



SANY HEAVY MACHINERY LTD

<http://www.sanyglobal.com>

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SY365H

Engine power

231kW/2100rpm

Bucket capacity

1.9 m³

Operating weight

39000kg



Optimised efficient



Stable foundation



Security configuration



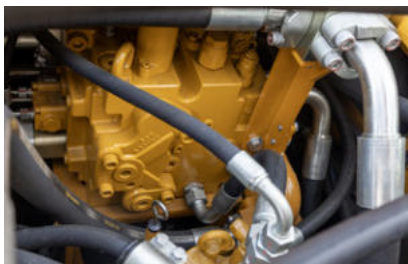


Strong power

► Engine

The engine is a Cummins QSL9, providing robust power and reliability.

Customized universal characteristics curve with large economical fuel consumption zone to achieve low fuel consumption.



► Main valve

Imported Cummins QSL9 engine, rated power 231kW, meets the requirements of medium to high-load operations.



► Main pump

Highly reliable high-displacement main pump with higher flow and speed. The pump operates within the engine's optimal fuel consumption range and the main pump's high volumetric efficiency zone, achieving high efficiency and low consumption.



► Filtration system

Standard oil bath air filtration system and two-stage fuel filtration system, equipped with a high-power radiator for enhanced adaptability to high temperature, heavy dust, and fuel quality.

Larger radiator with 10% increased water cooling capacity and 5% enhanced fuel cooling capability, easily handling high-temperature environment.

Air filtration system with a filtering efficiency of 99.9%. Equipped with an air filter block alarm, adaptable to heavy dust.

High-precision filtration of two-stage fuel filtration system, effectively filtering biodiesel and mineral diesel, and exhibiting strong adaptability to various fuel types.



High adaptability to high altitudes, power reduction not exceeding 30% at an altitude of 3,500 meters.

The main pump compartment is 30% larger, increasing the operational space for filter replacement by 20%.

The external air pre-filter replacement space is 30% larger than that of standard excavators, allowing for tool-free replacement.

Strengthened structure

The boom adopts a newly designed structure, having undergone multibody dynamics simulation and stress test, significantly improving strength and durability. The front and rear support of the arm are made of forging, with the addition of wear-resistant ring and steel bushing, enhancing wear resistance and effectively extending the overall lifespan.



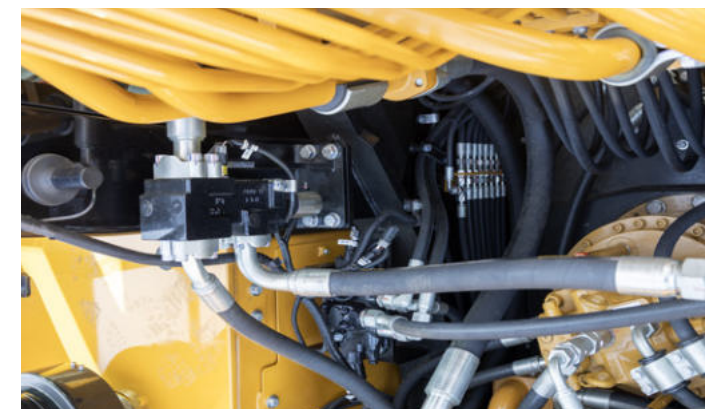
Safe and durable

More reliable mining tracks with a large cross-section high-strength frame offer long lifespan and optimal stability, along with flexible options for track rollers and tracks. The tracks are made using high-strength special steel with rolled three-tooth plates, providing better ground contact, higher stability, and greater durability.



Mine-type drain filter

As an industry first, the mine-type drain filter is designed to withstand harsh mining conditions, enhancing the cleanliness of hydraulic oil and significantly reducing hydraulic system failures.





Comfort and intelligence

Intelligent cab-The new SANY cab features Huaxing's brand-new intelligent central control system. ICC3.0. Incorporate automotive electronics technology, leading the industry in digital technological sense and operational convenience.

