

MAXIMUM POWER FLEXIBILITY

SANY SY35U Zero-Tail Swing Mini Excavator

- ▶ Superb Performance
- ▶ Std. & Opt. Equipment
- ▶ Specification



Superb Performance

High Performance & Reliability



Yanmar Customized Engine: Strong power ensures reliability in tough working conditions.

Stepless Accelerator Speed Regulation System: The engine adopts stepless accelerator speed regulation system, to make the machine work under any desired RPM, realizing a perfect match between different operation preference and maximum working efficiency.

Load Sensitive Flow Distribution System: Senses micro changes of the load and adjusts flow and pressure in real time; optimized main valve core for perfect synergism between actuators and precise control.



Reinforced Structure:

1. The boom adopts larger section, improving the rigidity and deformation resistance.
2. The patented and topology-optimized arms with deflectable design ensure strength and reduce weight, largely increasing the fuel efficiency.
3. X-frame undercarriage and box-section structure feature high strength, stiffness and enhanced resistance to bending and torsion, meeting demands of various working conditions.

Strict Field Test: More than 2,000-hour excavation field experiment, over 800,000 times fatigue test on key components, proving its superior performance.

Compact Design for Tight Zone Operations

Zero tail swing design: 1720mm long undercarriage, 860mm swing radius, and the tail moving within the tracks range during swing of the upper structure, suitable for tight working spaces.

Deflectable boom: SY35U boom swing left 800mm, right 550mm, able to reach outer edge of the track, realizing the operation even in wall foot area.



Strong Adaptability to Various Situations

Changeable Steel Track/ Rubber Track: Steel Track for off-road working, and rubber track for on-road driving.



Cabin: Cabin or canopy for you to choose

Multifunctional: One/two-way switchable pipeline for standard equipment with the flow reaching 45L/min; available for various attachments including: jackhammer, hydraulic shear, grapple etc; hydraulic pilot control for high precision and efficiency.

Safe & Environmentally Friendly



The TOPS/FOPS certified SY35U cab ensures the safety for operators.

Complete safety facilities: Hydraulic pilot lock prevents accidents from happening caused by misoperation; large windshield enables all-round visibility. The machine is also equipped with fire extinguisher, emergency exit hammer; handrail walkway, large rearview mirror, adjustable seat belt, various safety signs and fan shroud.

Tier 4 Final Engine: The equipped engine meets the Tier 4Final emission standard.

