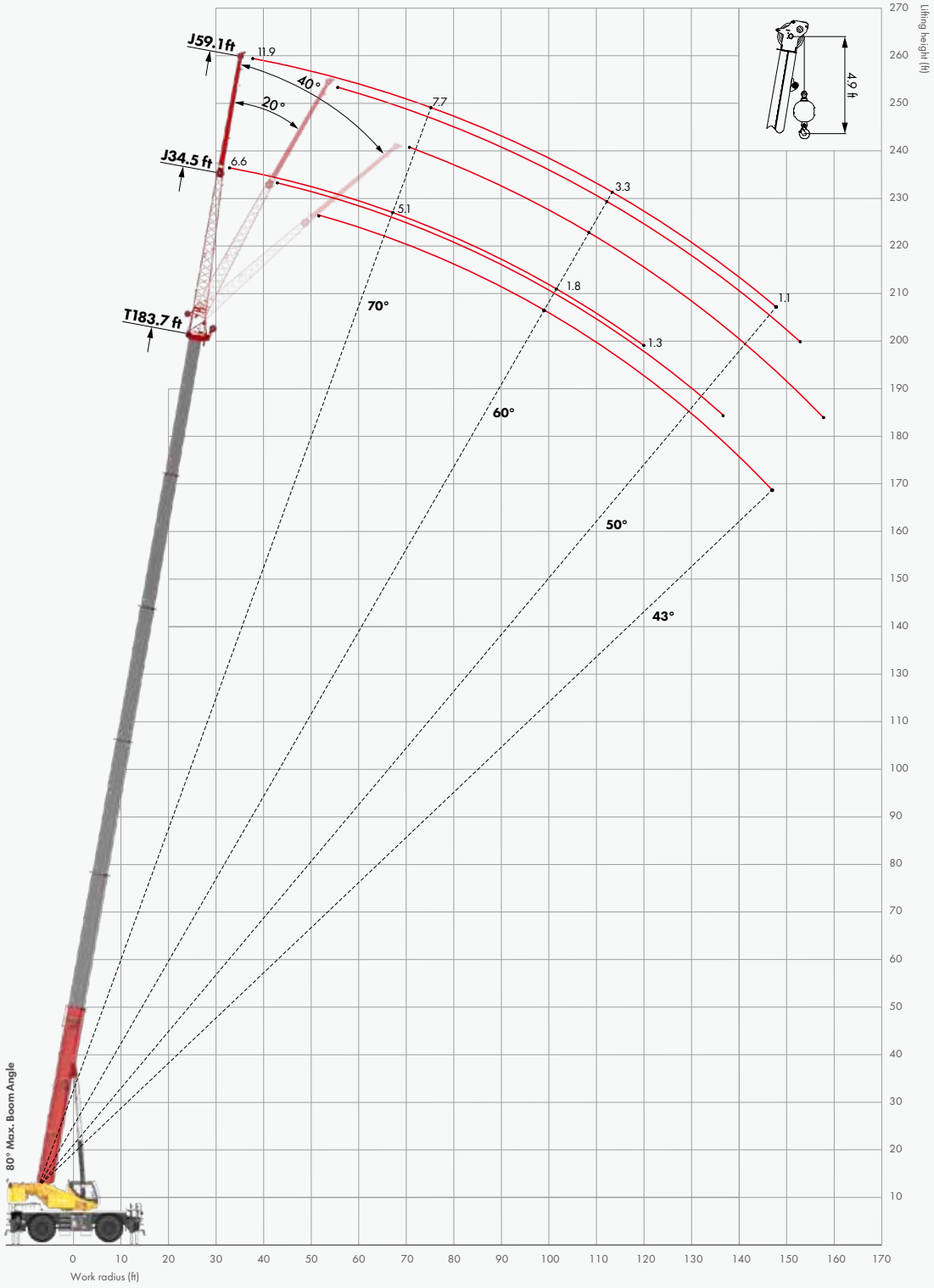
Unit: lbs

ft	41.0' (12.5 m)	54.1' (16.5 m)	67.2' (20.5 m)	80.4' (24.5 m)	93.5' (28.5 m)	ft
15	33,500					15
20	25,100	26,900	27,800			20
25	19,400	21,200	22,300	22,700	22,900	25
30	15,000	17,000	18,100	18,300	18,700	30
35		13,900	15,000	15,200	15,700	35
40		11,200	11,900	12,800	13,200	40
45		9,300	10,400	10,800	11,200	45
50			8,800	9,300	9,500	50
55			7,300	7,700	8,200	55
60				6,600	6,800	60
65				5,300	5,700	65
70				4,200	4,600	70
75					4,000	75
80					3,100	80
n	4	4	4	4	4	n
Min	0	0	0	0	20	Min
Min lbs	8,800	6,600	3,300	1,800	1,800	Min lbs
Max	72	73	74	75	77	Max

