
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 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 2022 Crane models only.


# PROUDLY MADE FOR AMERICA

MODEL
**SRA1000A**

MAX CAPACITY
**100 USt**

BOOM LENGTH
**154.2'**

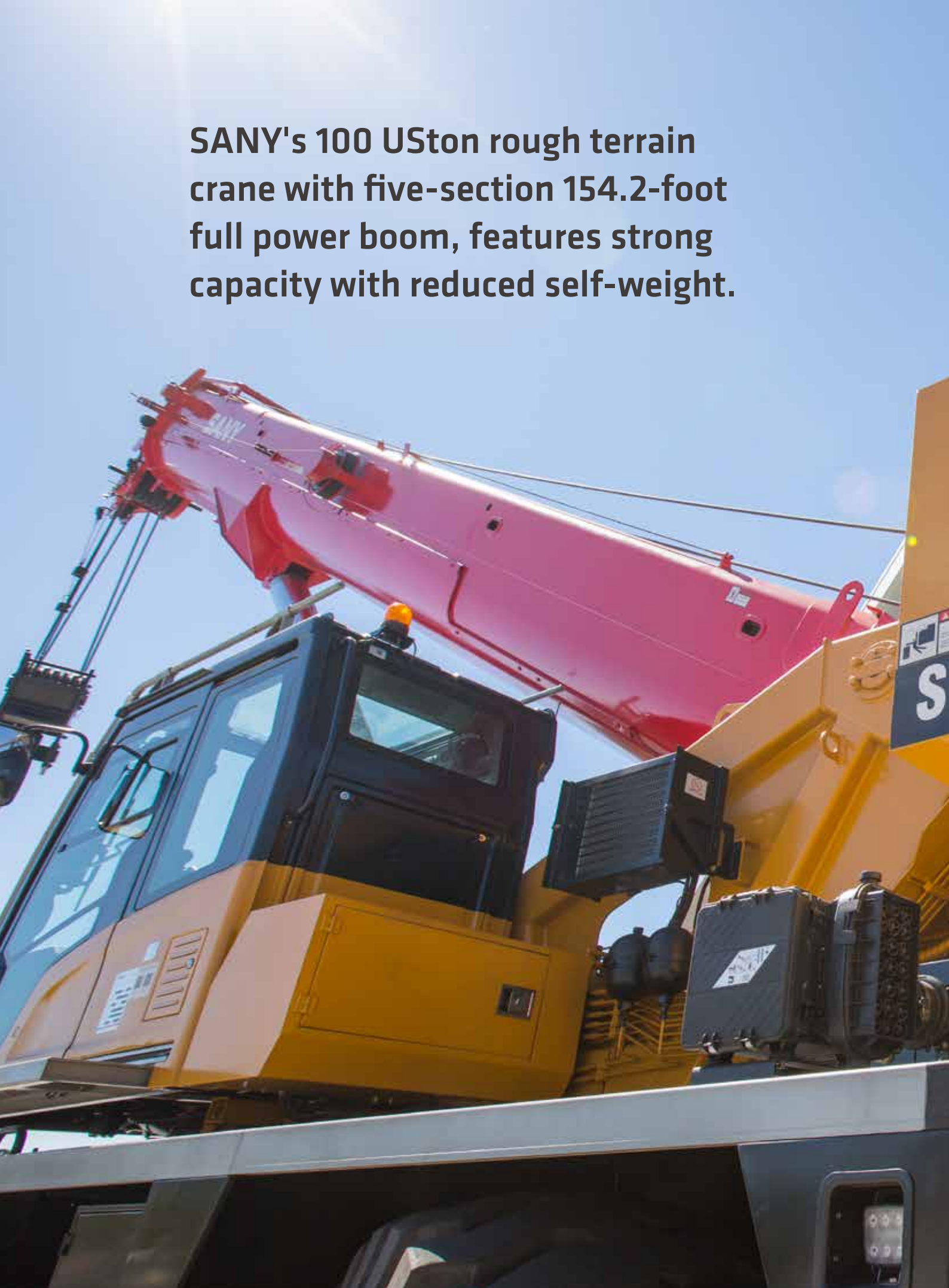
JIB LENGTH
**34.5' - 59.1'**

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 UStton rough terrain crane with five-section 154.2-foot full power boom, features strong capacity with reduced self-weight.**




RA1000A


**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.

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## 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