Comfortable Operating Experience

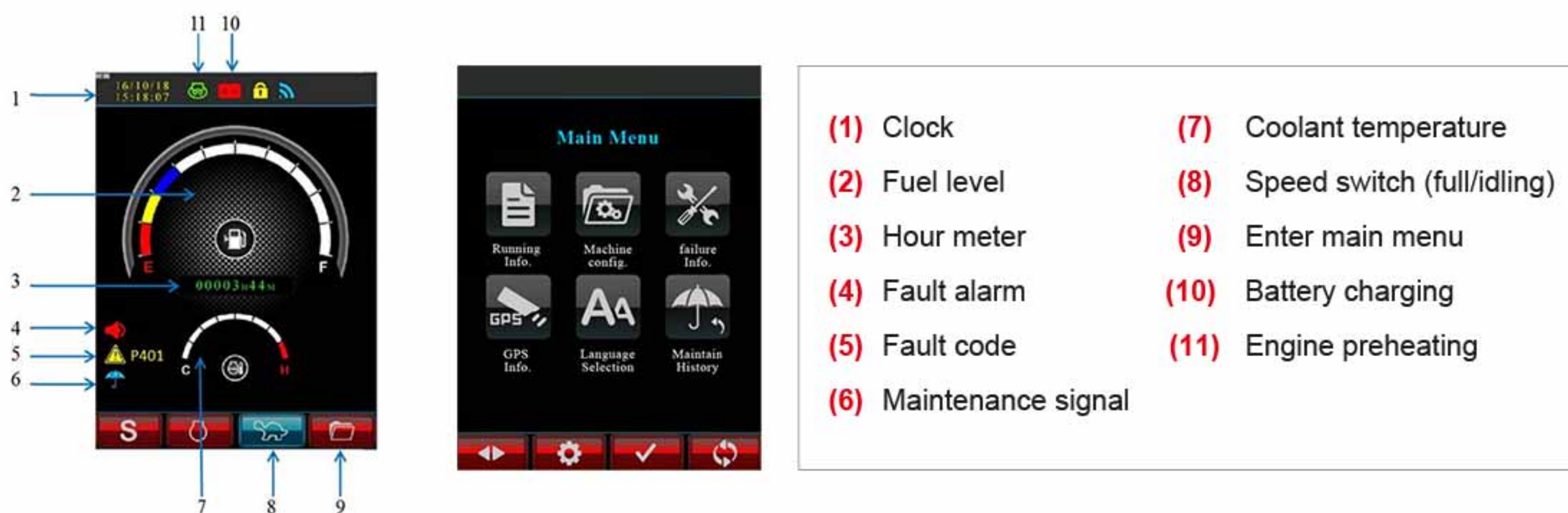


SY35U cabin adopts the latest noise reduction technology that meets the highest European standards, creating a more comfortable operating environment.

Air conditioner & heater with 3D airflow is installed for maximum comfort.

Well-equipped cabin with radio, cigarette lighter, ashtray, cup holder, file pocket, cab light, garment hook, etc.

