



SY35U

Engine power
18.2kW/2200rpm

Bucket capacity
* 0.12 m³

Operating weight
3790(3580)kg



High reliability



Comfortable and convenient



Excellent performance



Safe & environmental-friendly



* Bucket is optional



SANY HEAVY MACHINERY LTD

<http://www.sanyglobal.com>

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The power to get the job done right

The SY35U is equipped with a Yanmar 3TNV88F 1.642 liter Tier 4F engine delivering 24.4 hp @ 2200 RPM. Matching engine output to the highest quality hydraulic components allows the independent systems to act as one and maximize fuel efficiency and machine performance.



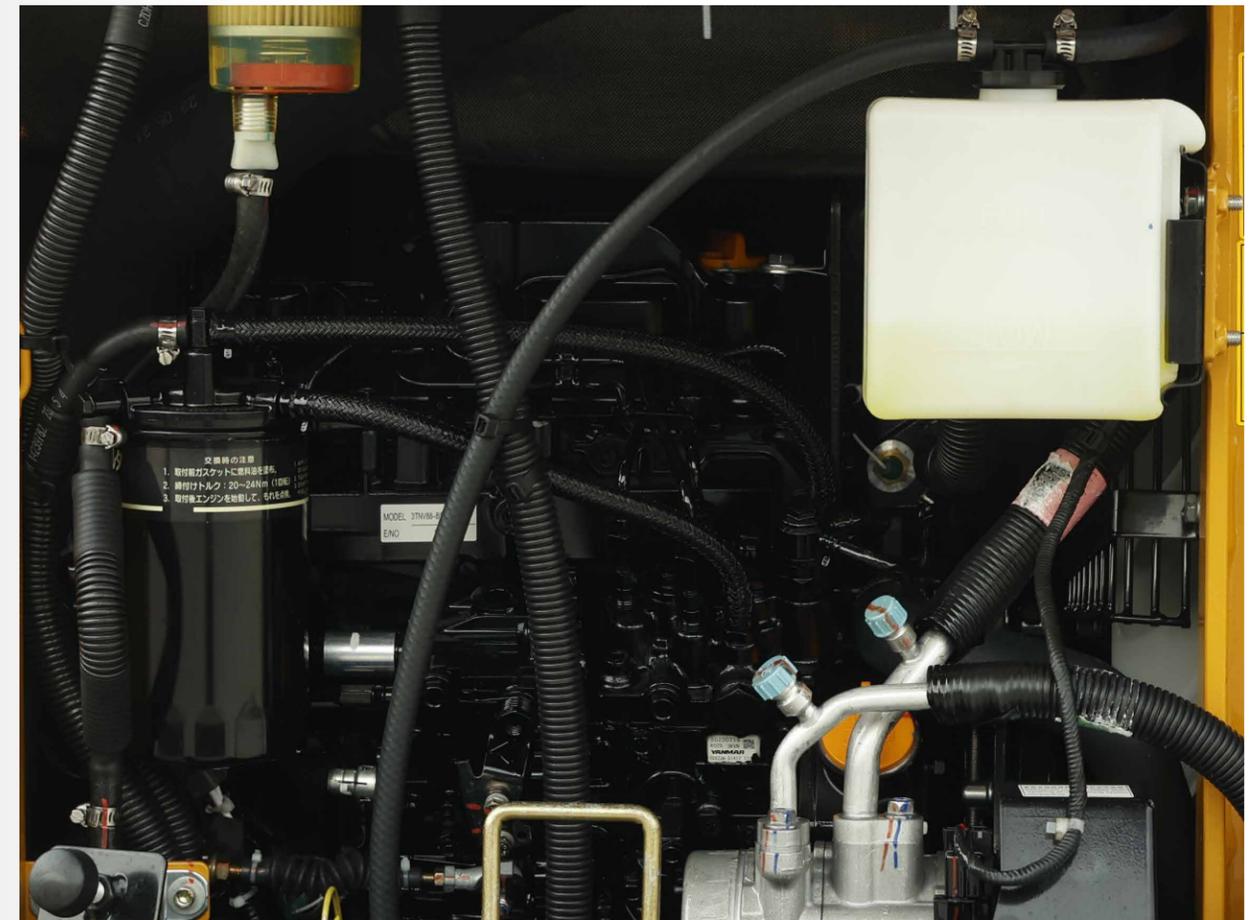
Utilizing high-quality engines and hydraulic components, the SY35U performs at the peak of efficiency. The machine has a highly engineered hydraulic system that reduces fuel consumption and provides an efficient balance of the main pump and engine power.

