



SY500H

Engine power

298kW/2100rpm

Bucket capacity

2.2 m³

Operating weight

52500kg

 Optimised efficient

 Stable foundation

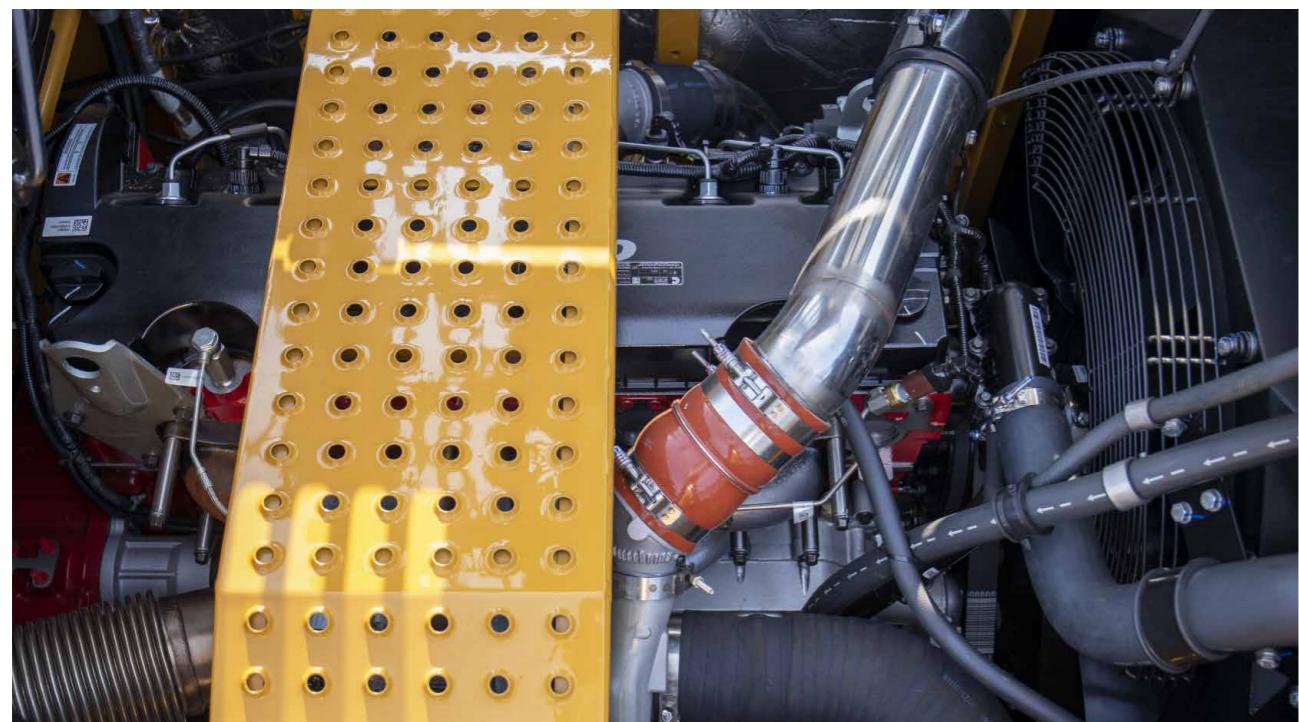
 Security configuration



SANY HEAVY MACHINERY LTD

<http://www.sanyglobal.com>

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Strong power

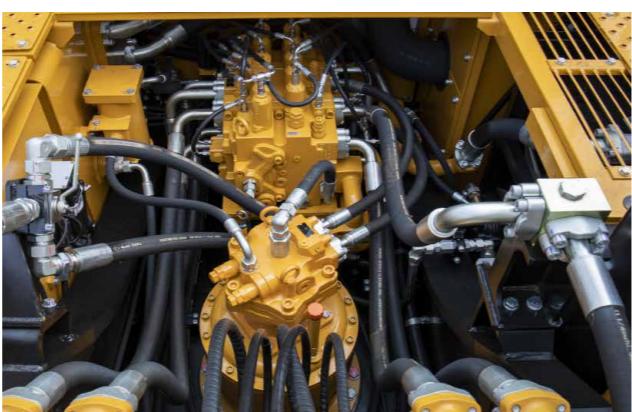
► Engine

SY500H uses SANY custom engine, power 252kW, to meet Euro 5 emissions standards, strong power, reliable and durable, to meet the diversified power needs of customers. Using high-precision oil-water separator with filter element, it can effectively filter impurities in fuel while separating water, provide multiple protection to the engine, and extend the service life of the engine.



