



**SANY**

# SRA1000A

ROUGH TERRAIN CRANE



100 USt (90.7 Mt)



154.2 ft (47 m)



214.9 ft (65.5 m)

# FULLY LOADED IS THE NEW STANDARD

**Best LMI in the Industry**

**Operator Friendly**

**Tier 1 Components**

**Backed by SANY's  
3-Year/3,000-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

### MODEL **SRA1000A**

MAX CAPACITY

**100 USt**

BOOM LENGTH

**154.2'**

JIB LENGTH

**34.5' - 59.1'**

MAX TIP HEIGHT

**214.9'**

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.



**SANY's 100 USton rough terrain crane with five-section 154.2-foot full power boom, features strong capacity with reduced self-weight.**



**DANGER**  
Crane Hazard  
Dead Weight  
Lifting Capacity  
Exceeds Rated  
Capacity

**RA1000A**



**AN**





**SRA1000A**

# 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**



## 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, tilt 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

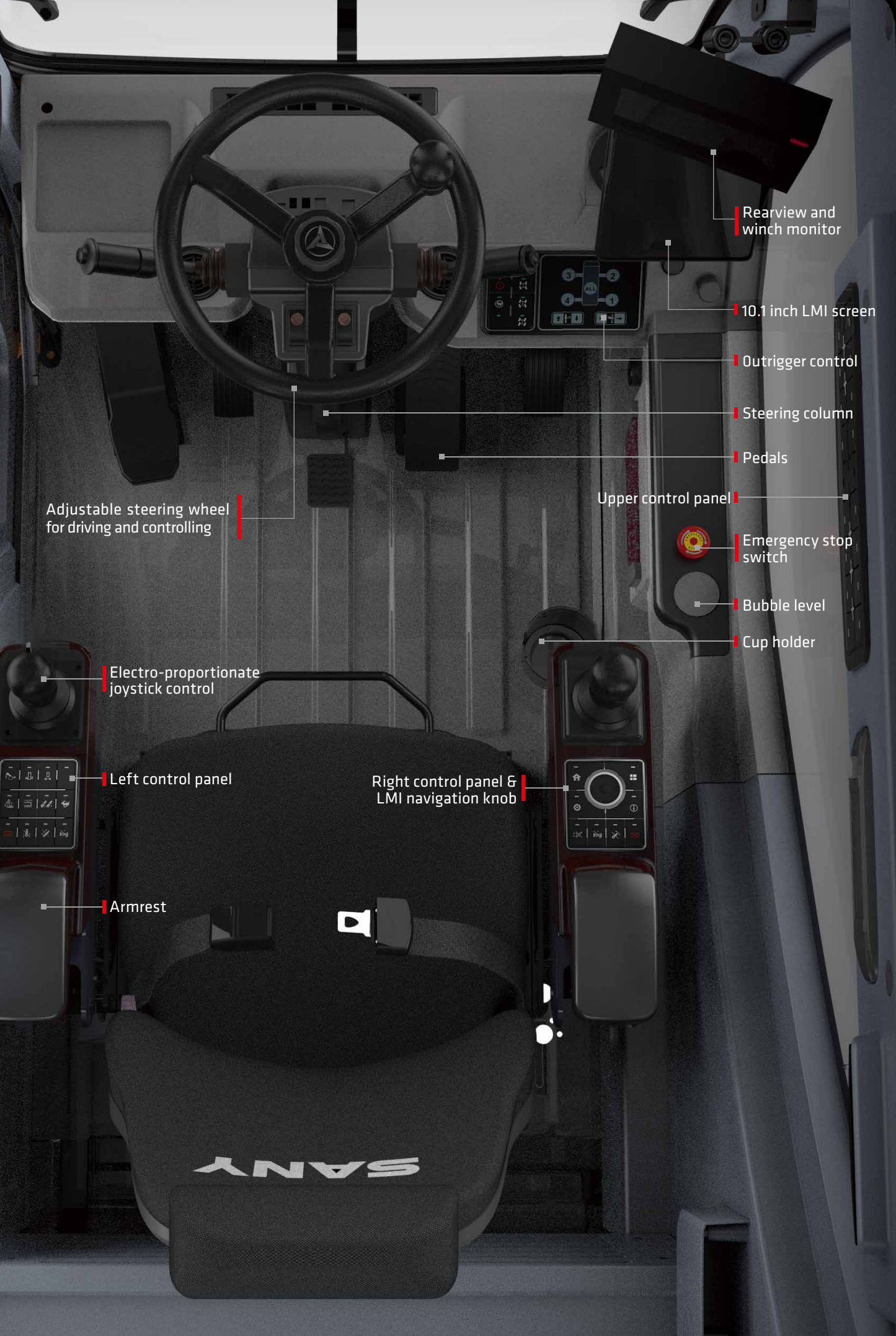
SANY's crane dealer network is growing as we seek to provide dealerships across America for local service and maintenance.

