Standard configuration

Engine

- Isolated mounted engine
- Dynamic optimizing mode control
- □ Radiator
- 24V/5.5KW starter motor
- 50A alternator
- Oil-bath type air filter
- Dry-type dual-element air filter
- Engine oil filter
- □ Three-stage fuel oil filter
- Engine oil cooler
- Radiator auxiliary water tank
- Fan deflector
- Automatic idling system
- Fuel filling pump and electronic pump

Hvdraulic system

- Operating mode selector switch
- □ Control valve with main overflow valve
- □ Control valve with spare oil port
- Oil suction filter
- □ Oil return filter
- □ Pilot filter
- Oil drain filter

Slewing platform of superstructure

- Fuel oil level sensor
- Hydraulic oil level gauge
- Toolbox
- Slewing parking brake
- Rearview mirror (right)
- Rearview camera *
- □ Cab alarm lamp *

Cab

- Ultra-silence frame cab
- □ Reinforced light-color glass window
- □ Silicone oil rubber damper
- □ Independent self-filtering circulating system □ Openable top/front wall upper window and left side window
 - Emergency exit on rear window
 - Wiper (with washer)
 - Multidirectional adjustable seat
 - Radio (with digital clock)
 - Foot rest and floor mat
 - Loudspeaker and rearview mirror
 - Seat belt and fire extinguisher
 - Cup holder and compartment lamp
 - Ash tray and escape hammer
 - Storage box and sundries bag
 - □ Pilot controlled cut-off lever
 - Fully-automatic A/C
 - Sun shade
 - Emergency stop switch
 - Falling object protect structure and front protective screen

Front-end working device

- □ Flange pin
- Bucket clearance adjuster
- Welded connecting rod
- Integrated lubricating system
- All bucket pins are equipped with dustproof
- Reinforced all-welded box-type boom
- Reinforced all-welded box-type bucket rod
- Anti-collision guard plate

Instruments of monitoring system

- □ Global positioning system (GPS)
- □ 7" colored display screen
- EEVIA system
- Hour meter, fuel tank oil level gauge
- Engine coolant temperature gauge
- Engine oil pressure gauge

Traveling body of undercarriage

- Traveling parking brake
- Traveling motor guard plate
- □ H-shaped track guide mechanism Hydraulic tensioning device of
- Bolted driving wheel
- □ Carrier roller and thrust wheel
- Reinforced chain track with pin
- □ 600mm double-rib track plate
- Reinforced side pedal
- Bottom cover plate

Alarm system

- Controller failure
- Abnormal pump pressure
- □ Pilot pressure of various movements
- Abnormal power supply voltage
- Starter motor relay abnormal
- Abnormal hydraulic oil temperature
- Engine oil pressure insufficient and engine coolant temperature too high
- □ Throttle rotary knob failure
- □ Fuel volume insufficient

Others

- □ High-capacity storage battery
- □ Lockable engine hood
- Lockable fuel filler cap
- Anti-slip pedal, armrest and sidewalk Traveling direction sign on traveling
- Manual grease gun
- Motor-driven diesel pump

^{*} Indicates optional configuration



SANY Industrial Park, Dongcheng Avenue, Kunshan Economic & Technological Development Zone, Jiangsu Province

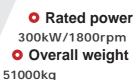
Consulting & complaint hotline: 4008879318