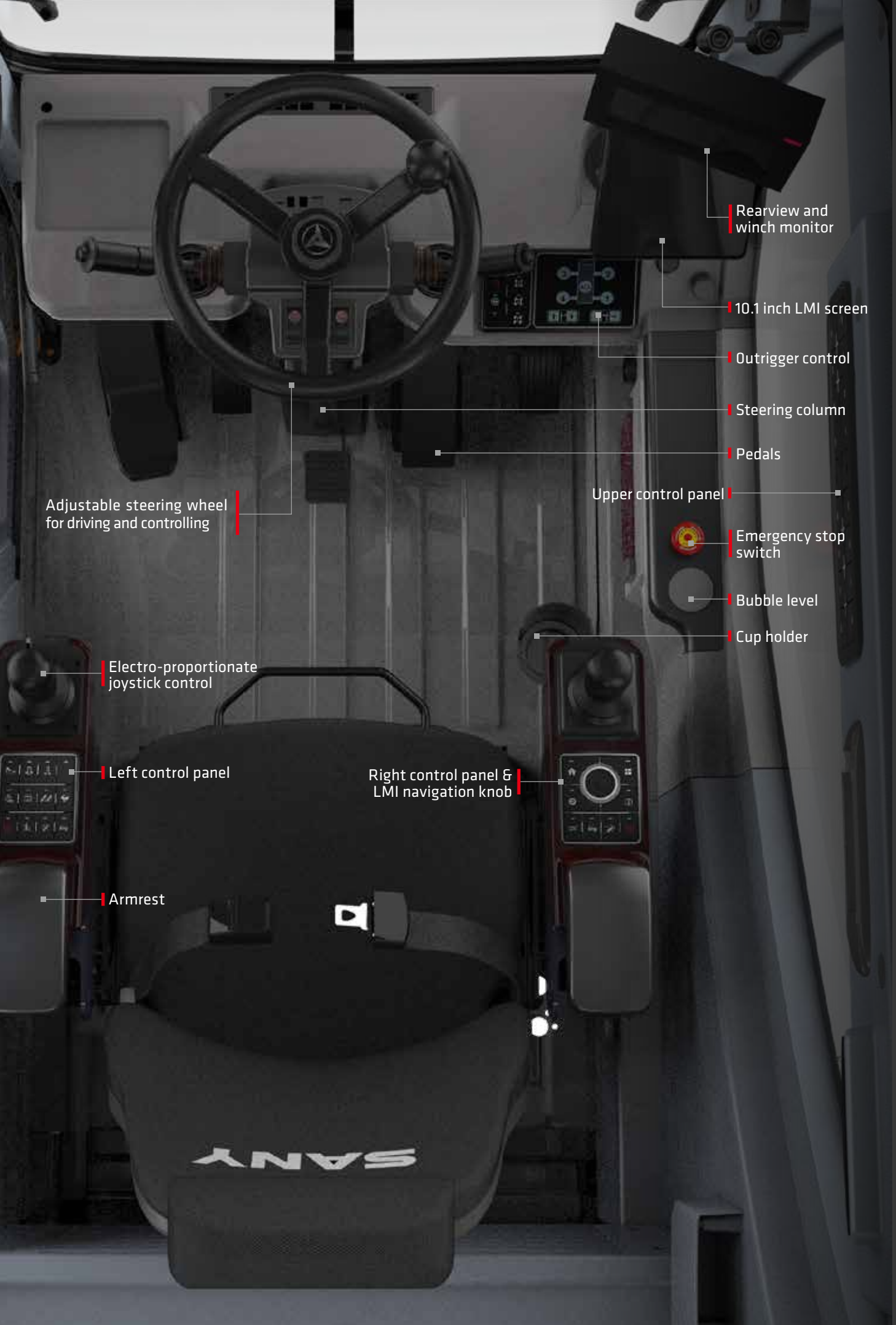
To provide peace of mind and ensure maximum uptime, SANY America's rough terrain cranes are backed by a 3-year/3,000-hour industry-leading standard warranty.