## COMPONENT BRANDS



**KESSLER+CO**





Rearview and winch monitor

10.1 inch LMI screen

Outrigger control

Steering column

Pedals

Upper control panel

Emergency stop switch

Bubble level

Cup holder

Adjustable steering wheel for driving and controlling

Electro-proportionate joystick control

Left control panel

Right control panel & LMI navigation knob

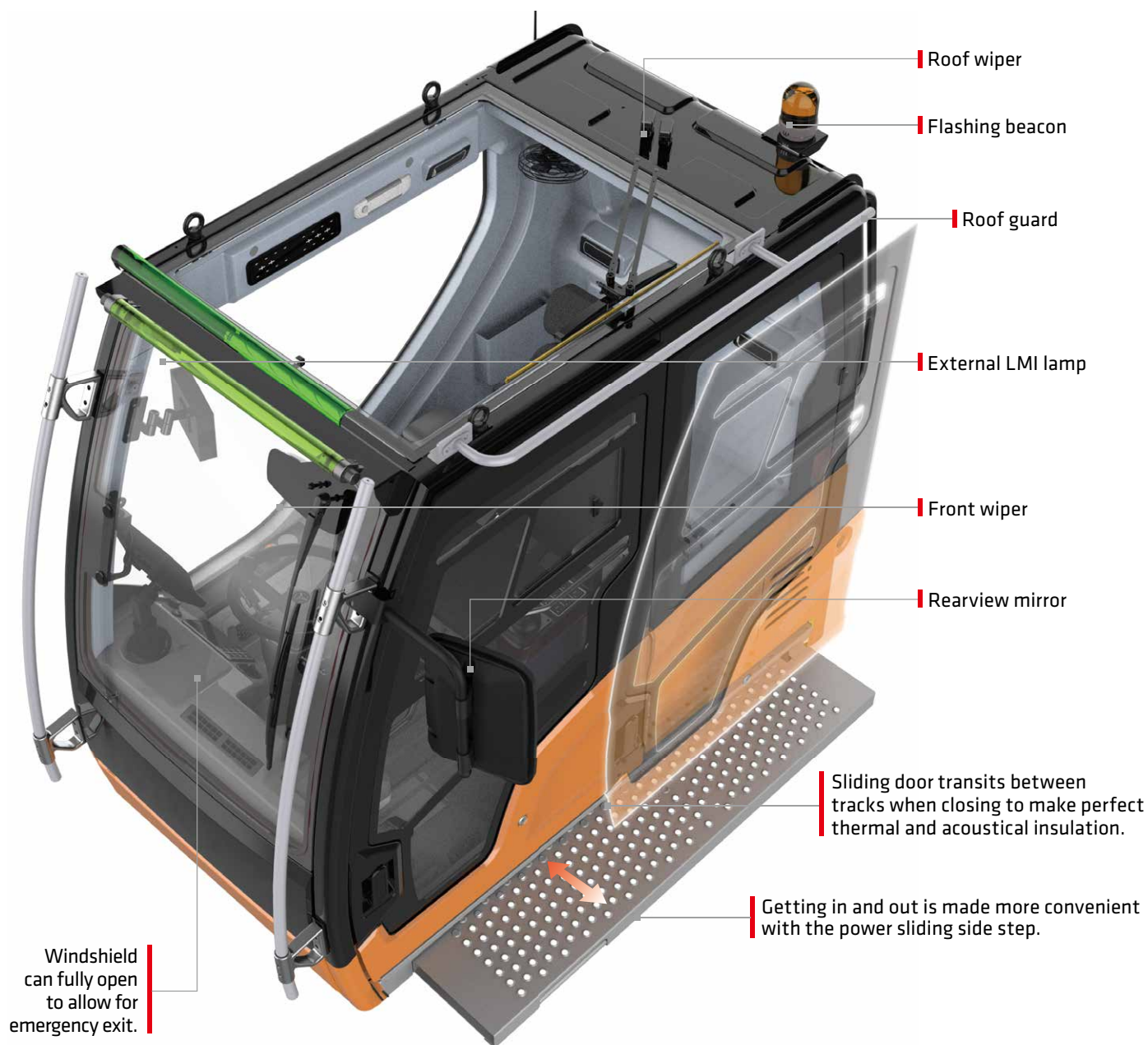
Armrest

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

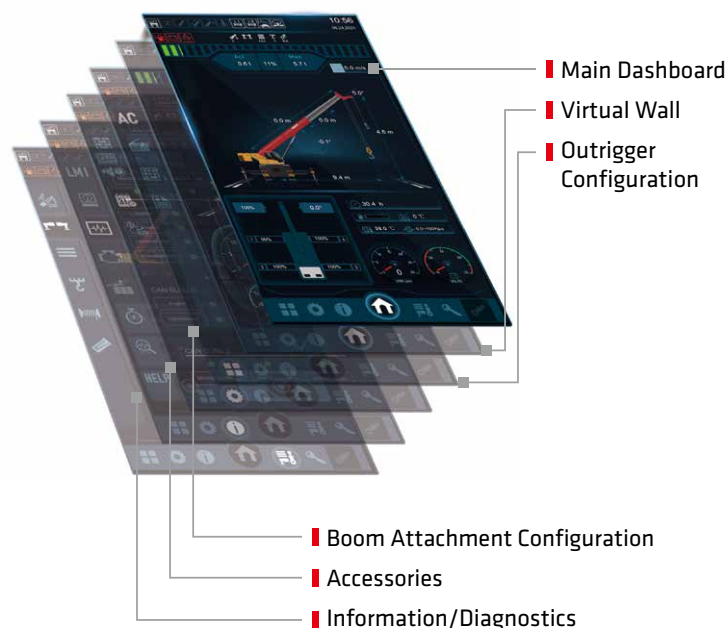
The large 10.1 inch HD touchscreen display incorporates crane setup, working conditions, working period, virtual wall, and diagnostics with an additional navigation knob for convenience.

### 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



### 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.

## Boom Attachment Configuration



## Accessories



### Information/Diagnostics



### 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.



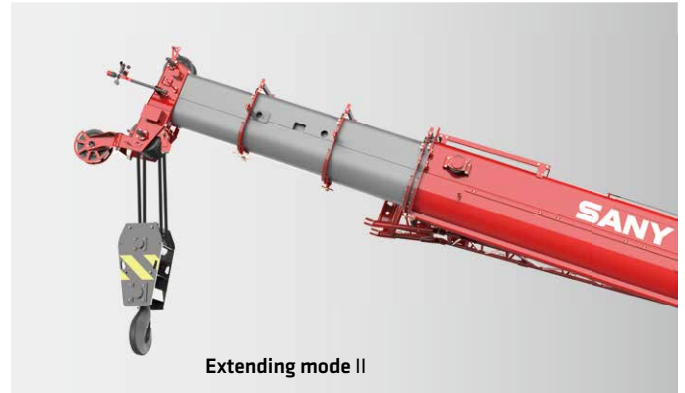
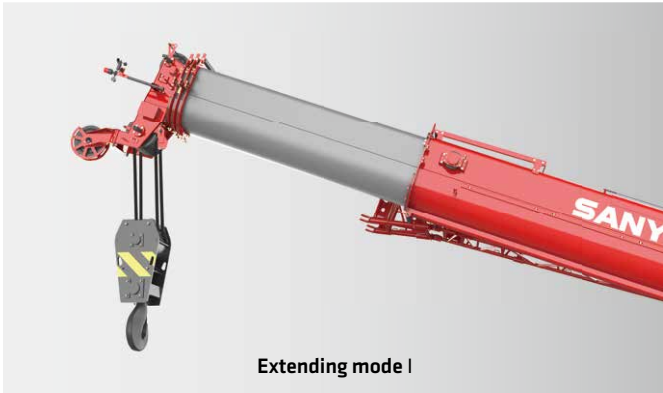
Adjustable steering wheel for driving and controlling, modular control panels, and smart user interface deliver intuitive and highly efficient control.





# HYDRAULIC SYSTEM

The SRA1000A has a five section, full power synchronized telescoping boom. There are two boom extending modes by dual cylinders with wire rope and pulleys.



## Superstructure

The SRA1000A 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.

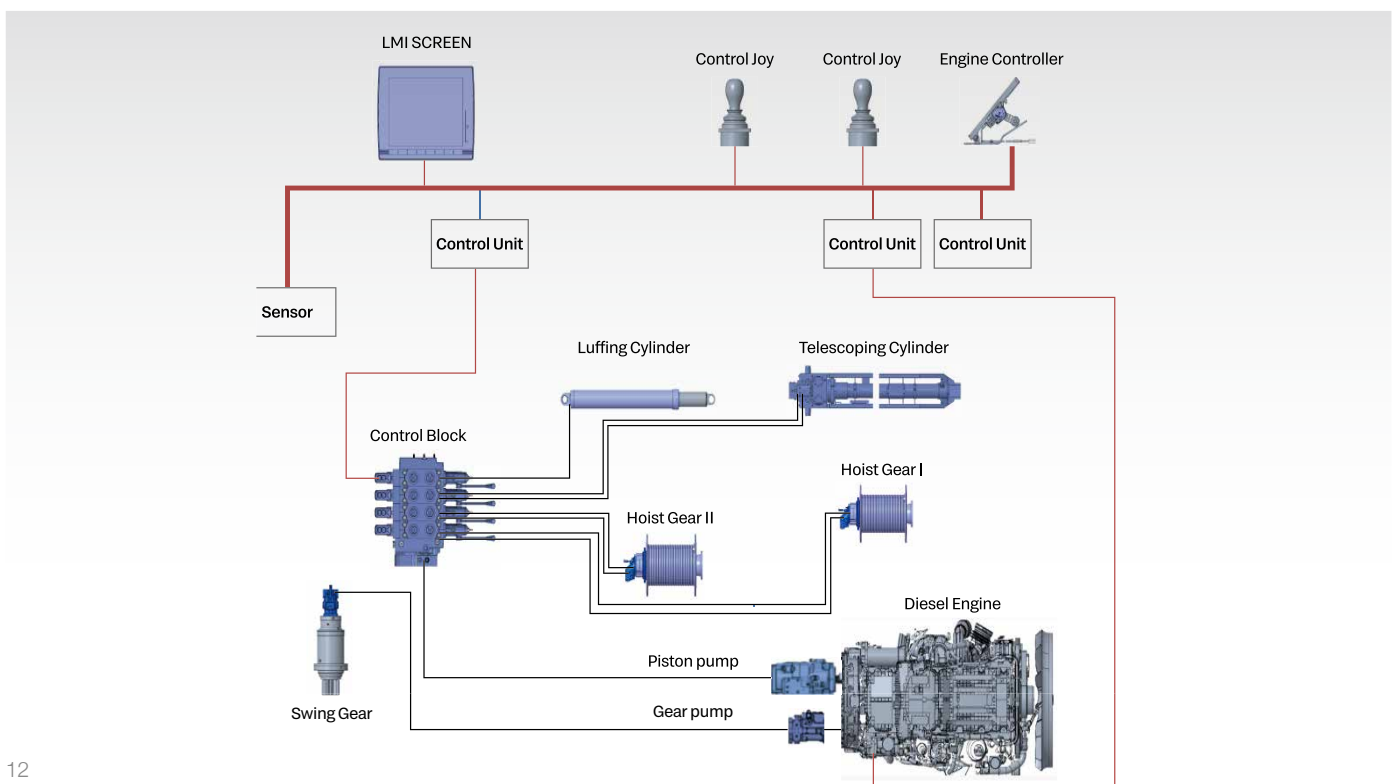
Ensuring easy operation, it has an electronically controlled load-sensing hydraulic system, electronic joystick and electronic throttle.

