

# SY50U

**SANY**

**MINI HYDRAULIC  
EXCAVATOR**

**11,707 LBS** OPERATING WEIGHT  
**47.6 HP** GROSS HORSEPOWER  
**11.4 FT** MAX DIGGING DEPTH



**BUILT FOR TIGHT  
VERSATILITY**

EASY TO OWN, OPERATE, & SERVICE

**INDUSTRY'S  
STRONGEST  
STANDARD  
WARRANTY** | **5-YEAR  
5,000 HOURS**

\*Warranty applies to 2026 Excavator and Wheel Loader models

# MADE FOR AMERICAN OPERATORS

In a quiet corner of rural Texas, a dedicated rancher relies on his SY50U to clear brush and excavate small stock ponds for his cattle operation. Every task counts, and his mini excavator is engineered to tackle them all. The reliable Yanmar engine and smooth load-sensing hydraulics with pilot control deliver the power and finesse he requires, while the 5-year/5,000-hour warranty safeguards his investment through every demanding hour. Backed by his local dealer and the SANY America team, he trusts that his machine will be up to the challenge whenever the work calls. For ranchers like him, SANY delivers essential equipment he counts on to handle the hardest jobs.



## **U** | ZERO TAIL SWING DESIGN (U)

The SY50U features a true zero tail swing design without the additional bolt-on counterweight, delivering powerful digging and lifting performance within an extremely compact footprint. An optional bolt-on counterweight adds balance and lifting stability when needed, giving operators flexibility to match the machine to the job while working confidently in space-restricted areas.

## **U** | QUICK COUPLER COMPATIBLE

The SY50U comes standard with factory quick-coupler plumbing and cab controls, with OEM couplers available through your local SANY dealer. This makes adding a coupler less expensive, easy, and fully integrated. Couplers improve jobsite efficiency, simplify transport, and increase versatility, giving you more capability from the same machine.

## **U** | COMPONENTS YOU TRUST

The SY50U is built with components by brands you know and trust. From Yanmar to Hengli, you're getting a machine made with familiar, proven, reliable systems that offer ample support. It's an ecosystem of dependable components that make ownership easier.

## **U** | ANGLE BLADE OPTION

The SY50U comes standard with a heavy-duty 4-way angle backfill blade for pushing spoil piles, backfilling trenches, and rough grading. Blade float allows the blade to follow ground contours for smoother results, while the angled blade provides a more stable working platform when digging and lifting, improving control and confidence.

## **U** | AUXILIARY HYDRAULICS

The SY50U includes factory-installed auxiliary hydraulics: a high-flow primary circuit and a circuit. The primary circuit supports one-way flow, two-way flow and continuous flow. All auxiliary pressure and flow settings are easily adjustable from the cab display.

# 8,250+ FOOT POUNDS

Bucket breakout force.



# A MACHINE THAT'S EASY TO OWN

This compact SY50U is built for versatility, giving operators an agile, capable machine equipped with an optional 4-way angle blade that improves grading control and jobsite efficiency while maintaining a compact footprint. Easy to transport behind heavy-duty pickup trucks and trailers, it remains a dependable workhorse for small job sites and landscapers who need capability without complexity. Factory quick-coupler plumbing and auxiliary hydraulic lines speed attachment changes, providing flexibility without added hassle. Built with trusted, proven components that are fully supported, the SY50U delivers long-term reliability. A durable chassis engineered for stability and safety in tight spaces helps it work hard, adapt easily, and keep ownership straightforward day after day.

# RELIABLE FROM THE INSIDE OUT

Extended operating days, crew safety, and reliable revenue all rely on equipment you trust, and the SY50U is engineered with that goal in mind—built to deliver thousands of productive working hours in demanding, space-limited jobsite conditions. Its reinforced structure is designed to handle constant digging and lifting loads, while the hydraulic system provides steady power, force, and pressure. The powertrain is built to run continuously, keeping hydraulic pumps operating all day long. Every design choice centers on reducing downtime and improving efficiency, output, and productivity. That's why the SY50U comes standard with a 5-year / 5,000-hour warranty, delivering proven reliability that helps keep your schedule moving forward.