The cooling system is sized to match the cooling requirements to the power needs of the most demanding operating conditions. It offers an optimized fan drive coupled with a side-by-side cooler to provide the necessary cooling for the engine and hydraulics.

The auto-idle system is conveniently turned on or off.

While it is operating, it allows the engine to drop to low idle, minimizing fuel consumption when the machine doesn't require power. When the operator is ready to resume operation, the system quickly reacts and resumes engine operation where it left off.

Fuel water separator, oil filter and air pre-cleaner are standard and easily serviceable.





Operator comfort to maximize your productivity

Any person in any job performs better when provided with suitable working conditions. The SY35U cab provides just such an environment for operators. Our design, which places operator comfort center stage, ensures that the focus remains on the job during the workday.

Comfort and control come standard

SANY's optimized operator cab provides all-around visibility and is designed to support the operator's natural range of motion. Spacious foot room and an adjustable seat provide an excellent working environment for increased productivity.

Spacious, ergonomically designed workstation with every operator need in mind.

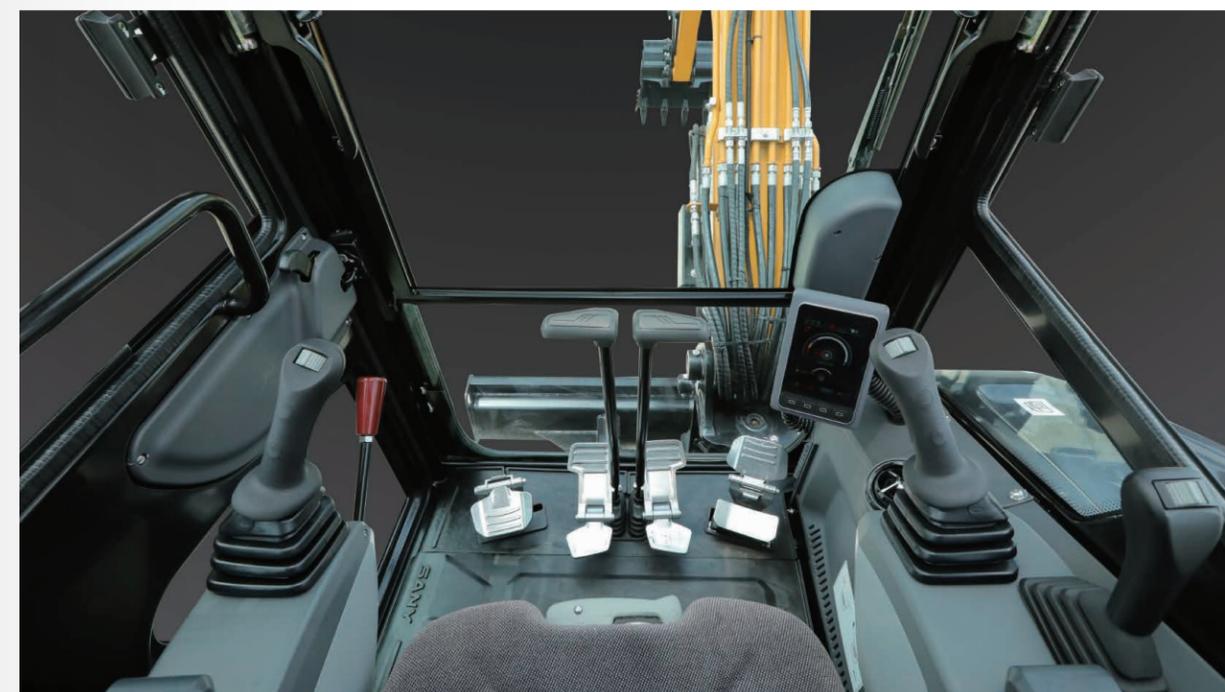
Quiet operation.

