

SY16C | SY18C | SY18U

**SANY**

Quality Changes the World



# NOWHERE IS OUT OF REACH

SO SMALL. SO MANOEUVRABLE. SO VERSATILE.

CONSTRUCTION MACHINES



**MINI EXCAVATOR**  
**SY16C | SY18C | SY18U**

Engine  
Yanmar 3TNV80F  
Rated power  
14.6 kW / 2400 rpm  
Bucket capacity  
0.04 m<sup>3</sup>  
Operating mass  
1 865 / 1 925 kg

# SANY

## You need an outstanding partner for demanding tasks

Quality comes from experience. And from new ideas. That is why we combine these two vital factors at SANY. Because we are one of the leading manufacturers, having produced well over **500 000** excavators **worldwide**. This means you can always rely on sophisticated products that have been tried and tested in practice. By way of example, **5 to 7%** of our annual revenue is invested in research and development. Our products are so powerful and robust that we give you our exceptional **5-year warranty** on them.

**> 500,000**  
EXCAVATORS PRODUCED  
**WORLDWIDE**

**5-7%**  
OF REVENUE FOR RESEARCH  
AND DEVELOPMENT

**5-YEAR**  
WARRANTY\*

Quality Changes the World

\* Available on selected SANY products only



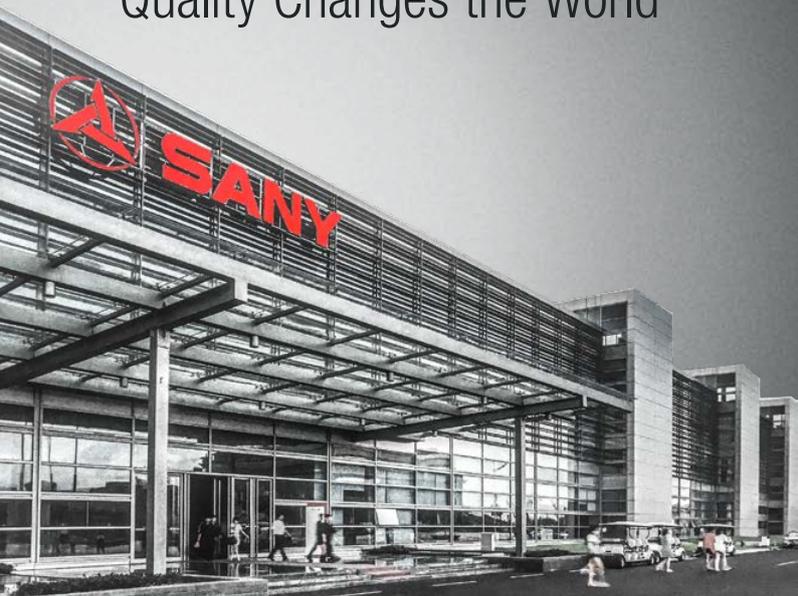
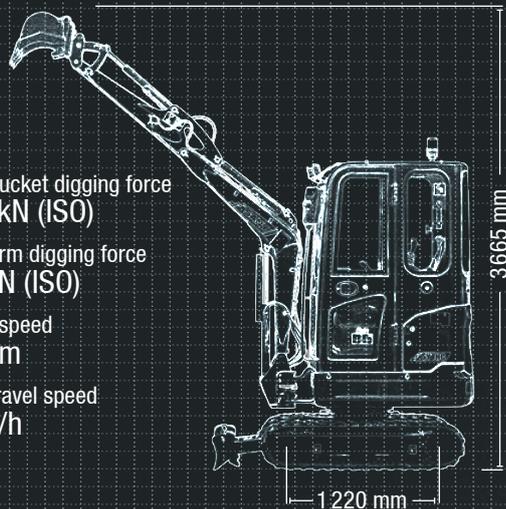
### SY18C SPECIFICATIONS

Max. bucket digging force  
15.2 kN (ISO)

Max. arm digging force  
9.2 kN (ISO)

Swing speed  
10 rpm

Max. travel speed  
4 km/h





# IT WORKS WELL IN THE SMALLEST OF PLACES

Whenever space is limited, the SANY SY16/18 mini excavators are the perfect machine. With a width of just 980 mm, they can travel through narrow passages with ease, making them the ideal solution for construction, landscaping, indoor job sites or narrow urban locations. The SY18U model, as a zero tail machine, offers even more flexibility. Key features include the width-adjustable undercarriage, the versatile proportional hydraulics of the auxiliary control circuit and powerful LED work lights.