www.sanygroup.com.cn



Post code: 215300 After-sales service hotline: 4008282318







Hydraulie excavator

BRAND NEW C10 KING OF MINING EQUIPMENT **ASSET OF GREAT VALUE**

Wonderful Sany Lead by Innovation

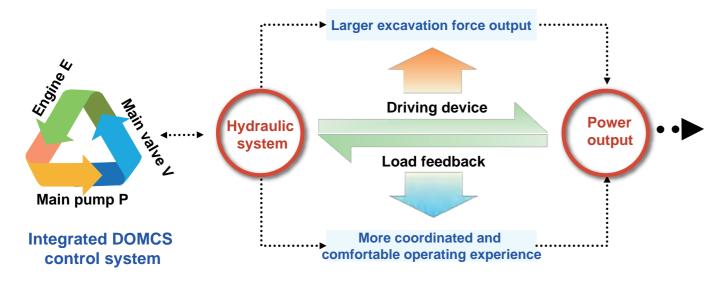


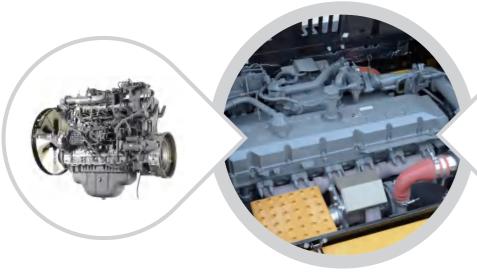


SUPERIOR PERFORMANCE

O High efficiency and low consumption

With "positive flow" system and "DOMCS" dynamic hunting intelligent matching control system developed independently by SANY, the efficiency and fuel consumption surpass competitor brands. The efficiency is 8% higher and the fuel consumption is 10% lower. The engine is exclusively for SANY, with strong power and high reliability. Thus, it can ensure the continuous operating stability in severe environment. As compared with foreign brands, it not only saves fuel but also works faster!



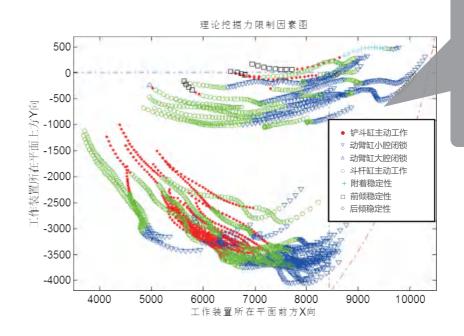


Isuzu
6WG1X engine
meets emission standard
of national III and the
displacement and the torque are
generally 20% higher than
competitor brands. It outputs high
power and helps the customer to
solve the operating difficulties of
heavy-duty working condition.

It could save 100,000 RMB every year according to the calculations as per annual working time of 3,000h and diesel oil price of 7 RMB/L under the condition that standard gear (S9) works.

Super high excavating force

By way of regulating power in real time in excavating process and atlas analysis of excavating force under full working conditions, the excavating force is given into full play, and the efficient area of excavating force is improved by 40%.



Green curve in the diagram indicates that the digging efficiency is given into full play and blue curve indicates other digging efficiency. As shown in the diagram, the region in which the digging force of SY550 is given into full play reaches 90% and others only reach 50%.

O Super crushing force

To optimize the pipeline and reduce pressure loss, double pumps can be combined for crushing. Larger crushing hammer can be equipped optionally to increase the impact of crushing.

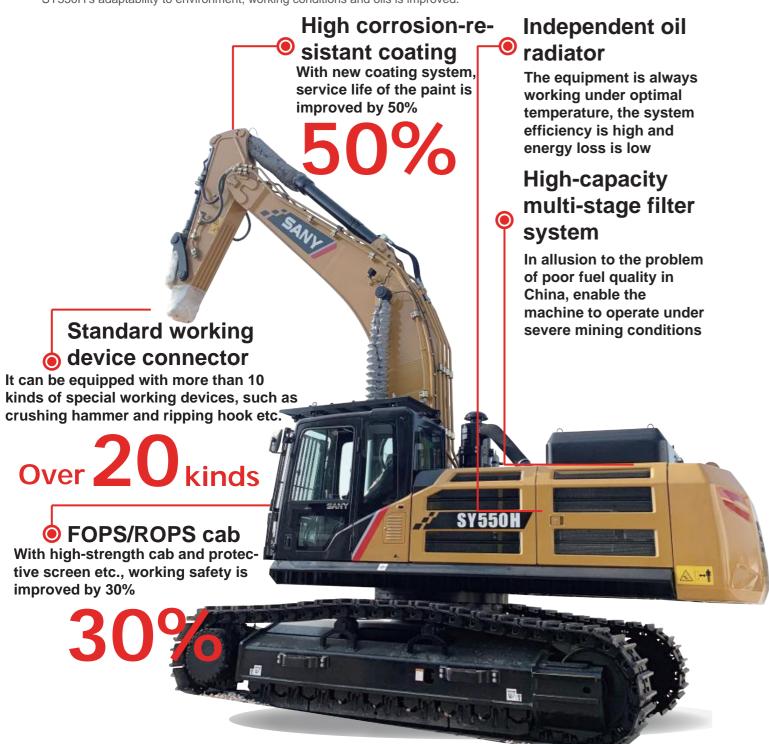


Comments of an excavator operator with over 12 years' of experience in Sichuan Province on SY550H:

The stones in our mine are so hard that

HIGH ADAPTION ABILITY

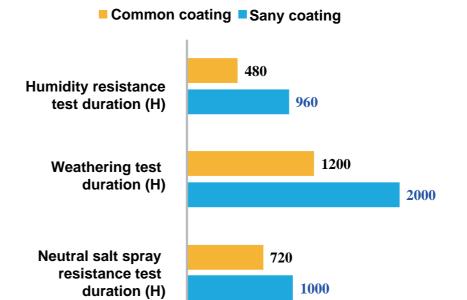
By improving safety & cooling capacity, and utilizing efficient filtering system and "highly corrosion-resistant" coating, SY550H's adaptability to environment, working conditions and oils is improved.



