

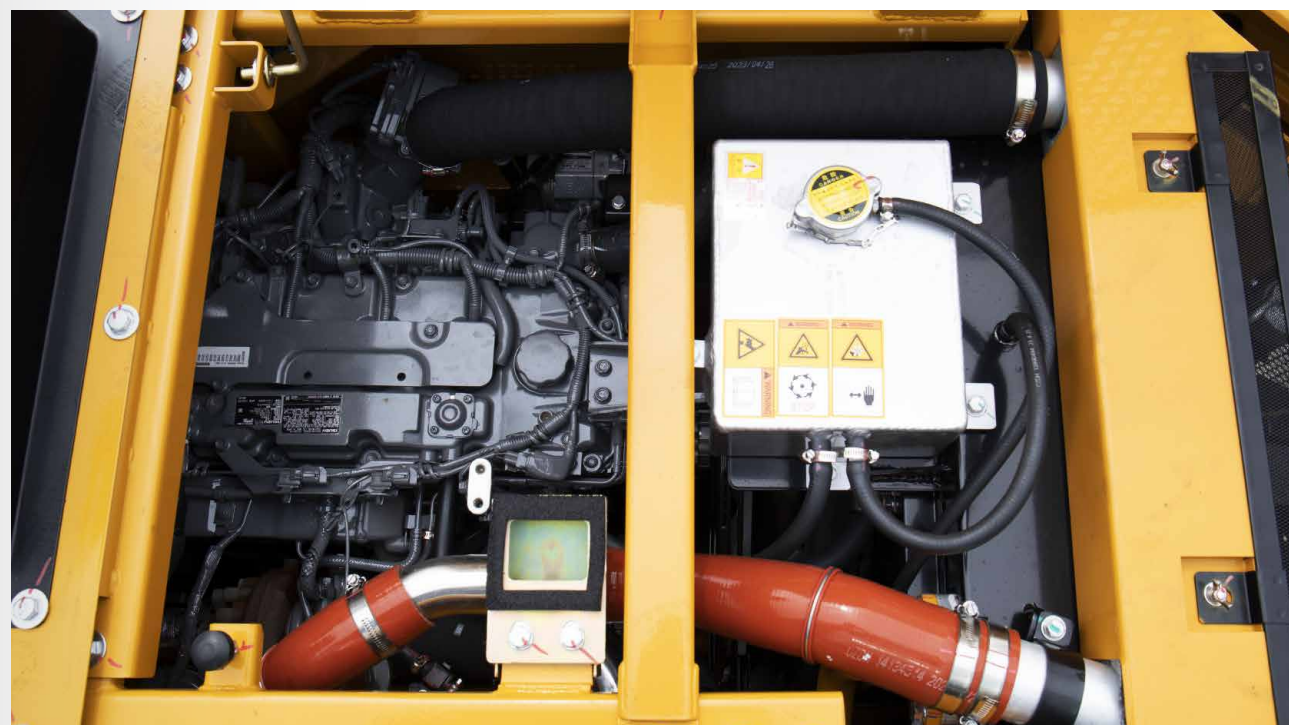


SY155U

Engine power	/	Bucket capacity	/	Operating weight
75kW/1900rpm		0.6 m ³		16000kg



- Stable and reliable
- Excellent operability
- With multiple functions
- Flexible



Strong power

More work with less fuel – the SY155U's sophisticated engine and hydraulic concept makes this a reality. The hugely powerful diesel engine, equipped with common rail technology and AdBlue emission control, the maximum torque of 375nm can be reached at an engine speed of 1800rpm. A choice of various operating modes and automatic speed reduction optimise fuel consumption in a tangible way. This is where power meets efficiency. The total savings thanks to improved fuel efficiency result in significant economic benefits.



New external gear pump, two valves, to achieve multiple actions at the same time operation, more coordinated work.



With high efficiency and energy saving, the newly and electronically controlled positive flow hydraulic system can provide accurate flow control according to the load requirements so as to accurately match the real-time power of the engine.

Precision guarantees robustness

Durability and robustness are standard features on all SANY excavators. The welded seams, for instance, are done by robots with a high degree of precision. This guarantees maximum load-bearing capacity and a long service life. Yet another advantage: All access panels parts are made exclusively from metal – perfect for the harsh everyday conditions on the construction site.