► Main pump

Main pump has pressure cut-off functions to reduce the over flow loss, and the maximum flow of the hydraulic system can reach 385L/min.



► Main valve

With high efficiency and energy saving, the newly and electronically controlled positive flow hydraulic system can provide accurate.

Quality

Gets down to work and takes it all in its stride - from the bottom up, the SY500H is designed to deliver high performance, even in the toughest conditions. Made for the long term.

User experience

Power is nothing without control. This is why the spacious comfortable driver's cab is designed so that all the controls convenient to reach and the displays are easy to read.

Dimensions

The robust under carriage is designed down to the last detail to provide the highest levels of stability and reliability. Even under the toughest working conditions, the high-quality construction guarantees continuous operating hours and a long service life.



Safety

In addition to the extensively glazed driver's cab, the standard rear camera guarantees excellent visibility on all sides with no blind spots. The reinforced cab structure, in accordance with ROPS/FOPS specifications, ensures a safe work environment for the machine operator.

Components

With its almost 12-liter displacement, the Cummins engine is the foundation of high productivity. The high torque in the low engine speed range delivers superior performance while at the same time guaranteeing low fuel consumption.

Economy

Digging, loading, moving... Every task makes special demands of the machine. With the intelligent choice of working modes, the components of the SY500H can always be adjusted optimally with regards to fuel consumption and performance.

Quality

Extremely Touch

Whether used for extraction in a stone or gravel quarry – these machines are in great demand wherever large amounts of material must be moved. As a robust power machine, the SY500H meets expectations with regards to quality and durability, for example, with its high-quality steel and precise and meticulously computer-controlled welded seams. Or with its safety valves, which are 100% reliable in the worst-case scenario.



Dimensions

Improved stability, increased transferable force

The SY500H features an extremely stable and robust frame. The large stand space provides the basis for the driver to work safely and precisely, even on uneven ground, and offers the best standing properties – meaning power can be used optimally.

User experience

Productivity at the touch of a button

An optimal balance between performance and fuel efficiency can easily be achieved with the preselectable work modes – for every task. This prevents a reduction in the engine speed and performance, as well as uneconomically high engine speeds. It ensures fast, efficient work. And protects the components, extending the service life.



Components

Maximum power, maximum productivity

To ensure that the engine does not overheat, even at maximum output, the SY500H is equipped with a powerful, electronically controlled fan. An integrated coupling ensures that the fan only starts to run when it is actually needed. This saves fuel, decreases noise levels and reduces emissions. Only main components from well-known brand manufacturers are used: for example, the tried and tested Kawasaki hydraulic system.



Economy

MOVING MORE

You can rely on the water-cooled six-cylinder engine with common rail injection in every respect. It scores highly with exemplary values not only when it comes to reliability and performance but also in terms of consumption. Lower fuel consumption, thanks to the latest SCR emissions technology, reduces not only ongoing operating costs but also emissions.