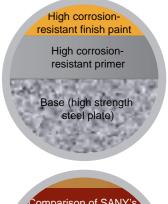
O High corrosion coating

By cooperating with world known paint brands, aging life of the paint reaches the highest level in the industry. The adaptability is improved by 40%

Comparison of coating endurance test data



Coating distribution of SANY's high corrosion-resistant paint



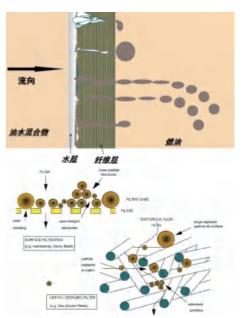


O High-capacity Multi-stage Filtration System

Domestically initiative self-circulation "large-capacity multi-stage filter system" is launched in allusion various oils and meets emission requirements of national III standard. Provide top-level protection for the equipment!



High-capacity multi-stage filter system



Large-capacity multistage filter principle

Independent oil radiator

Domestically initiative 50T independent oil radiator system is introduced. System operating temperature is 8-10°C lower than general excavator. The adaptability to high temperature environment is improved significantly. Service life of rubber parts is improved by 30%.



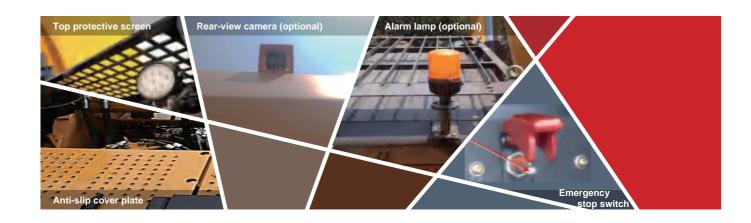


Safe and comfortable

In allusion to mining conditions, FOPS/ROPS cab and newly developed dust control & noise reduction technology are used so that the safety is improved by 5 times as compared with general cab. The noise in the cab is reduced by 5kB and is much better than that of other brands.

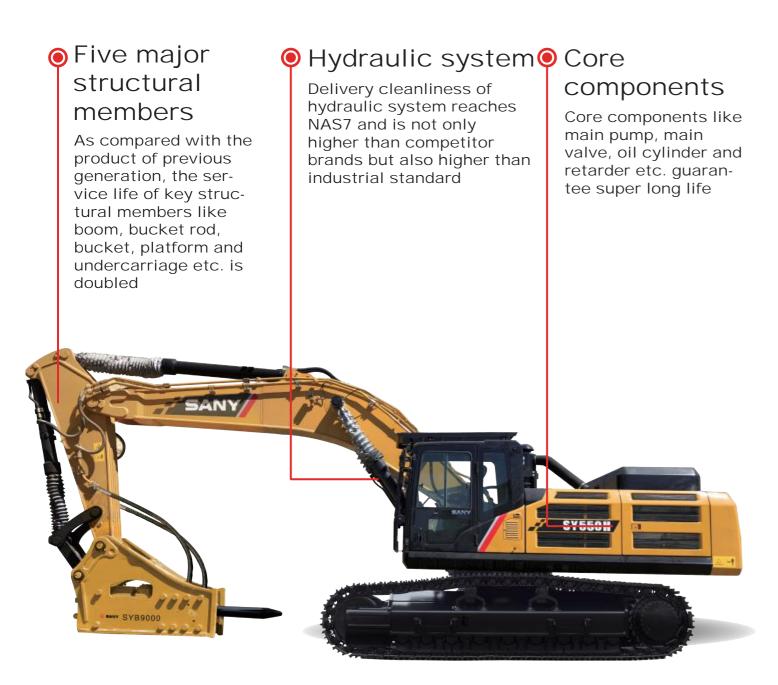


FOPS/ROPS cab is used. Through finite element modal analysis, steel structure and sealing performance of the cab are optimized; its strength is 5 times of general cab, the safety performance is extremely high and meanwhile the cab noise is reduced by 3-5dB, which makes the operation more comfortable.



Super long service life

Through the accumulation over 15 years, service life of SY550H exceeds 20,000h under mining conditions, and surpasses competitor brands with the help of initiative "three-dimensional" design test system for large-scale excavator.



