

SY305LC

TRACKED EXCAVATOR

Max. Gross Power

209 kW / 2,100 rpm

Operating Weight

31,500-32,265 kg

Max. Dig Depth

6,815 mm



SANY:

QUALITY CHANGES THE WORLD

Founded in 1989, SANY has grown into one of the world's largest construction equipment manufacturers, with global R&D and production facilities and machines working in 150+ countries. Our range spans 1-400 tonne excavators, compaction and road equipment, material handlers, loaders (wheel, skid steer & backhoe), telescopic handlers, fork trucks, reach stackers and graders built with proven Lighthouse manufacturing heritage and modern quality systems.

A GLOBAL LEADER BEHIND EVERY RANGE

From compact excavators to high-tonnage earthmovers, cranes, telehandlers, concrete machinery, road equipment and more, SANY's worldwide product range reflects decades of innovation, investment, and real-world experience.

This broad international range is proven on job sites in over 150 countries, ensuring every machine delivered to Australia is backed by extensive testing, real-world performance and the strength of a global supply chain.

ENGINEERED FOR OUR AUSTRALIAN CUSTOMERS

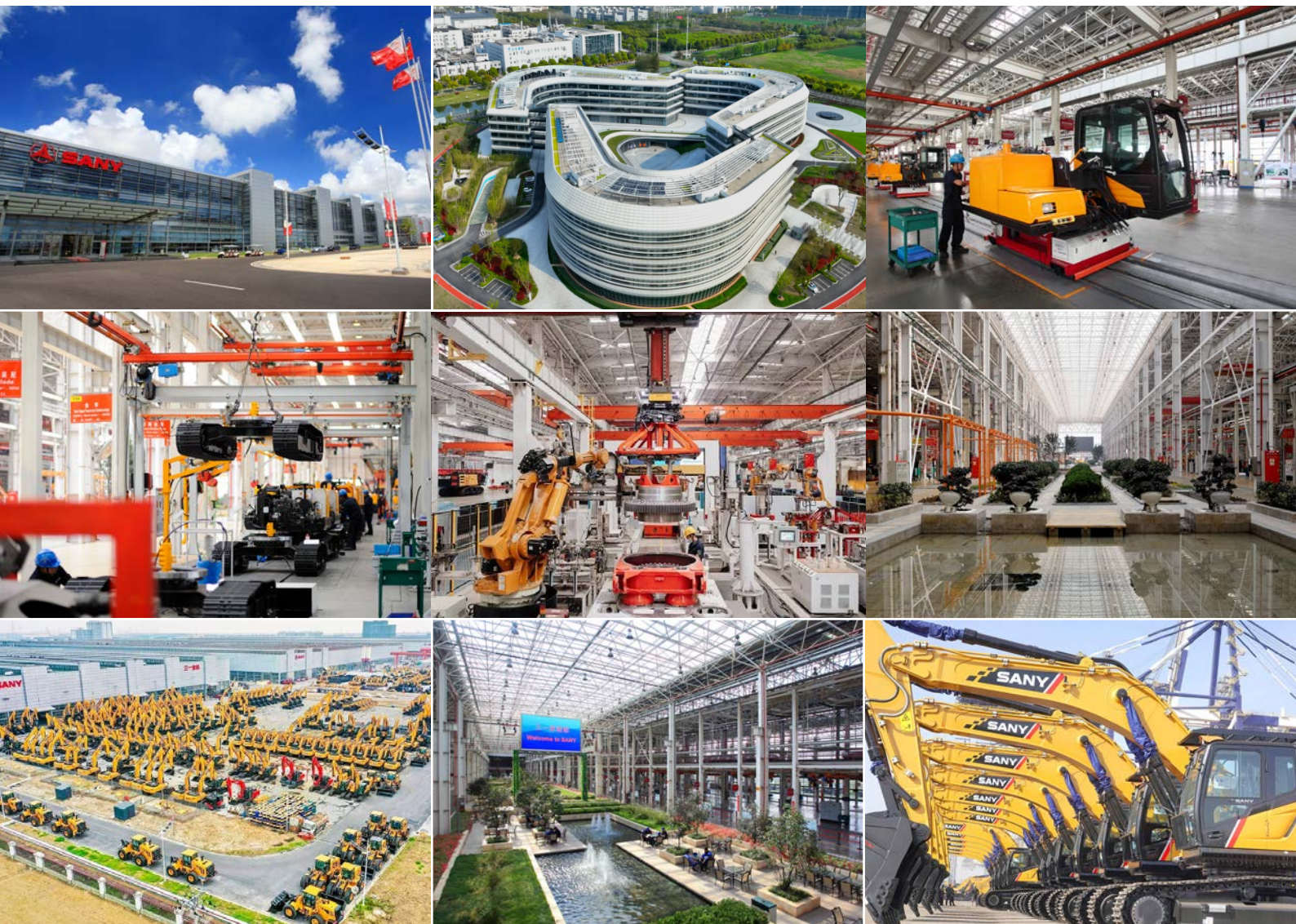
Every SANY machine destined for Australia is engineered to meet Australian regulations and real-world use cases – including CE, Tier III and stage V compliance specification offerings.