## Chassis steering system

A CASAPPA 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

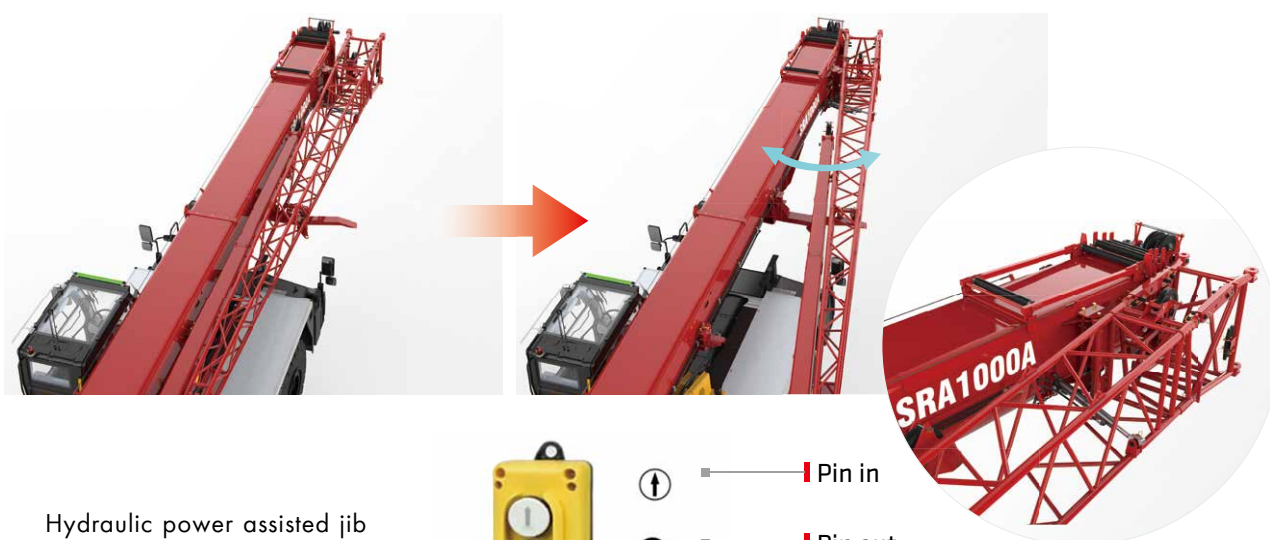
This user friendly system with a single finger control pad has built-in outrigger position sensing with and real time position on the LMI screen. The electro proportional relief valve identifies pressure staging of outrigger telescoping, satisfying operation requirements under high pressure and forming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



# SYSTEMS, FEATURES & TRUSTED COMPONENTS

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

## JIB SETUP VIA REMOTE CONTROL

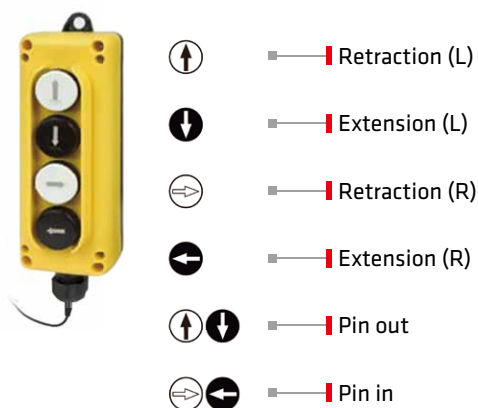


Hydraulic power assisted jib deployment can be handled by one person with the use of remote controller.

The fly jib gives the crane an extra tip height of 214.9 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.

## Winch camera

Winch cameras equipped for monitoring its working condition and identifying rope disorder in time.

## Integrated bus button panel input

Various operating states displayed by button indicator lights, and one-button multi-functional operation realizable by writing various operation modes.



Centralized electric cabinet



Anti-two-block limit switch



Third wrap indicator



Cable reel



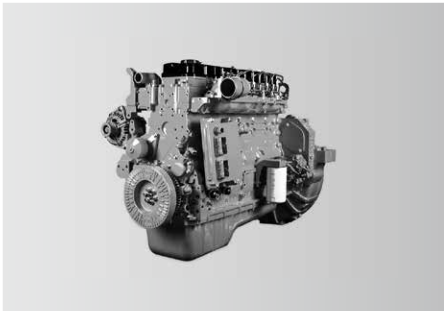
Anemometer

# CARRIER FRAME



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

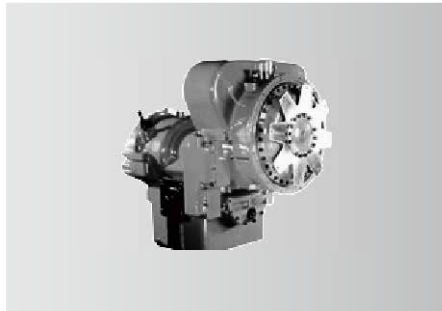
# POWER TRAIN



## Engine

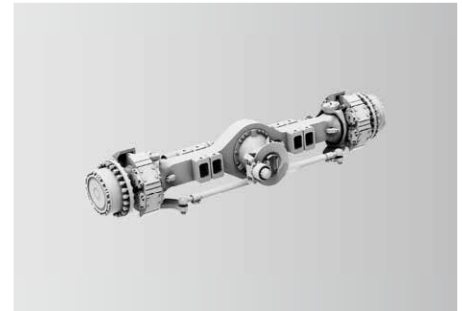
Power comes from a US Cummins QSB6.7 inline six-cylinder water-cooled, turbo-charged and intercooled off-highway diesel engine, complying with Stage V emission standard.