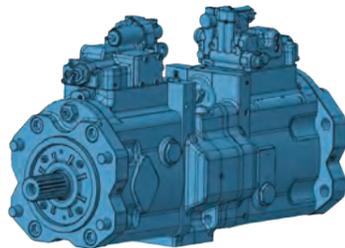
## STRUCTURAL INTEGRITY

SANY machines don't cut corners on steel. We build each machine with the material it needs to deliver strength, stability and durability. Reinforced booms and sticks with internal ribbing add stiffness and rigidity, while the reinforced X-frame undercarriage is built to take a beating on the toughest terrain. In our state-of-the-art factories, robotic welding and CNC cutting ensure every part fits properly and is welded to last. Strict quality control then confirms the structural integrity meets our standards before it ever reaches your jobsite.



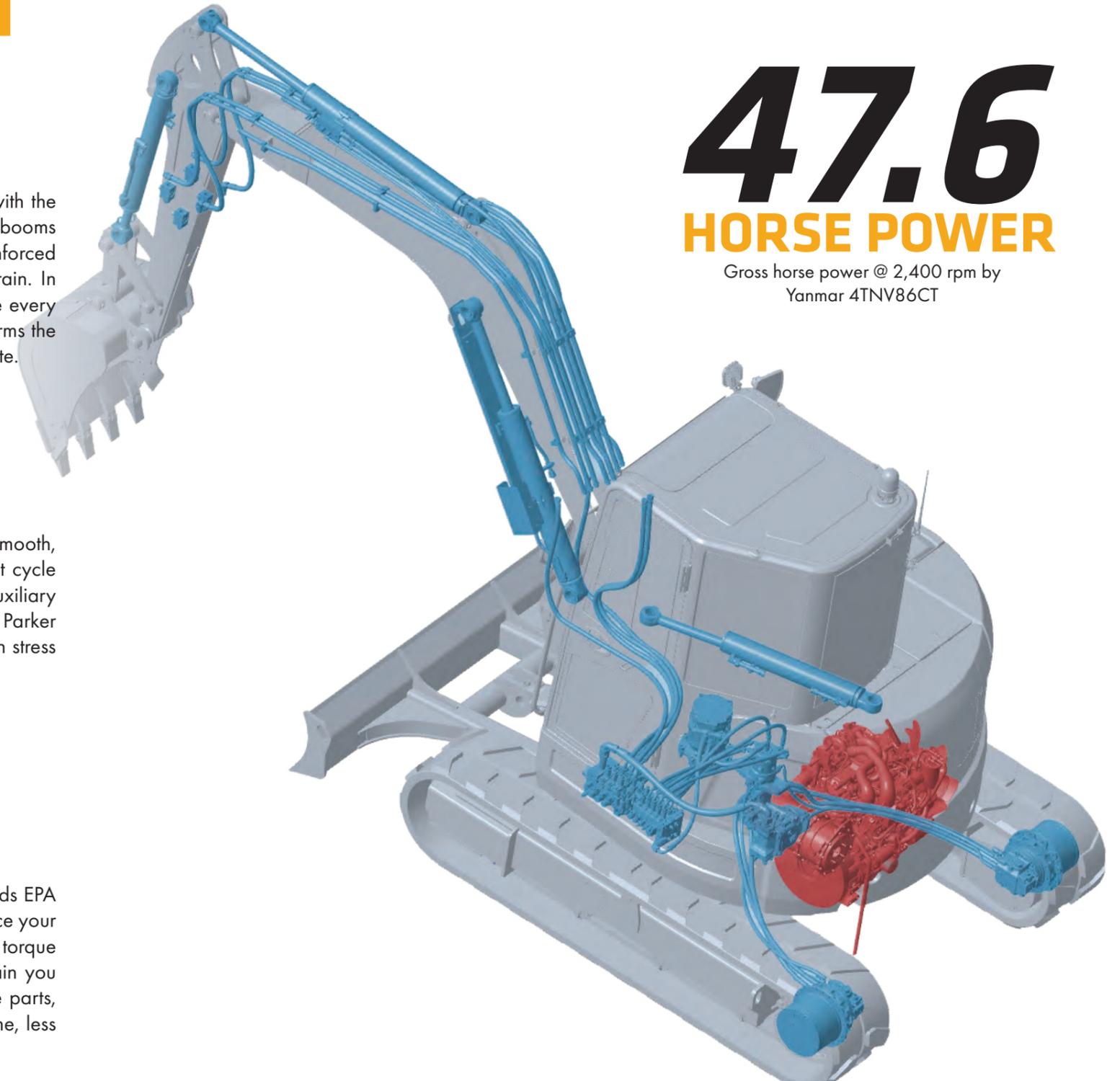
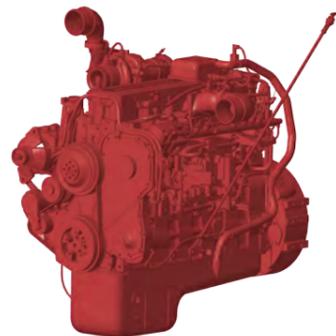
## HYDRAULIC SYSTEM