For Australian construction customers, this worldwide capability translates directly into trust. SANY selects and engineers its product line specifically for local requirements, combining global innovation with Australian-quality standards, dealer support and service.

GLOBAL MANUFACTURING EXCELLENCE

SANY's long-standing commitment to quality and innovation – supported by advanced intelligent manufacturing and a sustained 5-7% of annual revenue reinvested into R&D – results in machines that deliver reliability, efficiency, and consistent performance on site.

With state-of-the-art production facilities and rigorous global testing standards, every machine is built to withstand demanding conditions and deliver long-term value.



INTRODUCING THE SY305LC

The SANY SY305LC Stage V excavator combines high-production performance with exceptional fuel efficiency, making it ideal for demanding civil construction, quarry, earthmoving and infrastructure applications. Powered by a 209 kW Cummins Stage V engine and SANY's latest generation intelligent hydraulic system, the SY305LC delivers impressive breakout forces, fast cycle times and smooth, precise multifunction operation while optimising fuel consumption.

Standard auxiliary hydraulics, multiple work modes and quick-hitch compatibility provide the versatility to operate a wide range of attachments, increasing productivity across diverse applications. Built with a reinforced heavy-duty undercarriage, robust steel structures and premium hydraulic components, the SY305LC is engineered to maximise uptime, reduce operating costs and deliver long-term reliability in Australia's toughest working conditions.



WHY CHOOSE SANY EXCAVATORS



WORLD RENOWNED COMPONENTS

SANY uses proven, top-tier components to deliver long-lasting reliability – meaning you benefit from fewer breakdowns, longer service life, and lower ownership costs.



PREMIUM COMMAND CARE 4 YEAR WARRANTY

Tailored to eliminate unexpected lifetime repair costs, this comprehensive protection lowers your total ownership risks while securing your machine's premium long-term resale value.



LOCAL SUPPORT

CEA's national footprint of company owned facilities will provide you with after-market support to keep your machine running, and simplify ownership.



GREAT VALUE, UNCOMPROMISED QUALITY

From large-scale earthworks and quarry operations to infrastructure projects and site development, the SY305LC is engineered to perform in harsh environments while maintaining productivity throughout long working shifts.



LOW OPERATING COSTS

Simple engineering, readily available parts, and low fuel consumption reduce ongoing running costs – a major advantage in Australia's high-cost markets.



STANDARD ADVANCED FEATURES

SANY excavators include all essential features as standard – no costly add-ons or custom changes required.





OPTIMISED POWER UNIT

ENGINE

The high-efficiency common-rail diesel engine delivers excellent performance, optimised via three selectable operating modes that precisely match engine output and hydraulic power to working conditions. This advanced integration enhances machine responsiveness while significantly reducing fuel consumption and exhaust emissions.



