SY500H

LARGE HYDRAULIC
EXCAVATOR

120,152 LBS OPERATING WEIGHT
400 HP GROSS HORSEPOWER
27' 1" MAX DIGGING DEPTH

SANY



OPERATE
WITH POWER

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In the bustling industrial zones of Alabama, a dedicated demolition crew relies on their SANY SY500H to tear down outdated warehouses and old structures for urban redevelopment projects. The team works extended shifts dismantling steel beams, crushing concrete slabs, sorting debris, loading haulers, and clearing sites amid dust, noise, and strict safety protocols. From initial attachment setup to final cleanup, they manage every phase despite scorching heat, heavy loads, and tight urban deadlines. The proven Cummins engine and smooth pilot hydraulics deliver steady power and precise control while pushing through the most punishing tasks. A 5-year, 5,000-hour warranty protects the investment every hour, while support from the local dealer and the SANY America team keeps the machine ready when it matters.











LC | LONG CHASSIS (LC)

The SY500H's standard long chassis extends the excavtor's track frame and adds extra rollers to increase ground contact, lower ground pressure, and improve stability when digging or lifting. Standard 800 mm triple-grouser wide tracks boost traction and stability, giving operators a more planted, predictable machine.

| QUICK COUPLER STANDARD

The SY500H comes standard with a hydraulic quick-coupler. This makes changing attachments less expensive, easy, and fully integrated. Couplers improve jobsite efficiency, simplify transport, and increase versatility, giving you more capability from the same machine.

| COMPONENTS YOU TRUST

The SY500H is built with components by brands you know and trust. From Cummins to Kawasaki to Parker, 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.

| REMOVABLE COUNTERWEIGHT

The SY500H features a hydraulic removable counterweight that uses an onboard lift to lower the 19,000lbs+ counterweight safely without additional equipment. This design simplifies transport, reduces permitting challenges, speeds mobilization, and makes moving the machine between jobsites faster, easier, and efficient.

| AUXILLARY HYDRAULICS

The SY500H Includes factory-installed auxiliary hydraulics: a high-flow primary circuit, a dedicated rotate circuit, and a case drain. 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.

132 GPM

on primary auxillary circuit

A MACHINE THAT'S EASY TO OWN

The SY500H is built for high-output production, giving contractors the versatility required for large underground utilities, bulk earthmoving, site preparation, land clearing, and truck loading. With auxiliary hydraulics, a hydraulic quick-coupler from factory, and hydraulic removable counterweight, the SY500H simplifies switching between buckets and specialized attachments, keeping changes fast and efficient while expanding capability without added complexity. Using proven components from respected suppliers, it delivers dependable performance you can rely on day after day. A reinforced undercarriage and chassis provide strength, stability, and safety in demanding environments. The SY500H is engineered to work hard, adapt to the job, and keep ownership straightforward for the long term.

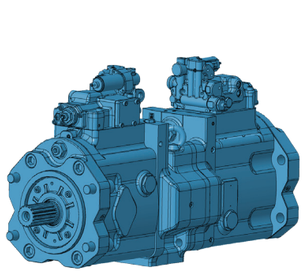
RELIABLE FROM THE INSIDE OUT

Long work days, crew safety, and consistent cash flow all rely on equipment you can trust. The SY500H is engineered for lasting durability, designed to handle thousands of hours working in harsh conditions. Its reinforced structure absorbs nonstop digging and lifting demands, while the hydraulic system supplies steady force, pressure, and power. The powertrain runs continuously, driving hydraulic pumps all day without pause. Every component focuses on minimizing downtime and maximizing productivity. It's supported by a 5-year / 5,000-hour factory warranty, protecting your schedule with proven, jobsite-tested reliability and confidence.



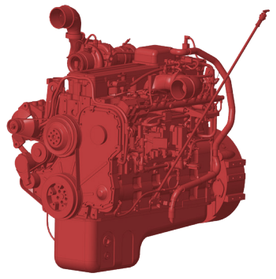
STRUCTURAL INTEGRITY

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.