Rated power: 284 hp/2,200 rpm  
Max. torque: 950 lb·ft/1,500 rpm



## Transmission

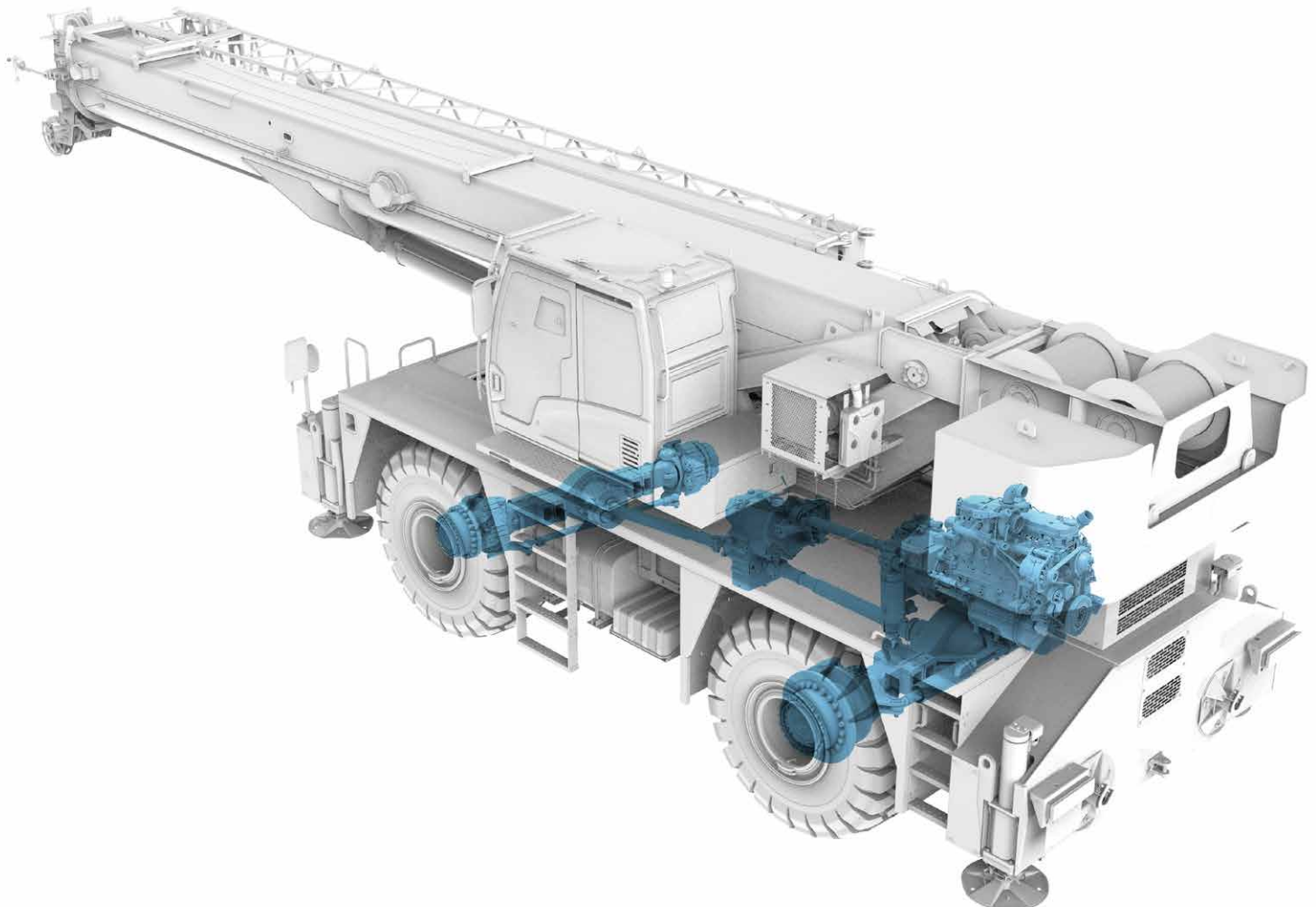
Dana electronically controlled automatic transmission features 6 speeds forward and 6 speeds reverse, wide ratio range, and smooth gearshift with hill hold feature.



## 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.

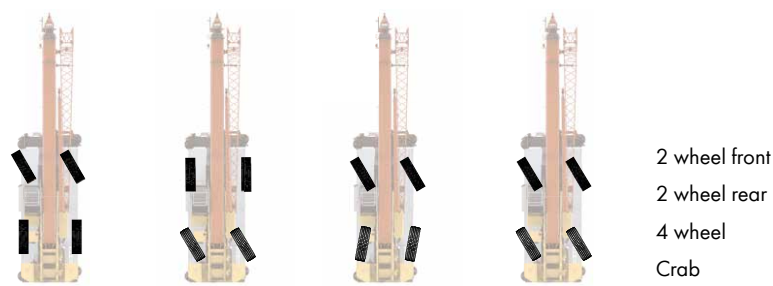
Driving comfort and lateral stability is therefore guaranteed on rough terrains.





# CONVENIENT TRANSPORT

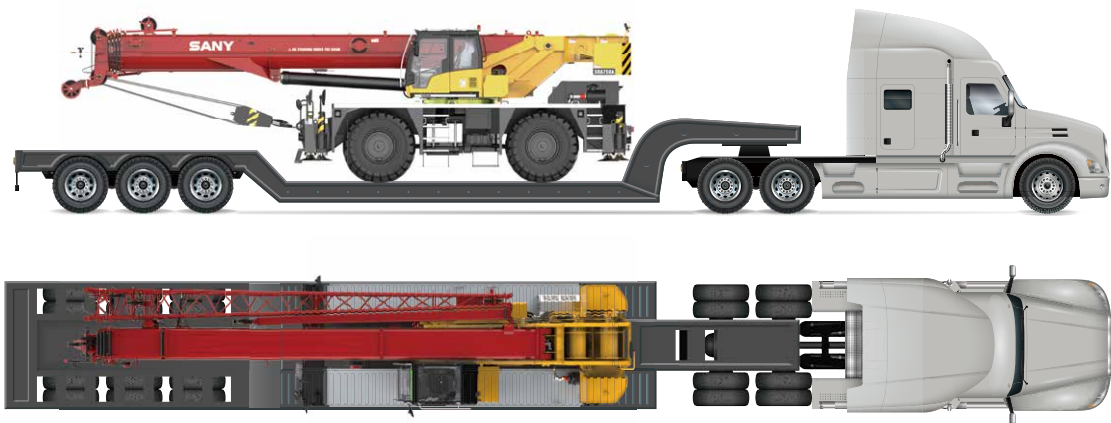
## Four steering modes:



Steering control panel

## One-Trailer Transport

Base unit transports under 100,000 lbs minus counterweight, fly jib and hook blocks. Overall transport height under 12.5 ft, width under 10.96 ft.