The SY50U uses a pilot-controlled hydraulic system giving operators a smooth, predictable feel at the controls. Its load-sensing hydraulics deliver fast cycle speeds, strong breakout forces and excellent lifting performance. Auxiliary hydraulic flow is easily adjustable from the cab display. And with Parker hydraulic components throughout, the system is built to handle the high stress and demanding work your projects require.



## POWERTRAIN BY YANMAR

Powered by an Yanmar 4TNV86CT diesel engine that meets or exceeds EPA emissions regulations, the SY50U provides the efficiency and compliance your business needs. With 47.6 hp at 2,400 rpm, it delivers the power and torque to run day and night on the most demanding jobsites. It's a powertrain you already know and trust—backed by a major support network—where parts, service and expertise are always within reach. That means more uptime, less worry and a machine that works as hard as you do.



# 47.6

## HORSE POWER

Gross horse power @ 2,400 rpm by  
Yanmar 4TNV86CT

# 16+ FEATURES

specifically designed for operator  
and jobsite safety.



# SAFETY PRIORITIZED

We design for safety first. Operators get secure handrails, steps, OEM FOPS cab guarding, and a ROPS-verified cab with multiple exit points. A retractable seat-belt and emergency shut-off add protection inside, while alarms, and 360° lighting enhance awareness for a safer jobsite.

# SY50U

**MINI HYDRAULIC EXCAVATOR** **11,707 LBS** OPERATING WEIGHT  
**47.6 HP** GROSS HORSEPOWER  
**11' 4"** MAX DIGGING DEPTH



