

SY16C | SY18C | SY18U

SANY

supported by **Putzmeister**



THEY GO ANYWHERE

SO SMALL. SO AGILE. SO VERSATILE.

CONSTRUCTION MACHINERY



MINI EXCAVATOR
SY16C | SY18C | SY18U

Engine
Yanmar 3TNV80F
Power
14.6 kW / 2400 rpm
Bucket capacity
0.04 m³
Operating weight
1865 / 1925

SANY

The most demanding tasks require a first-class partner.

Quality comes from experience. And from innovative ideas. That's why at SANY we combine these two important factors. Because we are one of the leading manufacturers, with more than **500,000** excavators sold **worldwide**. Given this, you can trust our advanced products, tested in the construction field. We allocate a high percentage of our annual turnover, between **5 and 7%**, to research and development. This allows us to promise you the power and robustness of our products.

500 000
EXCAVATORS SOLD
WORLDWIDE

5-7%

PERCENTAGE OF TURNOVER ALLOCATED
TO RESEARCH AND DEVELOPMENT

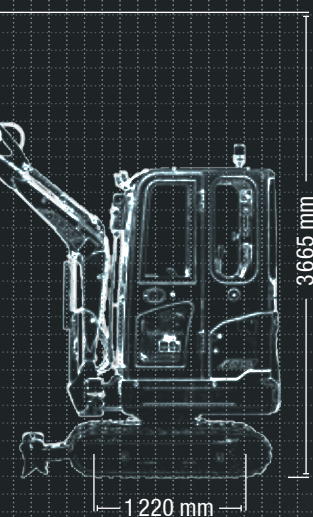
Quality Changes the World



SY16C | SY18C | SY18U

SY18C TECHNICAL DATA

Max. breakout force
of the bucket
15.2 kN (ISO)
Max. pulling force
of the arm
9.2 kN (ISO)
Rotational speed
10 rpm
Maximum travelling speed
4 km/h



PERFORMS WELL IN SMALL SPACES

When space is limited, SANY SY16/18 mini excavators are the perfect solution. With a width of only 80 / 1350 mm, they fit through narrow corridors, making them ideal for landscaping, working directly on structures or in existing buildings. If there is also limited space for loading, the SY18U offers even more flexibility as a short-swing excavator. It also stands out for its excellent equipment, such as the adjustable width chassis, the versatile proportional hydraulic system of the auxiliary control circuit and the bright LED work lights.

With an operating weight of only 1 865 kg or 1 925 kg and a transport height of only 2 410 mm, they are also very easy to transport, can be loaded and unloaded quickly, and impress on the construction site with their excellent manoeuvrability in the tightest of spaces. At the same time, they do not compromise on efficiency in any way; for example, they have a maximum reach of up to 4 135 mm. **In addition to the SY18C cab variant with the SY16C and the SY18U short overhang variant, there are also two canopy versions to choose from.**



AS PRECISE AS A HUMAN HAND, BUT MUCH FASTER

Mini excavators, in particular, require a high degree of flexibility in use. The SY16/18 variants with cab, canopy or short overhang are simply unbeatable. In addition, they feature a powerful load-sensing hydraulic system that provides them with the necessary power. Together with the precise response of the hydraulic system and chassis, this makes it a perfect precision tool.

CONSTRUCTION

Robust and durable: The most important protective elements and reinforcements, as well as all the cladding parts, are made of high-quality metal, ideal for intensive use on site.

DIMENSIONS

Lightweight and compact: The SY16/18 can be easily secured to standard car trailers using the numerous lashing rings, so it can be quickly transported anywhere, even to places where space may be limited.

EASE OF USE

Ergonomic Design: Easy access, comfortable seating and ergonomic controls. Drivers can rest assured that they will be working in maximum comfort.



CONSTRUCTION

Fully resistant:
metal covers

Durability and robustness are standard features in all SANY mini excavators. That is why all cladding parts are made exclusively from metal. This makes them particularly robust, and if an accident ever occurs in the complicated day-to-day life of a construction site, they can usually be quickly repaired. This is what we understand by sustainability.