Exceptional operator visibility.

Comfortable operator's seat.

The hydraulic pilot system provides a smooth feel and precise control.

Low-effort control levers.



Hydraulic excavator SY35U hydraulics

With a finely tuned hydraulic system, the SY35U provides a real-time match of flow to the demand and engine power available. You can be certain that the machine will operate at the peak of efficiency.

Hydraulic features

Excellent feathering-touch with work tools and fine grading through a load-sensitive hydraulic system. Precise control in lifting applications. Smooth use of power during digging. High gyration torque reduction provides high gyration speed and precise movements of the upper structure.



The high output variable displacement axial piston pump delivers a flow rate of 70L/min to provide the hydraulic horsepower necessary to get the work done.



Additional hydraulic function is the new standard

Responsive two-way auxiliary hydraulics are standard, providing full power for high productivity and precise control. Pre-plumbed with hard lines to the end of the bucket rod for ready-to-go, work tool connection.



Designed to maximize your protection

SANY excavators are designed around safe operation and maintenance of the machine. The design of the cab entrance allows for easy entry into and exit from the machine, with strategically placed railings for convenient access to the cab. The comfortable operator compartment allows the operator to be positioned so that he can control the machine effectively and safely. The display system alerts the operator to items requiring attention, such as fluid temperatures, enabling immediate on-the-spot resolution of any issues.



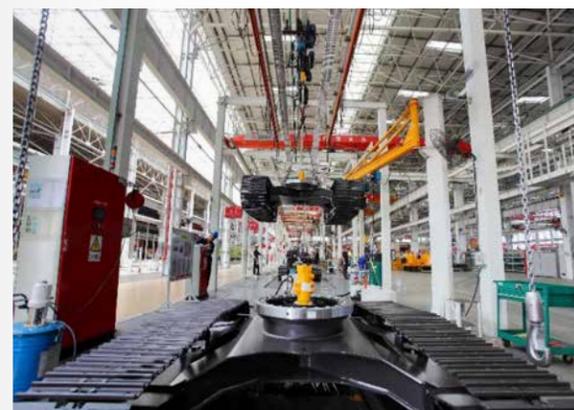
Quiet operation is key to long hours of work. The SY35U is equipped with a quiet cab environment to ensure that operators can work all day in the machine. The machines are equipped with standard emergency stop switches as well as other features to aid operators in safe and efficient operation of the machine. The responsive low-effort hydraulic controls ensure the machine responds to the operator's demands in the most smooth and consistent way.

A battery disconnect allows you to disconnect the machine from the main battery power supply when maintaining or storing the machine. The SY35U is designed to aid in smooth and safe operation and maintenance.



Quality is not a goal, it's our commitment.

The structural components and work equipment of the SY35U are robustly built with SANY's strong design, meaning that the fabrications are designed taking into account the most difficult and demanding operator needs and jobsite requirements.



Extensive testing and analysis ensure the structures will have the durability expected and that we deliver a machine that is ready for work in even the most demanding of environments. With the emphasis on reducing stress points, both the boom and arm go through rigorous fatigue and field testing.

Because SANY is one of the world's largest manufacturers of hydraulic excavators, you can be sure that our machines have been exposed to a variety of applications. At SANY, our excavators have encountered various challenges, and have had advancements made to be prepared for any job required.



Our reliability stacks up against any competition. Productivity allows more work to get done with less operating cost.

The highest quality suppliers and components are designed to function together as one unit. Integrating these quality components together results in reduced machine downtime, adding significant value to your bottom line.