## TECHNICAL SPECIFICATIONS

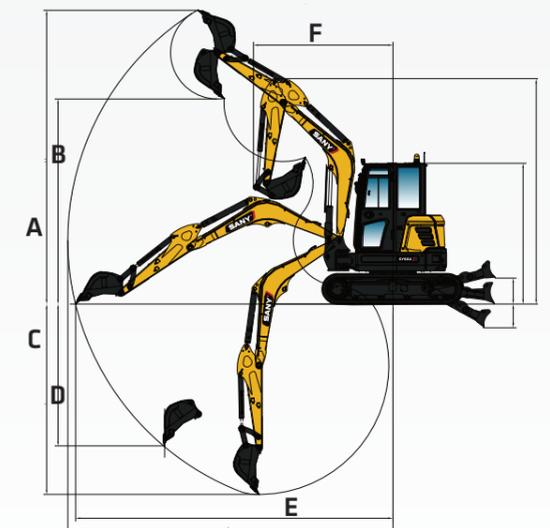
MACHINE DATA	STANDARD STICK
Operating Weight*	11,707 lbs
Bolt-on Counterweight	661 lbs
Ground Pressure	4.4 psi
<b>Engine Model</b>	4TNV86CT
Displacement	128 in <sup>3</sup>
Net Power	45.2 HP @2,400 rpm
Gross Power	47.6 HP @2,400 rpm
<b>Hydraulics</b>	Load Sensing with Pilot Control
Main Hydraulic Pump	Axial Piston - Variable Displacement
Operating Flow (Max)	38 gpm
Operating Pressure (Max)	3,989 psi
Auxiliary Flow	21.1 gpm
Auxiliary Pressure	3,626 psi
<b>Travel Motor</b>	Axial Piston with Park Brake
Travel Pressure (Max)	3,989 psi
Travel Speeds (Max)	2.5 / 1.6 mph
Travel Effort (Max)	12,994 lbf
Gradability	30°
<b>Swing Motor</b>	Axial Piston with Swing Brake
Swing Pressure (Max)	2,770 psi
Swing Speed (Max)	10 rpm
<b>Undercarriage</b>	Belted Rubber Track
Track Shoe Width	16"
Track Rollers	4 Per Side
Carrier Rollers	1 Per Side

## WORKING SPECIFICATIONS

WORKING RANGE	STANDARD STICK
Boom Length	8' 10"
Stick (Arm) Length	4' 11"
A Maximum Digging Height	17' 6"
B Maximum Dumping Height	12' 3"
C Maximum Digging Depth	11' 4"
D Maximum Vertical Wall Digging Depth	8' 6"
E Maximum Reach at Ground Level	18' 10"
F Minimum Swing Radius	8' 4"

DIGGING PERFORMANCE	STANDARD STICK
Boom Length	8' 10"
Stick (Arm) Length	4' 11"
Bucket Breakout Force (ISO)	8,273 lbf
Stick (Arm) Digging Force (ISO)	5,620 lbf



\*Operating weight is for the SY50U with no attachments, and standard stick.  
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# MINI HYDRAULIC EXCAVATOR SY50U

## STANDARD FEATURES

### ENGINE

- Yanmar 4TNV88C
- 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)
- Fuel filter with water separator
- Full-flow oil filter
- High flow cooling fan
- 500-hour engine-oil-change interval
- No scheduled DPF maintenance for 6000 hours
- Fuel filter and water separator

### HYDRAULIC SYSTEM

- Spring-applied, hydraulically released automatic swing brake
- Load sensing hydraulic system
- Control pattern change valve
- Primary auxiliary hydraulics circuit with 1 and 2-way combination piping
- Secondary auxiliary hydraulic 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 2 per side
- 2-speed travel selection through display and on dozer lever
- 4 lower track rollers each side
- 1 Upper carrier roller each side
- Dozer blade with cylinder guarding
- Tie downs on track frame and dozer blade
- 400mm (16") wide rubber track
- 4-way angle blade

- Undercarriage frame opening guard

### UPPERSTRUCTURE

- Left hand mirror
- 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

- Dirt seals on all bucket pins
- Convenient grease points
- Thumb bracket
- 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
- Cell phone tray
- Cloth seat with fore/aft adjustment
- 2" retractable seat belt
- Emergency stop switch
- 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 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 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

### ELECTRICAL

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

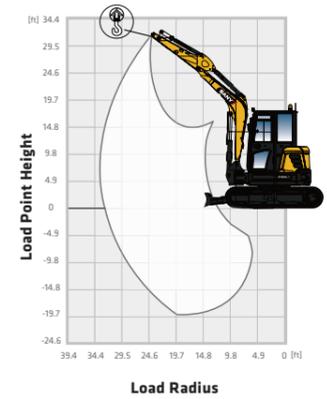
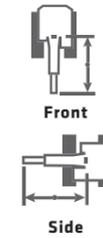
### LIGHTS

- Work lights: 3 mounted on top of cab, 1 mounted on boom, magnetic beacon

## LIFTING PERFORMANCE

- Standard 8' 10" Boom
- Standard 4' 11" Stick
- Standard 15.7" 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.