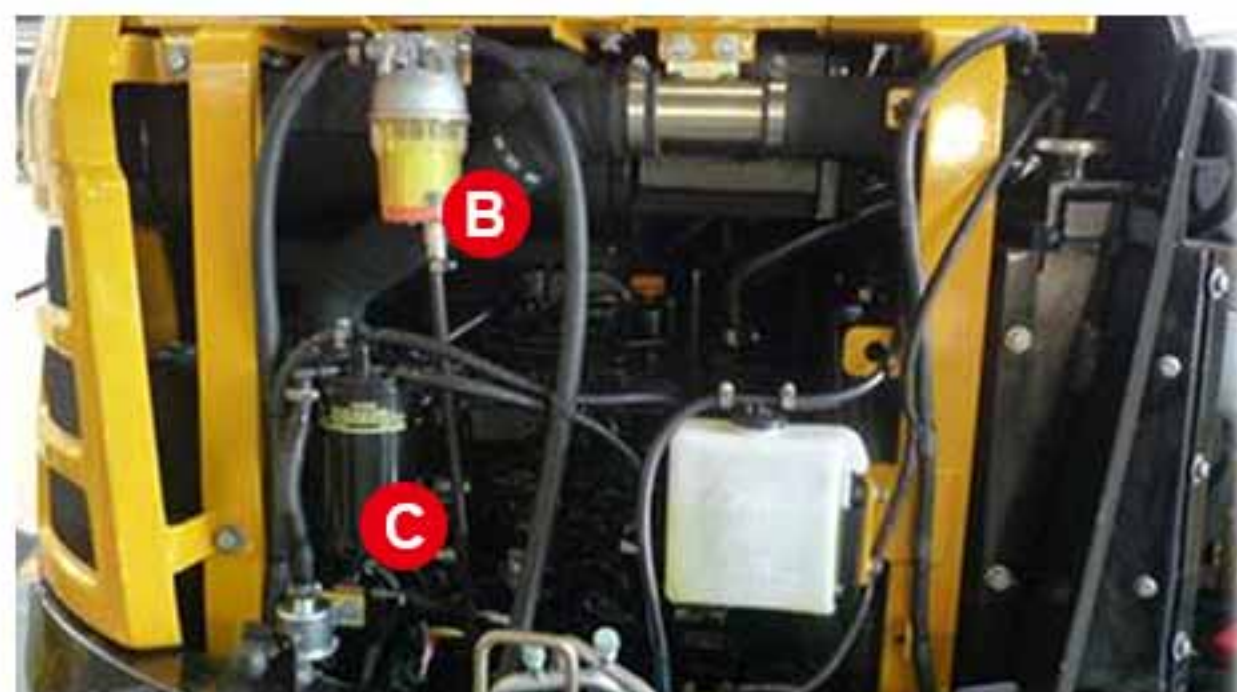




Digital Panel

The digital panel is used to display information and change system parameters. It consists of two main pages: default page and main menu. On the default page, key information, such as operating hours, coolant temperature, fuel level and warnings are clearly demonstrated. And the main menu displays the main signals to/from the controller, such as running information in real time, machine configuration, malfunction and GPS information, maintenance record and language selection.

Comfortable Operating Experience



One-Cover Maintenance: Open one cover and reach to all parts, enabling the operator to complete daily maintenance on the ground. All key components gathered in the back of the excavator, including air filter, oil filter, water separator, oil dipstick, expansion tank, oil filling mouth etc. reducing maintenance difficulty.



Centralized Inner Structure: Detachable air filter for radiator, easy to wash.

- A. Air Cleaner
- B. Water Separator
- C. Fuel Filter
- D. Battery Main Switch

Standard Equipment

Power System

- Yanmar 3TNV88F Tier 4F
- Double-layer Air Filter
- External Air Filter Alarm
- Parallel Radiator
- Engine Preheating
- Stepless Accelerator Speed Regulation System
- Accelerator Motor KP56RM2G-020

Working Device

- Deflectable Working Device
- 1400mm Standard Stick
- Boom Oil Cylinder Plate
- Reserved Hammer Pipe Lines

Undercarriage

- Double Support Carrier Rollers
- Sloping Track Frame
- High/Low Two Speed Travel
- Extra-large Slewing Bearing
- 300mm Rubber Track of High Wear-resistance

Optional Equipment

- Canopy
- 300mm Steel Track
- 1650mm Extra-long Arm
- Multi-functional Handle
- Electrical Interface

Hydraulic System

- Main Pump CASAPPA MVP 48
- Main Valve Walvoil DPX050-9
- Traveling Motor NACHI PHV-390-53B-1-9359Z2
- Swing Motor NACHI PCR-3B-9230Z3
- Hydraulic Sensitive System
- Automatic Slewing Braking
- Accumulator
- One/two-way Switch Valve
- SAE/BHL Pattern Switch

Upperstructure

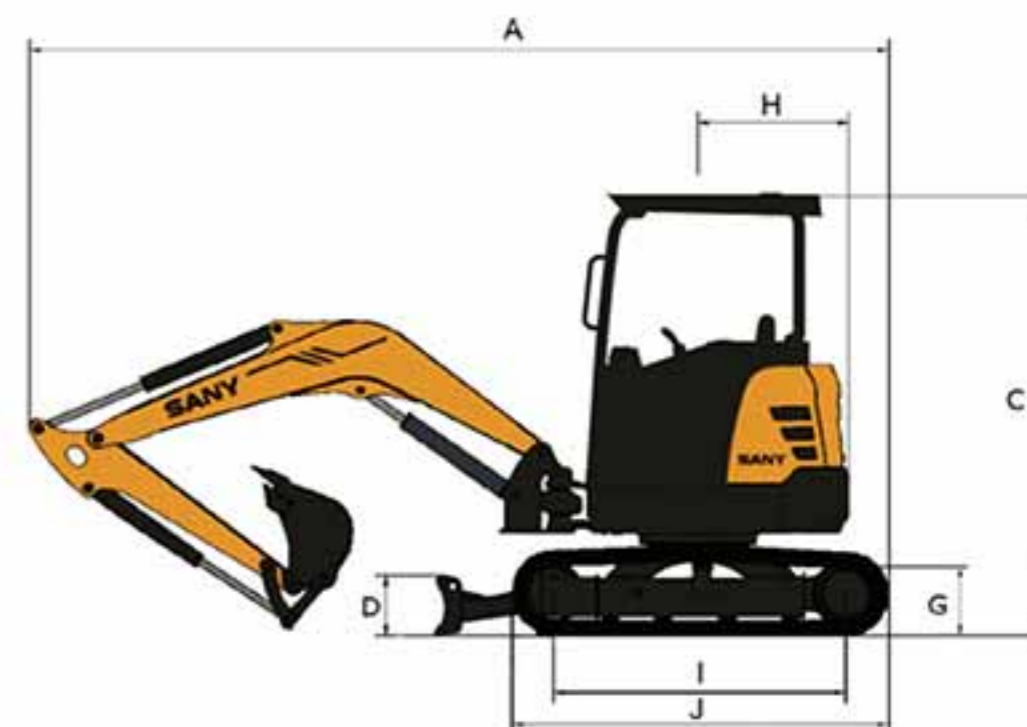
- Zero Tail Swing
- FOPS/TOPS Cabin
- Adjustable Seat
- Grease Gun Holder
- Air Conditioner & Heater
- Large Windshield
- Hydraulic pilot lock