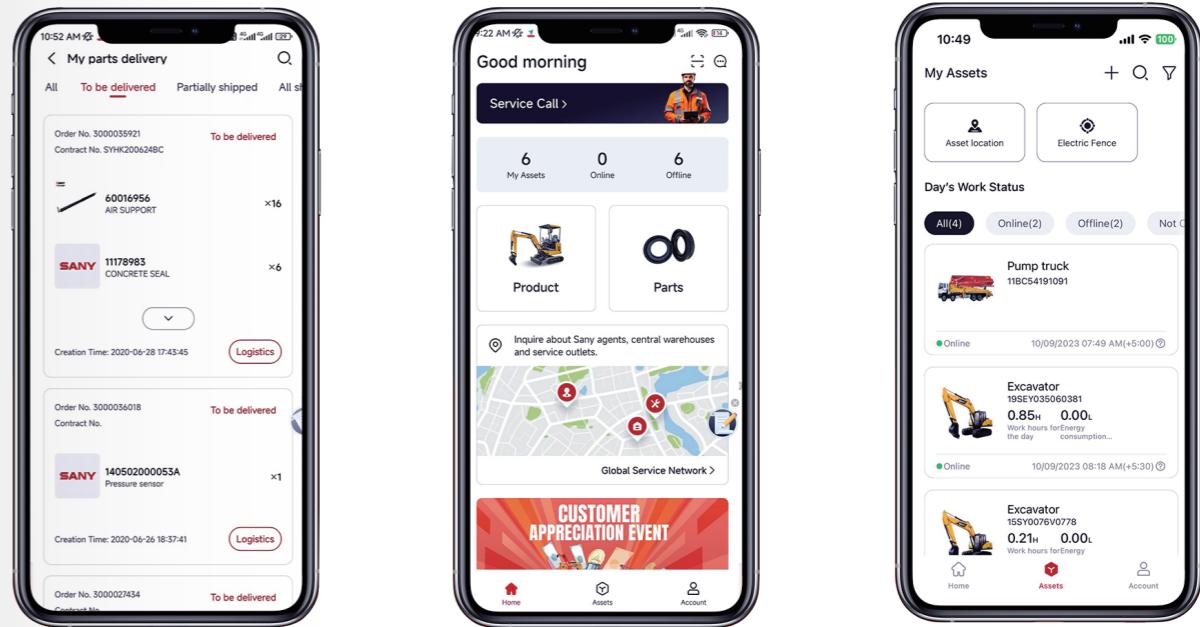


Ergonomic cab as a production factor

The driver's cab in the SY500H attracts special attention.

- It combines safety and ergonomic factors, offering the driver the best conditions for relaxed and fatigue-free work.
- The focus here is on the comfortable, heated, air-suspension driver's seat with a high backrest that provides lumbar support and easily accessible controls.
- The joystick control allows for precise work in any situation, and the large, easy-to-read display shows all of the key parameters clearly at a glance.
- The powerful heating and the automatic air-conditioning system guarantee the ideal climate.
- Also provided on-board as standard are a radio and 12 V jack, along with plenty of storage space and options.

MySANY APP Easy use, quick response



Quick Parts Access

- View parts manuals
- View parts availability
- Check equipment & parts order status

Fleet Management

- Check equipment working condition
- Monitor equipment energy consumption
- Set up e-fence

Streamlined Service

- One-click to initiate service request
- Check global service network
- View local service team's phone number & email



Scan to download!

Complete research & development and test system

SANY has established complete machine endurance test center with full functions. Each model of excavator must be subjected to over 2,000h field excavating test.

Key components like working device, cab and hydraulic components etc. must be subject to fatigue test over 800,000 times.



Advanced manufacturing technology

SANY has RGV assembling line and fullautomatic welding robots, and possesses high precision machining equipment and precise machining center.

SANY's manufacturing and assembling lines won five-star national site in 2013 and national quality award in 2014. In 2023, SANY Mini Excavator Factory was awarded as the intelligent factory.