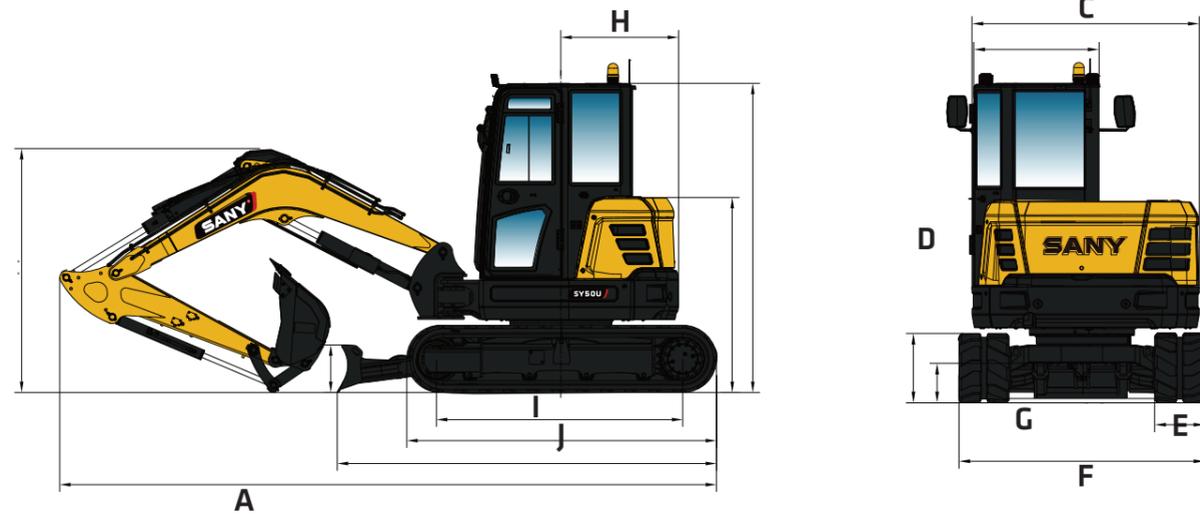
## Blade Up

B (HEIGHT)	6.6 FT		9.8 FT		13.1 FT		16.4 FT		MAX	
LOAD POINT HEIGHT										
13.1 ft									2,260 lbs	1,863 lbs
9.8 ft					2,172 lbs	1,797 lbs			1,742 lbs	1,444 lbs
6.6 ft			3,274 lbs	2,623 lbs	2,116 lbs	1,742 lbs			1,543 lbs	1,279 lbs
3.3 ft			3,086 lbs	2,447 lbs	2,039 lbs	1,675 lbs	1,499 lbs	1,069 lbs	1,488 lbs	1,058 lbs
0.0 ft			2,998 lbs	2,370 lbs	1,995 lbs	1,620 lbs			1,543 lbs	1,268 lbs
-3.3 ft	*6,030 lbs	4,409 lbs	2,987 lbs	2,370 lbs	1,984 lbs	1,620 lbs			1,764 lbs	1,444 lbs
-6.6 ft	*4,707 lbs	4,519 lbs	*3,020 lbs	2,425 lbs					*2,293 lbs	1,995 lbs