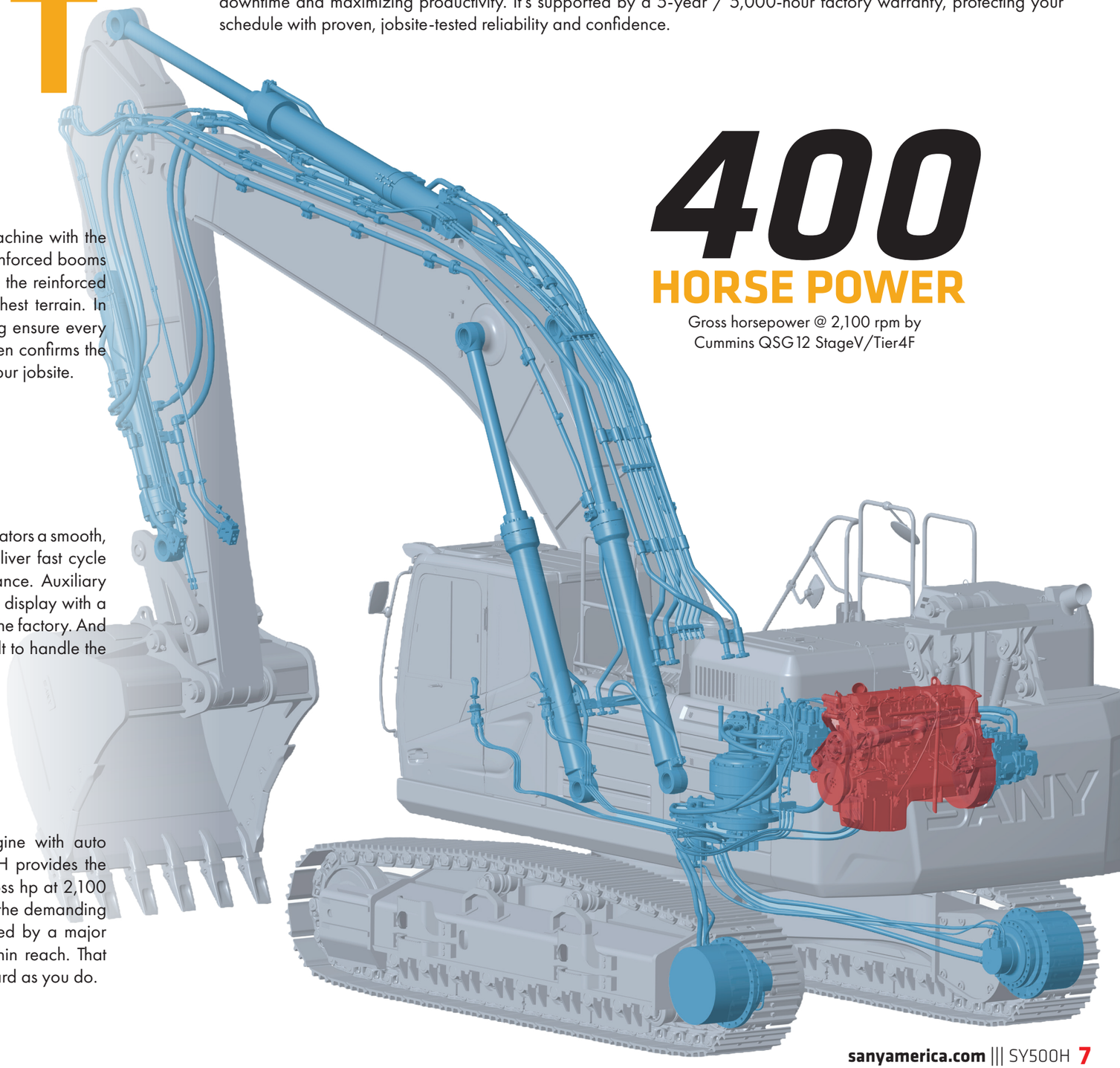
HYDRAULIC SYSTEM

The SY500H 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 pressure and flow are easily adjustable from the cab display with a case drain and dedicated rotate circuit included standard from the factory. And with Parker hydraulic components throughout, the system is built to handle the high stress and demanding work your projects require.