Technical specifications

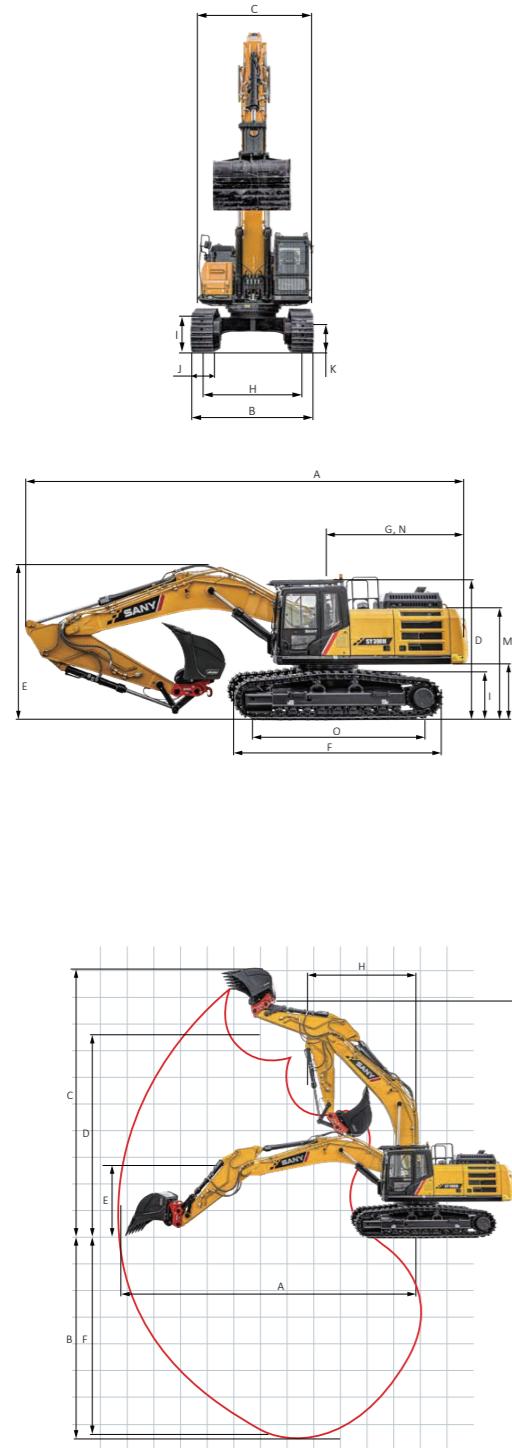
Specification	Main performance		Service Refill Capacities	
Operating weight	52500 kg	Swingspeed	7.9 rpm	Fuel Tank 680 L
Bucket capacity	2.2 m ³	Max. Travel Speed	Max 5.1 km/h Low 3.71 km/h	Engine Coolant 50 L
Engine	Stage V	Max. Travel Force	339 kN	Engine Oil 34 L
Model	QSX12	Groundpressure	0.83 kg/cm ²	Drive (Per Side) 15 L
Type	Water-cooled, 6 cylinder, with commonrail and Adblue	Gradeability	35°	Adblue 56 L
Engine power	298 kW/ 2100 rpm	Bucket digging force	253 kN	Hydraulic Oil Tank 480 L
Max. torque	2034 Nm/ 1400 rpm	Arm crowd force	227 kN	
Displacement	11.8 L			
Batteries	2×12 V/ 200 Ah			

Lifting capacities of lower dozer blade

Load point height		Radius									
		3.0m		4.5m		6.0m		7.5m			
		↳	↙	↳	↙	↳	↙	↳	↙		
6.0 m	kg							11055	11055	10587	8042
4.5 m	kg			18642	18642	14279	14279	12192	10338	11087	7843
3.0 m	kg			23570	19988	16675	16435	13511	9852	11791	7588
1.5 m	kg			16257	16257	18626	12724	14705	9433	12473	7354
Ground	kg			20366	20366	19732	12327	15515	9153	12928	7194
-1.5 m	kg	15054	15054	26578	18598	19928	12202	15750	9040	12900	7155
-3.0 m	kg	25395	25395	24999	18849	19161	12298	15157	9108		
-4.5 m	kg	29297	29297	22004	22004	17031	12629	12794	9465		

*at 600 mm track pads width

Machine dimensions



*Wider undercarriage with 800 mm track pads width

Standard configuration

Operations Comfort / Cabine	Working Equipment
Heater	• AUX 1 on Joystick
Automatic air conditioning C/H*	• AUX 2 on Joystick
Radio and speaker	• Removable front-window
Armsrests (adjustable)	• Sky light openable
Airsuspension seat	• Integrated cooling box
Heated seat	
Wiper	
Sprayer f. wiper	

Safety	Woring Lights	Engine
Battery master switch	• Lights – front (LED)	• Auto idle
Travel Alarm	• Lights – boom (LED)	• Diesel filter
Warning beacon	• Lights – platform (LED)	• DOC
Camera		
Handrails		
Lockable hoods		
Lockable fuel cap		

Hydraulic system	Undercarriage
Swing brake	• Steel tracks 600
2 speed travel	• Holes/loops for fixing
Piping for additional hydraulic function AUX 1	•
Piping for additional hydraulic function AUX 2	•
Hydr. Pre-pressure operating joysticks	•
Mainfilter	•

• stands for standard configurations ○ stands for optional configurations