10-Inch touchscreen, Start/Stop engine button and multifunctional digital knob, bluetooth/WIFI/GPS, Equipment-Phone-Cloud, data interconnection, Intelligent service and big data platform system, Centralized power management, Fault detection and alarm, Intelligent debugging and diagnostics, Data logging.



Safety protection



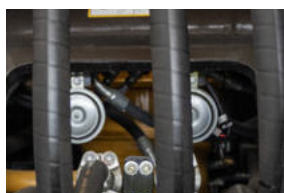
Cab safety net

The comprehensive safety package is completed by protective grilles on the roof and in the full section of the cab window.



Two cameras

A rear camera and a side camera are installed as standard.



Lightning and horn

In poor lighting conditions, seven work spotlights provide excellent illumination.



Emergency stop switch and main power switch



Safety devices

Armrests, pedals, and non-slip relay coordination ensure both ease of use and safety.



Left and right rearview mirror

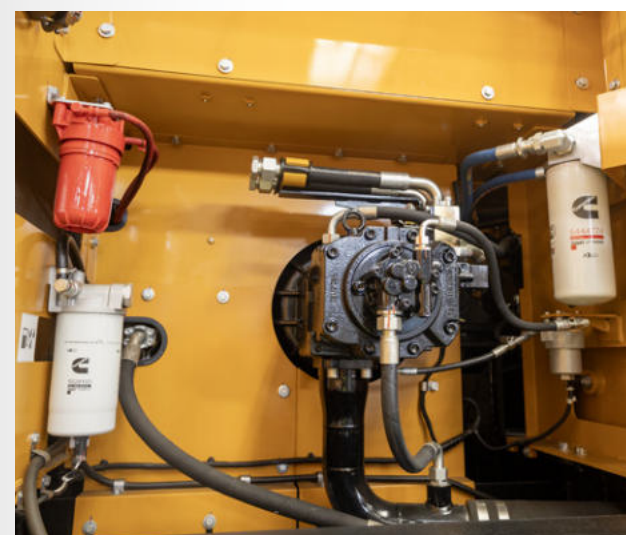
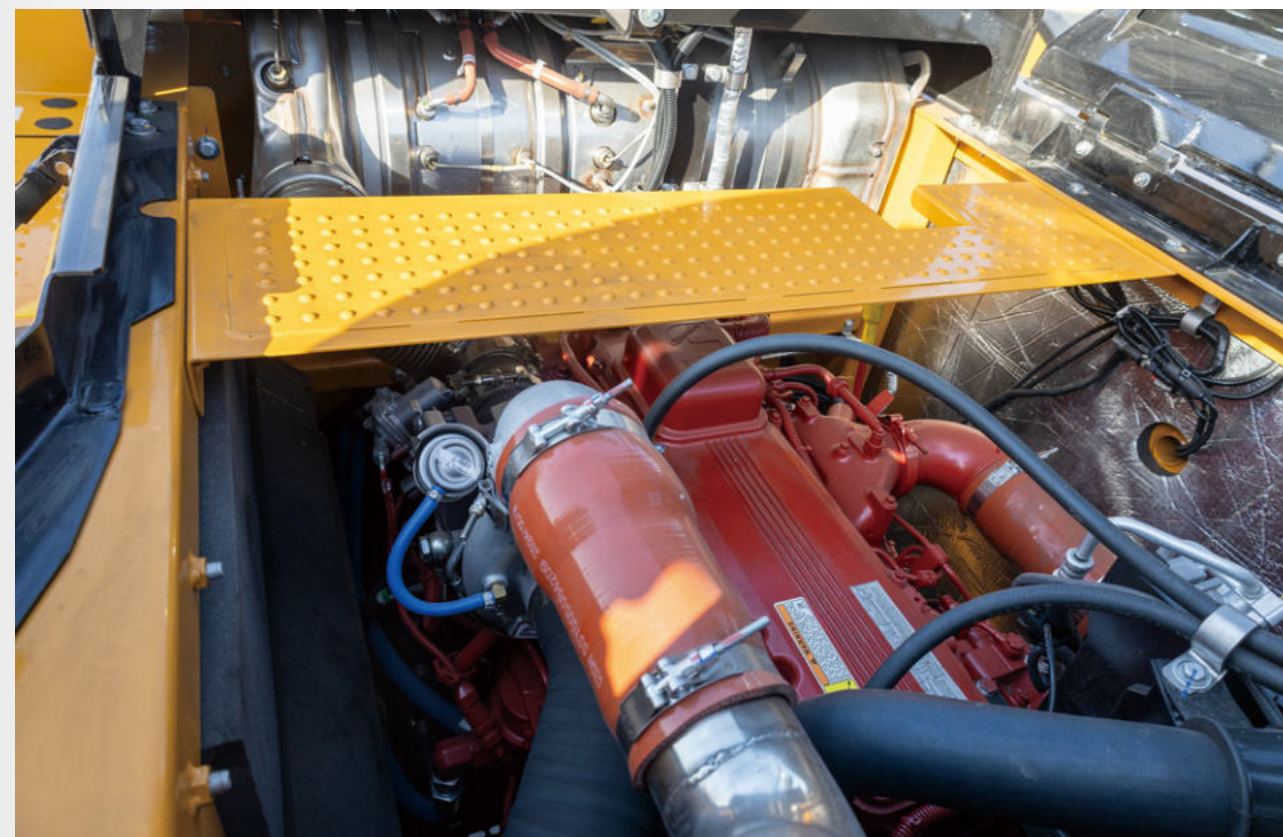
The ideally angled rearview mirror combined with the high clarity camera ensures zero blind spots.