Quality

Stable foundation – For those who value durability and stability, the HD chassis is essential. You are covered with the SY155U, because the HD undercarriage comes as standard.

Dimensions

Performs in the tightest spaces – The powerful short-tail-swing machine with short overhang radius enables working even in tight spaces, where conventional machines would not be suitable.

User experience

Ergonomic design and enhanced user experience – The wide opening engine bonnet and clear, central arrangement of the key components make routine tasks such as maintenance and servicing simple and quick.



Safety

Protection for both people and the machine – From its stable, non-slip hand rails to its large mirrors and its camera, the safety package ensures that your construction site runs safely every day. emergency stop button.

Components

Thoroughly reliable – The quality and consequently the stability of the boom is a particular priority for SANY. The topside and underside of the SY155U are also manufactured from one continuous metal sheet.

Economy

Economically impressive – The smart control system adapts the pump capacity to the available engine power for greater performance and reduced fuel consumption. This boosts profitability on every construction site.



Always optimally configured



A monitor with a high-resolution display shows all important data at a glance. The menu navigation is extremely user-friendly and enables the driver to manage machine functions safely and comfortably. The camera image can also be shown on the display if required. The next inspection due and basic data such as torque and oil and cooling water temperatures are also displayed.

Various attachment devices can also be easily changed at the touch of a button within the programme. By pressing a button you can easily choose the operating mode that best suits the task at hand. The smart SANY drive control takes care of the rest. It always adjusts the engine and hydraulic power precisely to your requirements.

Safe enhanced cab

Brand new upgrade of cockpit

Protection for people and machines

Thanks to the ROPS or FOPS-tested operator's platform, To ensure that people and machines, tools and buildings and the environment are optimally protected, the standard equipment includes a battery disconnect switch and an emergency stop button. The travel alarm helps the operator to pay attention to their work during operation.

The individual that already has everything

Standard rearview camera, wide and comfortable air suspension seat, multi-function proportional control handle, keypad integrated button panel, easy to operate and comfortable.





Comfortable driving

A key feature of the SY155U is comprehensive comfort for its drivers. Excellent insulation around the cab provides reliable protection from noise and vibrations, as well as from high and low temperatures. The air-suspension driver's seat, provided as standard, offers the optimal comfort and fatigue prevention, featuring a high seat backrest and various adjustment options. Plenty of space and room for movement, a radio and a 12 V jack, adjustable ventilation, heating and an automatic climate control system, a huge amount of stowage space, extensive storage options, and various amenities contribute to a well-rounded comfort.