Performance to fit any application

The SANY SY35U excavator is designed to help you work efficiently while maximizing your jobsite productivity. It has many features to help operators achieve the balance of power, smoothness, fuel efficiency and speed.

You can depend on the SY35U to get the job done right and on time.

In-Cab Color Monitor

Intuitive, quick communication of key operating parameters. Ability to easily see information about machine set-up and performance.

Multiple Working Modes

Enable quick and convenient configuration of the machine for the specific job and application requirements.

Reliable First-Class Components

Guarantee the easiest and most versatile operation in every working environment.

Undercarriage Components

High quality and durable undercarriage for long life and resistance to wear.



Optimized Cab

For excellent visibility and maximum operator comfort and control.

Work harder, more efficiently, and longer

Equipped with a powerful and efficient Yanmar 3TNV88F engine with a highly engineered hydraulic system to match engine response.

Simplified Service

A key tool for more uptime and reduced cost. Ground level service items aid in quick and easy maintenance.

Outstanding Durability

X-beam design uses a high strength box-section structure for maximum durability and excellent torsion resistant performance.

Swing boom

Allows the operator to move the boom 55 deg to the left and 66 deg to the right for operation in tight conditions and minimize ground disturbance on the jobsite.

Shovel bucket

Equipped as a standard feature, so that backfilling and finishing operations can be performed easily and efficiently.

Angle shovel function

Angle shovel is an optional function of SY35U. By operating the sliding button on the bulldozer handle, the bulldozer blade can be deflected 25 ° to the left and right. It can complete trench backfilling and other operations without frequently adjusting the excavator posture, which can greatly improve the operation efficiency.

Floating function

Floating function is a standard function on SY35U. When performing site leveling and trench backfilling operations, there is no need to frequently adjust the height of the bulldozer, which can greatly reduce the operator's workload.

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	
Operating weight	3790(3580) kg	Traveling speed (high/low)	4.2/2.4 (km/h)
Bucket capacity	0.12 m ³	Gyration speed	10 rpm
Engine	In-line, water-cooled, four-stroke, mechanical pump, and naturally aspirated	Grade ability	58%
Model	Yanmar 3TNV88F(EPA Tier4 F & EC Stage V)	Ground pressure	34(32) kPa
Engine power	18.2 kW/2200 rpm	Digging force of bucket	30.4 kN
Maximum torque	91.4 Nm/1320 rpm	Digging force of arm	18.2 kN
Displacement	1.642 L		

Capacity of oil and coolant		Traveling part	
Fuel tank	50 L	Chain-supporting plate	1
Hydraulic oil tank	40 L	Track rollers on each side	4
Engine oil	6.7 L	Track width	300 mm
Radiator	3.8 L		
Final drive	2×0.6 L		

Lifting capacity table

Boom: 2.54m, Arm: 1.4m

1.72m chassis _ Shovel bucket lifted

Lifting capacity parameter of excavator (length unit: mm; weight unit: kg)

A/B	2.0m		3.0m		4.0m		Maximum		
							Max		
4.0 m kg							3378	710	656
3.0 m kg					541	455	4220	491	455
2.0 m kg			828	762	528	384	4630	415	384
1.0 m kg			765	701	504	361	4748	390	361
0.0 m kg			727	667	487	372	4601	402	372
-1.0 m kg	1402	1248	727	664	487	429	4155	465	429
-2.0 m kg	1448	1292	755	691			3244	679	623

Boom: 2.54m, Arm: 1.4m

1.72m chassis _ Shovel bucket support ground

Lifting capacity parameter of excavator (length unit: mm; weight unit: kg)

A/B	2.0m		3.0m		4.0m		Maximum		
							Max		
4.0 m kg							3378	*719	656
3.0 m kg					*671	502	4220	*635	455
2.0 m kg			*870	762	*727	489	4630	*612	384
1.0 m kg			*1205	701	*844	466	4748	*640	361
0.0 m kg			*1382	667	*923	449	4601	*726	372
-1.0 m kg	*2311	1248	*1332	664	*865	449	4155	*795	429
-2.0 m kg	*1621	1292	*945	691			3244	*791	623