DIMENSIONS

The chassis adapts to space and
stability requirements.

When space is at a premium, the SY16/18 becomes very compact: with a width of just 980 mm, it fits through a garden gate or doorway and can be transported on a trailer. When stability is required, the chassis can be easily widened to 1350 mm. The push blade can also be adjusted to the corresponding width. The SY18U short-overhang version remains within the chassis width even when the superstructure is rotated, for example during loading work.



SAFETY

Demonstrably firm: The SY16/18 is fully equipped to work accurately and safely even in confined spaces. In addition to omnidirectional lights, it also includes a battery disconnect switch as standard.

COMPONENTS

Top quality: The SY16/18 already comes with a wide range of features as standard. Key components from renowned manufacturers, such as Yanmar engines, guarantee high engine power and consequently high hydraulic performance.

RENTABILITY

Excellent value for money: From every point of view, in terms of purchase, consumption, where it complies with stage 5 exhaust gas standards, and without complications in maintenance. When it comes to costs, SANY mini excavators are truly mini.



The advantages of SANY Plus:

- + Width-adjustable chassis
- + Additional proportional control circuit with joystick operation as standard
- + LED work lights
- + Cab, canopy or short overhang
- + Load sensing hydraulic system
- + Stage V emissions

PROFITABILITY

FOR APPLICATIONS IN CONFINED SPACES: SANY SY18U

With its super-compact short overhang design, the SY18U is ideal for working in the tightest of spaces without compromising on digging performance. The hydraulic hoses are optimally protected against damage by being integrated into the boom. Another advantage of the SY18U: the modified display allows the driver to see all important information at a glance. An additional feature for greater operator comfort is the suspension seat.



RENTABILITY

Its small economic miracle

To achieve high performance in the smallest of spaces, you need real power: agile and extremely compact, flexible and precise. The SY16/18 delivers maximum power down to the last detail, for fast, clean results where otherwise only manual work would be possible. This makes it a highly effective tool. What's more, the SY16/18 stands out for its attractive price-performance ratio, both at the time of purchase and in terms of running costs.

COMPONENTS

The individualist who already has it all

Many of the SY18C's advantages come as standard. For example, LED work lights for a clear view in any situation. Or the sophisticated load-sensing hydraulic system with precise power adjustment to suit your needs.



EASE OF USE

Everything perfectly under control

Precise handling, quick response, fatigue-free operation: the controls on the SY16/18 are designed entirely for ergonomic operation. The joysticks transmit movements directly and precisely. The proportional function of the additional control circuit can be conveniently controlled with your thumb via the joystick wheel.



SAFETY

Protection for people and machines

Thanks to its TOPS and FOPS-approved driver's platform, SANY's smallest model also stands out for its safety features. And to ensure optimum protection for the operator, the machine, the tool, the structure and the environment, the standard equipment includes a battery disconnect switch. Omnidirectional lights keep the operator alert during work.



PROFITABILITY

THE FINE DIFFERENCE: OPEN TO ALL: SANY SY16C

Same technology, same performance: the SY16C differs from its twin, the SY18C, only in that it is equipped with a canopy, while its twin has a cab. As a result, the SY16C weighs slightly less, at 1 825 kg. This canopy version offers a perfect view of the outside towards the work area and, at the same time, complies with current TOPS/FOPS specifications.



EASE OF USE

Easy maintenance

Only a well-maintained machine can do a good job. That is why all relevant maintenance parts on the SY16/18 are easily accessible. There is also a holder for the grease gun in the engine compartment. This saves time and money during regular inspections and all maintenance tasks, and increases availability.

The fuel tank is also easily accessible, but with a tank capacity of 21 litres or 23 litres and the machine's low fuel consumption, you won't need to refuel as often anyway.