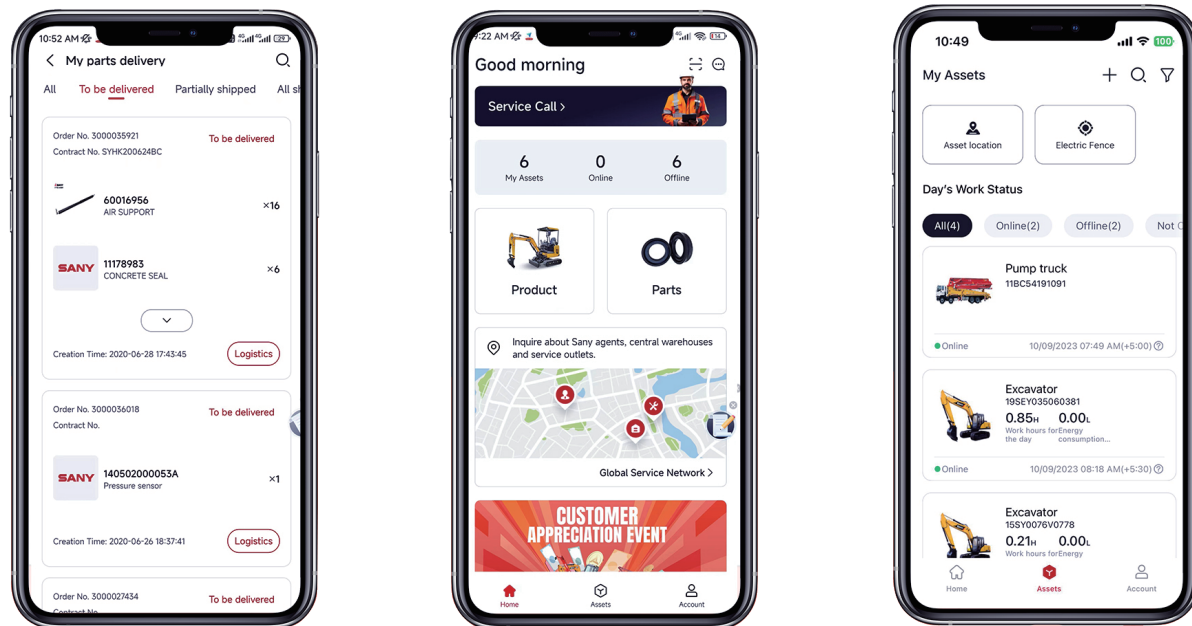


The joystick control enables all functions of the excavator to be operated intuitively. The responsive hydraulic valve control promptly executes commands, ensuring precision and safety in operations. Coupled with automatic speed settings, this enhances efficiency while maintaining lower fuel consumption for equivalent tasks. Not forgetting the large multifunctional monitor, which is easy to read and navigate, and displays all important information.



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 full automatic 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.



Convenient maintenance

The SY155U’s maintenance-friendly concept is based on simplicity. The engine bonnet is easy to open, which makes all components needed for regular checks and maintenance easily accessible. The filter, radiator and battery are arranged centrally and can therefore be accessed easily and quickly. Particularly long oil change intervals also help keep downtimes to a minimum.


























Technical specifications

Specification		Main performance	
Engine	ISUZU	Swingspeed	12.5 rpm
Model	4JJ1X	Max. Travel Speed	High 5.3 km/h, slow 3.1 km/h
Type	Water-cooled, 4 cylinder, with commonrail and Adblue	Max. Travel Force	114 kN
Engine Power	75 kW / 1900rpm	Bucket Capacity	0.6 m³
Maximum Torque	375 Nm / 1800 rpm	Groundpressure	35.3 kpa
Displacement	2.999 L	Gradeability	70%/35°
Startig Motor	24 V/ 4.5 kw	Bucket Digging Force Iso	103 kN
Electric Generator	50 A	Arm Digging Force Iso	67 kN
Walking Traction	114 kN	Engine Max Torque	375 Nm / 1800 rpm
Boom Cylinder diameter×Distance	105×1030 mm		
Arm Cylinder diameter×Distance	115×1165 mm		
Bucket Cylinder diameter×Distance	100×885 mm		
Dozer Blade Cylinder diameter×Distance	130×145 mm		

Service Refill Capacities / Traveling part / Structural Parts / Optioanal			
Fuel Tank	220 L	Each Carrier Roller Side	/
Engine Coolant	23.6 L	Each Side Of Supporting Wheel	3
Engine Oil	15 L	Standard Track	
Drive (Per Side)	1.8 L	Final Drive	2×2.2
Adblue	20 L	Number of Track Shoe (Unilateral)	44
Hydraulic Oil Tank	110 L	Number of Upper Rollers (Unilateral)	1
Water Radiator	10 m	Number of Lower Rollers (Unilateral)	7
Boom	4.6 m	Optioanal Track Width	500/600/700 mm
Arm	2.5 m	Optional Arm	2500/3000 mm

Lifting capacities of lower dozer blade

		Radius								Digging reach								
	Load point height	2.0m		3.0m		4.0m		5.0m		6.0m		7.0m		Max.		Meter		
																		
7.0 m	kg					3353	3353							2536	2536	4,3		
6.0 m	kg					3632	3632	3310	2687					2216	2216	5,4		
5.0 m	kg					3594	3594	3944	2685	2590	2061					1994	1994	6,1
4.0 m	kg			4736	4736	4643	3487	4146	2628	3822	2048					1764	1764	6,3
3.0 m	kg			6858	4607	5314	3325	4484	2537	3967	2001					1625	1625	6,9
2.0 m	kg			8370	4238	6031	3140	4855	2432	4144	1941	2549	1574	1548	1548	7,1		
1.0 m	kg			6651	3 979	6547	2980	5144	2334	4278	1881	2748	1545	2183	1520	7,1		
Ground line	kg			6813	3868	6703	2876	5253	2260	4293	1834					2366	1539	6,9
-1.0 m	kg	4686	4686	8485	3839	6484	2826	5115	2218	4163	1854					2659	1612	6,6
-2.0 m	kg	7212	5997	7511	3854	5892	2819	4659	2209	3559	1813					3151	1763	6,2
-3.0 m	kg	7480	6088	6070	3909	4842	2853	3697	2242					3048	2050	5,5		
-4.0 m	kg			3876	3876	2956	2948									2372	2372	4,4