Electrical System

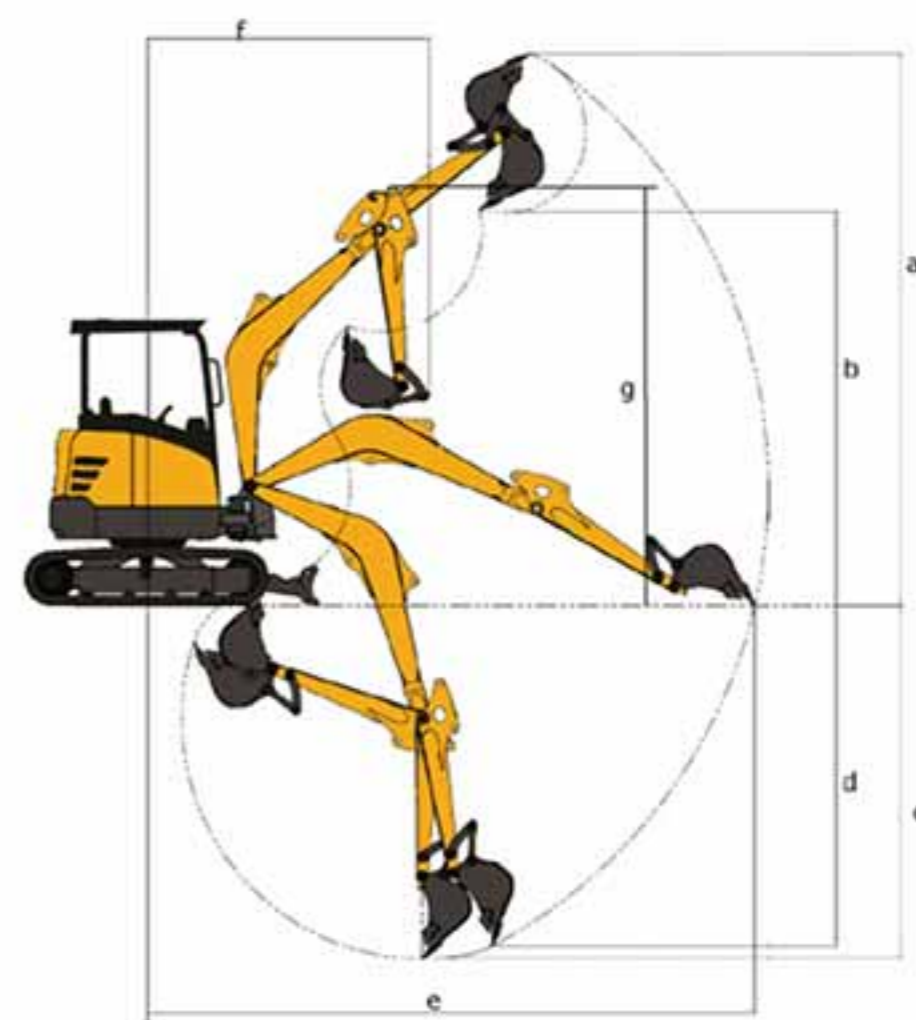
- Maintenance-free Accumulator
- Power Main Switch
- 12V Outlet
- Color Integrated Display Console
- Boom Light
- Cabin Roof Light
- Travel Alarm