With a working weight of just 1865 kg (SY16C) - 1925 kg (SY18U) and a transport height of just 2390 mm, SY16/18 excavators are also very easy to transport, and can be quickly loaded and unloaded on site. At the same time, they do not compromise on efficiency thanks to a maximum digging reach of up to 4 135 mm. **The SY18C mini excavator is available with operators cab, whilst the SY16C and zero tail swing SY18U are both canopy machines.**

# TOP FEATURES

## QUALITY

**Robust and durable** – Our smallest excavators feature 100% steel bodywork to ensure maximum protection on site and reduced cost of ownership.

## DIMENSIONS

**Lightweight and compact** – The SY16/18 machines can easily be transported by truck or car trailer from one site to another, and their higher levels of manoeuvrability also make them the ideal solution for jobs in confined spaces.

## EASE OF USE

**Extremely comfortable** – From easy access to the operators seat and ergonomic controls, operators can look forward to maximum comfort and straightforward operation.



## SAFETY

**No compromise** – The SY16/18 machines are fully equipped for precise, safe working even when the operating space is tight. In addition to the rotating beacon, standard safety equipment also includes a battery isolating switch and emergency lowering system.

## COMPONENTS

**Quality as standard** – The SY16/18 mini excavators come with a comprehensive range of equipment as standard. Key components from renowned brand manufacturers, such as Yanmar, ensure high engine performance and with it the resulting high hydraulic power.

## ECONOMY

**Economically convincing** – Competitive purchase price, economic consumption in compliance with the Stage V emissions standard, and uncomplicated maintenance, an all-round attractive package. When it comes to costs, SANY mini excavators really are mini.

# THE PERFECT PRECISION TOOL

Mini-excavators in particular need to be operationally flexible. The SY16/18 machines with cab, canopy or zero tail options are simply unbeatable. They also have an efficient load-sensing hydraulic system that ensures they have the power they need, whether in construction, landscaping or indoor job sites.

## QUALITY

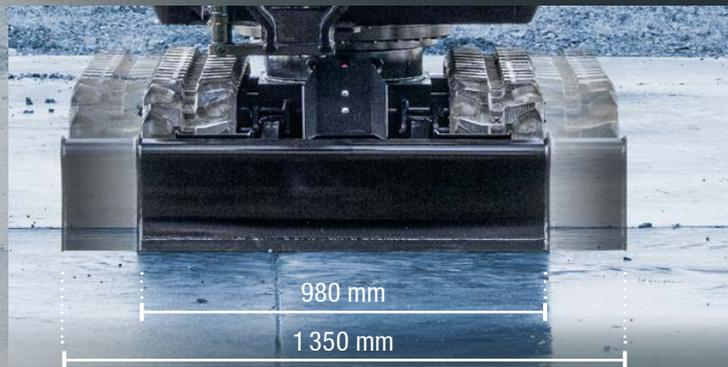
### Fully robust

Durability and reliability come as standard with all SANY mini excavators. All bodywork is 100% steel, which makes them particularly robust and offers maximum protection on site as well as reduced cost of ownership.

## DIMENSION

### Adjustable undercarriage to suit all your requirements and increase stability

For narrow spaces, the SY16/18 excavators can be adjusted to a width of just 980 mm, to allow them to fit through a garden gate, door recess, or be transported on a small trailer. If greater stability is required the undercarriage can be easily widened to 1350 mm. The blade can also be easily widened to the respective width. The SY18U zero tail version allows the upper frame to always stay within the undercarriage for maximum protection.