Simplicity is key in maintenance

Centrally located filters for easier inspection and maintenance.

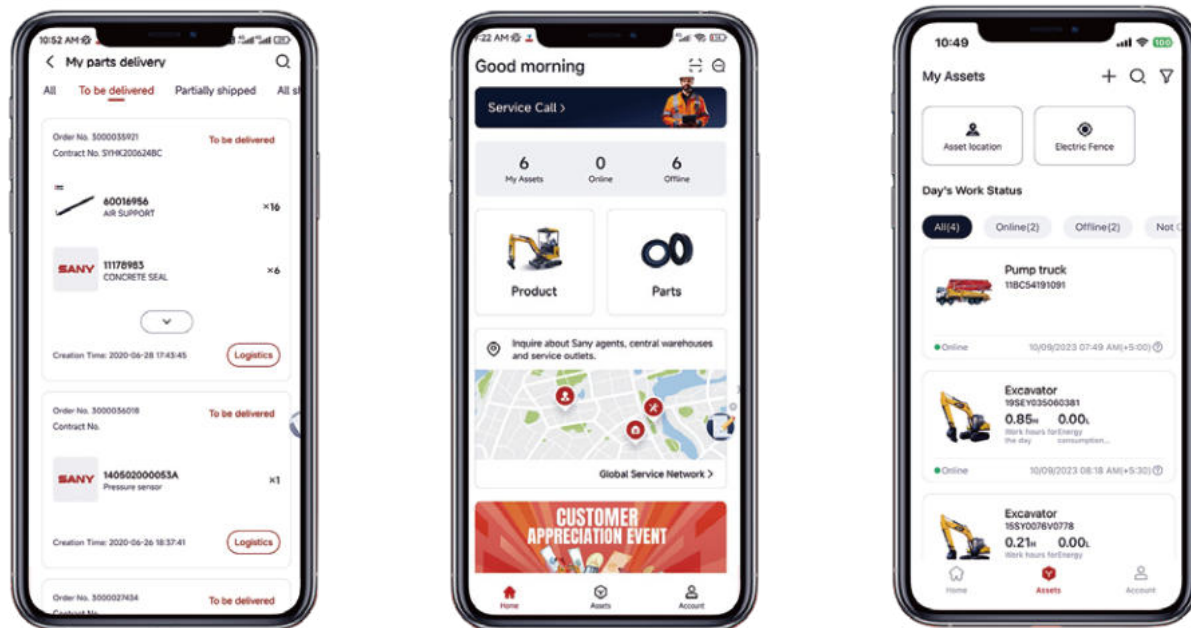
Intelligent maintenance reminder with real-time display of engine operation, maintenance, and alarm information on the screen.