MOTOR	SY16C/SY18C	SY18U
Model	Yanmar 3TNV80F	
Type	Water-cooled 4-stroke diesel engine with swirl chamber injection	
Emission standards	Stage V	
Power	14.6 kW / 2 400 rpm	
Maximum torque	65.3 Nm / 1 800 rpm	
Engine capacity	1 267 ccm	
Batteries	1 x 12 V / 60 Ah	

HYDRAULIC SYSTEM

Main pump	Axial piston control pump
Max. oil flow	72 l/min
Travel drive	Variable 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
Travel circuit	245 bar
Pilot circuit	35 bar

FILLING QUANTITIES

Fuel tank	23 l	21 l
Engine coolant	5 l	5.4 l
Engine oil	3.4 l	
Travel drive (per side)	0.33 l	
Hydraulic system	23 l	33 l
Hydraulic oil tank	21 l	

POWER

Rotation speed	10 r.p.m.	
Maximum travel speeds	fast 4 km/h, slow 2.7 km/h	fast 4 km/h, slow 3 km/h
Maximum traction force	15.6 kN	16.2 kN
Bucket capacity	0.04 m³	
Ground pressure	0.29/0.31 kg/cm²	0.30 kg/cm²
Lifting capacity	30°	
ISO bucket breakout force	15.2 kN	16.6 kN
ISO arm traction force	9.2 kN	8.2 kN

RUNNING GEAR AND SUPERSTRUCTURE

Boom length	1 810 mm	1 770 mm
Arm length	1 130 mm	960 / 1 160 mm
Rollers	3	
Swivel system	Axial piston motor with planetary gear in oil bath and single-row rotating ring gear. The brake on the rotation mechanism is released hydraulically.	
Undercarriage	Reinforced, large-dimension undercarriage. Welded undercarriage frame in box design made of special material. Telescopic side frame.	

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

LOAD CAPACITIES LOWER THRUST PLATE SY18C

Loading point height	Radio				Maximum	
	1.5 m	2.0 m	2.5 m	3.0 m	Range	
3.0 m kg					285	285
2.0 m kg					267	253
1.0 m kg					483	486
Floor kg	826	826	631	528	456	383
-1.0 m kg	819	819	563	529	407	382

LOAD CAPACITIES UPPER THRUST BLADE SY18C

Loading point height	Radio				Maximum	
	1.5 m	2.0 m	2.5 m	3.0 m	Range	
3.0 m kg					285	285
2.0 m kg					253	253
1.0 m kg					483	483
Floor kg	811	826	514	528	371	383
-1.0 m kg	819	819	514	529	370	382

LOWER THRUST BLADE LOADING CAPACITY SY18U

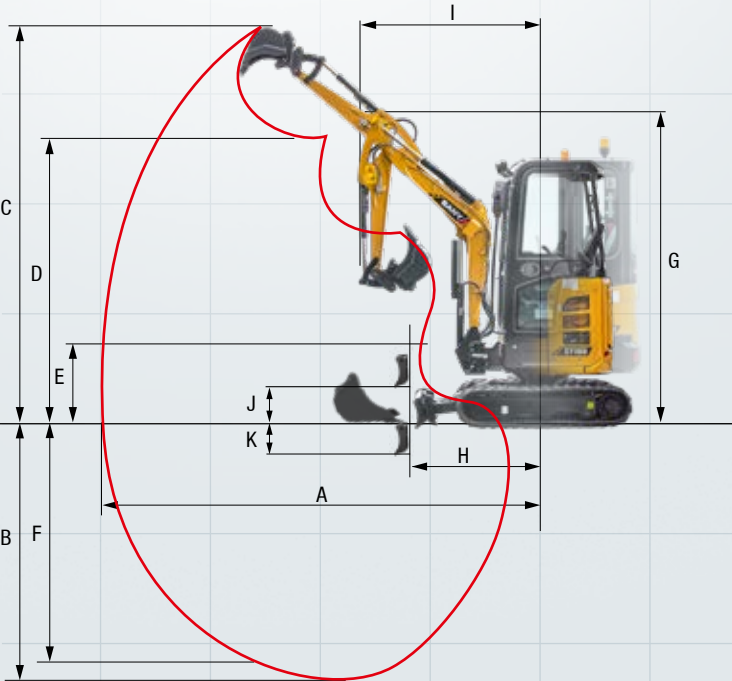
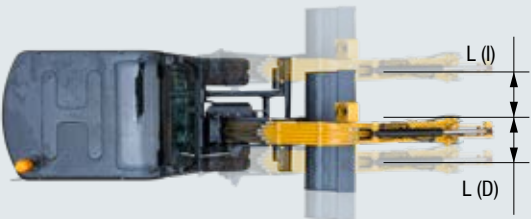
Loading point height	Radio				Maximum	
	1.5 m	2.0 m	2.5 m	3.0 m	Range	
3.0 m kg					265	265
2.0 m kg					292	263
1.0 m kg					517	461
Floor kg	662	651	774	425	541	313
-1.0 m kg	1012	660	650	422	468	309