MAIN PUMP

The positive flow-controlled hydraulic system dynamically adjusts pressure and oil flow to match operational demand. Utilising high-capacity variable displacement piston pumps delivering 2 x 281 L/min, the system achieves maximum hydraulic efficiency at low engine speeds.



MAIN VALVE

Engineered precisely to exceed demanding Australian applications, the main control valve delivers high reliability, minimal parasitic pressure drop, and superior flow distribution efficiency. It ensures exceptionally smooth and accurate compound movements, enabling operators to perform high-load hydraulic applications with maximum precision.

OPERATOR ENVIRONMENT



The SY305LC is designed to support operator comfort throughout long working shifts. An ergonomic cabin layout, air-suspension seat and intuitive controls help reduce fatigue while maintaining precise machine control in demanding applications.

Multi-function joysticks place key machine and attachment controls within easy reach, delivering smooth, responsive operation and precise hydraulic control across a wide range of applications.



The SY305LC combines modern technology with practical operator convenience features to create a productive and easy-to-use working environment. Key machine information, operating settings and comfort functions can be accessed quickly through the intuitive in-cab interface.

The large colour display provides access to machine information and operating settings, while automatic climate control helps maintain a comfortable cabin environment throughout the year. USB connectivity and integrated multimedia functions provide additional convenience for long working days on site.

POWERFUL IN PERFORMANCE

.01

Components

Powered by a proven 209 kW Cummins Stage V engine and advanced hydraulic technology, the SY305LC delivers responsive machine control, strong breakout performance and excellent fuel efficiency. The intelligent hydraulic system continuously matches oil flow and pressure to machine demand, providing smooth multifunction operation and precise control.



.02

High-Power Efficiency & Stability

The integration of the Cummins engine and electronically controlled hydraulic system ensures available power is directed where it is needed most. Multiple work modes allow operators to balance performance and fuel consumption, helping reduce operating costs without compromising output.

To fully utilise this production capability, the machine is mounted on a reinforced, heavy-duty (HD) undercarriage. This robust chassis ensures maximum structural stability, optimal weight distribution, and long-term durability during continuous high-load applications



.03

Quality

Built for long service life, the SY305LC features a reinforced upper structure, heavy-duty undercarriage and durable boom and arm assembly. High-strength materials, precision manufacturing and robot-welded structures deliver the durability and reliability required for continuous operation.



.04

Safety

The SY305LC is equipped with a comprehensive range of factory-fitted safety features designed to help protect operators, bystanders and equipment in demanding working environments.

ROPS-certified cabin protection, boom safety valves, travel alarms, overload monitoring and an emergency engine shutdown system provide an additional layer of protection while supporting safe and confident operation throughout the working day



.05

User experience

The premium operator environment is designed to reduce fatigue and improve productivity throughout long shifts. SANY's latest generation C12 ergonomic cab layout, air-suspension seat and intuitive controls place all key machine functions within easy reach of the operator.

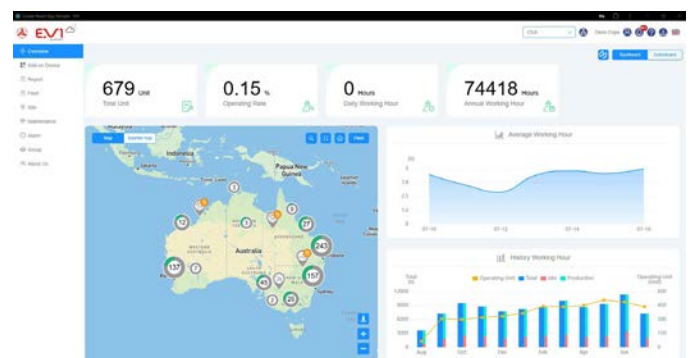
A spacious cabin, low noise levels and excellent visibility help create a comfortable and productive working environment.