### Your SANY Plus benefits:

- + Expanding undercarriage (980 - 1350mm)
- + Auxiliary proportional control circuit with joystick operation as standard
- + LED work lighting
- + Cab, canopy and zero tail-swing options
- + Efficient, load sensing hydraulic system
- + Stage V emission standard



### Absolute reliability – for complete peace of mind.

SANY has earned a reputation worldwide for reliability, durability and performance but to provide peace of mind and to ensure maximum uptime all SANY excavators are backed by the SANY industry leading 5 year warranty\*

\* Terms and conditions apply. Check with your local dealer for more information.

EFFICIENCY, COST-EFFECTIVENESS & EASE OF USE

ECONOMY

# MAKE SHORT WORK OF CONFINED SPACES – SANY SY18U

With its compact dimensions and zero tail swing design, the SY18U facilitates work in tight spaces without any loss of digging power. Not only that, the hydraulic hoses are optimally protected against damage because they are integrated into the boom.



SAFETY

## Protection for people and machines

Thanks to the ROPS/FOPS/TOPS certified operator platform, SANY's smallest excavators also perform well in terms of safety. The machines have a safe, side-entry cab or canopy structure with superb visibility and to ensure that both the operator and bystanders on site are optimally protected, the standard equipment includes a battery disconnect switch and an emergency stop button. The rotating warning beacon and the travel alarm also helps to attract attention and improve on site safety.



EASE OF USE

## Maintenance done the easy way

All maintenance parts of the SY16 and SY18 mini excavators are easily accessible from ground level. This saves time and money during regular inspections and all maintenance work, therefore keeping any downtime to a minimum.

The fuel tank is also easily accessible, but thanks to a tank capacity of 20 litres (SY16/18C) and 21 litres (SY18U) and low fuel consumption, you won't need to refuel very often anyway.



COMPONENTS

**The machine that already has it all**

A lot of what is good about the SY16/18 machines comes as standard such as the LED work lights for optimum visibility in poor or low light working conditions. Or the smart hydraulic system with precise power adjustment to match the job requirements.

ECONOMY

**Your very own minor economic miracle**

For great performance in the smallest of spaces, you need a real powerhouse and the SY16/18 mini's deliver thanks to their compact dimensions, flexibility and powerful hydraulic systems that maximise on fuel economy and keep operating costs to a minimum.

EASE OF USE

**Everything under perfect control**

Precise handling, quick response and fatigue-free working, the controls of the SY16/18 are designed for ergonomic handling. Designed for everyday use, all switches are easy to reach and the digital, high resolution display is clear and straightforward for operators to use.



ECONOMY

**THE FINE DIFFERENCE:  
SANY SY16C**

Same technology, same performance – the SY16C differs from the cab-equipped SY18C only because of its canopy configuration. This also gives the SY16C a slightly lower weight of 1 865 kg. This canopy machine provides optimal visibility of the surrounding working area and also fulfils the current TOPS/FOPS specifications. The zero tail swing SY18U is also a canopy machine.



# TECHNICAL SPECIFICATIONS

ENGINE	SY16C/SY18C	SY18U
Model	Yanmar 3TNV80F	
Type	Water-cooled 4-stroke diesel engine with turbulence-chamber injection	
Emission standard	Stage V	
Rated power	14.6 kW / 2 400 rpm	
Max. torque	65.3 Nm / 1 800 rpm	
Displacement	1 267 cc	
Batteries	1 × 12 V / 60 Ah	

## HYDRAULIC SYSTEM

Main pump	Variable displacement axial piston pump
Max. oil flow	72 l/min
Traction drive	Variable displacement axial piston motor
Swing motor	Axial piston motor
Max. oil flow (AUX1)	40 l/min

## PRESSURE LIMITING VALVES

Boom circuit	245 bar
Swing circuit	162 bar
Driving circuit	245 bar
Pre-control circuit	35 bar

## FILLING QUANTITIES

Fuel tank	20 l	21 l
Engine coolant	5 l	3.8 l
Engine oil	3.4 l	
Traction drive (per side)	0.3 l	
Hydraulic system	32 l	26 l
Hydraulic oil tank	21 l	