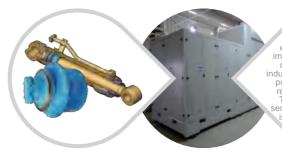
Key structural members

With most advanced international methods including optimization design of structural members, stress test, research of welds and plates, endurance test, 100% UT detection for key components and fatigue test for two axles, the service life of key structural members is improved comprehensively.



O Core Components

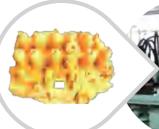
Relying on the only endurance test system for excavator parts in China, and through joint research with world famous research institutions, the research on service life of the parts is carried out for improving the service life of core parts comprehensively. The service life of components including pump, valve, oil cylinder, retarder, fuel tank and cab etc. is doubled.



Hydraulic components like
oil cylinder and retarder
etc. must be subjected to
impulse test according to the
requirements higher than
industrial standard. They can be
put into operation only after
reaching the requirements.
Through this process, the
service life of the components
is 30% higher than that of
general brands.

Oil cylinder impulse test bench

Pump- valve test bench



With pump-valve endurance test bed, the service life of main pump and main valve are tested and analyzed. In combination with research achievements of long-lparts of the customer, the servic life of the pumps and the valve is improved by 1 time



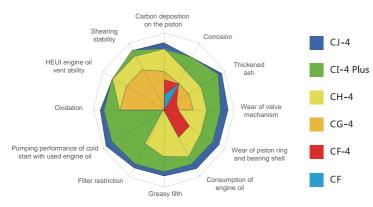
With vibration test bench, fuel tank and the cab has been tested by over undreds of thousands of times on aspect of the vibration to improve the service life of the component by 50%.

Vibration test bench

Super-low maintenance cost

Super-low maintenance cost

SANY is developing long-life engine oil, diesel oil filter and hydraulic oil jointly with professional manufacturers. Through two years' market verification, maintenance cost of the product is reduced by 50%, and maintenance interval is extended by 1 time;



Hydraulic oil: Service life of hydraulic oil is 4,000h and is extended by 1 time as compared with the competitor; Engine oil: Replacement interval is 500h and is extended by 1 time as compared with the competitor; Fuel filter element and engine oil filter element: Maintenance interval is extended from 250h to 500h; Hydraulic oil suction filter element: Maintenance interval is extended from 1,000h to 2,000h.

Super-easy management

Replacement space for maintainable parts is increased and the parts are designed in allusion to severe mining conditions for convenient maintenance. It is thus easier and simpler to manage the equipment. It is equipped with four-dimensional construction management system developed independently by SANY.



O Maintenance convenience

In allusion severe working conditions of the mine, the design of maintenance convenience of the maintainable parts is improved. "Big space, Easy to operate". Maintenance space for various maintainable parts increases by 20%-30% and makes the operation easier!





Easy to replace air filter element

Replace air filter element

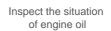






Replace diesel oil filter element







Pump oil by one push after

engine goes off abnormally

engine oil; pump oil by one push after engine goes off abnormally

Easy to inspect





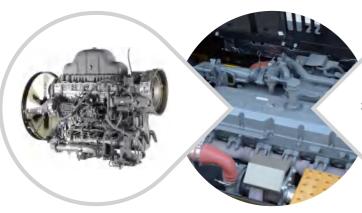
Check valve

Engine compartment volume is increased by 20%, and water drain valve and diesel oil check valve are added

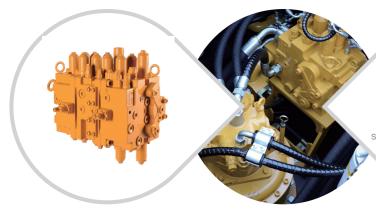
PRODUCT INTRODUCTION

Main configuration

Core components like pumps, valves and engine etc. are designed jointly with proprietary intellectual property rights, and are manufactured by world famous manufacturers to ensure high quality and satisfy professional demands of SANY's customers.



6WG1X
engine meets
emission standard of
national III and the displacement and the torque are generally
20% higher than competitor brands.
It outputs high power and helps the
customer to solve the operating
difficulties of heavy-duty working
condition.



32NA
main valve is
developed and designed
according to customer
requirements of SANY and has
outstanding advantages including
"high reliability, low pressure loss,
high flow distribution efficiency and
mooth compound control action". Its
energy consumption is low and
control performance is good.



main pump is
parallel pump customized
for SY550. As compared with
traditional tandem pump, power
output is improved by 10%, the
arrangement is more compact and the
maintenance is more convenient.