POWERTRAIN BY CUMMINS

Powered by a Cummins QSG12 StageV/Tier4F diesel engine with auto idle meets or exceeds EPA emissions regulations, the SY500H provides the efficiency and compliance your business needs. With 400 gross hp at 2,100 rpm, it delivers the power and torque to run day and night on the demanding jobsites. It's a powertrain you already know and trust—backed by a major support network—where parts, service and expertise are within reach. That means more uptime, less worry and a machine that works as hard as you do.



400

HORSE POWER

Gross horsepower @ 2,100 rpm by Cummins QSG12 StageV/Tier4F



18+
FEATURES
specifically designed for operator and jobsite safety.

SAFETY PRIORITIZED

We design for safety first. Operators get secure handrails, steps, and antislip on top, OEM FOPS cab guarding, and a ROPS-verified cab with multiple exit points. A three-inch seatbelt, emergency shut-off and fire extinguisher add protection inside, while cameras, alarms, and 360° lighting enhance awareness for a safer jobsite.

SY500H

LARGE HYDRAULIC **EXCAVATOR**

120,152 LBS OPERATING WEIGHT
400 HP GROSS HORSEPOWER
27' 1 MAX DIGGING DEPTH

SANY

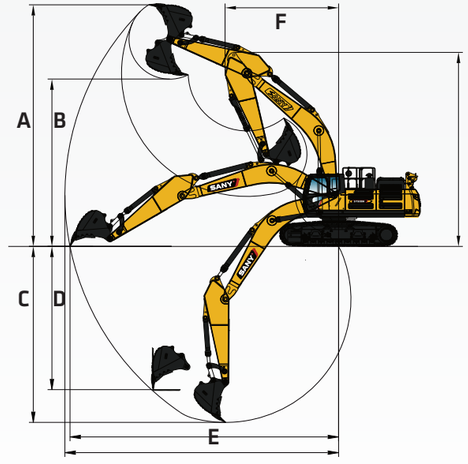
TECHNICAL SPECIFICATIONS

MACHINE DATA	
Operating Weight*	120,593 lbs
Bolt-on Counterweight	19,400 lbs
Ground Pressure	8.6 psi
Engine Model	Cummins QSG12 Stage V / Tier4F
Displacement	720 in³
Net Power	-
Gross Power	400 hp
Hydraulics	Positive Flow Control w/Pilot Control
Main Hydraulic Pump	Axial Piston – Variable Displacement
Operating Flow (Max)	190.2 gpm
Operating Pressure (Max)	4,975 psi
Auxiliary Flow	132 gpm
Auxiliary Pressure	4,975 psi
Travel Motor	Axial Piston with Park Brake
Travel Pressure (Max)	4,975 psi
Travel Speeds (Max)	2.1 / 3.2 mph
Travel Effort (Max)	76,101 lbf
Gradability	35°
Swing Motor	Axial Piston with Swing Brake
Swing Pressure (Max)	3,989 psi
Swing Speed (Max)	8.0 RPM
Undercarriage	Steel Track
Track Shoe Width	35"
Track Rollers	9
Carrier Rollers	2

WORKING SPECIFICATIONS

WORKING RANGE	STANDARD STICK	SHORT STICK
Boom Length	23'	23'
Stick (Arm) Length	12' 9"	11'
A Maximum Digging Height	36' 6"	33' 10"
B Maximum Dumping Height	25' 8"	25' 1"
C Maximum Digging Depth	27' 1"	25' 3"
D Maximum Vertical Wall Digging Depth	22'	20' 7"
E Maximum Reach at Ground Level	41' 2"	39' 6"
F Minimum Swing Radius	17' 1"	17' 1"

DIGGING PERFORMANCE	STANDARD STICK	SHORT STICK
Boom Length	23'	23'
Stick (Arm) Length	12' 9"	11'
Bucket Breakout Force (ISO)	61,822 lbf	61,822 lbf
Stick (Arm) Digging Force (ISO)	45,535 lbf	45,535 lbf



*Operating weight is for the SY500H with no attachments, and standard stick.