## SUPPORT

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

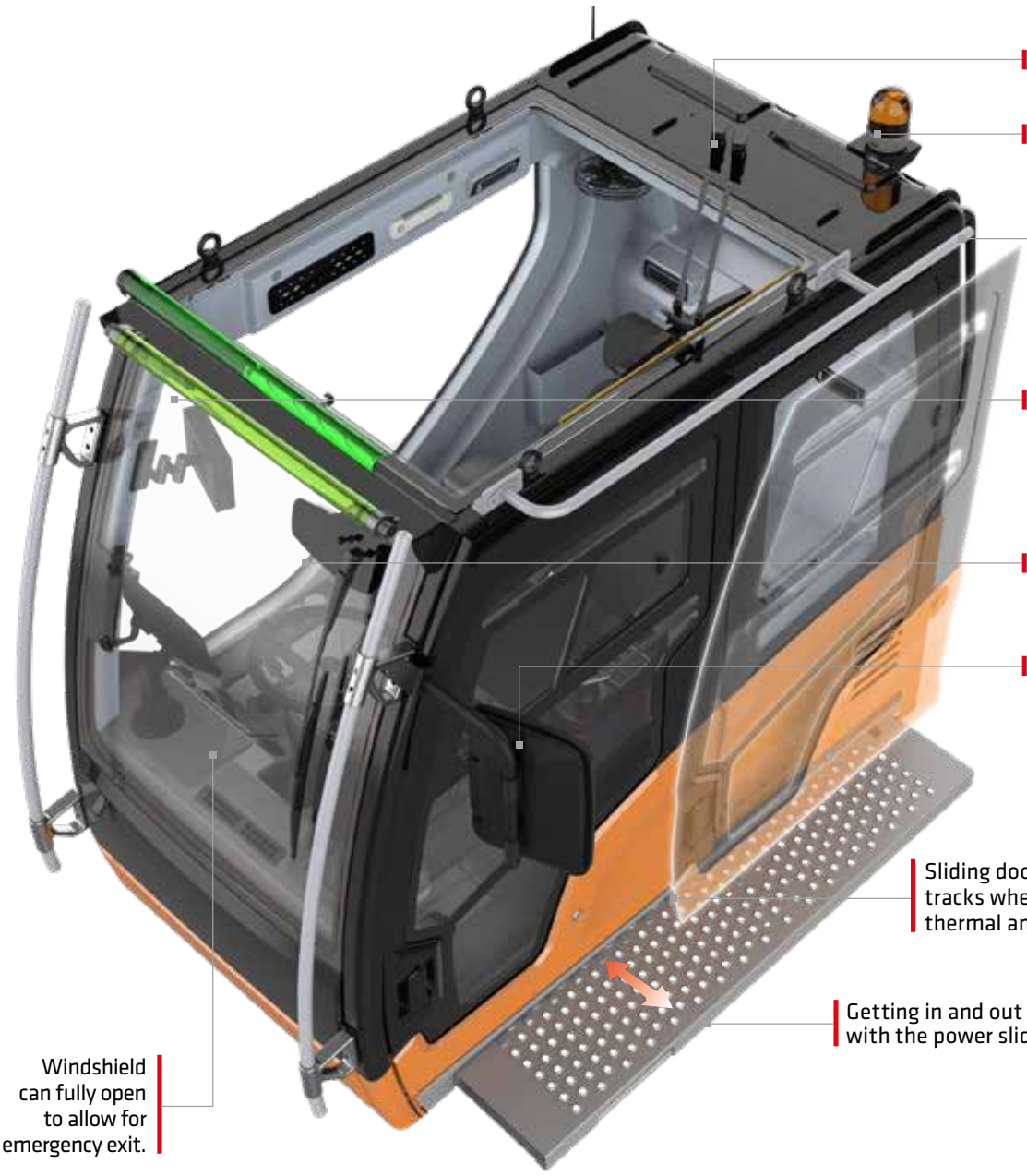
## COMPONENT BRANDS

Cummins DANA KESSLER+CO


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

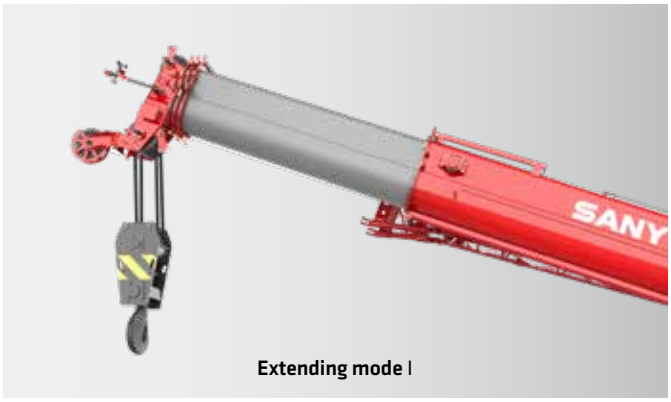
**Outstanding screen clarity**
Operators have a crisp, clear viewing screen at all times. It's well lit and low glare which makes navigating this LMI even easier any time of day.

**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.

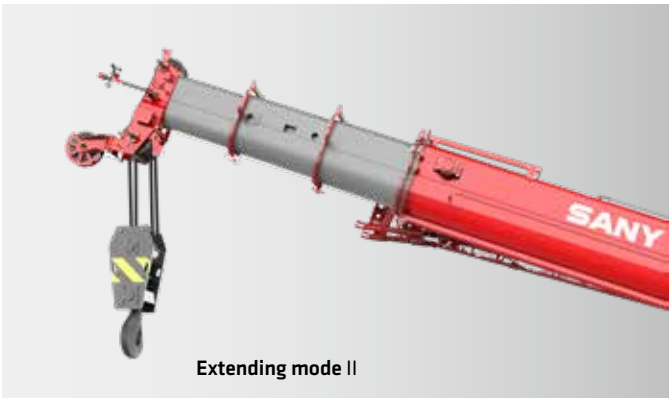
Adjustable steering wheel for driving and controlling, modular control panels, and smart user interface deliver intuitive and highly efficient control.

# HYDRAULIC SYSTEM

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




**Extending mode** I




**Extending mode** II

## 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.

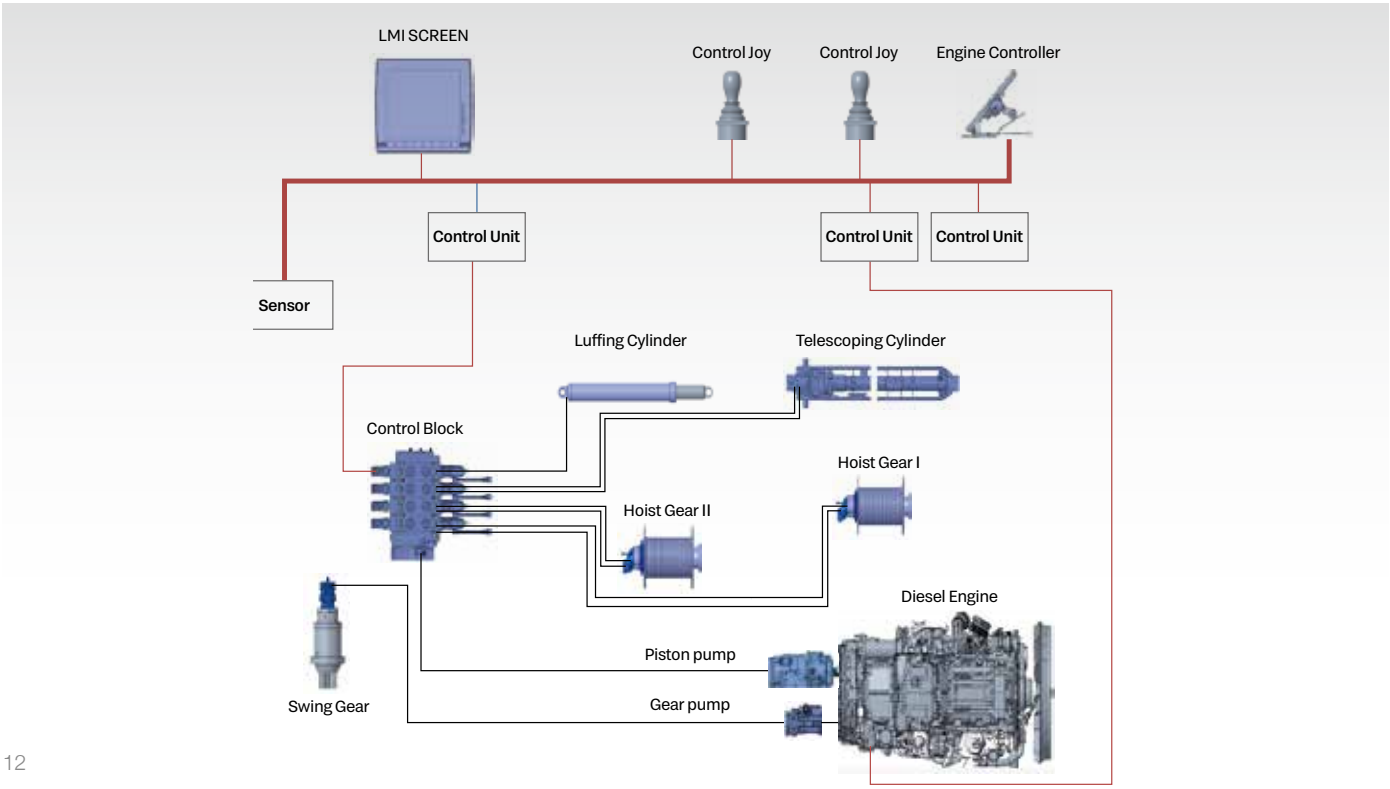
Ensuring easy operation, it has an electronically controlled load-sensing hydraulic system, electronic joystick and electronic throttle.

