

### DIMENSIONS

### STANDARD STICK

Boom Length	15' 1"
Stick (Arm) Length	9' 10"
A Transport Length	26' 10"
B Transport Height	10' 1"
C Upper Structure Width	8' 2"
D Cab Height	9' 11"
E Blade Height	1' 7"
F Track Width	8' 6"
Track Gauge	6' 6"
G Ground Clearance	1' 5"
H Tail Swing Radius	4' 11"
I Track Length on Ground	9' 7"
J Track Length	12'

### SERVICE REFILL CAPACITIES

Fuel Tank Capacity	58.1 gal
DEF Tank Capacity	5.0 gal
Hydraulic Tank Capacity	22.5 gal
Engine Oil Capacity	4.4 gal
Cooling System Capacity	7.1 gal

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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\*Warranty applies to 2026 Excavator and Wheel Loader models

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# SY155U

**SMALL HYDRAULIC EXCAVATOR** **35,274 LBS** OPERATING WEIGHT  
**105 HP** GROSS HORSEPOWER  
**17.9 FT** MAX DIGGING DEPTH

# SANY

## TECHNICAL SPECIFICATIONS

### MACHINE DATA

Operating Weight\*  
Bolt-on Counterweight  
Ground Pressure  
**Engine Model**  
Displacement  
Net Power  
Gross Power

### Hydraulics

Main Hydraulic Pump  
Operating Flow (Max)  
Operating Pressure (Max)  
Auxiliary Flow  
Auxiliary Pressure

### Travel Motor

Travel Pressure (Max)  
Travel Speeds (Max)  
Travel Effort (Max)  
Gradability

### Swing Motor

Swing Pressure (Max)  
Swing Speed (Max)

### Undercarriage

Track Shoe Width  
Track Rollers

### STANDARD STICK

35,274 lbs  
-  
5.9 psi  
ISUZU 4JJ1X  
3.0 L  
99 HP  
105 HP  
-  
2 x Variable-Piston-Pump  
2 x 33 gpm  
4,975 psi  
66 gpm / 16 gpm  
4,975 / 2,030 psi  
2 Speed Axial Piston Motor with Planetary  
4,975 psi  
3.3 / 1.9 m/h  
25,628 lbf  
35°  
Axial Piston with Planetary Reducer  
4,496 psi  
12 rpm  
1' 11"  
7

## WORKING SPECIFICATIONS

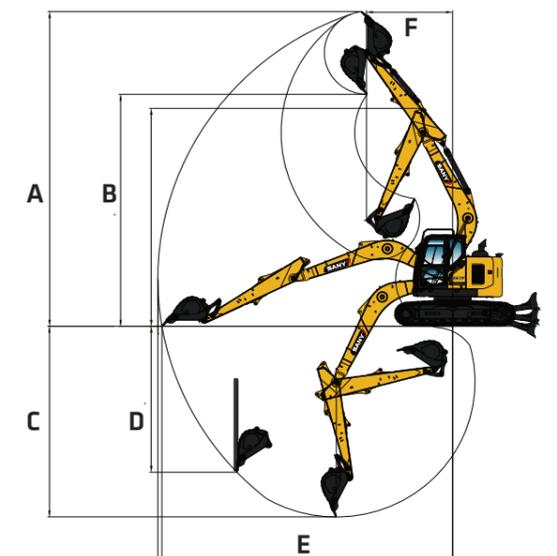
### WORKING RANGE

	STANDARD STICK
Boom Length	15' 1"
Stick (Arm) Length	9' 10"
A Maximum Digging Height	30' 3"
B Maximum Dumping Height	22' 2"
C Maximum Digging Depth	17' 11"
D Maximum Vertical Wall Digging Depth	12' 5"
E Maximum Reach at Ground Level	27' 4"
F Minimum Swing Radius	6' 10"

### DIGGING PERFORMANCE

	STANDARD STICK
Boom Length	15' 1"
Stick (Arm) Length	9' 10"
Bucket Breakout Force (ISO)	23,155 lbf
Stick (Arm) Digging Force (ISO)	15,062 lbf

\*Operating weight is for the SY155U with no attachments, and standard stick.  
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# SMALL HYDRAULIC EXCAVATOR SY155U

## STANDARD FEATURES

### ENGINE

- Isuzu AR-4J1X
- Tier 4F / EU Stage V Ready
- Auto-idle
- Dual-element dry air filter
- Engine air precleaner
- Coolant Expansion tank
- Electronic engine control
- Fan guard
- Engine coolant to -37 deg. C (-34 deg. F)
- Full-flow oil filter
- High flow cooling fan
- 500-hour engine-oil-change interval
- Fuel filter and water separator