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LARGE HYDRAULIC EXCAVATOR SY500H

STANDARD FEATURES

ENGINE
- 11.8 l Cummins
- Auto-idle
- Dual-element dry air filter
- Automatic belt-tension device
- Batteries 24V (2 – 12V)
- Coolant Expansion tank
- Electronic engine control
- Enclosed fan guard
- Engine coolant to –37 deg. C (–34 deg. F)
- Fuel filter with water separator
- Full-flow oil filter
- Turbocharger with charge air cooler
- High flow hydraulically powered cooling fan
- 500-hour engine-oil-change interval
- 70% (35 deg.) off-level capability
- Engine air precleaner
- Severe-duty fuel filter

HYDRAULIC SYSTEM
- Spring-applied, hydraulically released automatic swing brake
- Auxiliary hydraulic-flow adjustments through monitor
- Lift power boost on joystick
- Control pattern change valve
- Auxiliary hydraulics with 1 and 2-way combination piping for high flow
- Auxiliary hydraulics with 2- way rotation piping and controls
- Auxiliary pilot and electric controls
- Quick coupler plumbing and control

UNDERCARRIAGE
- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and 2 additional per side
- 2-speed travel selection
- Upper carrier rollers (2)
- Sealed and lubricated track chain
- Triple semi-grouser shoes, 900 mm (36")
- Undercarriage frame opening guard

BOOM & STICK
- Boom 7 m (23')
- Stick, 3.3 m (11')

UPPERSTRUCTURE
- Right-hand, left-hand, and counterweight mirrors
- Vandal lock with ignition key: Cab door /Service door/ Toolbox/Cab Filter
- Debris screen in side panel
- Remote-mounted engine oil and fuel filters
- Heavy duty triangle channel frame guard
- Hydraulic removable counterweight 9.7 kg (21,380 lbs)

ATTACHMENTS
- Convenient grease points
- Centralized lubrication system
- Dirt seals on all bucket pins
- Oil-impregnated bushings
- Reinforced resin thrust plates
- Quick coupler
- Buckets: Heavy duty / Heavy-duty high capacity / Side cutter and teeth

OPERATOR'S STATION
- Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
- AM/FM radio with USB charging and Bluetooth® connectivity
- Auto climate control/air conditioner/heater/pressurizer
- Built-in Operator's Manual storage compartment and manual
- 12 and 24V outlets 60 watt 5 amp
- Deluxe heated air suspension cloth seat with adjustable armrests
- Heavy duty rubber floor mat
- Front windshield wiper with intermittent speeds
- Illuminated gauge: diesel exhaust fluid, engine coolant, and fuel levels
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Interior light
- Large cup holder
- Digital Power mode selection: 3 power modes- low, standard, and high
- Digital tool selection: bucket, shear, hammer, etc.
- Multifunction color LCD monitor with: Diagnostic capability / Multiple-language / Maintenance tracking / Clock
- System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
- Motion alarm with cancel switch (conforms to SAE J994)
- Power-boost switch on right joystick
- Auxiliary hydraulic control switches in right console lever
- Seat belt, retractable
- Transparent overhead hatch
- Heated or cooled food/beverage storage
- Hydraulic oil filter restriction indicator light
- Protection screens for cab front, rear, and side

ELECTRICAL
- 60-amp alternator
- Ground level electrical disconnect (lockout tag out)
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- Rearview & blindside camera