Boom: 2.54m, Arm: 1.65m

1.72m chassis _ Shovel bucket lifted

Lifting capacity parameter of excavator (length unit: mm; weight unit: kg)

A/B	1.0m		2.0m		3.0m		4.0m		Maximum		
									Max		
4.0 m kg									3736	*599	557
3.0 m kg							543	503	4496	439	407
2.0 m kg					766	702	526	487	4877	376	348
1.0 m kg					721	658	502	461	4988	355	328
0.0 m kg			*1136	*1136	711	648	478	440	4850	364	336
-1.0 m kg	*1373	*1373	1371	1219	729	666	472	434	4435	413	381
-2.0 m kg			1411	1256					3620	563	518

Boom: 2.54m, Arm: 1.65m

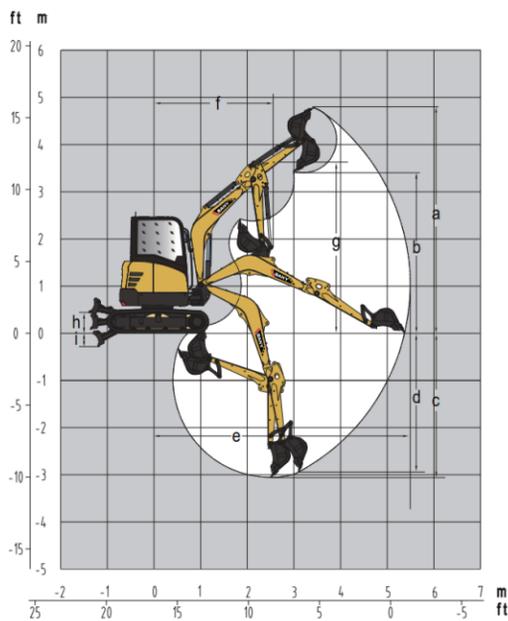
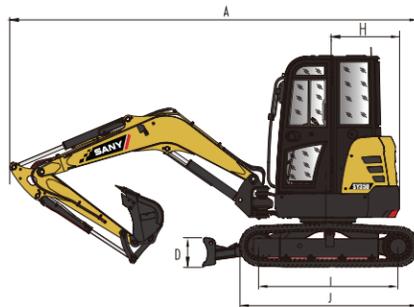
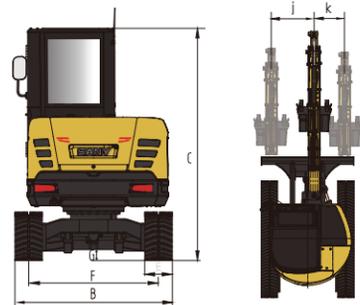
1.72m chassis _ Shovel bucket support ground

Lifting capacity parameter of excavator (length unit: mm; weight unit: kg)

A/B	1.0m		2.0m		3.0m		4.0m		Maximum		
									Max		
4.0 m kg									3736	*599	557
3.0 m kg							*588	503	4496	*518	407
2.0 m kg							*659	487	4877	*501	348
1.0 m kg					*1109	702	*791	461	4988	*521	328
0.0 m kg			*1136	*1136	*1136	658	*892	440	4850	*584	336
-1.0 m kg	*1373	*1373	*2071	1219	*1345	648	*888	434	4435	*731	381
-2.0 m kg			*1844	1256	*1083	666			3620	*751	518

1. The lifting capacity is calculated in accordance with ISO10560 and SAEJ1097, where limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;
2. The item with the mark * is limited by hydraulic pressure and the item without the mark "*" 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 a bucket.