## Blade Down

B (HEIGHT)	6.6 FT		9.8 FT		13.1 FT		16.4 FT		MAX	
LOAD POINT HEIGHT										
13.1 ft									*2,392 lbs	1,863 lbs
9.8 ft					*2,315 lbs	1,797 lbs			*2,315 lbs	1,444 lbs
6.6 ft			*3,406 lbs	2,623 lbs	*2,623 lbs	1,742 lbs			*2,326 lbs	1,279 lbs
3.3 ft			*4,453 lbs	2,447 lbs	*3,009 lbs	1,675 lbs	*2,381 lbs	1,069 lbs	*2,370 lbs	1,058 lbs
0.0 ft			*4,773 lbs	2,370 lbs	*3,186 lbs	1,620 lbs			*2,425 lbs	1,268 lbs
-3.3 ft	*6,030 lbs	4,409 lbs	*4,354 lbs	2,370 lbs	*2,921 lbs	1,620 lbs			*2,425 lbs	1,444 lbs
-6.6 ft	*4,707 lbs	4,519 lbs	*3,020 lbs	2,425 lbs					*2,293 lbs	1,995 lbs

# CONNECTED, INFORMED, IN CONTROL TECHNOLOGY



DIMENSIONS	STANDARD STICK
- Boom Length	8' 10"
- Stick (Arm) Length	4' 11"
A Transport Length	17' 8"
B Transport Height	8' 5"
C Upper Structure Width	5' 11"
D Cab Height	6' 5"
E Blade Height	1' 3"
F Track Width	6' 5"
- Track Gauge	5' 1"
G Ground Clearance	1'
H Tail Swing Radius	3' 3"
I Track Length on Ground	6' 9"
J Track Length	8' 6"

SERVICE REFILL CAPACITIES	
Fuel Tank Capacity	23.78 gal
Hydraulic Tank Capacity	13.74 gal
Engine Oil Capacity	1.95 gal
Cooling System Capacity	1.11 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

SANY America Inc. 318 SANY Way  
Peachtree City, Georgia 30269  
470.552.SANY sanyamerica.com



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## CONNECTED EVI TELEMATICS

EVI is SANY's proprietary telematics platform and is available through your local dealer on excavators. This dashboard lets you track and geofence the machine, view reports on consumption and run time, monitor error codes and manage your SANY fleet—all with more features continually being launched to keep you connected and in control.

## ATTACHMENT CONTROL

The SY50U's in-cab display includes preset attachment profiles and allows selection of one-way or two-way flow, continuous flow, and flow adjustments. Operators can fine-tune settings on the fly to maintain control and maximize performance.

## INFORMATION AT YOUR FINGERTIPS

The touchscreen display is the operator's hub, showing key machine metrics like fuel, engine and hydraulic temperatures, service codes and more. It also displays the back up camera, allows quick adjustment of HVAC, and radio while also supporting Bluetooth hands-free calling, and operator presets—all in one easy-to-use central command center.



# DO EVERYTHING

Perform tasks and view important data all through one display.