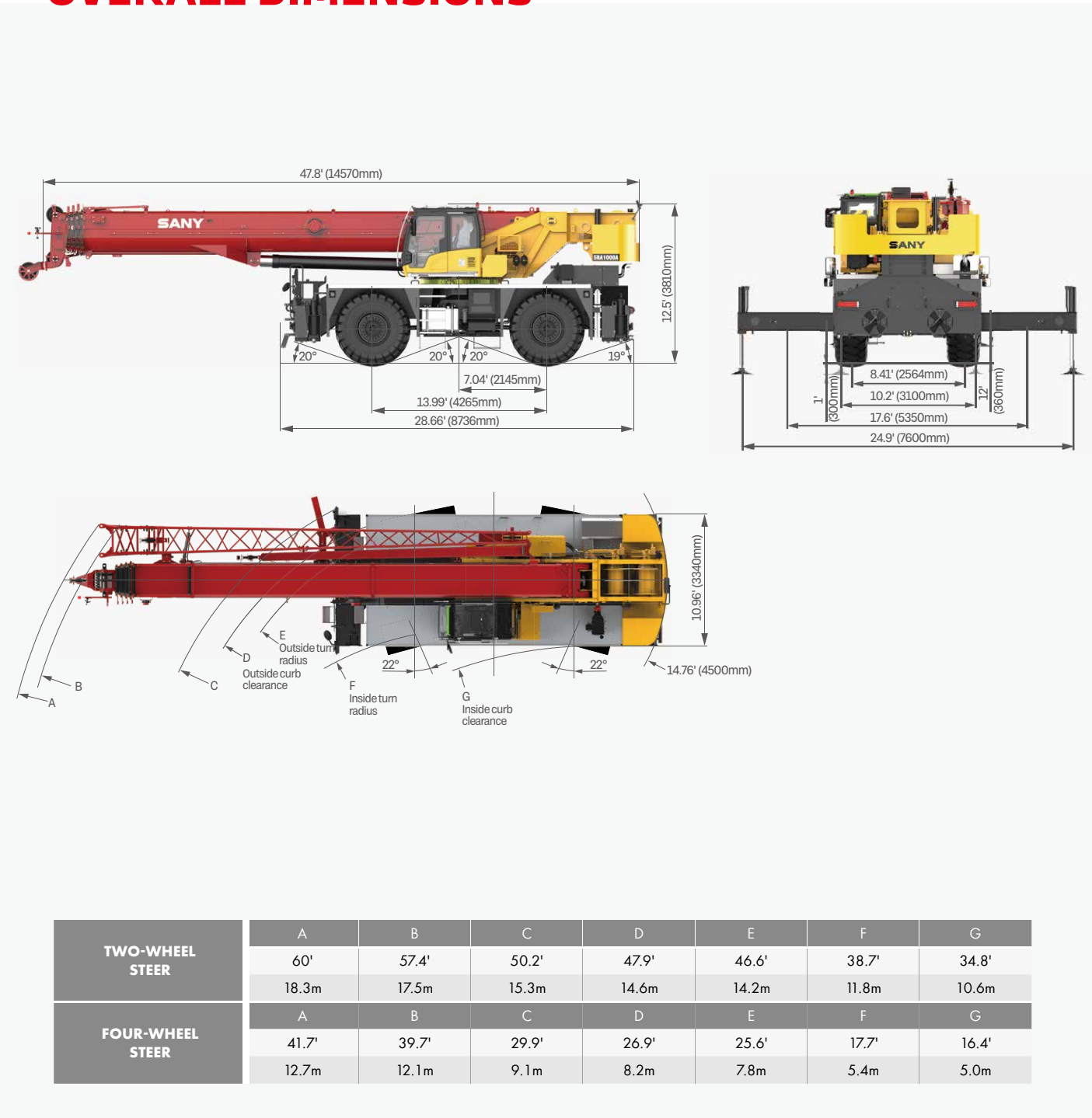
## Axle Load Distribution

Items		IN POUND			IN KG		
		GVW	Front	Rear	GVW	Front	Rear
Base unit with auxiliary hoist and wire rope		127,340	64,770	62,570	57,760	29,380	28,380
Remove	Counterweight	-27,600	10,850	-38,450	-12,500	4,933	-17,433
	Bi-fold fly jib	-2,324	-3,742	1,418	-1,054	-1,697	643
	Auxiliary lifting sheave	-101	-298	197	-46	-135	89
	60 US <sub>t</sub> hook block	-1,228	-3,532	2,304	-558	-1,603	1,045
	8 US <sub>t</sub> hook ball	-320	-968	648	-145	-439	294

# TRANSPORT, DIMENSIONS AND TECHNICAL SPECS

The SRA 1000A's technical specifications and strong load charts fit right in with the 75 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. lifting capacity		USr (Mt)	100 (90.7)
WEIGHT	Gross weight		lbs (kg)	127340 (57760)
POWER	Engine model		-	B6.7
	Max. engine power		hp (kW)/rpm	280 (209)/2200
	Max. engine torque		lb·ft (N·m)/rpm	950 (1288) / 1500
DIMENSIONS	Overall length		ft (mm)	47.8 (14570)
	Overall width		ft (mm)	10.96 (3340)
	Overall height		ft (mm)	12.5 (3810)
TRAVEL	Max.travel speed		mph (km/h)	21 (35)
	Steering radius	Min.steering radius	ft (m)	25.59 (7.8)
		Min.steering radius of boom tip	ft (m)	42.0 (12.8)
	Wheel formula		-	2 wheel; 4 wheel
	Min.ground clearance		ft (mm)	1.7 (530)
	Approach angle		°	20
	Departure angle		°	19
	Max.gradeability		-	75%
	Fuel consumption per 62 miles (100 km)		GL (L)	31.7 (120)
MAIN PERFORMANCE	Working temperature range		( )	-13~114.8 (-25~46)
	Min.rated lifting radius		ft (m)	8 (2.44)
	Tail slewing radius		ft (m)	14.76 (4.5)
	Boom sections (Qty.)		-	5
	No. of booms		-	U shape
	Max.lifting moment	Basic boom	klb·ft (kN·m)	2286 (3101)
		Full-extension boom	klb·ft (kN·m)	1127 (1529)
		Full-extension boom+jib	klb·ft (kN·m)	491 (667)
	Boom length	Basic boom	ft (m)	40 (12.2)
		Full-extension boom	ft (m)	154.2 (47)
		Full-extension boom + jib	ft (m)	213.3 (65)
	Max.tip height	Basic boom	ft (m)	42.7 (13)
		Full-extension boom	ft (m)	155.8 (47.5)
		Full-extension boom + jib	ft (m)	214.9 (65.5)
	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	1228 (558)
8 (7)	/	1	320 (145)



## Operations

Item		Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch		492 ft (150 m)/min	0.75" ( 19 mm) / 820 ft (250 m)	15.5 klb (7030 kg)
Auxiliary winch		492 ft (150 m)/min	0.75" ( 19 mm) / 476 ft (145 m)	15.5 klb (7030 kg)
Swing speed		2 r/min		
Full luffing up/down time of boom		60 s / 95 s		
Full extension/retraction time of boom		120 s / 125 s		
Outrigger jack	Retraction	35 s		
	Extension	35 s		
Outrigger beam	Retraction	20 s		
	Extension	25 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 fine grained 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

- US Cummins, inline six-cylinder water-cooled compression ignition diesel engine, rated power 284hp/2,200rpm, max. torque 950lb-ft/1,500rpm, 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 Belgium, 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. Road shock is buffered 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 0.75" (19mm) 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 4 telescoping sections, U-shape cross section welding structure. Double cylinder with rope pull mechanism is for synchronous plus sequential telescoping.
- 6 sheaves on boom head are standard.
- Boom length: 40' (12.2m)~154.2' (47m).



## 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

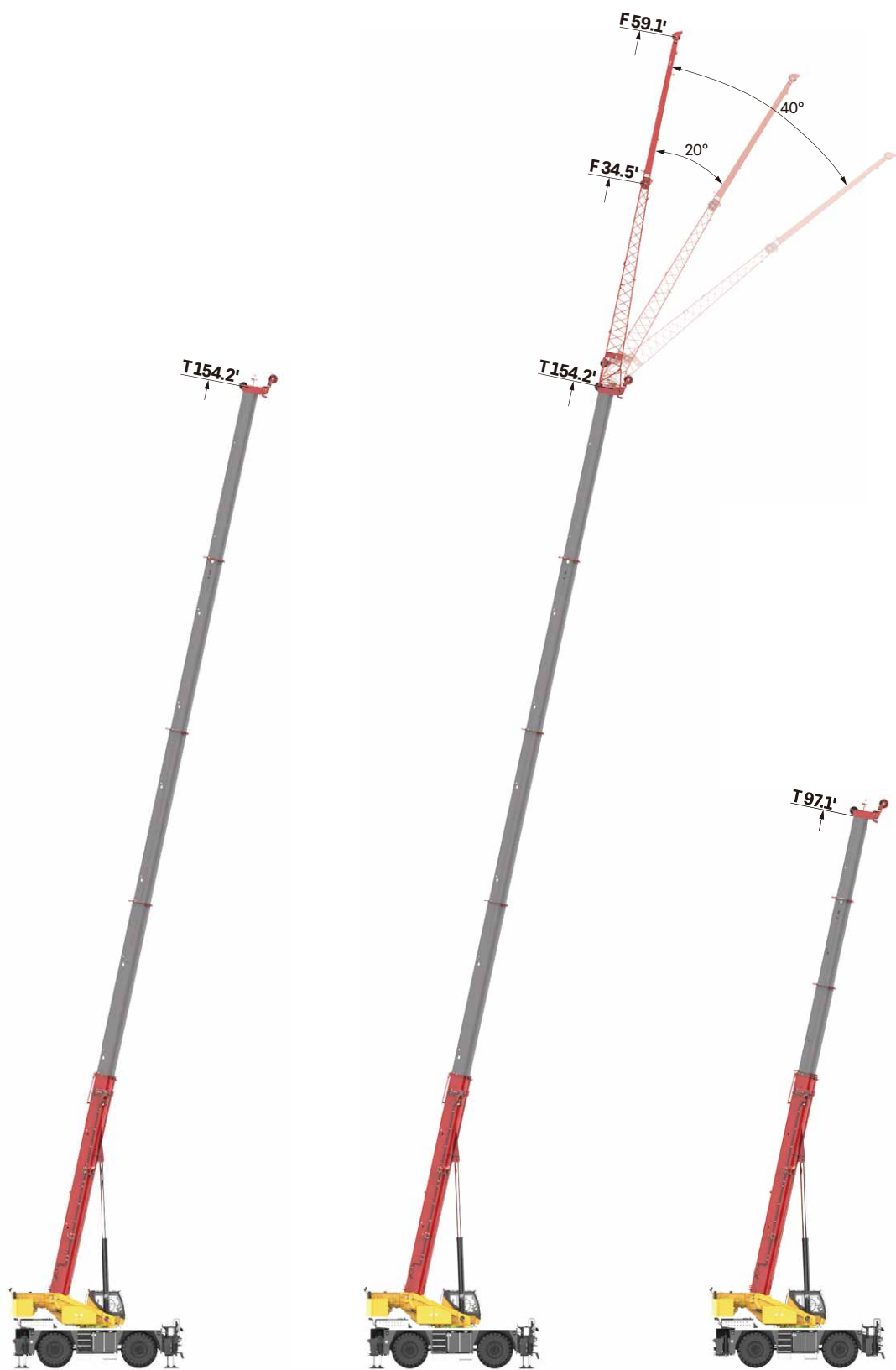
- Removable counterweight, total weight is 27,600 lbs (12.5t).