### HYDRAULIC SYSTEM

- Spring-applied, hydraulically released automatic swing brake
- Load sensing hydraulic system
- Control pattern change valve
- Primary auxiliary hydraulic circuit with 1 and 2-way combination piping
- Secondary auxiliary hydraulics circuit
- Auxiliary hydraulic-flow adjustments through monitor
- Adjustable auxiliary pressure relief
- Quick coupler ready

### UNDERCARRIAGE

- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and middle 6 per side
- 2-speed travel selection through display and on dozer lever
- 7 lower track rollers each side
- 1 upper carrier roller each side
- Dozer blade with cylinder guarding
- Tie downs on track frame and dozer blade
- 600mm (24") wide tripple grouser steel tracks
- Undercarriage frame opening guard

### UPPERSTRUCTURE

- Right-hand, left-hand, and counterweight mirrors
- Lockable cab, hood, and service doors
- Debris screen in side panel
- Remote-mounted engine oil and fuel filters
- Daily fluid level inspection visible from ground
- Rear reflectors

### ATTACHMENTS

- Convenient grease points
- Dirt seals on all bucket pins
- Thumb bracket

### ATTACHMENTS

- Oil-impregnated bushings
- Reinforced thrust plates
- Quick coupler plumbing to end of the stick

### OPERATOR'S STATION

- Hydraulic pilot controls for boom, stick, swing, and travel operations
- Proportional auxiliary switches on joystick
- Travel levers with foot pedals
- AM/FM radio with bluetooth and USB connection port
- Rearview camera
- Cell phone tray
- Weight adjustable suspension cloth seat with fore/aft adjustment and adjustable armrests
- 3" retractable seatbelt

- Emergency stop switch
- Sliding front window
- Removable lower front window
- Window breaker
- ECO mode switch
- 8 tool selection modes
- Fully adjustable auxiliary flow circuits and pressure from display
- Multifunction LCD monitor with: Diagnostic capability / Multiple-language
- System monitoring features: Auto-idle indicator, 2-speed indicator, work-mode indicator, preheat icon, time and date, battery charge icon, throttle position, engine oil pressure alarm, DPF regeneration inhibit indicator, fuel level gauge, maintenance needed icon, failure code, standard/eco work mode icon, engine coolant temperature, coolant temp alarm, severe failure alarm, work tool mode icon, operating hours
- High performance heating, ventilation, and air conditioning system
- Operation and maintenance manual storage
- Heavy duty removeable rubber floor mat
- Front windshield wiper with high and low speed
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Interior light
- Cup holder
- Travel alarm with cancel switch
- Transparent overhead hatch with retractable sunshade

### ELECTRICAL

- 12V electrical system
- Maintenance free battery
- Ground level battery disconnect
- Terminal battery covers
- 80-amp alternator
- 12V power outlet

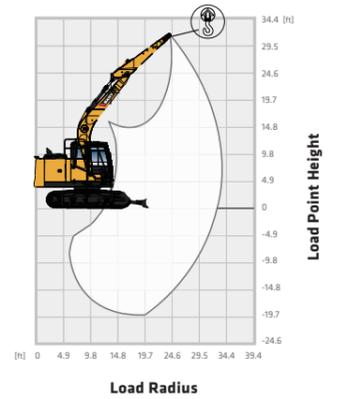
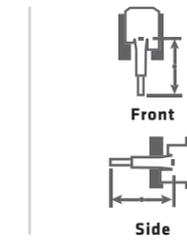
### LIGHTS

- Work lights: 2 mounted on top of cab, 1 mounted on boom, magnetic beacon

## LIFTING PERFORMANCE

- Standard 15' 1" Boom
- Standard 9' 10" Stick
- Standard 1' 11" Track Shoes
- No Bucket

Ratings are based on ISO 10567:2007. Lift capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of hydraulic lifting capacity.