## RATED POWER

Swing speed	10 rpm	
Max. travel speeds	Fast 4 km/h, slow 2.7 km/h	
Max. traction force	15.6 kN	
Bucket capacity	0.04 m <sup>3</sup>	
Ground pressure	0.29/0.31 kg/cm <sup>2</sup>	0.30 kg/cm <sup>2</sup>
Gradeability	30°	
Bucket digging force, ISO	15.2 kN	16.6 kN
Arm digging force, ISO	9.2 kN	9.2 kN / 8.3 kN

## UNDERCARRIAGE AND SUPERSTRUCTURE

Boom length	1 810 mm	1 770 mm
Arm length	1 130 mm	960 / 1 160 mm
Rollers	3	
Swinging gear	Axial piston motor with planetary gearbox running in an oil bath and single-row slewing ring. The swinging gear brake is released hydraulically.	
Undercarriage	Reinforced, generously dimensioned undercarriage. Welded undercarriage frame in box construction made of special material. Telescopic side frame.	

## OPERATING WEIGHT

	SY16C	SY18C	SY18U
Operating weight	1 865 kg	1 910 kg	1 925 kg

Operating weight: Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

## LIFTING CAPACITIES BLADE DOWN SY16C

Load point height	Radius				Digging reach	
	1.5 m	2.0 m	2.5 m	3.0 m	Maximum	
	Front & Side	Front & Side				
3.0 m kg					380	380
2.0 m kg			360	360	368	339
1.0 m kg	652		594	501	427	430
Ground kg	821	821	858	558	619	406
-1.0 m kg	999	883	766	557	557	404

## LIFTING CAPACITIES BLADE UP SY16C

Load point height	Radius				Digging reach	
	1.5 m / 4.9ft	2.0 m / 6.6ft	2.5 m / 8.2ft	3.0 m / 9.8ft	Maximum	
	Front & Side	Front & Side				
3.0 m kg					290	380
2.0 m kg			290	360	215	339
1.0 m kg	367		594	267	427	204
Ground kg	502	821	335	558	248	406
-1.0 m kg	510	883	334	557	246	404

## LIFTING CAPACITIES BLADE DOWN SY18C

Load point height	Radius				Digging reach	
	1.5 m	2.0 m	2.5 m	3.0 m	Maximum	
	Front & Side	Front & Side				
3.0 m kg					380	380
2.0 m kg			360	360	368	344
1.0 m kg	652		602	501	433	430
Ground kg	821	821	858	566	619	412
-1.0 m kg	999	897	766	566	557	411

## LIFTING CAPACITIES BLADE UP SY18C

Load point height	Radius				Digging reach	
	1.5 m	2.0 m	2.5 m	3.0 m	Maximum	
	Front & Side	Front & Side				
3.0 m kg					294	380
2.0 m kg			294	360	219	344
1.0 m kg	373		602	271	433	208
Ground kg	510	821	340	566	252	412
-1.0 m kg	518	897	339	566	250	411