Specification

Basic	Operating Weight	kg	3780	
	Bucket Capacity (Std.)	m ³	0.12	
	Max.Torque	N·m/rpm	94.5/1200	
Engine	Model	\	Yanmar 3TNV88F	
	Rated Power	kW/rpm	18.2/2200	
	Emission Standard	\	Tier 4Final	
	Displacement	L	1.642	
Dimensions	A Transport Length	mm	4915	
	B Transport Width	mm	1720	
	C Transport Height	mm	2515	
	D Blade Height	mm	350	
	E Track Shoe Width (Std.)	mm	300	
	F Track Gauge	mm	1420	
	G Minimum Ground Clearance	mm	295	
	H Tail Swing Radius	mm	860	
	i Track Ground Length	mm	1670	
	J Track Length	mm	2155	
	Track Height	mm	520	
	Upperstructure Width	mm	1550	
	Sight Line Height	mm	2185	
	Cabin Top Length	mm	1250	
	Tail Length	mm	230	
	Counterweight Clearance	mm	590	
	Overall Length (excl.working device)	mm	2595	
	Length on the Ground	mm	3450	
	Overall Height of Engine Hood	mm	1550	
	Overall Height of Counterweight	mm	365	
Working Range	a Max. Digging Height	mm	4855	
	b Max. Dumping Height	mm	3460	
	c Max. Digging Depth	mm	3105	
	d Max. Vertical Digging Depth	mm	2700	
	e Max. Digging Reach	mm	5465	
	f Min. Swing Radius	mm	2475	
	g Height at Min. Swing Radius	mm	3685	
	h Max. Clearance when Blade up	mm	375	
	i Max. Depth of Blade down	mm	370	
	Performance	Travel Speed	km/h	4.4/2.4
Swing Speed		rpm	9	
Gradeability		%	58	
Ground Pressure		kPa	32	
Motor		V/kw	12-1.7	
Generator		A	12V-40A	
Tractive Force		kN	36.8	
Max.Digging Force		Bucket	kN	30.4
		Arm	kN	18.2
Bore x Stroke		Boom Cylinder	mm	85×500
	Arm Cylinder	mm	75×588	
	Bucket Cylinder	mm	63×538	
	Blade Cylinder	mm	85×160	



Dimensions



Working Range

Service Refill Capacities	Fuel Tank	L	40
	Hyd Tank	L	40
	Engine Oil	L	6.7/2.8
	Engine Coolant	L	6.5
	Final Transmission	L	2×0.7
	Swing Drive	L	\
Structural Components	Number of Track Shoes	\	Std.Rubber Track
	Carrier Roller	\	1
	Track Roller	\	4
	Boom	m	2.54
	Arm	m	1.4

Lifting capacities

Lifting Point Height(m)		Lifting Point Radius						Lifting Point Radius (Max)		
		2.0m		3.0m		4.0m		Lifting Capacity		Reach
		Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	Over-front	Over-side	(m)
4m	kg							*803	660	3.365
3m	kg					*818	503	*688	458	4.214
2m	kg			*1000	762	*885	491	*667	386	4.627
1m	kg			*1447	703	*1036	468	*695	364	4.748
0m	kg			*1650	669	*1137	452	*787	371	4.604
-1	kg	*2372	1245	*1631	665	*1082	451	*999	431	4.162
-2	kg	*2057	1287	*1217	691			*1023	620	3.258

1, The lifting capacities are based on ISO 10560 and SAEJ1097 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacities of the machine.

2, The data with * are hydraulic lifting capacities of the machine.

3, The excavator bucket weight is not included on this chart.