## Electrical System

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

# BOOM & JIB COMBINATIONS



Main Boom On Outriggers

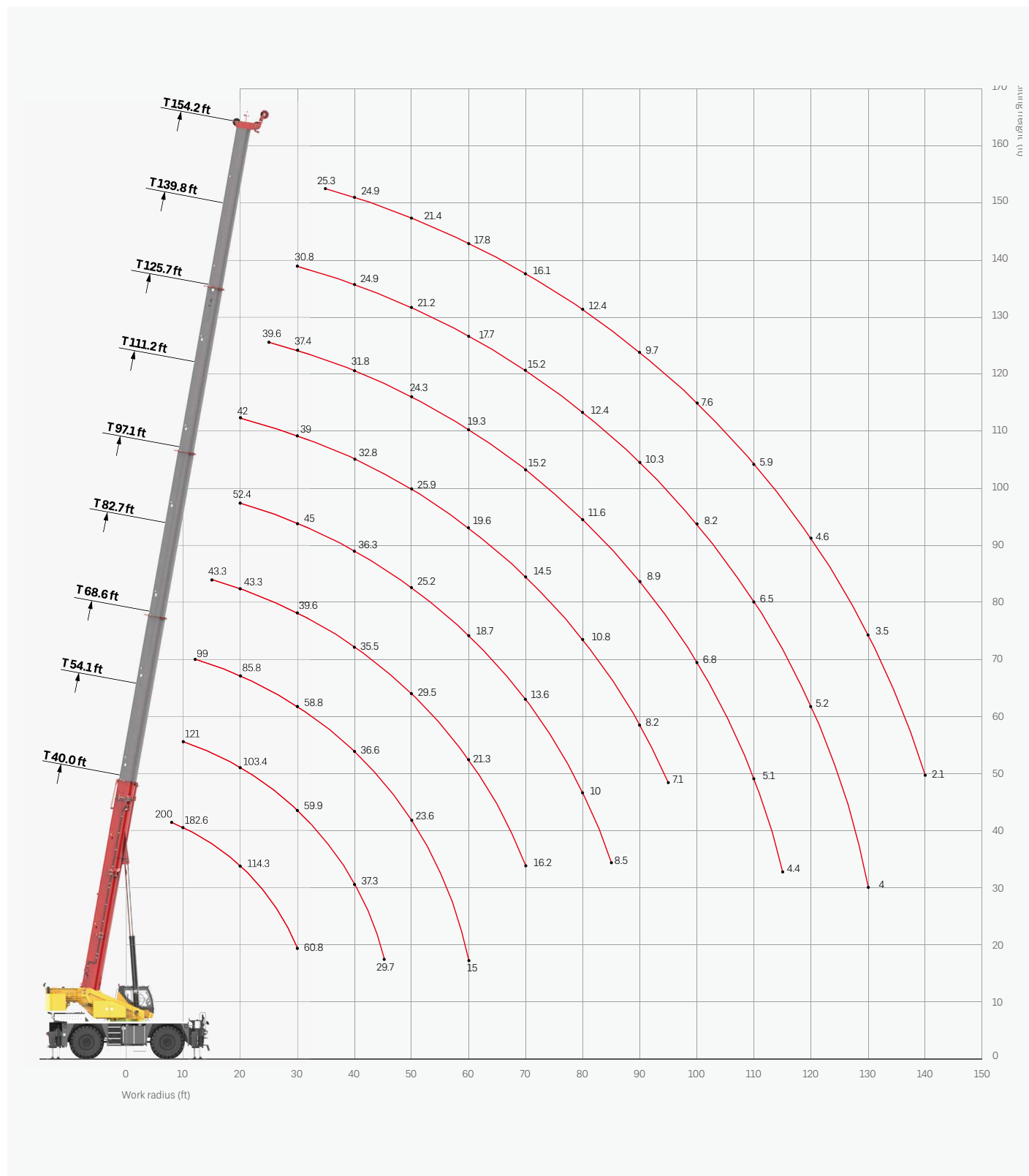
Fly Jib On Outriggers

Main Boom On Tires



# WORKING RANGE DIAGRAM – Main Boom

Lifting capacities in klb



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.

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



Unit: lbs

Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)		82.7' (25.2 m)	97.1' (29.6 m)		111.2' (33.9 m)	125.7' (38.3 m)		139.8' (42.6 m)	154.2' (47 m)	Radius (ft)
8	200,000*												8
10	182,600	121,000											10
12	157,300	119,900	99,000	55,000									12
15	138,600	116,600	99,000	55,000	43,300								15
20	114,300	103,400	85,800	55,000	43,300	52,400	41,800	42,000					20
25	82,100	77,600	71,100	49,100	43,300	52,400	38,100	42,000	39,600	33,000			25
30	60,800	59,900	58,800	46,200	39,600	45,000	37,400	39,000	37,400	30,800	30,800		30
35		48,300	47,600	42,500	36,400	39,800	34,500	35,800	35,200	27,100	28,200	25,300	35
40		37,300	36,600	40,300	35,500	36,300	31,300	32,800	31,800	25,900	24,900	24,900	40
45		29,700	29,100	33,300	31,300	30,700	27,900	29,100	27,300	25,000	23,000	23,500	45
50			23,600	28,400	29,500	25,200	25,500	25,900	24,300	23,800	21,200	21,400	50
55			19,200	23,900	24,900	21,300	23,600	22,000	22,100	21,600	19,400	19,600	55
60			15,000	17,600	21,300	18,700	21,900	19,600	19,300	18,600	17,700	17,800	60
65					18,400	15,900	19,100	16,700	16,600	16,400	16,100	16,900	65
70					16,200	13,600	16,800	14,500	15,200	15,200	15,200	16,100	70
75						11,700	14,800	12,500	13,200	13,600	13,800	14,100	75
80						10,000	13,100	10,800	11,600	12,300	12,400	12,400	80
85						8,500	11,500	9,300	10,000	11,600	11,500	10,800	85
90								8,200	8,900	11,100	10,300	9,700	90
95								7,100	7,800	9,900	9,200	8,600	95
100									6,800	9,000	8,200	7,600	100
105									5,900	8,200	7,300	6,700	105
110									5,100	7,300	6,500	5,900	110
115									4,400	6,600	5,800	5,200	115
120											5,200	4,600	120
125											4,600	4,000	125
130											4,000	3,500	130
135												2,600	135
140												2,100	140
Extending modes													
Tele 1	0%	50%	100%	0%	0%	100%	0%	100%	100%	0%	50%	100%	Tele 1
Tele 2	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 2
Tele 3	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 3
Tele 4	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 4
Parts of line	12	10	8	4	4	4	4	4	4	4	4	4	Parts of line
Min. boom angle	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	14°	Min. boom angle
Capacity at min. angle	24,700	11,700	6,100	8,800	6,300	2,900	3,700	2,100	1,500	2,800	1,600	1,500	Capacity at min. 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.