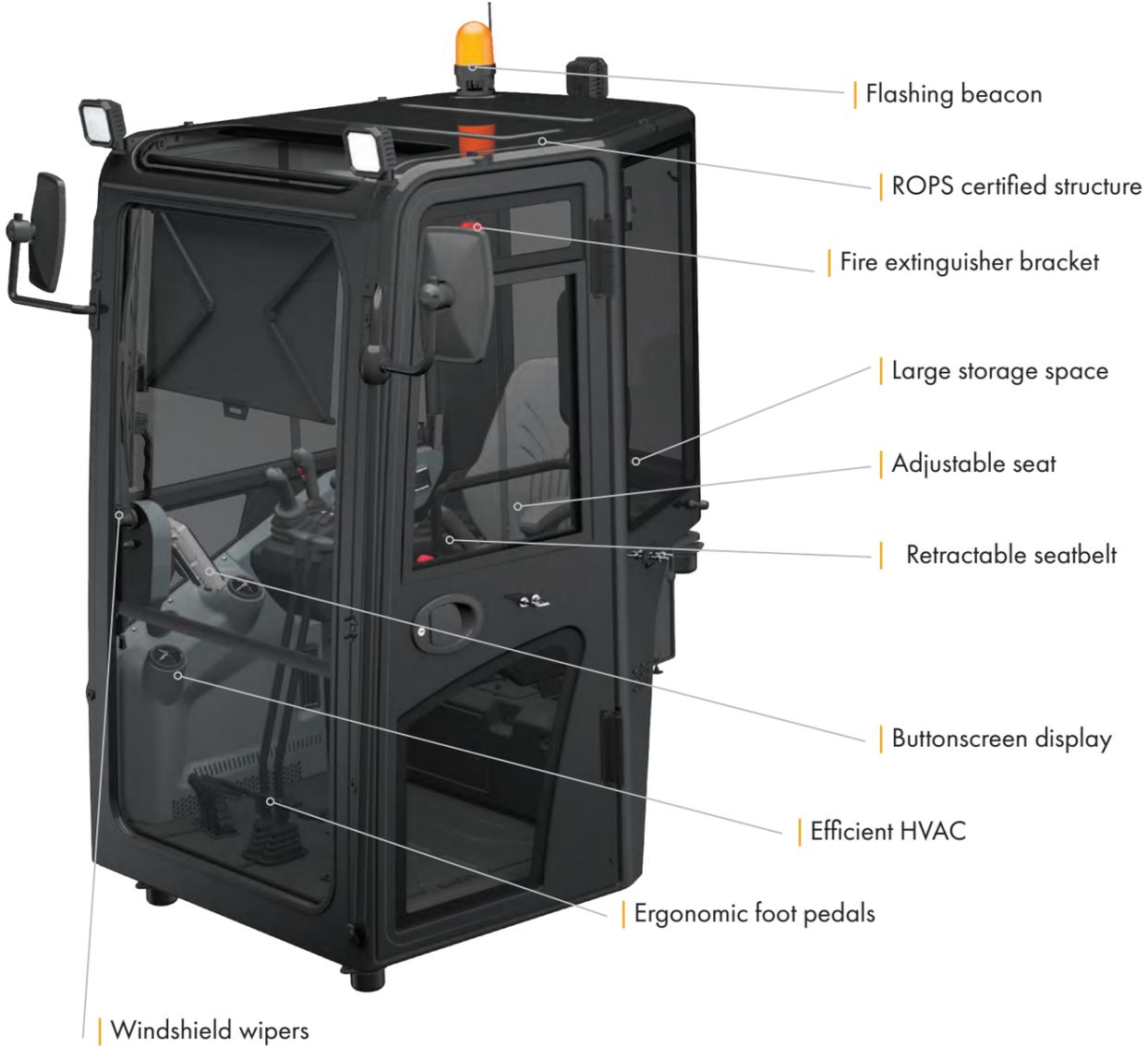
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# BUILT AROUND THE OPERATOR

**5**  
**POINTS**  
of seat adjustability.

## DESIGNED FOR COMFORT **ALL SHIFT LONG**

This spacious cab is built for comfort and intuitiveness with safety and ergonomics at the core. The seat offers 5 adjustment points to achieve the ideal position for all-day comfort. SANY's E-panel places common functions within easy reach and the multifunction display serves as the control hub. Upgraded HVAC keeps the cab comfortable in any weather, while Bluetooth connectivity and improved noise isolation allow clear hands-free calls. Large glass panels maximize visibility of the work area, helping operators stay comfortable and productive throughout the shift.



### **CUSTOM OPERATOR ERGONOMICS**

The mechanical suspension seat gives operators complete control over their seating position—height, and distance—so they can align perfectly with the joysticks and foot pedals. This precise adjustability supports better control and a more comfortable working posture all day long.

### **OPTIMAL JOBSITE AWARENESS**

Large glass panels and a sliding side window give operators a clear view of their surroundings. With added surround-view mirrors, they can confidently and safely control the machine on the jobsite.