UPPER THRUST BLADE LOAD CAPACITIES SY18U

Loading point height	Radio				Maximum	
	1.5 m	2.0 m	2.5 m	3.0 m	Range	
3.0 m kg					265	265
2.0 m kg					260	263
1.0 m kg					462	461
Floor 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	3 515 mm
B Overall width	980/1 350 mm	980/1 350 mm
C Overall width of superstructure	980/1 030 mm	980 mm
D Overall height above cab	2 410 mm	2 370 mm
E Overall height of boom	1 175 mm	1 100 mm
F Length of undercarriage	1 585 mm	1 585 mm
G Rear length	900 mm	675 mm
H Wheelbase	750/1 120 mm	750/1 120 mm
I Undercarriage width (pusher blade)	980/1 350 mm	980/1 350 mm
J Horizontal distance to pusher blade	1 190 mm	1 190 mm
K Pusher blade height	280 mm	265 mm
L Track height	375 mm	375 mm
M Track plate width	230 mm	230 mm
N Minimum ground clearance	180 mm	150 mm
O Counterweight ground clearance	470 mm	470 mm
P Engine bonnet height	1 275 mm	1 275 mm
Q Turning radius	920 mm	675 mm
R Distance (centre) between track wheel and guide wheel	1 220 mm	1 225 mm

WORK AREA	SY16C/SY18C	SY18U
A Max. reach	4 000 mm	4 010/4 135 mm
B Max. digging depth	2 360 mm	2 385/2 585 mm
C Max. lifting 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. digging depth vertical wall	2 215 mm	2 010/2 205 mm
G Total height with min. swing radius	2 745 mm	2 550/2 545 mm
H Distance from arm head with max. retraction of working device	1 230 mm	1 230 mm
I Swing radius on slewing ring (I)	1 490 mm	1 305/1 310 mm
Swing radius on slewing ring (D)	1 510 mm	1 195/1 200 mm
Min. swing radius	1 705 mm	1 705/1 715 mm
J Max. lift of dozer blade above ground	310 mm	310 mm
K Max. penetration of dozer blade	320 mm	320 mm
L Swivel support displacement range (I)	595 mm	625 mm
Swivel support displacement range (D)	350 mm	400 mm
Max. boom swing angle (I)	73°	58°
Max. boom swing angle (D)	46°	51°



Note: Non-binding information document. The values indicated are theoretical maximum values. The values for the high-pressure water pump are for operation in diesel mode. Specifications subject to change without prior notice. Photos and illustrations are for illustrative purposes only. For information on available options, please consult us.

Surprisingly well equipped for their size

The SY16C, SY18C and SY18U may be the smallest and lightest of SANY's mini excavators, but they still come standard with everything you need to do the job efficiently and accurately.



A SERVICE YOU CAN RELY ON

As with our excavators, the quality and reliability standards of our service products are very high. This is demonstrated by the scope of our guarantee in terms of durability, as well as the excellent value for money. After all, maintenance is also crucial for efficiency,

profitability and safety. Your SANY dealer is at your side with a comprehensive service to ensure that your machine runs efficiently and durably.