# LOAD CHARTS – Main Boom, On 50% Outriggers, 360°

Unit: lbs



Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)		82.7' (25.2 m)	97.1' (29.6 m)		111.2' (33.9 m)	125.7' (38.3 m)		139.8' (42.6 m)	154.2' (47 m)	Radius (ft)
10	154,300												10
12	147,700	101,400	77,600	48,500									12
15	129,200	101,400	77,600	48,500	41,200								15
20	88,600	93,300	77,600	48,500	41,200	46,300	36,800	39,000					20
25	58,800	56,500	54,800	48,500	41,200	46,300	36,800	39,000	35,300	28,700			25
30	41,500	40,400	39,500	39,700	37,500	41,600	36,800	36,200	35,300	28,700	24,700		30
35		29,500	28,700	35,000	35,300	34,700	34,400	33,200	34,100	26,500	24,700	24,100	35
40		22,700	22,000	28,000	28,900	25,300	29,600	26,300	27,100	25,100	24,700	23,500	40
45		17,800	17,200	23,000	23,800	20,400	24,500	21,400	22,200	23,800	24,700	22,700	45
50			13,600	19,200	19,800	16,300	20,700	17,600	18,400	21,400	20,400	19,400	50
55			10,600	16,100	16,500	13,200	17,600	14,600	15,400	18,300	17,300	16,400	55
60			7,800	13,100	14,300	11,000	15,100	12,200	12,900	15,800	14,800	13,900	60
65					12,100	8,800	13,100	10,200	10,900	13,800	12,700	11,900	65
70					10,500	7,200	11,400	8,600	9,300	12,100	11,100	10,200	70
75						5,700	10,000	7,000	7,900	10,700	9,700	8,800	75
80						4,400	8,700	5,900	6,600	9,400	8,400	7,600	80
85						3,300	7,600	4,400	5,300	8,300	7,300	6,400	85
90								3,300	4,400	7,400	6,400	5,600	90
95								2,200	3,100	6,600	5,600	4,800	95
100									2,200	5,800	4,900	4,000	100
105										5,100	4,200	3,300	105
110										4,500	3,600	2,200	110
115										4,000	3,100		115
Extending modes													
Tele 1	0%	50%	100%	0%	0%	100%	0%	100%	100%	0%	50%	100%	Tele 1
Tele 2	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 2
Tele 3	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 3
Tele 4	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 4
Parts of line	12	8	6	4	4	4	4	4	4	4	4	4	Parts of line
Min. boom angle	0°	0°	0°	0°	0°	17°	0°	20°	30°	0°	23°	39°	Min. boom angle
Capacity at min. angle	14,700	6,600	2,800	5,400	3,700	2,800	2,600	1,900	1,500	1,400	1,600	1,600	Capacity at min. 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.

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

Unit: lbs



Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)		82.7' (25.2 m)	97.1' (29.6 m)		111.2' (33.9 m)	125.7' (38.3 m)		139.8' (42.6 m)	154.2' (47 m)	Radius (ft)
12	66,400												12
15	60,400	37,500	33,900										15
20	36,800	35,800	33,900	38,400	35,300	27,600							20
25	24,700	23,800	22,000	28,100	28,900	25,800	29,500	26,700	20,700	27,800			25
30	18,100	17,300	15,100	21,400	22,100	19,300	22,700	20,000	20,700	23,300	22,400		30
35		12,300	10,700	16,300	16,900	14,200	17,500	14,900	15,600	18,100	17,200	15,900	35
40		9,000	7,400	12,900	13,600	10,900	14,100	11,600	12,200	14,700	13,800	11,700	40
45		6,500	4,700	10,400	11,000	8,500	11,600	9,200	9,800	12,100	11,300	9,400	45
50			3,500	8,500	9,100	6,600	9,600	7,300	7,800	10,200	8,000	7,300	50
55			2,200	6,900	7,500	5,000	8,000	5,700	6,300	8,000	6,500	5,400	55
60				4,900	6,200	3,700	6,700	4,400	5,000	6,300	5,100		60
65					5,100	2,700	5,100	3,300	3,900	5,000			65
70					4,200		3,800			4,300			70
75							2,400			2,900			75
80							2,000			2,400			80
Extending modes													
Tele 1	0%	50%	100%	0%	0%	100%	0%	100%	100%	0%	50%	100%	Tele 1
Tele 2	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 2
Tele 3	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 3
Tele 4	0%	0%	0%	33%	50%	33%	66%	50%	66%	100%	100%	100%	Tele 4
Parts of line	6	4	4	4	4	4	4	4	4	4	4	4	Parts of line
Min. boom angle	0°	0°	26°	0°	0°	43°	25°	49°	55°	45°	60°	65°	Min. boom angle
Capacity at min. angle	7,500	2,500	1,500	2,400	1,600	1,500	1,500	2,200	1,800	1,800	2,200	2,200	Capacity at min. angle
Max. boom angle	69°	74°	78°	73°	74°	79°	75°	80°	80°	78°	80°	80°	Capacity at min. angle

## Remark

1. Load capacity in the chart is the maximum weight which this crane could hoist include the hook block's weight. The hook block weighs 1228 lbs (558 kg), the overhaul ball weighs 320 lbs (145 kg).
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.

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.

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



Unit: lbs

Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)	82.7' (25.2 m)	97.1' (29.6 m)	Radius (ft)
12	43,700					12
15	39,000	36,400	34,700	33,300		15
20	31,800	31,100	29,100	27,700	26,500	20
25	23,600	23,200	24,900	25,100	25,400	25
30	18,300	18,300	19,800	19,800	21,600	30
35		13,900	15,200	15,600	16,400	35
40		11,000	11,600	13,000	14,200	40
45			8,800	10,100	10,800	45
50			7,500	9,100	9,700	50
55			6,000	7,500	8,000	55
60			4,200	5,900	6,400	60
65				4,600	5,300	65
70				3,400	4,000	70
75					3,100	75
Extending modes						
Tele 1	0%	0%	0%	0%	0%	Tele 1
Tele 2	0%	17%	33%	50%	66%	Tele 2
Tele 3	0%	17%	33%	50%	66%	Tele 3
Tele 4	0%	17%	33%	50%	66%	Tele 4
Parts of line	4	4	4	4	4	Parts of line
Min. boom angle	0°	0°	0°	0°	30°	Min. boom angle
Capacity at min. angle	10,300	5,800	3,300	2,200	2,200	Capacity at min. angle
Max. boom angle	75°	77°	80°	80°	80°	Max. 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.



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



Unit: lbs

Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)	82.7' (25.2 m)	97.1' (29.6 m)	Radius (ft)
15	24,000					15
20	16,800	17,400	18,100			20
25	10,200	11,300	12,000	12,300	12,600	25
30	6,600	7,900	8,600	9,000	9,300	30
35		5,100	5,800	6,200	6,400	35
40		3,300	4,000	4,200	4,600	40
45				2,900	3,100	45
Extending modes						
Tele 1	0%	0%	0%	0%	0%	Tele 1
Tele 2	0%	17%	33%	50%	66%	Tele 2
Tele 3	0%	17%	33%	50%	66%	Tele 3
Tele 4	0%	17%	33%	50%	66%	Tele 4
Parts of line	4	4	4	4	4	Parts of line
Min. boom angle	0°	29°	46°	50°	57°	Min. boom angle
Capacity at min. angle	3,300	2,200	2,200	2,200	2,200	Capacity at min. angle
Max. boom angle	62°	65°	68°	71°	72°	Max. 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.