Platform-based and modular design for key engine component, allowing for quick replacement of service parts.



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

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

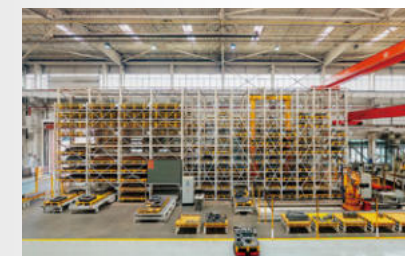
Key components like working device, cab and hydraulic components etc. must be subject to fatigue test over 800,000 times.



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	
Operating weight	39000 kg	Traveling speed (high/low)	5.5/3.5 (km/h)
Bucket capacity	1.9 m³	Swing speed	8.8 rpm
Engine	Stage V	Gradeability	70% (35°)
Model	QSL9	Ground pressure	68 kPa
Type	Water-cooled, 4 cylinder, with commonrail and Adblue	Bucket digging force	235 kN
Engine power	231kW/2100rpm	Arm digging force	210 kN
Maximum torque	1526Nm/1400rpm		
Displacement	8.9 L		

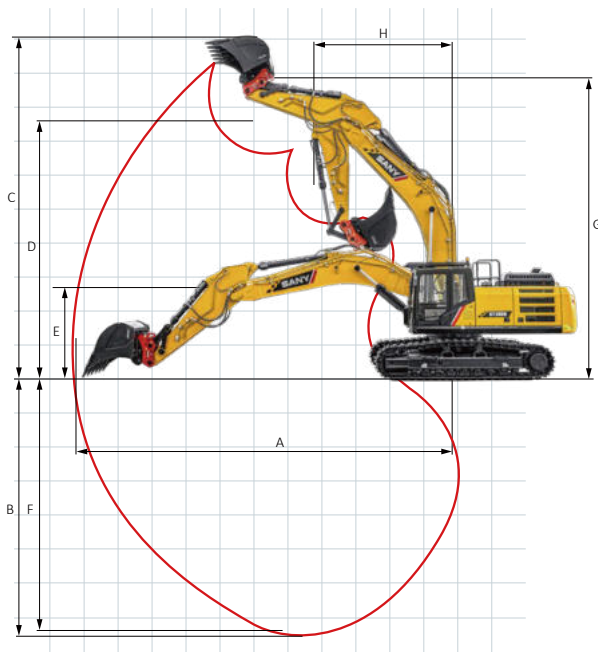
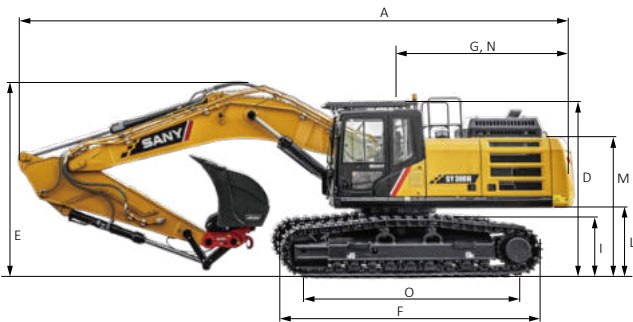
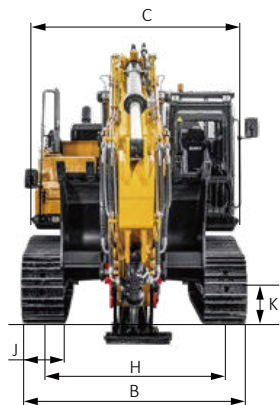
Oil type and coolant capacity		Traveling part	
Fuel tank	600 L	Number of track plates	49
Engine oil	36 L	Each carrier roller side	2
Radiator	31.5 L	Each thrust wheel side	9
Final drive	2x6.3 L	Standard track	600mm