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Connectivity

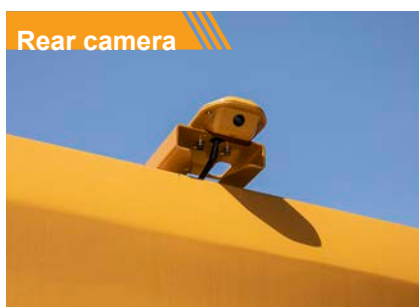
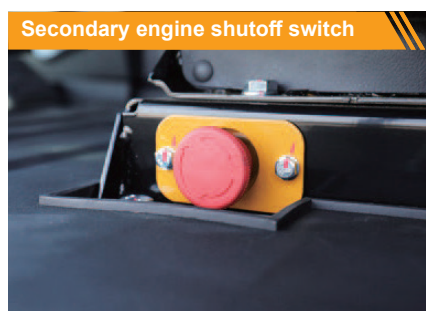
The 10-inch touchscreen display provides quick access to machine functions, operating information and performance settings through an intuitive interface.

Integrated EVI telematics enables remote machine monitoring, maintenance tracking and fleet management, providing valuable machine insights while helping improve uptime and operational efficiency.





SAFETY FACILITY



Complete research & development and test system

To ensure world-class durability, Sany operates a fully integrated, state-of-the-art machine endurance testing center. Before entering the market, every single excavator model must successfully complete more than 2,000 hours of real-world field excavation testing.

Furthermore, critical high-stress assemblies—including the boom, arm, cabin, and hydraulic components—undergo rigorous structural fatigue testing exceeding 800,000 cycles. This uncompromising validation process guarantees that every machine delivers maximum uptime, structural integrity, and long-term reliability in the harshest working conditions.



Advanced manufacturing technology

Precision Manufacturing: SANY utilises advanced Rail Guided Vehicle (RGV) assembly lines, fully automated welding robots, and high-precision machining centres. This cutting-edge infrastructure ensures uncompromised fabrication accuracy and repeatable build quality for every machine.

Lighthouse Factory Certification: SANY's facilities hold the prestigious World Economic Forum (WEF) Lighthouse Factory certification, recognising the world's most advanced manufacturing sites. This pioneering smart automation guarantees that every machine delivers world-class reliability, structural integrity, and maximum uptime.



SY305LC

YOUR UPTIME. OUR PRIORITY.

Rely on SANY's value-added aftermarket services to keep your equipment operating at peak efficiency. From proactive maintenance to reducing unexpected downtime and controlling operating costs, we provide the support your business depends on. Our Australian service solutions further boost performance, streamline maintenance tasks, and improve profitability across your fleet.

FOUR YEAR WARRANTY

Built on a global reputation for reliability and durability, SANY excavators come with an unmatched Four-year warranty* – one of the strongest in the industry.

It's a clear statement of the confidence we have in our machines and our commitment to your uptime. Your investment is protected from day one, giving you the assurance that if an issue arises, you're fully covered.

*Terms and conditions apply.

SERVICE AND SUPPORT

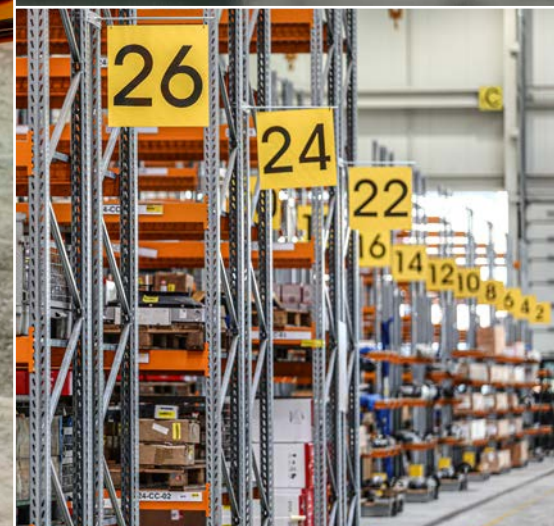
SANY's extensive network of certified technicians and dealer partners provides on-site service and technical expertise designed to minimise downtime and maintain peak machine performance.