		Radius						Digging reach												
	Load point height	2.0m		3.0m		4.0m		5.0m		6.0m		7.0m		Max.		Meter				
																				
7.0 m	kg					3353	3353							2536	2536	4,3				
6.0 m	kg					3632	3632	3310	2687							2216	2216	5,4		
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-2.0 m	kg	7212	5997	7511	3854	5892	2819	4659	2209	3559	1813							3151	1763	6,2
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-4.0 m	kg			3876	3876	2956	2948							2372	2372			4,4		

1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where the limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;
2. Item with * is limited by hydraulic pressure and item without “*” is limited by stability;
3. Lifting point is front support hole of arm (excluding the weight of bucket). It is necessary to deduct from the above lifting capacity if additional accessory is installed such as bucket etc.;

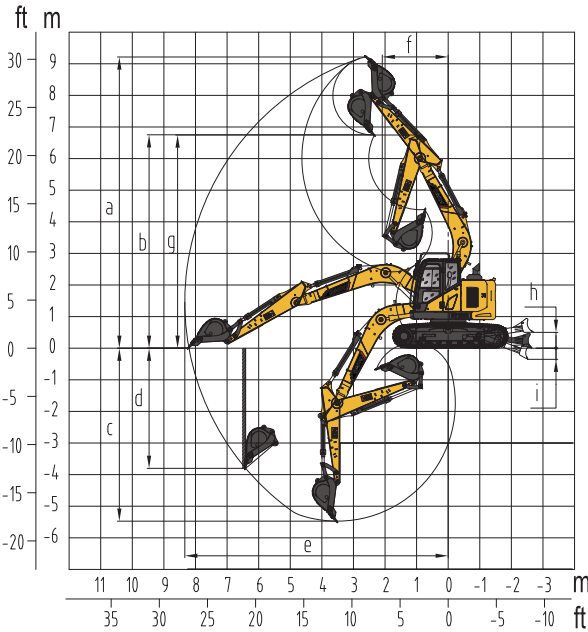
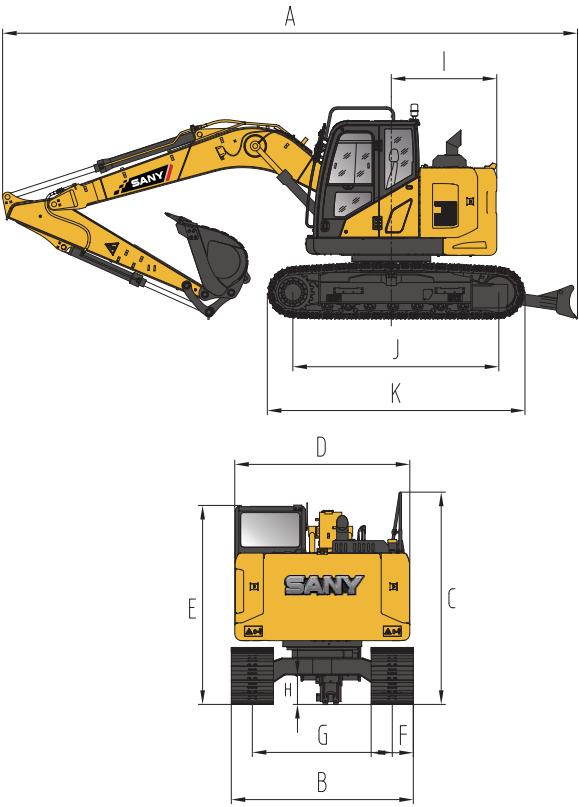
Machine dimensions