## LIFTING CAPACITIES BLADE DOWN SY18U

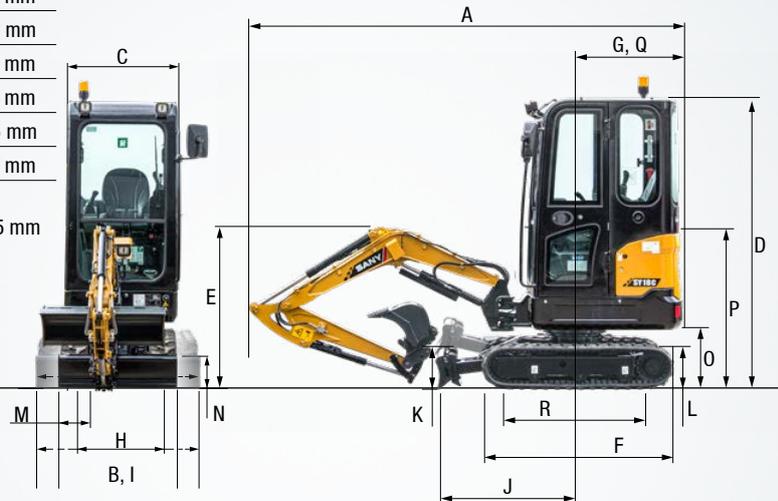
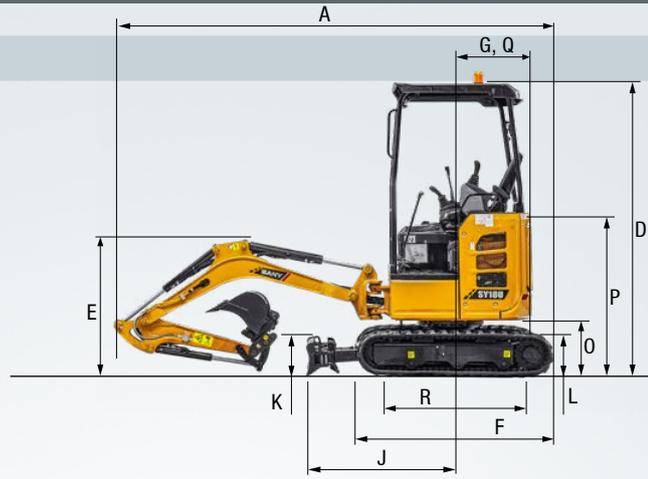
Load point height	Radius				Digging reach	
	1.5 m	2.0 m	2.5 m	3.0 m	Maximum	
	Front & Side	Front & Side				
3.0 m kg					265	265
2.0 m kg				292	263	255
1.0 m kg	517		461	415	333	336
Ground kg	662	651	774	425	541	313
-1.0 m kg	1012	660	650	422	468	309

## LIFTING CAPACITIES BLADE UP SY18U

Load point height	Radius				Digging reach	
	1.5 m	2.0 m	2.5 m	3.0 m	Maximum	
	Front & Side	Front & Side				
3.0 m kg					265	265
2.0 m kg				260	263	222
1.0 m kg	462		461	331	333	253
Ground kg	661	651	425	425	311	313
-1.0 m kg	671	660	423	422	307	309

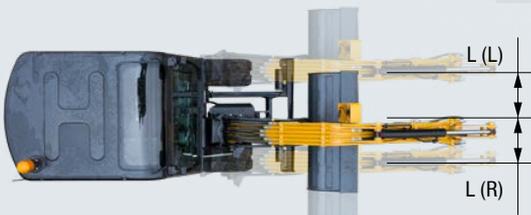
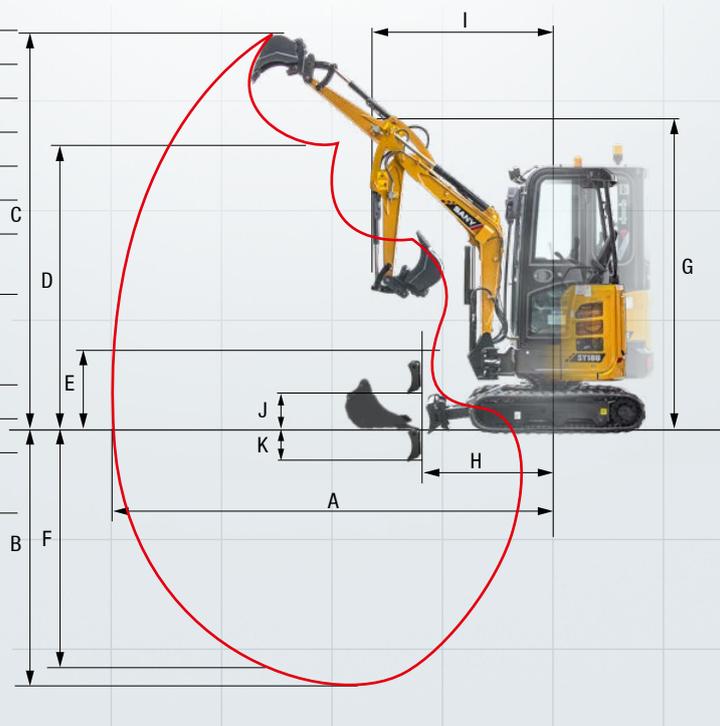
## DIMENSIONS