EASY TO OPERATE / CAB

	SY16C	SY18C	SY18U
Heating		●	
Radio with loudspeaker		●	
Adjustable armrests	●	●	●
12 V connection		●	●
Windscreen wipers		●	
Window washing system		●	
Additional control circuit 1 on control lever	●	●	●
Removable front window		●	
Sunroof		●	

WORK LIGHTING

	SY16C	SY18C	SY18U
2 LED work lights, front roof	●	●	●
1 LED work light, boom	●	●	●

UNDERCARRIAGE

	SY16C	SY18C	SY18U
Width-adjustable chassis	●	●	●
Rubber chain	●	●	●
Cylinder protection, push blade	●	●	●
Fastening rings	●	●	●

SAFETY

	SY16C	SY18C	SY18U
Battery disconnect switch	●	●	●
Omnidirectional lights	●	●	●
Emergency descent	●	●	●
Lockable covers	●	●	●
Lockable fuel tank cap	●	●	●

ENGINE

	SY16C	SY18C	SY18U
Diesel filter	●	●	●
Diesel system drain	●	●	●
Grease gun holder	●	●	●
Air filter guard	●	●	●

HYDRAULIC SYSTEM

	SY16C	SY18C	SY18U
2 travel speeds	●	●	●
Tubes for additional control circuit 1	●	●	●
Hydraulic servo control of the control lever	●	●	●

WORK EQUIPMENT

	SY16C	SY18C	SY18U
Safety valves on boom and arm	●	●	●
Double-acting hydraulic circuit for quick coupling incl. hose system	●	●	●
Hammer installation	●	●	●
Attachment installation	●	●	●
Cylinder protection on arm	●	●	

● Standard ● Option

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SANY is always at your service, offering flexibility and speed

Prompt assistance, accurate advice and reliable supply of original parts: that is how we understand premium service.



The advantages of SANY Plus:

- + Fast delivery through our central warehouse located in Altona, Australia
- + Over 15,000 spare parts to ensure the high reliability of your machine
- + Expert technical knowledge for the optimal operation of your machine
- + Thanks to SANY's special training programme, our distributors are up to date to successfully deal with any technical challenges



Parts supply: fast and reliable

By purchasing a SANY mini excavator, you have invested in the future. The rapid availability of spare parts guarantees short down-times and minimal inactivity.



Full coverage, black on white

All SANY mini excavators come with manuals and documents to assist you with operation, maintenance, servicing, and repairs, including operating and maintenance instructions, technical specifications, and more.



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

EFFICIENT PERFORMANCE IN MINI FORMAT

Extremely simple operation and flexible, precise functioning make mini excavators a highly productive tool in any application. Being lightweight and compact in size, they can also be quickly and easily transported to the place of use.



STRONG AND DURABLE

The most important protective elements and all cladding parts are made of **robust metal**. **Robotic welding** ensures durability in all conditions.

EXTREMELY COMFORTABLE

Convincing simplicity: **the joysticks**, easy to **operate with great precision**, and the clear display.

SAFE

To **protect both people and the machine as much as possible**, it comes with integrated devices such as cylinder protection plates. And, of course, the platform is **TOPS-FOPS** certified.

LIGHTWEIGHT AND COMPACT

Adjustable chassis width: from extremely narrow for manoeuvring to wide for optimum stability. **SY18U with short, compact overhang** for safe use even in confined spaces.

PROFITABLE

The **intelligent control system** adapts the pumping capacity to requirements for greater efficiency and reduced fuel consumption.

GOOD SERIES

The **high-quality components** from brand-name manufacturers guarantee maximum performance and a high level of operational safety, even in the **extensive standard equipment**. These include, for example, the additional control circuit, LED lighting and even the radio in the cab machines.

KEY TECHNICAL FEATURES

Engine	Yanmar 3TNV80F
Power	14.6 kW / 2 400 rpm
Maximum torque	65.3 Nm / 1 800 rpm
Maximum travel speed	4 km/h
Rotational speed	10 rpm
Main pump	Axial piston control pump
Maximum oil flow	72 l/min (SY16C / SY18C) 66 l/min (SY18U)



“SIMPLY BEAUTIFUL WORK WITH THE
MACHINE!”

Tim Berges – empresa Retzmann construction company
Tief- und Straßenbau GmbH

Not all products are available in all markets. As part of our ongoing improvement process, we reserve the right to change specifications and designs without prior notice. Images may contain additional options.

SANY

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