Overall dimension(mm)	SY155U
A.Overall length(transportation)	8015
B.Overall width	2590
C.Overall height (transportation)	3022
D.Upperstructure carriage	2490
E.Height over cabin/ROPS	2820
F.Standard track shoe width	600
G.Track gauge	1990
H.Min. ground clearance	425
I.Tail length	1500
J.Center distance of tumblers	2930
K.Track Length	3665
















arm: 3m

Operation range (mm)	SY155U
E. Max. digging reach	8780
C. Max. digging depth	6020
A. Max. digging height	9760
B. Max. dumping height	7200
D. Max. vertical digging depth	3796
G. Overall height over arm by min. swing radius	6749
F. Min. swing radius	2555
H. Max. clearance when blade up	504
I. Max. depth of blade down	350

arm: 3m



Lifting capacity table

SY155U Lifting Capacities															
Load point			Blade Above Ground										Unit: kg		
height m			Load radius m												
 A/B	2.0		3.0		4.0		5.0		6.0		7.0		At max. reach		
															meter
7.0					*3330	*3330							*2513	*2513	4.312
6.0					*4028	3614	*3286	2662					*2192	*2192	5.395
5.0			*4707	*4707	*4161	3574	3574	2659	*2566	2031			*2048	1964	6.122
4.0			6102	4577	*4596	3463	3515	2600	2779	2017			*1991	1732	6.324
3.0			5719	4194	4438	3295	3421	2506	2731	1968	2193	1540	*1993	1592	6.925
2.0			5452	3928	4246	3103	3312	2397	2668	1906	2163	1510	*2047	1514	7.077
1.0			5340	3815	4081	2938	3210	2296	2607	1845			2131	1486	7.083
0			5311	3787	3974	2831	3135	2220	2559	1797			2163	1504	6.942
-1.0	*4662	*4662	5329	3805	3924	2780	3092	2177	2579	1816			2266	1577	6.644
-2.0	*7188	5941	5388	3864	3918	2775	3084	2169	2539	1777			2470	1728	6.167
-3.0	*7376	6037	*3802	*3802	3956	2812	3120	2205					2853	2016	5.461

Capacities marked with an asterisk (*) are limited by hydraulic capacities. See Note 1.
















Do not attempt to lift or hold any load that is greater than these rated values at their specified lift-point radius and height.

The mass of slings and any auxiliary lifting devices shall be deducted from the rated load to determine the net load that may be lifted.

Lift capacities are based on the machine standing on a firm, uniform supporting surface. The user shall make allowances for job conditionssuch as soft or uneven ground.

The operator should be fully acquainted with the operator's manual and the operating safety manual furnished by the manufacturer beforeoperating the machine.

Lifting capacity table

SY155U Lifting Capacities															
Load point			Blade Above Ground										Unit: kg		
height m			Load radius m												
 A/B	2.0		3.0		4.0		5.0		6.0		7.0		At max. reach		
															meter
7.0					*3330	*3330							*2513	*2513	4.312
6.0					*4028	3614	*3286	2662					*2192	*2192	5.395
5.0			*4707	*4707	*4161	3574	*3898	2659	*2566	2031			*2048	1964	6.122
4.0			6796	4577	*4596	3463	*4098	2600	*3773	2017			*1991	1732	6.324
3.0			*8992	4194	*5258	3295	*4431	2506	*3916	1968	*2523	1540	*1993	1592	6.925
2.0			*6630	3928	*5968	3103	*4798	2397	*4091	1906	*2721	1510	*2047	1514	7.077
1.0			*6791	3815	*6477	2938	*5083	2296	*4222	1845			2131	1486	7.083
0			*8395	3787	*6630	2831	*5190	2220	*4236	1797			2163	1504	6.942
-1.0	*4662	*4662	*7424	3805	*6410	2780	*5051	2177	*4106	1816			2266	1577	6.644
-2.0	*7188	5941	*5988	3864	*5820	2775	*4596	2169	*3504	1777			2470	1728	6.167
-3.0	*7376	6037	*3802	*3802	*4774	2812	*3638	2205					2853	2016	5.461

NOTE 1 Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.

NOTE 2 The least stable position is over the side.

NOTE 3 Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.

NOTE 4 The total mass of the machine is 16170 kg. Included in this mass are 700 mm triple grouser shoes,4.6 m boom, 3 m arm,3800 kg counterweight,all operating fluids and a 75 kg operator.

NOTE 5 Lift capacities are in compliance with ISO 10567:2007.