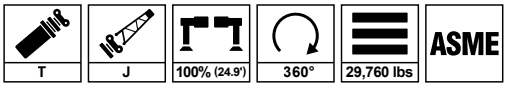
Remark
1. Capacities are applicable at 80 psi (560 kPa) cold tire inflation pressure.
2. Capacities are applicable only with machine on firm level surface.
3. On tire lifting with the jib mounted is not permitted.
4. Axle lockouts must be applied when lifting on tires.
5. Parking brake must be applied when lifting on tires stationary.
6. Driving speed shall be less than 2.49 mph (4km/h) at pick & carry mode.

WORK RANGE DIAGRAM – Fly Jib

Lifting capacities in klb



LOAD CHARTS — Fly Jib



Unit: lbs

ft	183.7' (56.0m) boom + 34.4' (10.5m) jib						183.7' (56.0m) boom + 59.1' (18m) jib						ft
	0°		20°		40°		0°		20°		40°		
	R (ft)	W (lbs)	R (ft)	W (lbs)	R (ft)	W (lbs)	R (ft)	W (lbs)	R (ft)	W (lbs)	R (ft)	W (lbs)	
80	30.5	11,900	41.7	9,900	50.9	8,600	34.8	6,600	54.0	5,700	69.7	4,900	80
79	34.2	11,700	45.4	9,900	54.4	8,400	38.9	6,600	58.1	5,500	73.6	4,900	79
78	38.0	11,200	49.1	9,700	57.9	8,200	43.1	6,400	62.1	5,500	77.3	4,900	78
77	41.7	10,800	52.7	9,500	61.4	7,900	47.2	6,400	66.1	5,300	81.1	4,600	77
76	45.4	10,400	56.3	9,000	64.9	7,500	51.3	6,400	70.1	5,300	84.8	4,600	76
75	49.1	9,900	59.9	8,600	68.4	7,100	55.4	6,200	74.0	5,100	88.5	4,600	75
73	56.4	9,000	67.0	8,200	75.2	6,600	63.6	6,000	81.9	4,900	95.8	4,400	73
70	67.2	7,700	77.6	6,800	85.3	6,200	75.6	5,100	93.4	4,400	106.6	4,000	70
68	74.3	7,100	84.5	6,400	91.8	5,700	83.5	4,400	100.9	4,000	113.6	3,500	68
65	84.8	5,500	94.6	5,100	101.5	4,900	95.2	3,300	112.0	2,900	123.8	2,600	65
63	91.6	4,400	101.2	4,200	107.7	4,000	102.8	2,400	119.2	2,200	130.4	2,000	63
60	101.7	3,300	110.8	3,100	116.8	2,900	114.0	1,800	129.7	1,500	139.9	1,300	60
58	108.2	2,600	117.1	2,400	122.7	2,200	121.2	1,300	136.5	1,100	146.1	900	58
55	117.7	2,000	126.2	1,800	131.2	1,500							55
53	123.9	1,500	132.0	1,300	136.7	1,100							53
50	132.8	1,100											50
n	1	1	1	1	1	1	1	1	1	1	1	1	n
Min	48	48	51	51	51	51	56	56	56	56	56	56	Min
Min lbs	660	660	660	660	660	660	880	880	660	660	440	440	Min lbs
Max	80	80	80	80	80	80	80	80	80	80	80	80	Max

Remark

1. The capacities listed are with the outriggers fully extended and vertical jacks properly set only.
2. The fly jib may only be used for single line lifting service.
3. Use only the load which corresponds to the boom extension length and offset angle as the machine is configured.
4. For boom angles not shown, use the rating of the next lower boom angle.
5. The boom angle is defined as the angle above or below the horizontal line of the longitudinal axis of the boom base section after lifting the rated load.
6. When lifting over the main boom nose with the fly jib erected, the outriggers must be fully extended and the proper load reduction must be used.
7. Do not lower the boom below the minimum boom angle with the jib erected. Fully retract the boom to lower the boom below the minimum boom angle.

Operator must refer to in-cab load chart manual for crane operation.

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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