## Blade Up

LOAD RADIUS	6.5'		9.8'		13.1'		16.4'		19.7'		22.9'		AT MAX REACH	
LOAD POINT HEIGHT														
7 ft					7,341 lbs	7,341 lbs							5,540 lbs	5,540 lbs
6 ft					8,880 lbs	7,968 lbs	7,244 lbs	5,869 lbs					4,833 lbs	4,833 lbs
5 ft					9,173 lbs	7,879 lbs	7,879 lbs	5,862 lbs	5,657 lbs	4,478 lbs			4,515 lbs	4,330 lbs
4 ft			10,377 lbs	10,377 lbs	10,132 lbs	7,635 lbs	7,749 lbs	5,732 lbs	6,127 lbs	4,447 lbs			4,389 lbs	3,818 lbs
3 ft			13,453 lbs	10,091 lbs	9,784 lbs	7,264 lbs	7,542 lbs	5,525 lbs	6,021 lbs	4,339 lbs			4,394 lbs	3,510 lbs
2 ft			12,608 lbs	9,246 lbs	9,361 lbs	6,841 lbs	7,302 lbs	5,285 lbs	5,882 lbs	4,202 lbs	4,835 lbs	3,395 lbs	4,513 lbs	3,338 lbs
1 ft			12,020 lbs	8,660 lbs	8,997 lbs	6,477 lbs	7,077 lbs	5,062 lbs	5,747 lbs	4,068 lbs	4,769 lbs	3,329 lbs	4,698 lbs	3,276 lbs
0 ft			11,773 lbs	8,411 lbs	8,761 lbs	6,241 lbs	6,912 lbs	4,894 lbs	5,642 lbs	3,962 lbs			4,769 lbs	3,316 lbs
-1 ft	10,278 lbs	10,278 lbs	11,709 lbs	8,349 lbs	8,651 lbs	6,129 lbs	6,817 lbs	4,800 lbs	5,686 lbs	4,004 lbs			4,996 lbs	3,477 lbs
-2 ft	15,847 lbs	13,098 lbs	11,748 lbs	8,389 lbs	8,638 lbs	6,118 lbs	6,799 lbs	4,782 lbs	5,598 lbs	3,918 lbs			5,445 lbs	3,810 lbs
-3 ft	16,261 lbs	13,309 lbs	11,878 lbs	8,519 lbs	8,721 lbs	6,199 lbs	6,878 lbs	4,861 lbs					6,290 lbs	4,445 lbs
-4 ft			8,382 lbs	8,382 lbs	6,380 lbs	6,380 lbs							5,104 lbs	5,104 lbs

## Blade Down

	2		3		4		5		6		7		AT MAX REACH	
LOAD POINT HEIGHT														
7 ft					7,341 lbs	7,341 lbs							5,540 lbs	5,540 lbs
6 ft					8,880 lbs	7,968 lbs	7,244 lbs	5,869 lbs					4,833 lbs	4,833 lbs
5 ft					9,173 lbs	7,879 lbs	8,594 lbs	5,862 lbs	5,657 lbs	4,478 lbs			4,515 lbs	4,330 lbs
4 ft			10,377 lbs	10,377 lbs	10,132 lbs	7,635 lbs	9,035 lbs	5,732 lbs	8,318 lbs	4,447 lbs			4,389 lbs	3,818 lbs
3 ft			14,983 lbs	10,091 lbs	11,592 lbs	7,264 lbs	9,769 lbs	5,525 lbs	8,633 lbs	4,339 lbs			4,394 lbs	3,510 lbs
2 ft			18,281 lbs	9,246 lbs	13,157 lbs	6,841 lbs	10,578 lbs	5,285 lbs	9,019 lbs	4,202 lbs	5,562 lbs	3,395 lbs	4,513 lbs	3,338 lbs
1 ft			14,617 lbs	8,660 lbs	14,279 lbs	6,477 lbs	11,206 lbs	5,062 lbs	9,308 lbs	4,068 lbs	5,999 lbs	3,329 lbs	4,755 lbs	3,276 lbs
0 ft			14,972 lbs	8,411 lbs	14,617 lbs	6,241 lbs	11,442 lbs	4,894 lbs	9,339 lbs	3,962 lbs			5,157 lbs	3,316 lbs
-1 ft	10,278 lbs	10,278 lbs	18,508 lbs	8,349 lbs	14,132 lbs	6,129 lbs	11,136 lbs	4,800 lbs	9,052 lbs	4,004 lbs			5,800 lbs	3,477 lbs
-2 ft	15,847 lbs	13,098 lbs	16,367 lbs	8,389 lbs	12,831 lbs	6,118 lbs	10,132 lbs	4,782 lbs	7,725 lbs	3,918 lbs			6,883 lbs	3,810 lbs
-3 ft	16,261 lbs	13,309 lbs	13,201 lbs	8,519 lbs	10,525 lbs	6,199 lbs	8,020 lbs	4,861 lbs					6,598 lbs	4,445 lbs
-4 ft			8,382 lbs	8,382 lbs	6,380 lbs	6,380 lbs							5,104 lbs	5,104 lbs

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