Lifting capacity table

Table of lifting capacity														
		Boom -- 6500mm				Arm -- 3200mm								
		3.0m		4.5m		6.0m		7.5m		9.0m		The farthest		The farthest distance
Load point height														
7.5 m	kg							*8533	*8533			*8541	*8541	7630
6.0 m	kg							*8682	*8682			*8443	6915	8555
4.5 m	kg			*13474	*13474	*10704	*10704	*9274	*9274	*8501	6200	*8485	6144	9050
3.0 m	kg			*16649	*16649	*12200	*12200	*10036	7887	*8803	6055	*8616	5746	9415
1.5 m	kg			*18708	15225	*13435	10250	*10719	7583	*9094	5904	*8807	5611	9340
Ground line	kg			*19126	14836	*14048	9911	*11097	7370	*9156	5802	*9026	5710	9120
-1.5 m	kg	*14875	*14875	*18412	14796	*13906	9788	*10965	7283			*9262	6118	8615
-3.0 m	kg	*22165	*22165	*16719	*16719	*12885	9854	*9986	7354			*9438	7024	7785
-4.5 m	kg	*17552	*17552	*13667	*13667	*10459	*10459					*9325	*9325	6525

Table of lifting capacity												
Boom -- 6500mm						Arm -- 2600mm						
 Load point height		3.0m		4.5m		6.0m		7.5m				
												
7.5 m	kg					*11297	*11297					
6.0 m	kg					*12052	*12052	*11018	*11018			
4.5 m	kg					*17532	*17532	*13535	*13535	*11610	*11610	
3.0 m	kg					*15210	*15210	*12413	8921			
1.5 m	kg					*16441	11675	*13079	8695			
Ground line	kg					*22462	*22462	*16837	11457	*13314	8553	
-1.5 m	kg					*21099	*21099	*16292	11415	*12825	8527	
-3.0 m	kg	*23154	*23154	*18621	*18621	*14581	*14581					
-4.5 m	kg					*14213	*14213					

Machine dimensions



Overall dimensions (mm)	SY365H
A. Overall length (in transportation state)	11432
B. Overall width	3190/2990
C. Overall height (in transportation state)	3746
D. Upper width	2986
E. Overall height (cab top)	3440
F. Width of standard track plate	600/700/800
G. Track gauge	2590/2390
H. Minimum ground clearance	550
I. slewing radius of tail	3461
J. Grounding length of track	4140
k. Track length	5065

Operation range (mm)	SY365H
A. Max. digging height	9906
B. Max. dumping height	7125
C. Max. digging depth	7448
D. Max. vertical digging depth	5125
E. Max. digging reach	10174
F. Min. swing radius	4540
G. Max. digging reach at ground level	8949

Standard configuration

Operations Comfort / Cabin		Working Equipment		Safety	
Automatic air conditioning C/H*	•	Integrated cooling box	•	Boom and arm load holding valves with overload indicator	•
Radio and speaker	•	10-inch color display	•	Double acting circuit for hydraulic quick coupler with piping	•
Armrests (adjustable)	•	ROPS/FOPS cabin with front protection	•	Breaker&Shear line proportional on Joystick with piping	•
12v outlets	•	Rubber floor	•	Rotation line on Joystick with piping	•
USB port (music)	•			Rotation line proportional on Joystick with piping	•
Air-suspension	•			Flow adjustment for attachments	•
Heated seat	•			Pressure adjustment for attachments	•
Skylight openable	•			Ram protection on both sides of the upper structure	•
				Battery master switch	•
				Travel Alarm	•
				Warning beacon	•
				Rear camera	•
				Camera on right side	•
				Handrails	•
				Lockable hoods	•
				Lockable fuel cap	•

Working Lights		Engine Compartment		Hydraulic system		CAB	
Lights – front (LED)	●	Auto idle	●	Swing brake	●	GPS (standard configuration)	●
Lights – boom (LED)	●	Fuel pump	●	Two-speed	●		
Lights – platform (LED)	●	DPF	●	Piping for additional hydraulic function AUX 1	●		
Lights – back (LED)	●	DOC	●	Piping for additional hydraulic function AUX 2	●		
				Hydraulic pre-pressure operating joysticks	●		

• stands for standard configurations ○ stands for optional configurations