## 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

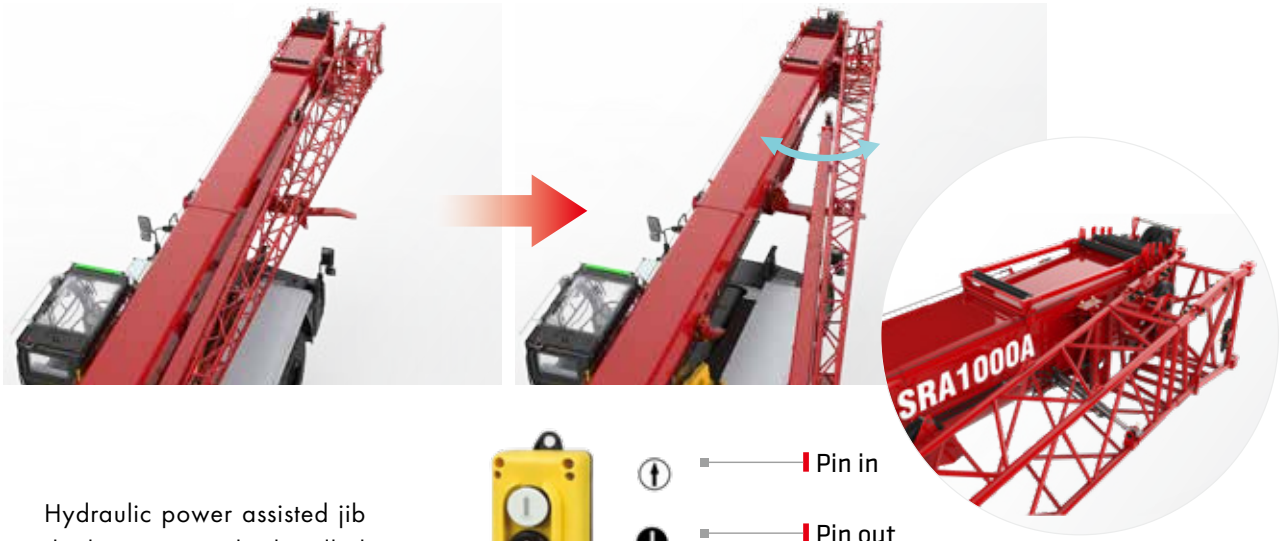
This user friendly system with a single finger control pad has built-in outrigger position sensing with and real time position on the LMI screen. The electro proportional relief valve identifies pressure staging of outrigger telescoping, satisfying operation requirements under high pressure and forming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



# SYSTEMS, FEATURES & TRUSTED COMPONENTS

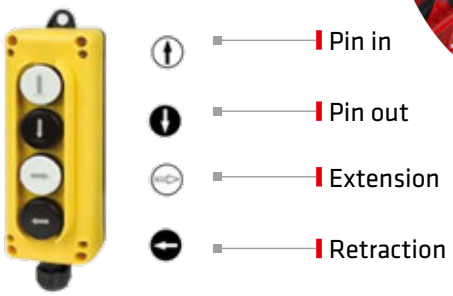
The smooth operation and reliability of our cranes is in part due to the seemless design integration of our different component systems. We followed that up with on-baord diagnostics to show electrical inputs/outputs, hydraulic pressure readings, and multiple CAN-BUS modules for problem isolation.

## JIB SETUP VIA REMOTE CONTROL



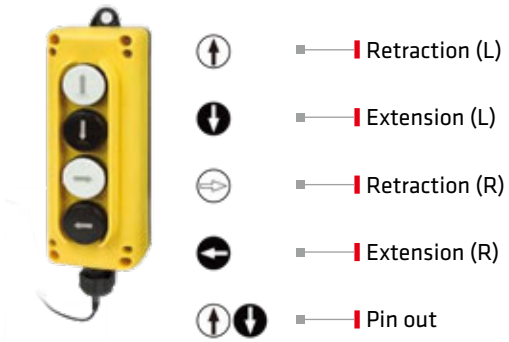

Hydraulic power assisted jib deployment can be handled by one person with the use of remote controller.

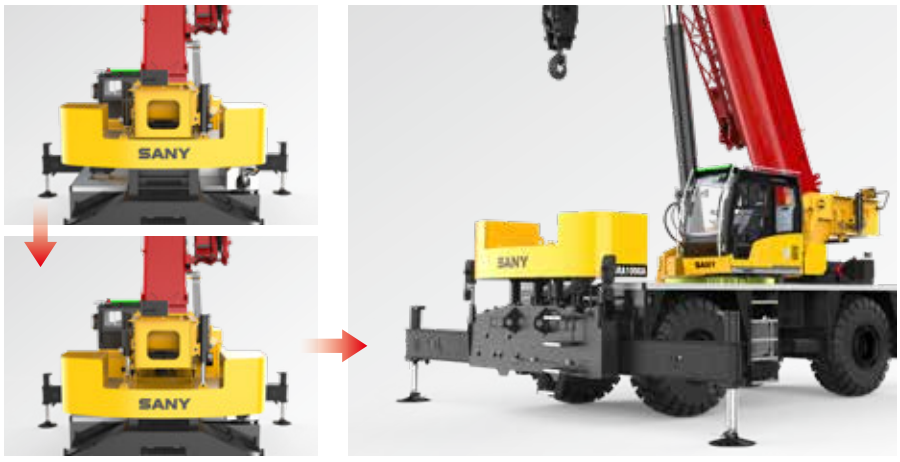
The fly jib gives the crane an extra tip height of 214.9 feet.