Working in coordination with our advanced manufacturing facilities and CEA's Australian network combine global engineering capability with practical local support.

SANY GENUINE PARTS

SANY genuine parts are engineered, rigorously tested, and manufactured to the exact specifications required by your machine. Their precise fit and compatibility guarantee maximum performance and system integrity.

By maintaining correct operational tolerances, they enhance on-site safety and significantly reduce the risk of unplanned failures or downtime. All genuine parts are supported by a 12-month warranty for added assurance.



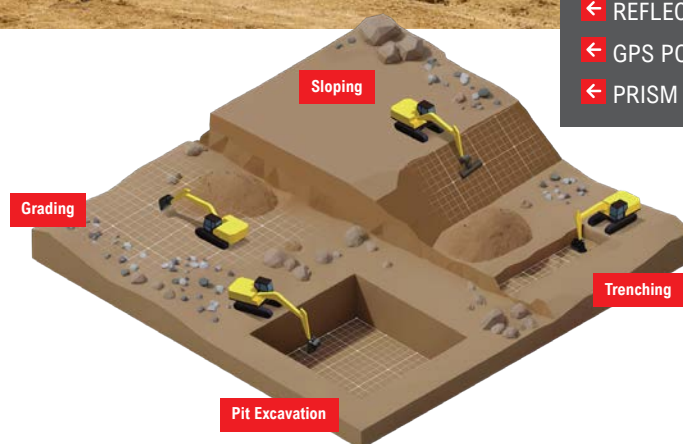
INTELLIGENT SUPPORT



ADDED FEATURES

- ← BASE STATION
- ← SURVEYOR SCOPE
- ← LASERS
- ← REFLECTORS
- ← GPS POLES
- ← PRISM

SANY's connected tools give you clarity, confidence, and control on every project. ROOTPILOT brings precision to the bucket; EVI Telematics brings visibility to the fleet. Together, they reduce downtime, cut costs, and boost productivity. Smart technology – driving your success.



SANY ROOTPILOT

SANY ROOTPILOT is a high-precision 3D machine-control system that uses GNSS, IMU sensors, and smart algorithms to guide excavators in real time. It gives operators clear, intuitive 3D feedback for faster, safer, and more accurate digging.

ROOTPILOT installs quickly, works with multiple machines and attachments, and syncs designs through the cloud so every operator works from the same plan. It's ideal for highways, municipal works, and foundation projects where precision is critical.

Main customer benefits:

- ± 3 cm accuracy for first-time-right excavation
- Lower fuel, labour, and rework costs
- Faster production with fewer survey checks
- Works with 2D or full 3D design models
- Boosts operator confidence and consistency



Designed for advanced markets like Australia, our digital fleet management system EVI gives you complete visibility of your machines whenever and wherever you need it. By simplifying fleet oversight, it enables better decision-making, lowers costs, and improves uptime across your operations. With built-in safety and security features that let you monitor location and usage in real time, you gain greater control and peace of mind.

Key benefits include:

- Enhanced fleet visibility and remote machine management
- Set authorised operating hours and create geofenced security zones to reduce theft risk and misuse
- Greater visibility of routine checks and machine health
- Operating report analysis for smarter, data-led decision-making
- Customer account management for personalised, data-backed communication

TECHNICAL SPECIFICATIONS

SPECIFICATION	UNIT	VALUE
Operating weight	kg	31500-32265
Bucket capacity	m ³	No bucket/1.7*
Engine		Stage V
Model		L9
Type		Variable-capacity piston pump
Engine power	kW/rpm	209/2100
Maximum torque	N·m/rpm	1476/1400
Displacement	L	8.9
Batteries	V	2x12

HYDRAULIC SYSTEM	UNIT	VALUE
Main pump		2 x variable-piston-pump with electronic positive control
Max. oil flow	L/min	2 x 281
Travel motor		2 speed axial piston motor with planetary reducer and automatic multi-disc brake
Swing motor		Axial piston motor with planetary reducer and automatic holding brake