Machine dimensions



Overall dimensions (mm)	SY35U
A. Overall length (during transportation)	4905(4870)
B. Overall width (during transportation/operation)	1720
C. Overall height (during transportation)	2555
D. Height of shovel bucket	350
E. Width of standard track shoe	300
F. Track gauge (during transportation/operation)	1420
G. Minimum ground clearance	295
H. Gyration radius of tail	860
I. Grounding length of track	1670
J. Track length	2155

* () is 1.65m bucket rod

Operating range(mm)	SY35U
a. Maximum digging height	4865(5020)
b. Maximum unloading height	3445(3600)
c. Maximum digging depth	3115(3365)
d. Maximum digging depth with vertical boom	2640(2860)
e. Maximum digging distance	5480(5720)
f. Minimum gyration radius	2465(2500)
g. Max. height at min. gyration radius	3695
h. Maximum ground clearance with shovel bucket lifted up	375
i. Maximum cutting depth of shovel bucket	370
j. Left deflection distance of boom	765
k. Right deflection distance of boom	605

* () is 1.65m bucket rod

Standard configuration

Engine	Cab	Traveling body of undercarriage
3TNV88	• Sound-proof steel-structure cab	• Traveling parking brake
EPA Tier4 F & EC Stage V	• Reinforced light-color glass window	• Traveling motor guard plate
12V/1.7KW start motor	• 4 silicone oil shock pads	• Track guiding & tensing mechanism
12V-55A alternator	• Openable front window	• Driving wheel
Dry type dual-element air filter	• Wiper with washer	• Double support sprocket
Cylinder-type engine oil filter	• Seat with adjustable armrest	• 300mm wide rubber track
Cylinder-type fuel oil filter	• Foot rest and floor mat	• Bottom cover plate of underframe
Automatic idling system	• Loudspeaker and rearview mirror	• High-strength slewing bearing
Engine preheating	• Seat belt, fire extinguisher, safety hammer	
Engine oil cooler	• Cup holder and compartment lamp	
Radiator with protective screen	• Ash tray, storage box	
Fan deflector	• Pilot controlled cut-off lever	
Separately mounted engine	• Dual-purpose air conditioner	
50L plastic fuel tank	• Hat & coat hook	

• stands for standard configurations ○ stands for optional configurations

Standard configuration

Hydraulic system	Front-end working device	Electrical control system
Accumulator	• Welded connecting rod	• Engine start protection function
One-way auxiliary oil circuit	• 2540mm all-welded box-type boom	• Integrated display controller
Cooling by hydraulic oil	• 1400mm welded-box-type patented arm	• Fuel, water and oil temperature and pressure monitoring system
Automatic gyration stop	• Standard bucket capacity: 0.12m ³	• Failure self-diagnosis function
Boom cylinder protection	• Welded-type patented deflection joint	• Engine speed control system
Continuous flow	•	• Failure warning light
40L hydraulic oil tank	•	• High-power special radio for excavator
		• Large-capacity battery
		• Emergency stop control for engine

Others			
Lockable engine hood	•	Quick change line	○
12V Socket	•	Explosion-proof valve	○
Floating dozer	•	Driving hood	○
Floating angle shovel	○	Canopy	○
1650mm welded-box-type patented arm	○	300mm wide rubber track	•
Two sets of auxiliary pipes	○	300mm wide steel track	○

• stands for standard configurations ○ stands for optional configurations

Technical specifications

Operating Weight		3790(3580)kg
Engine		3TNV88F,EPA Tier4 F & EC Stage V
Displacement		1.642 L
Hydraulics		Load Sensing with Pilot Control
Main Hydraulic Pump		Axial Piston – Variable Displacement
Operating Flow	(maximum)	88.0 L/min
Operating Pressure	(maximum)	24.5 MPa
Auxiliary Flow	(maximum)	70 L/min
Auxiliary 1 Pressure		17.5 MPa
Auxiliary 2 Pressure		21.5 MPa
Travel Motor		Axial Piston with Park Brake
Travel Pressure	(maximum)	24.5 MPa
Travel Effort	(maximum)	36.8 kN
Grade Ability	(maximum)	30°
Gyration Motor		Axial Piston with Gyration Brake
Gyration Pressure	(maximum)	20.6 MPa
Gyration Speed	(maximum)	10 RPM
Undercarriage	(standard)	Belted Rubber Track