Construction case

Comments of the customer from Zhejiang Province on SY550H: In this mine, we use excavators of other brands on the surface layer and the second layer, and use SY550H on the third layer. Only SY550H can excavate the stonework on this layer!



Worksite: Changzhi, Shanxi Province
Working condition: Stonework (decomposed rock)
Operating type: crushing - excavation- loading
Work undertaken by SY550: crushing







Worksite: Deqing, Zhejiang Province Working condition: Silicon ore Operating type: crushing - excavation-loading Work undertaken by SY550: crushing

Technical specifications

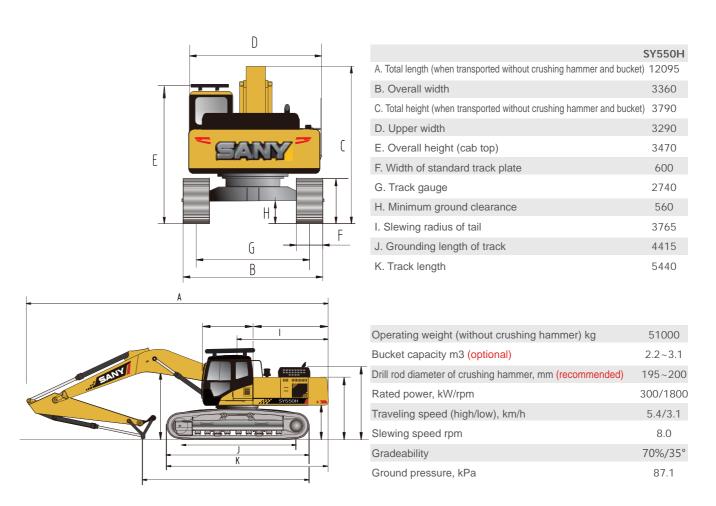
Specification		Main performance			
Overall weight	51000kg	Traveling speed (high/low)	5.4/3.1(km/h)		
Bucket capacity	2.2~3.1m³	Slewing speed	8 rpm		
		Gradeability	70% (35°)		
Engine		Ground pressure	87.1kPa		
Model	6WG1XKSC-01				
Туре	Direct injection, 6-cylinder, 4-stroke, turbocharged, inter-cooling and water-cooled				
Rated power	300kW/1800rpm				
Maximum torque	1950Nm/1400rpm				
Displacement	15.681L				

Capacity of oil and coolant		Traveling part	
Fuel tank	680L	Number of track plates	50
Hydraulic oil tank	480L	Each carrier roller side	2
Engine oil	50L	Each thrust wheel side	9
Radiator	24L	Standard track	600mm
Final drive	2×15L		

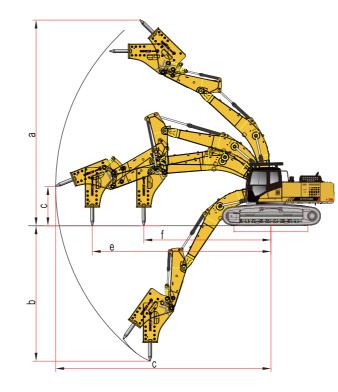
Boom 700	00mm		Bucket rod-	2500mm		Track width	600mm		Counterweight	9300Kg	
Table of Lifting F		3.0m		4.5m		6.0m		7.5m		9.0m	
Bucket Rod		Longitudinal	Lateral	Longitudinal	Lateral	Longitudinal	Lateral	Longitudinal	Lateral	Longitudinal	Lateral
7.5m	Kg							*9614	*9614		
6.0m	Kg					*11056	*11056	*9901	*9901		
4.5m	Kg					*12694	*12694	*10664	*10664	*9714	*9714
3.0m	Kg					*14405	*14405	*11560	*11560	*10084	*10084
1.5m	Kg					*15603	*15603	*12312	11433	*10444	8992
Ground	Kg					*16046	*16046	*12705	11245	*10546	8913
-1.5m	Kg			*20260	*20260	*15760	*15760	*12559	11222		
-3.0m	Kg	*22921	*22921	*18517	*18517	*14631	*14631	*11454	*11454		
-4.5m	Kg			*15338	*15338	*11890	*11890				

They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

O Overall dimensions (mm)



O Operating range (mm)



a. Maximum crushing height	12279
b. Maximum crushing depth	8077
c. Maximum crushing distance	12841
d. Crushing height at maximum crushing distance	2345
e. Maximum ground crushing distance	10655
f. Minimum ground crushing distance	7584