LIGHTS
- Work lights: High power LED - 2 mounted on boom, 2 mounted on top of cab, 1 mounted under step on right side of machine

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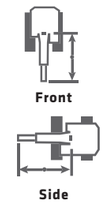
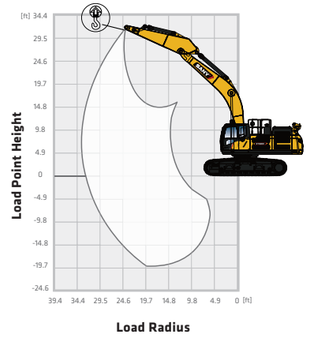
LIFTING PERFORMANCE

Standard 23' Boom
Standard 12' 9" Stick
Standard 35" 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.





12' 9" Stick

B (HEIGHT)	5 FT		10 FT		15 FT		20 FT		25 FT		30 FT	
LOAD POINT HEIGHT												
25 ft											21,244 lbs	21,244 lbs
20 ft											21,660 lbs	21,660 lbs
15 ft							28,937 lbs	28,937 lbs	25,115 lbs	25,115 lbs	22,992 lbs	22,992 lbs
10 ft					47,461 lbs	47,461 lbs	34,396 lbs	34,396 lbs	28,179 lbs	28,179 lbs	24,729 lbs	19,797 lbs
5 ft					48,653 lbs	48,653 lbs	39,189 lbs	39,189 lbs	31,085 lbs	24,887 lbs	26,460 lbs	19,152 lbs
0 ft					49,246 lbs	49,246 lbs	42,330 lbs	33,102 lbs	33,263 lbs	24,070 lbs	27,789 lbs	18,667 lbs
-5 ft	23,600 lbs	23,600 lbs	33,073 lbs	33,073 lbs	58,931 lbs	58,931 lbs	43,541 lbs	31,900 lbs	34,306 lbs	23,646 lbs	24,015 lbs	18,435 lbs
-10 ft	38,640 lbs	38,640 lbs	50,428 lbs	50,428 lbs	56,559 lbs	56,559 lbs	42,732 lbs	32,597 lbs	33,794 lbs	23,642 lbs	27,179 lbs	18,576 lbs
-15 ft			70,748 lbs	70,748 lbs	51,332 lbs	51,332 lbs	39,376 lbs	33,179 lbs	30,714 lbs	24,151 lbs		

11' Stick

B (HEIGHT)	10 FT		15 FT		20 FT		25 FT		30 FT	
LOAD POINT HEIGHT										
25 ft										
20 ft							24,372 lbs	24,372 lbs	23,340 lbs	23,340 lbs
15 ft			41,099 lbs	41,099 lbs	31,480 lbs	31,480 lbs	26,879 lbs	26,879 lbs	19,764 lbs	24,443 lbs
10 ft			51,963 lbs	51,963 lbs	36,762 lbs	36,762 lbs	24,784 lbs	29,787 lbs	19,185 lbs	25,995 lbs
5 ft			35,841 lbs	35,841 lbs	32,132 lbs	41,063 lbs	23,861 lbs	32,419 lbs	18,667 lbs	27,498 lbs
0 ft			44,899 lbs	44,899 lbs	31,257 lbs	43,502 lbs	23,243 lbs	34,205 lbs	18,314 lbs	28,501 lbs
-5 ft	33,188 lbs	33,188 lbs	47,102 lbs	58,594 lbs	30,982 lbs	43,934 lbs	22,994 lbs	34,723 lbs	18,228 lbs	28,440 lbs
-10 ft	55,986 lbs	55,986 lbs	55,113 lbs	55,113 lbs	31,191 lbs	42,243 lbs	23,144 lbs	33,415 lbs		
-15 ft	64,589 lbs	64,589 lbs	48,510 lbs	48,510 lbs	31,921 lbs	37,547 lbs	23,931 lbs	28,206 lbs		