**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**

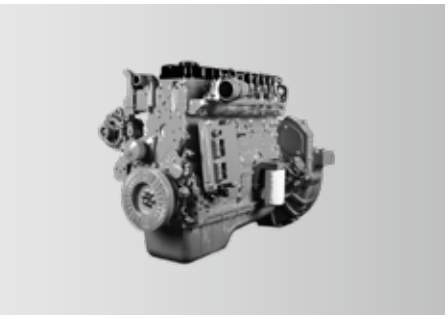
**Cable reel**

**Anemometer**

# CARRIER FRAME


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

# POWER TRAIN



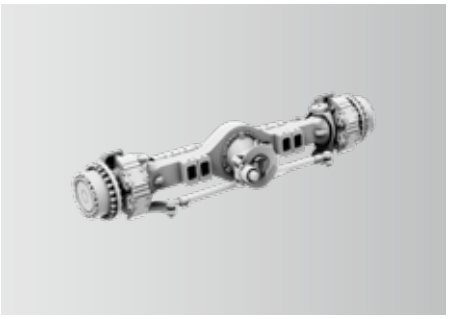
### Engine

Power comes from a Cummins QSB6.7 inline six-cylinder water-cooled, turbocharged 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

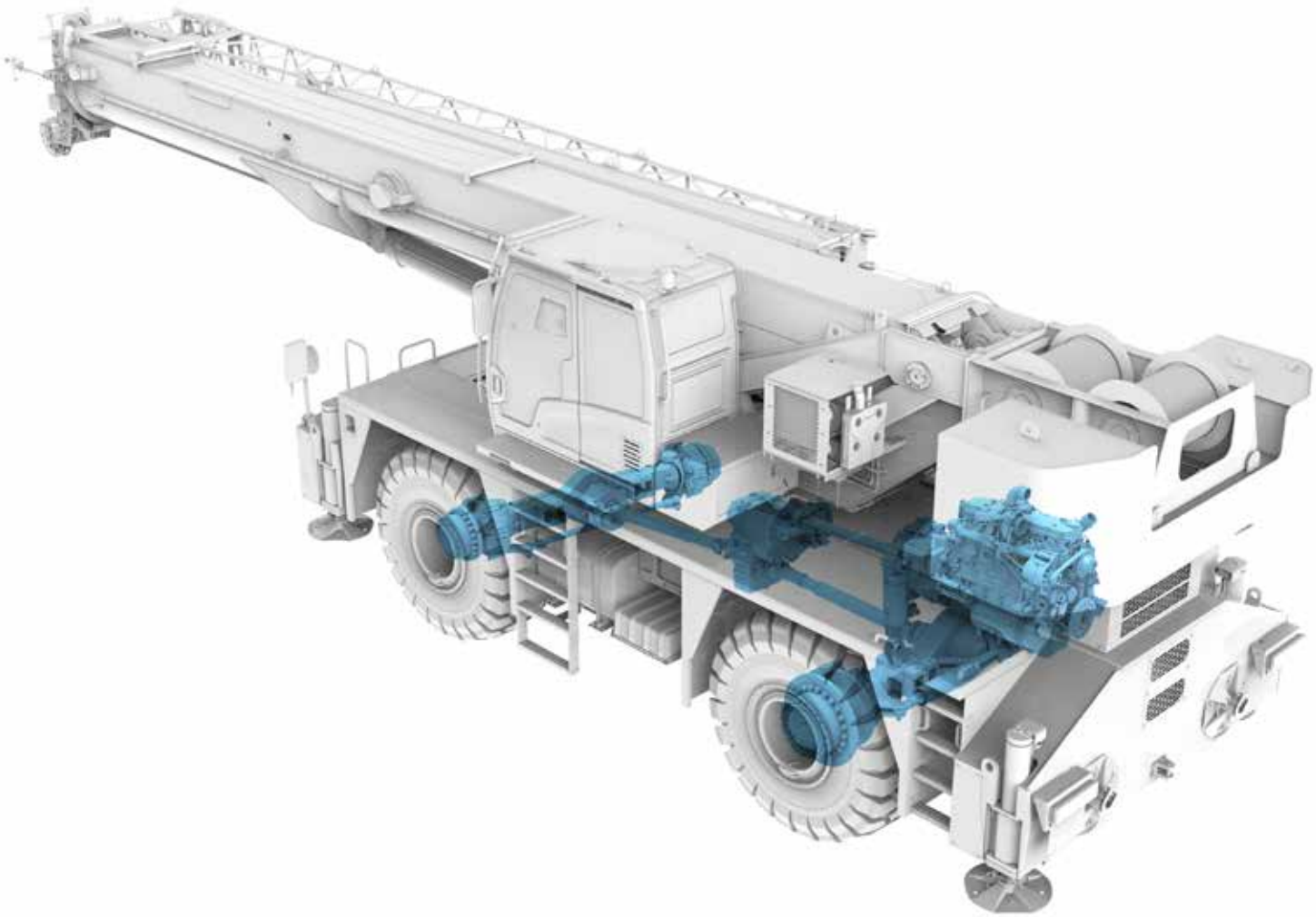
Dana electronically controlled automatic transmission features 6 speeds forward and 6 speeds reverse, wide ratio range, and smooth gearshift with hill hold feature.