SERVICE REFILL CAPACITIES	UNIT	VALUE
Fuel tank	L	540
Engine coolant	L	51
Engine oil	L	30
Drive (per side)	L	8.5
Adblue	L	85
Hydraulic oil tank	L	300

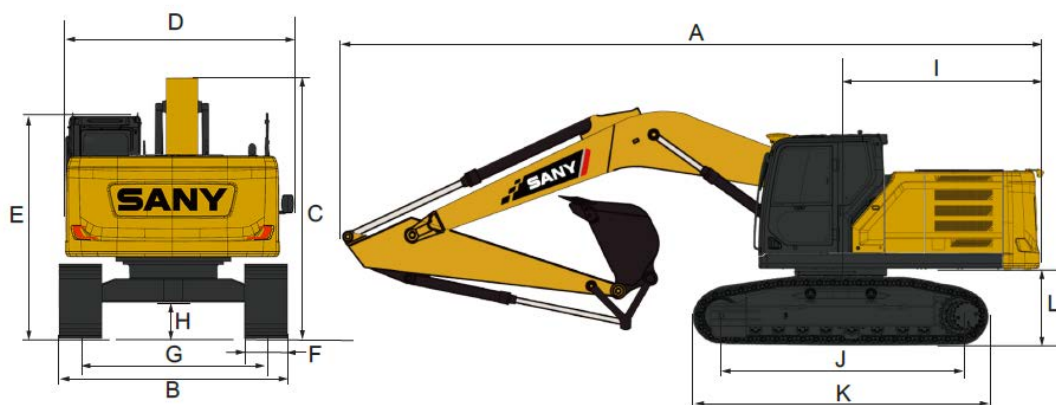
MAIN PERFORMANCE	UNIT	VALUE
Swing speed	rpm	9
Max. travel speed	km/h	5.2/3.4
Max. travel force	kN	281
Grade ability	°	35°
Ground pressure	kg/cm ²	0.6
Bucket digging force	kN	204
Arm crowd force	kN	153

RELIEF VALVE SETTINGS	UNIT	VALUE
Implement circuit	bar	343
Power boost	bar	373
Swing circuit	bar	275
Travel circuit	bar	343
Pilot pressure	bar	39

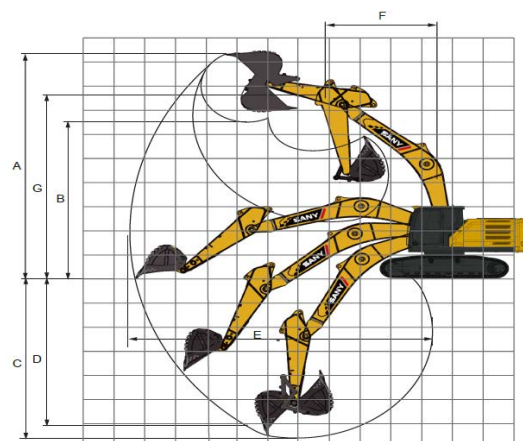
UNDER AND UPPER STRUCTURE	UNIT	VALUE
Boom length	mm	6150
Arm length	mm	3200
Bottom rollers		8
Top rollers		2
Rotation device		Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

MACHINE DIMENSIONS

ITEM	F - Track shoe width			
	600 (Standard)		700	800
	Standard Undercarriage	Narrow Undercarriage	Standard Undercarriage	Standard Undercarriage
A. Overall length (transport)	10,667	10,667	10,667	10,667
B. Overall width	3,190	2,995	3,290	3,390
C. Overall height (transport)	3,470	3,470	3,470	3,470
D. Upper width	2,986	2,986	2,986	2,986
E. Overall height (cab top)	3,280	3,280	3,280	3,280
F.				
G. Track gauge	2,590	2,390	2,390	2,590
H. Minimum ground clearance (excluding track plate flange height)	550	550	550	550
I. Swing radius	3,315	3,315	3,315	3,315
J. Length to centers of rollers	3,916	3,916	3,916	3,916
K. Track length	4,840	4,840	4,840	4,840
L. Upper carriage ground clearance (excluding track shoe flange height)	1,250	1,250	1,250	1,250