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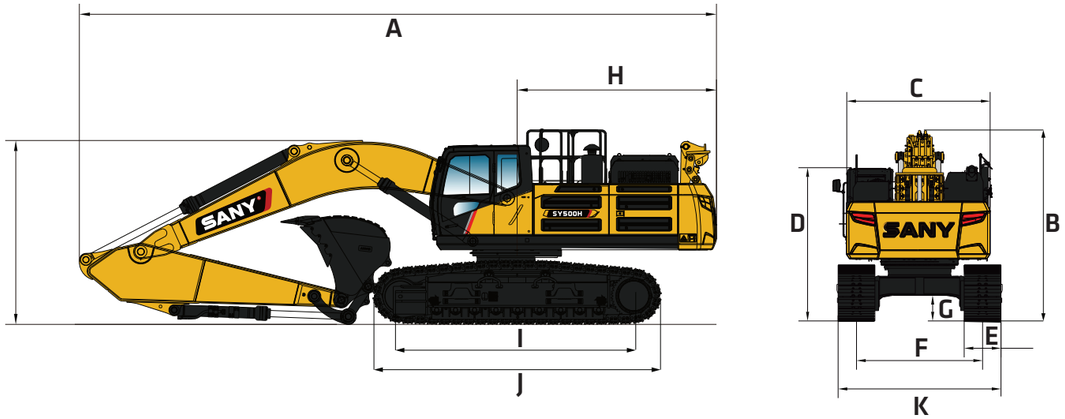

DIMENSIONS		STANDARD STICK	SHORT STICK
	Boom Length	23’	23’
	Stick (Arm) Length	12’ 9’’	11’
A	Transport Length	39’ 11’’	39’ 11’’
B	Transport Height	12’ 8’’	12’ 8’’
C	Upper Structure Width	10’ 10’’	
D	Cab Height	11’ 3’’	
E	Track Width	35’’	
F	Track Gauge	9’	
G	Ground Clearance	22’’	
H	Tail Swing Radius	12’ 8’’	
I	Track Length on Ground	14’ 6’’	
J	Track Length	17’ 11’’	
K	Transport Width	11’ 11’’	

SERVICE REFILL CAPACITIES	
Fuel Tank Capacity	179.5 gal
DEF Tank Capacity	12.33 gal
Hydraulic Tank Capacity	132 gal
Engine Oil Capacity	8.98 gal
Cooling System Capacity	13.2 gal

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

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CONNECTED, **INFORMED**, IN CONTROL
TECHNOLOGY

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.

GRADE CONTROL COMPATIBLE

The SY500H works with most major 3D indicate grade control systems, giving operators better accuracy and faster results. This compatibility helps reduce rework, improve efficiency and keep production moving—so your machine delivers more value on every job.

INFORMATION AT YOUR FINGERTIPS

The 10-inch touchscreen display is the operator’s hub, showing key machine metrics like fuel and DEF levels, engine and hydraulic temperatures, service codes and more. It also displays multiple camera views, allows quick adjustment of HVAC, and radio while also supporting Bluetooth hands-free calling, operator presets, and attachment configuration—all in one easy-to-use central command center.



16
POINTS
of seat adjustablity plus heated
and cooled functions.

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 16 adjustment points to achieve the ideal position plus heated and cooled functions for all-day comfort. SANY's E-panel places common functions within easy reach and the touchscreen 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 confident and productive throughout the shift.

BUILT **AROUND THE**
OPERATOR



CUSTOM OPERATOR ERGONOMICS

The 16-way adjustable air-ride seat gives operators complete control over their seating position—height, distance, and angle—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, sliding side windows, and integrated backup and blind-side cameras give operators a clear view of their surroundings. With added surround-view mirrors, they can confidently and safely control the machine on the jobsite.

INTENTIONALY **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.

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.

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.





*#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.

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.

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.

TOTALCOST 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.



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