	SY16C	SY18C	SY18U
A Overall length	3 665 mm	3 665 mm	3 515 mm
B Total width	980/1 350 mm	1 030/1 350 mm	980/1 350 mm
C Total width of the superstructure	980 mm	1 030 mm	980 mm
D Overall height above cab	2 410 mm	2 410 mm	2 370 mm
E Overall height of the boom	1 355 mm	1 355 mm	1 100 mm
F Undercarriage length	1 585 mm	1 585 mm	1 585 mm
G Rear length	920 mm	920 mm	675 mm
H Track gauge	750/1 120 mm	750/1 120 mm	750/1 120 mm
I Undercarriage width (blade)	980/1 350 mm	980/1 350 mm	980/1 350 mm
J Horizontal clearance to the blade	1 190 mm	1 190 mm	1 190 mm
K Blade height	270 mm	270 mm	270 mm
L Track height	375 mm	375 mm	375 mm
M Track pad width	230 mm	230 mm	230 mm
N Min. ground clearance	160 mm	160 mm	160 mm
O Rear weight ground clearance	470 mm	470 mm	470 mm
P Bonnet height	1 270 mm	1 270 mm	1 275 mm
Q Tail swing radius	920 mm	920 mm	675 mm
R Distance (centre) track sprocket to idler sprocket	1 220 mm	1 220 mm	1 225 mm



## WORKING AREA

	SY16C/SY18C	SY18U
A Max. digging reach	4 000 mm	4 010/4 135 mm
B Max. digging depth	2 360 mm	2 385/2 585 mm
C Max. digging height	3 665 mm	3 410/3 530 mm
D Max. dumping height	2 635 mm	2 350/2 475 mm
E Min. dumping height	795 mm	786/650 mm
F Max. vertical digging depth	2 215 mm	2 010/2 205 mm
G Overall height at min. swing radius	2 745 mm	2 550/2 545 mm
H Arm head separation for max. working equipment retraction	1 230 mm	1 230 mm
I Swing radius with swing frame (L)	1 490 mm	1 305/1 310 mm
Swing radius with swing frame (R)	1 510 mm	1 195/1 200 mm
Min. swing radius	1 705 mm	1 705/1 715 mm
J Max. ground clearance of blade up	310 mm	310 mm
K Max. depth of blade down	320 mm	320 mm
L Swing frame offset (L)	595 mm	625 mm
Swing frame offset (R)	350 mm	400 mm
Max. Boom swing angle (L)	46°	58°
Max. Boom swing angle (R)	73°	51°



## Astonishingly well equipped for their size

The SY16C, SY18C and SY18U may be the smallest and lightest of the SANY mini excavators, but they still come with everything you need for efficient and precise work, fitted as standard.



### EASE OF USE - CAB/CANOPY

	SY16C	SY18C	SY18U
Heater		●	
Radio with loudspeakers		●	
Armrests, adjustable	●	●	●
12 V socket		●	●
Screen washer		●	
Screen sprayer		●	
Auxiliary control circuit 1 on joystick	●	●	●
Removable front screen		●	
Roof window		●	

### SAFETY

	SY16C	SY18C	SY18U
Battery isolating switch	●	●	●
Beacon	●	●	●
Emergency lowering	●	●	●
Lockable bonnets	●	●	●
Lockable fuel filler	●	●	●

### WORK EQUIPMENT

	SY16C	SY18C	SY18U
Safety valves on arm	●	●	●
Double-acting hydraulic circuit for quick change unit including piping	●	●	●
Proportional crusher and shearing circuit control on joystick including piping	●	●	●
Proportional rotation circuit control on joystick including piping	●	●	●
Cylinder guard on the arm	●	●	

● Standard ● Optional

The standard and special options differ depending on the delivery country. Please contact your dealer directly if you have any questions.