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

Unit: lbs



Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)	82.7' (25.2 m)	97.1' (29.6 m)	Radius (ft)
12	39,700					12
15	39,700	33,400	28,700	25,600		15
20	28,900	27,300	25,600	24,200	23,000	20
25	21,300	22,200	23,600	22,400	21,600	25
30	16,500	17,600	18,700	19,000	19,200	30
35		13,100	14,100	15,100	15,600	35
40		10,400	10,800	12,600	13,500	40
45		6,600	8,200	9,700	10,200	45
50			6,900	8,800	9,200	50
55			5,600	7,300	7,500	55
60			4,000	5,700	5,900	60
65				4,300	4,800	65
70				3,300	3,600	70
Extending modes						
Tele 1	0%	0%	0%	0%	0%	Tele 1
Tele 2	0%	17%	33%	50%	66%	Tele 2
Tele 3	0%	17%	33%	50%	66%	Tele 3
Tele 4	0%	17%	33%	50%	66%	Tele 4
Parts of line	4	4	4	4	4	Parts of line
Min. boom angle	0°	0°	0°	0°	34°	Min. boom angle
Capacity at min. angle	8,800	4,400	2,200	1,500	2,200	Capacity at min. angle
Max. boom angle	75°	77°	80°	80°	80°	Max. 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.

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

Unit: lbs



Radius (ft)	40.0' (12.2 m)	54.1' (16.5 m)	68.6' (20.9 m)	82.7' (25.2 m)	97.1' (29.6 m)	Radius (ft)
10	88,200	55,100				10
12	77,200	50,700	48,500			12
15	66,100	46,300	44,100	39,700		15
20	52,900	39,700	39,700	37,500	35,300	20
25	37,500	33,100	35,300	35,300	30,900	25
30	24,300	26,500	26,500	30,900	26,500	30
35		19,800	22,000	22,000	22,000	35
40		15,400	16,500	16,500	17,600	40
45		11,000	13,200	13,200	13,200	45
50			8,800	11,000	11,000	50
55			6,600	8,800	8,800	55
60				6,600	7,700	60
65				5,500	6,600	65
70				4,400	5,500	70
75					4,400	75
80					3,300	80
85					2,200	85
Extending modes						
Tele 1	0%	0%	0%	0%	0%	Tele 1
Tele 2	0%	17%	33%	50%	66%	Tele 2
Tele 3	0%	17%	33%	50%	66%	Tele 3
Tele 4	0%	17%	33%	50%	66%	Tele 4
Parts of line	6	4	4	4	4	Parts of line
Min. boom angle	0°	0°	0°	0°	0°	Min. boom angle
Capacity at min. angle	13,200	6,800	3,300	2,200	1,500	Capacity at min. angle

## 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.

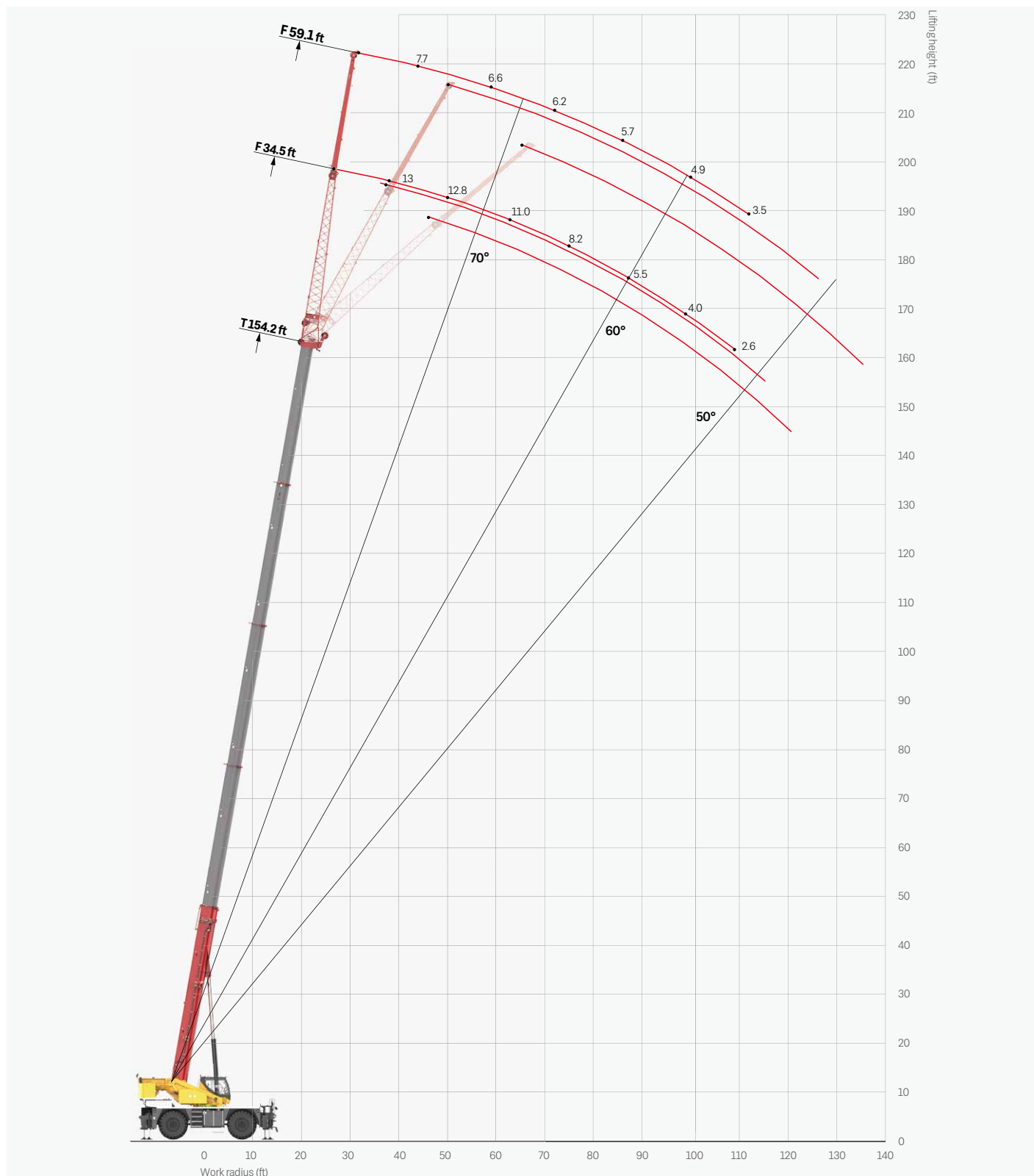
Operator must refer to in-cab load chart manual for crane operation.

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



# WORK RANGE DIAGRAM — Fly Jib

Lifting capacities in klb



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.

# LOAD CHARTS – Fly Jib

Unit: lbs



Boom angle (°)	154.2' (47m) boom + 34.5' (10.5m) jib						154.2' (47m) boom + 59.1' (18m) jib						Boom angle (°)
	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	25	13,200	37	11,000	46	9,700	30	8,400	49	5,700	65	4,600	80
78	32	13,100	43	10,600	52	9,500	37	8,100	56	5,600	71	4,500	78
76	38	13,000	49	10,100	58	9,300	44	7,700	63	5,500	78	4,400	76
74	45	12,900	55	9,500	64	9,000	51	7,000	70	5,300	84	4,300	74
72	51	12,800	61	9,000	69	8,600	59	6,600	77	5,100	90	4,200	72
70	57	12,100	67	8,400	75	8,200	66	6,400	83	4,800	96	4,000	70
68	63	11,000	73	7,700	81	7,500	72	6,200	90	4,600	102	3,700	68
66	69	9,900	79	6,800	86	6,200	79	6,000	96	4,400	108	3,500	66
64	75	8,200	85	6,000	92	5,600	86	5,700	103	4,200	114	3,300	64
62	81	6,800	91	5,500	97	5,100	93	5,300	109	3,700	120	3,100	62
60	87	5,500	96	5,100	102	4,600	99	4,900	115	3,500	125	2,900	60
58	93	4,600	101	4,000	107	3,500	106	4,200	121	3,100	130	2,600	58
56	98	4,000	107	2,900	112	2,600	112	3,500	127	2,400	136	2,400	56
54	103	3,500	112	2,600	117	2,400							54
52	109	2,600	117	2,400	121	2,200							52
Parts of line	1												Parts of line
Min. boom angle	50°						54°						Min. boom angle
Load at Min. angle		1,200		1,100		1,000		1,200		1,100		1,000	Load at Min. angle

## 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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