### Axle and suspension

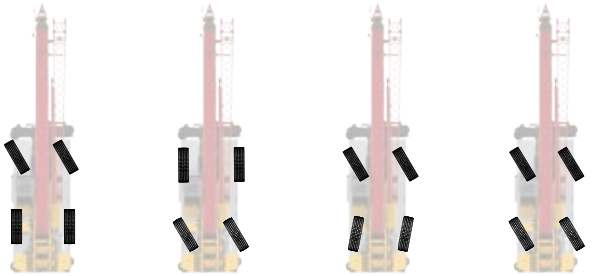
Both Kessler axles are driven and steered. The front axle is rigid mounted to the carrier frame and the rear adopts oscillation cylinders with hydraulic lockout.

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



# CONVENIENT TRANSPORT

## Four steering modes:



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 under 12.5 ft, width under 10.96 ft.

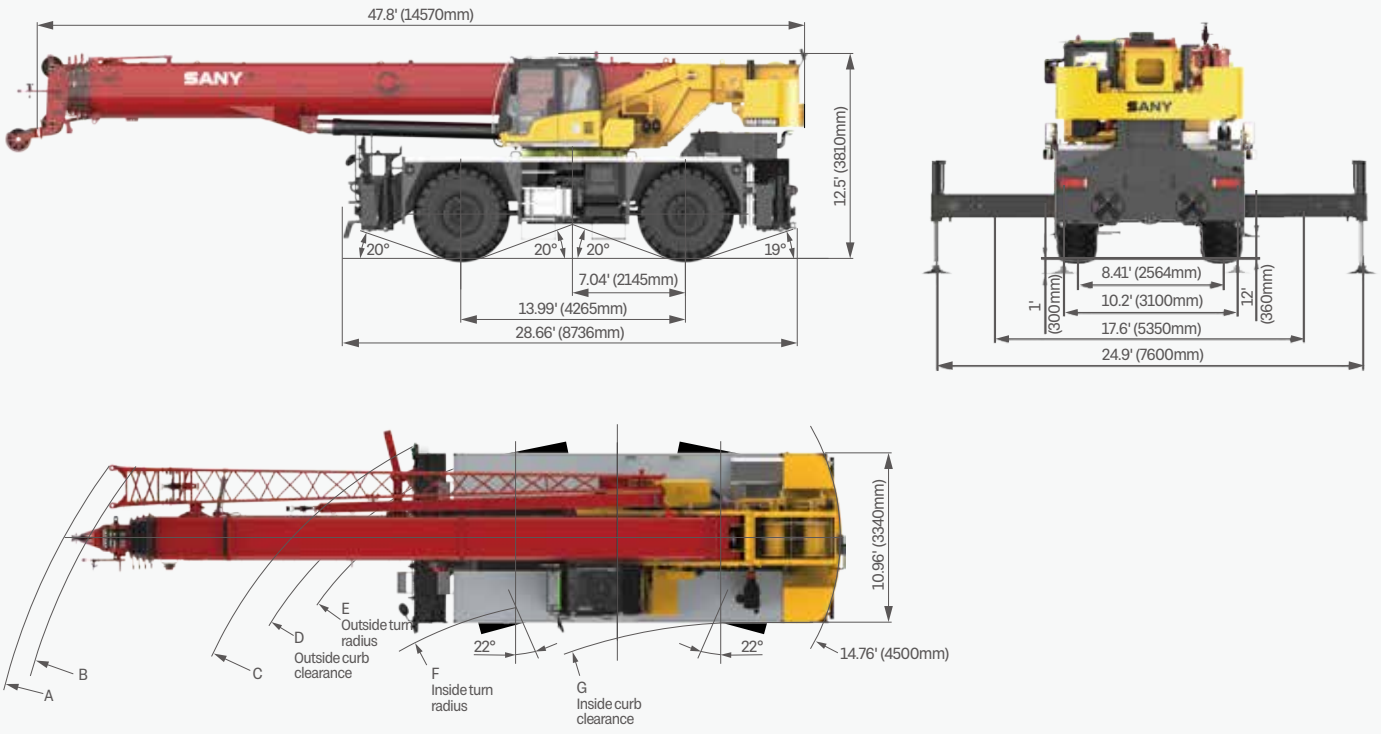

## Axle Load Distribution

| 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 USt hook block | -1,228 | -3,532 | 2,304 | -558 | -1,603 | 1,045 |
| | 8 USt hook ball | -320 | -968 | 648 | -145 | -439 | 294 |

# TRANSPORT, DIMENSIONS AND TECHNICAL SPECS

The SRA1000A'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




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TWO-WHEEL STEER | A | B | C | D | E | F | G |
| | 60' | 57.4' | 50.2' | 47.9' | 46.6' | 38.7' | 34.8' |
| | 18.3m | 17.5m | 15.3m | 14.6m | 14.2m | 11.8m | 10.6m |
| FOUR-WHEEL STEER | A | B | C | D | E | F | G |
| | 41.7' | 39.7' | 29.9' | 26.9' | 25.6' | 17.7' | 16.4' |
| | 12.7m | 12.1m | 9.1m | 8.2m | 7.8m | 5.4m | 5.0m |

# TECHNICAL SPECIFICATIONS

| CATEGORY | ITEM | | UNIT | VALUE |
|---|---|---|---|---|
| CAPACITY | Max. lifting capacity | | USt (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.