# INTENTIONALLY ENGINEERED FOR SERVICE

## UPTIME IS OUR PRIORITY

With fast diagnostics, streamlined repairs and software tools for remote support it's easy to keep your SANY excavator running strong. Our local dealer network, stretching across North America, provides quick response and maximizes your productivity.

## DEDICATED TO SUPPORT

We're expanding our U.S. footprint with local engineering, quality assurance and service teams—backed by a multi-year investment in support, training, and parts.

## PARTS ON THE SHELF READY TO SHIP

We continually expand parts inventory across our major North American distribution centers and improve forecasting to keep high-demand components in stock. This longterm strategy ensures critical parts are ready to ship when they're needed most.

## EASE OF ACCESS

Its spacious compartments offer ample room for tools, filters, and components, ensuring efficient inspections and replacements that minimize downtime on the job site.

## FAST DAILY PRE-CHECKS

Machines are designed so operators can safely and easily inspect critical systems—mostly from the ground—for quick visual and manual checks.

# 15% MORE

engine compartment space than previous generation machines.



# #1 FASTEST GROWING

support network in North America.

# WE'VE GOT YOUR BACK

At SANY, we see every customer as a relationship whose success is directly tied to ours. We focus on keeping you productive, because when your machines are running, your business is winning. Our warranty support, faster claim approvals are built to protect your operations not just your equipment. Your feedback fuels continuous improvement—real updates to software, hydraulics, and performance through close collaboration with key suppliers. With expanding U.S. support, trained technicians, ongoing investments, and stronger parts availability, we stay by your side so your business can keep moving forward.

# CUSTOMERS FIRST ALWAYS

At SANY America, everything begins with you. We design machines that make your work safer, more efficient, and more profitable—and we stand behind them with U.S.-based support you can count on. From ergonomic cabs and superior visibility to quick daily checks and dependable uptime, every feature is engineered around real operator needs and real jobsite demands. Your feedback directly drives our product improvements, accelerating software updates, hydraulic refinements, and long-term durability enhancements. With expanding American facilities, local engineering and service teams, certified technicians, and three parts distribution centers nationwide, we operate as your committed business partner—focused on your success today and every day ahead.

## FINANCING THAT WORKS AS HARD AS YOU DO

Smart financing that makes owning SANY equipment faster, easier, and affordable.

- **Quick approvals – many customers approved in under 5 minutes**
- **Simple mobile app for secure document signing and easy payment management**
- **Flexible terms and competitive promotions, including 0% for 60 months**
- **Faster approvals for repeat customers to keep your fleet growing**
- **Top-rated experience with a 4.95 out of 5 Trustpilot score**

Financing with SANY is built to support your business growth every step of the way.

## INDUSTRY'S **STRONGEST** STANDARD WARRANTY

SANY America delivers the most comprehensive standard warranty in the industry—protecting your investment from day one.

- **5 years / 5,000 hours of full machine coverage included with every excavator**
- **Lower total operating risk and fewer unexpected costs over machine life**
- **Confidence in long-term durability backed by factory engineering and testing**
- **Stronger coverage than leading OEM competitors – standard, not add-on**

Choosing SANY means choosing equipment built to work—and a partner committed to standing behind your success.

## TOTAL COST OF OWNERSHIP

SANY machines are engineered to deliver a stronger return on investment by lowering the true cost of ownership over the life of your equipment.

- **Fuel-efficient performance reduces operating costs every hour the machine runs**
- **Extended service intervals minimize downtime and maintenance expense**
- **Parts cost management keeps replacement and wear items affordable**
- **High resale value helps protect your investment over time**
- **More standard features from the factory reduce the need for costly add-ons**

Every detail is designed to help you earn more, spend less, and get maximum value from every machine you own.



# SANY



**INDUSTRY'S  
STRONGEST  
STANDARD  
WARRANTY** | **5-YEAR  
5,000 HOURS**

\*Warranty applies to 2026 Excavator and Wheel Loader models only.



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318 SANY Way  
Peachtree City | GA 30269  
T | 470-552-SANY  
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