### WORK LIGHTING

	SY16C	SY18C	SY18U
2 x LED worklights – on roof front	●	●	●
1 x LED work light – boom	●	●	●

### UNDERCARRIAGE

	SY16C	SY18C	SY18U
Width-adjustable undercarriage	●	●	●
Rubber track	●	●	●
Cylinder guard – blade	●	●	●
Lashing eyes	●	●	●

### ENGINE

	SY16C	SY18C	SY18U
Diesel filter	●	●	●
Draining of the diesel system	●	●	●
Grease gun holder	●	●	●
Air filter monitor	●	●	●

### HYDRAULIC SYSTEM

	SY16C	SY18C	SY18U
2 travel speeds	●	●	●
Piping for auxiliary control circuit 1	●	●	●
Hydraulic pilot control of the joysticks	●	●	●

## SANY genuine parts

SANY genuine parts are designed, tested and manufactured to meet the exact specification and requirements of your SANY excavator. They will fit exactly as needed and will deliver maximum performance. They also ensure optimum safety for the operator on site and reduce unplanned maintenance and downtime. Ultimately, SANY genuine parts are the best choice for your machine and are backed with a 12 month warranty period.



# A SERVICE YOU CAN RELY ON

Just as we do with our machines, we also demand high quality and reliability of our service products. This underlines our equipment's performance in terms of their durability and their excellent price-performance ratio. After all, maintenance is crucial

for efficiency, cost-effectiveness and safety. Your SANY dealer is happy to help you with a comprehensive range of services to ensure that your machine continues operating efficiently in the long term.

## SANY – flexible, fast and always there for you

Rapid assistance, tailored advice and a reliable supply of original parts – that is what we mean by a premium service. To locate your nearest dealer, visit <https://www.sanyuk.com>.



## The added benefits SANY offers you:

- + Experienced dealer network throughout the UK and Ireland
- + Direct sales and support route in Scotland and the south east of England
- + Dedicated SANY team based in the UK to support you and your product
- + UK parts warehouse to ensure SANY machines are fully supported

## Seamless, in black and white

Manuals and documents are available for all SANY excavators to assist you during operation, maintenance, servicing and repair of your machine. These documents include operating and maintenance instructions and technical specifications.



HIGHLIGHTS **SY16C** | **SY18C** | **SY18U**

# EFFICIENT PERFORMANCE IN MINI FORMAT

Extremely easy handling and flexible, precise operation make SANY mini excavators highly productive machines whatever your application. Light weight and compact dimensions also mean they can be easily transported and manoeuvred on site.



## ROBUST AND DURABLE

The most important guards and all panelling parts are made of steel for maximum protection on site and reduced cost of ownership.

## EXTREMELY COMFORTABLE

Convincingly simple: the easy-to-operate joysticks offer high precision and the clearly laid out display is simple and intuitive to use.

## SAFETY FIRST

A ROPS/FOPS certified operator platform and equipment such as cylinder guards that are integrated as standard ensure optimum protection of the machine, operator and bystanders.

## LIGHTWEIGHT AND COMPACT

Width adjustable undercarriage from extremely narrow (980 mm) for manoeuvring to wide (1350 mm) for optimum stability. The zero tail swing of the SY18U further supports safe work in confined/tight spaces.

## ECONOMIC

Great efficiency, lower fuel consumption and easy all-round maintenance result in SANY minis being mini on price too.

## QUALITY COMES AS STANDARD

**High-quality components** from brand renowned manufacturers ensure top performance and a high level of operational reliability.

## TECHNICAL HIGHLIGHTS

Engine	Yanmar 3TNV80F
Rated power	14.6 kW / 2 400 rpm
Max. torque	65.3 Nm / 1 800 rpm
Max. travel speed	4 km/h
Swing speed	10 rpm
Main pump	Variable displacement axial piston pump
Max. oil flow	72 l/min

Not all products are available in all markets. We reserve the right to change specifications and designs without prior notice as part of our continuous improvement process. The illustrations may contain additional options.

# SANY

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**SANY HEAVY  
MACHINERY (UK) LTD**

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