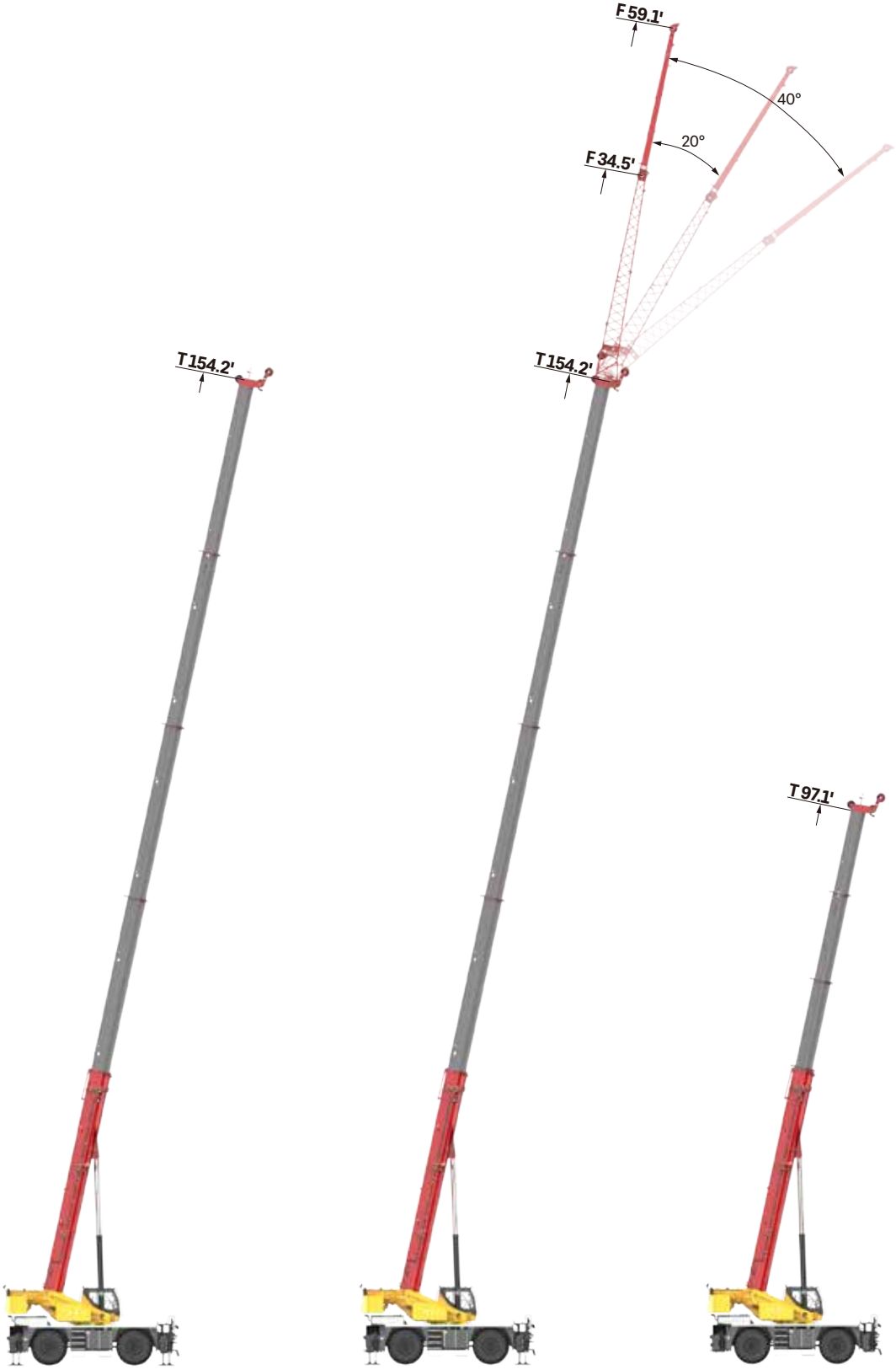
## Counterweight

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

## Electrical System

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

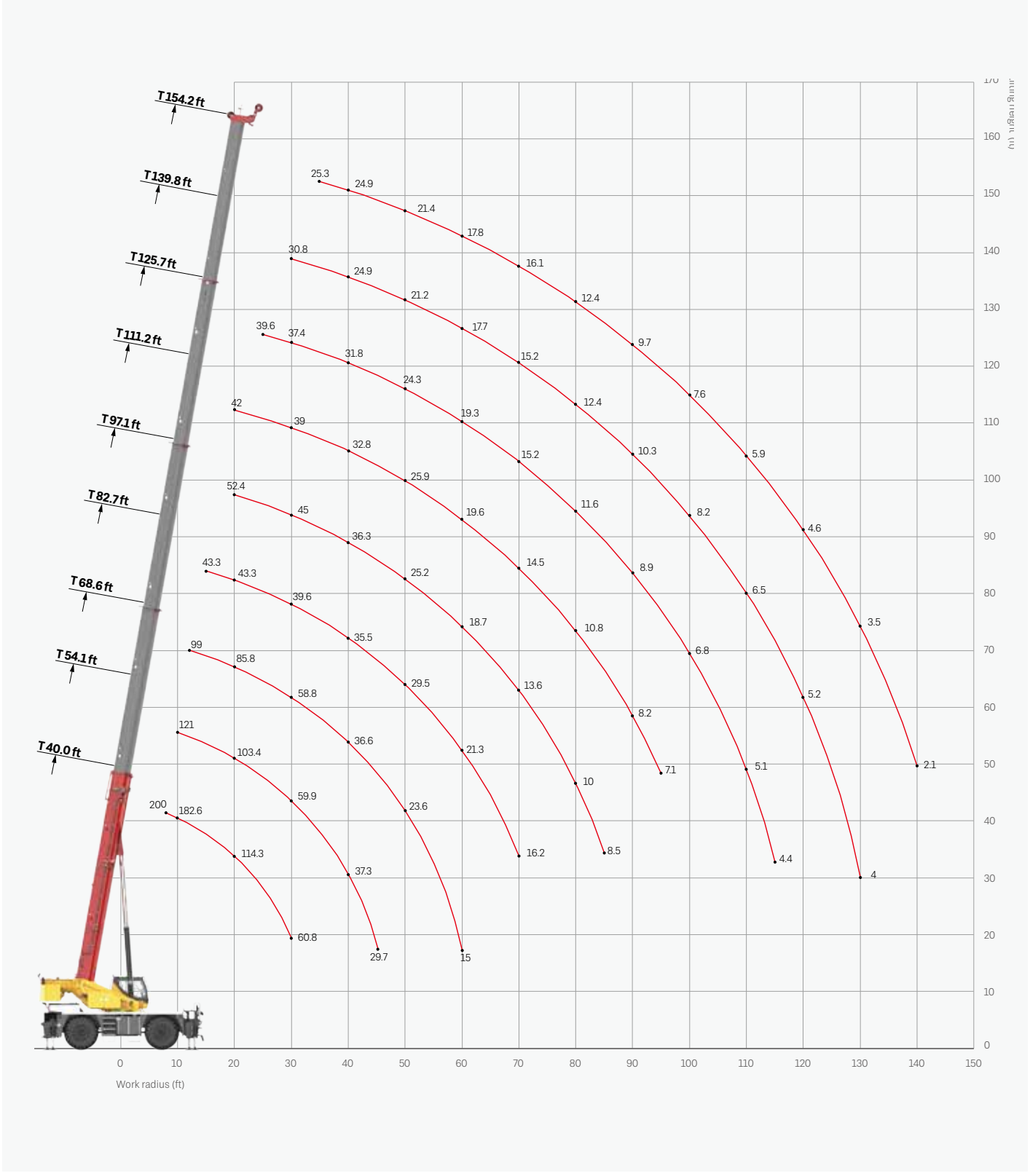
# BOOM & JIB COMBINATIONS




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

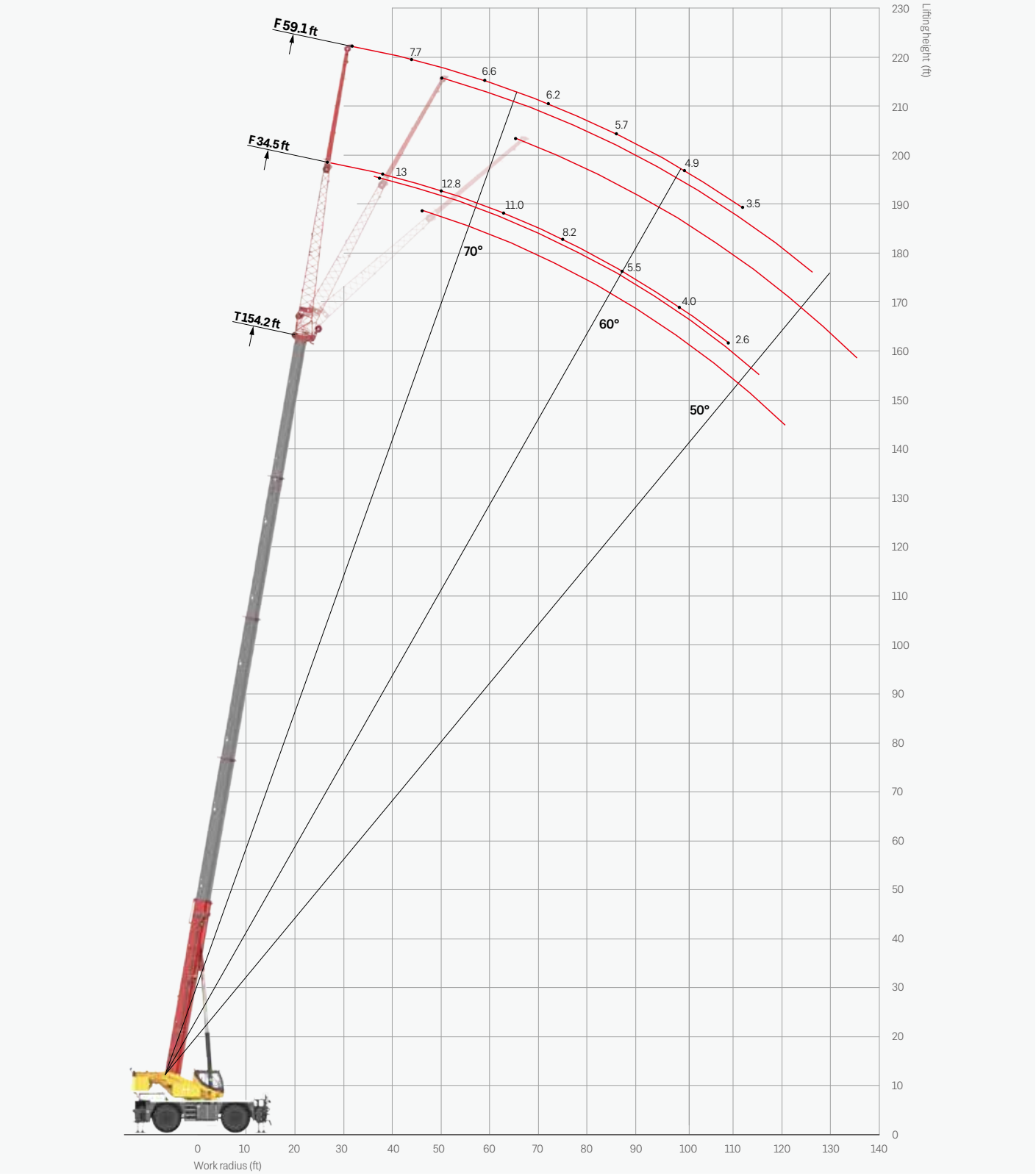
1. Capacities are applicable at 80 psi (560 kPa) cold tire inflation pressure.
2. Capacities are applicable only with machine on firm level surface.
3. On tire lifting with the jib mounted is not permitted.
4. Axle lockouts must be applied when lifting on tires.
5. Parking brake must be applied when 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.


*Warranty applies to 2022 Crane models only.

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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.