MAIN PERFORMANCE	SY305LC
A. Maximum excavation height	10,497
B. Maximum unloading height	7,359
C. Maximum excavation depth	6,815
D. Maximum vertical excavation depth	6,170
E. Maximum excavation distance	10,870
F. Minimum swing radius	4,000
G. Maximum height at minimum swing radius	8,405



STANDARD CONFIGURATION

ENGINE SYSTEM

Automatic engine speed control	•
Automatic engine idle shutdown	•
Electric refueling pump	OPT
Silicone oil clutch fan	•

HYDRAULIC SYSTEM

Semi-electronic main control valve	•
Safety valve	•
Mode switch	•
Boom and stick regeneration circuits	•
Auto digging boost	•
Quick coupler circuit	•
AUX 1 & AUX 2	•

CABIN

ROPS Certification	•
Heated air suspension seat	•
10" display	•
Key panel	•
Parallel wiper	•
Keyless button	•
Top and openable front guard	•
Sun roller blind	•

ELECTRICAL SYSTEM

Maintenance free battery	•
LED left/right-side boom lights, cab lights	•
Programmable time-delay LED working lights	•
Quick hitch harness	•

SAFETY AND SECURITY

Rear and right cameras	OPT
Ground-level engine shut-off switch	•
Overload alarm	•
Swing/travelling alarm	•
Standard seat belt	•

BOOM, ARM & UNDERCARRIAGE

3.2m Arm	•
2.9m Arm	OPT
600 mm triple ribbed track 1	•
700 mm triple ribbed track 2	•
800 mm triple ribbed track 3	OPT
Standard undercarriage (gauge 2390mm)	OPT
Widening undercarriage (gauge 2590mm)	•

Subject to alterations.

In the interest of continual equipment development, SANY reserves the right to change these specifications at any time without prior notification.

SY305LC

SPECIFICATION

SY305LC LIFTING CAPACITIES

Stick: 3,200 mm Boom: 6,150 mm Counterweight: 5,800 kg												
B	Unit	A								Maximum point position		
		3.0 m		4.5 m		6.0 m		7.5 m				
												mm
7.5 m	kg									*5,796	*5,796	6,854
6.0 m	kg							*7,440	5,592	*5,512	5,308	7,927
4.5 m	kg					*8,777	*8,777	*7,857	5,460	*5,478	4,682	8,525
3.0 m	kg			*13,301	10,813	*10,078	7,211	*8,500	5,270	*5,635	4,368	8,825
1.5 m	kg			*15,494	10,106	*11,268	6,853	7,696	5,081	5,736	4,271	8,860
0 m	kg			*16,368	9,767	*11,989	6,615	7,544	4,941	5,894	4,373	8,631
-1.5 m	kg	*12,939	*12,939	*16,113	9,688	10,261	6,514	7,479	4,882	6,396	4,727	8,118
-3.0 m	kg	*20,377	*20,377	*14,864	9,777	*11,298	6,547	*8,597	4,940	7,514	5,520	7,257
-4.5 m	kg	*16,297	*16,297	*12,257	10,032	*9,079	6,748			*8,766	7,468	5,892

1. This lifting capacity calculation is based on the GB/T 13331, ISO 10567, and SAE J1097 standards. The limit coefficient of the hydraulic system is 0.87, and the limit coefficient of tipping is 0.75.

2. The items marked with an asterisk (*) are limited by hydraulic pressure, and those without an asterisk (*) are limited by stability.

3. The lifting point is the front support hole of the stick (excluding the weight of the bucket). If any additional accessories such as buckets are added, deduct their weights from the aforementioned lifting weight.

4. A - Load point radius (m), B - Load point height (m).

SANY



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Not all products are available in all markets.
As part of our continuous improvement process,
we reserve the right to modify specifications and
designs without giving prior notice. Machines
shown may feature additional options other than
the standard machine specification.

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