

SANY

Quality Changes the World



NOWHERE IS OUT OF REACH

SO SMALL. SO AGILE. SO VERSATILE.

CONSTRUCTION MACHINERY



MINI EXCAVATORS

SY16C | SY18C

Engine
Yanmar 3TNV80F
Rated power
14.6 kW / 2400 rpm
Bucket capacity
0.04 m³
Operating weight
1865 / 1910-1980 kg

SANY

For challenging tasks, you need a first-class partner

Quality comes from experience. And from new ideas. This is why we combine these two crucial factors at SANY. This is because we are one of the world's leading producers, having sold more than **320 000** excavators in **10 years**. This means that you can always rely on sophisticated products that have been tried and tested in practice. An impressive **5–7 %** of our annual turnover is dedicated to research and development.

320 000

EXCAVATORS SOLD IN
10 YEARS

5–7 %

TURNOVER FOR RESEARCH
AND DEVELOPMENT

Quality Changes the World



COPEs WELL WITH LITTLE SPACE

Whenever things get tight, the SANY SY18C mini excavator is just right. Measuring just 980 mm in width, it even fits through narrow passages, making it the ideal solution for garden and landscaper construction and for work directly on buildings or in existing buildings. Its outstanding equipment is also impressive – take, for example, the width-adjustable chassis, the versatile proportional hydraulics of the auxiliary control circuit or the bright LED work lights.

Weighing in at just 1 910 kg and with a transport height of only 2 410 mm, it is also very easy to transport, can be loaded and unloaded quickly and impresses on site with its excellent manoeuvrability in confined spaces. At the same time, it does not compromise on efficiency in any way – for example, it stands out with a maximum horizontal reach of up to 4 000 mm. **It is also available as a canopy version in the SANY SY16C version.**

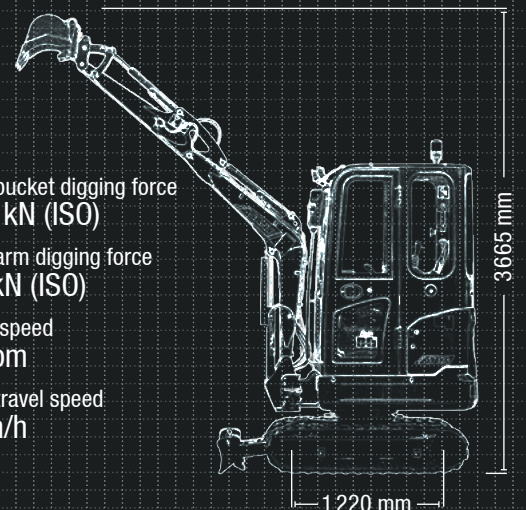
SY18C HARD FACTS

Max. bucket digging force
15.2 kN (ISO)

Max. arm digging force
9.2 kN (ISO)

Swingspeed
10 rpm

Max. travel speed
4 km/h



TOP PROPERTIES

QUALITY

Robust and durable – the most important protective elements and reinforcements as well as all cladding parts are made of high-quality metal, ideal for tough use in the construction industry.

DIMENSIONS

Lightweight and compact – the SY18C fits easily onto standard car trailers and can be transported quickly to any location, even where space is tight.

USER EXPERIENCE

Extremely comfortable – from easy access to the comfortable seat and the ergonomically designed controls, drivers can look forward to maximum comfort.



SAFETY

No compromise – the SY18C is fully equipped for precise, safe working even in very confined application conditions. In addition to the standard rotating warning beacon, this also includes the battery disconnection switch and an emergency stop button.

COMPONENTS

Quality as standard – the SY18C already comes with extensive features as standard. In addition, it features core components such as the engine and pumps from renowned brand manufacturers like Yanmar and Casappa.

ECONOMY

Economically impressive – low procurement cost, economical consumption in compliance with emission standard 5 and straightforward maintenance which is attractive. When it comes to costs, SANY mini excavators really are mini.

AS PRECISE AS BY HAND – ONLY MUCH QUICKER

Mini excavators in particular require high operational flexibility. In this regard, the SY18C is simply unbeatable. It also has a powerful hydraulic system that gives it the necessary power. Together with the precise response behaviour of the hydraulics and chassis, this makes it a perfect precision tool.

QUALITY

Fully resilient – metal access panels

Durability and robustness are standard features on all SANY mini excavators. For example, the access panels parts are made exclusively of metal. This makes them particularly robust – and if a bump happens during the tough everyday work on a construction site, it can usually be repaired. This is what we mean by sustainability.

DIMENSIONS

Adjustable track frame to suit all your requirements and increase stability

When things get really tight, the SY18C makes itself very small – with a width of just 980 mm, it can even fit through a garden gate, a door opening or onto a trailer for transport. If stability is required, the chassis can be hydraulically adjusted to a width of 1 350 mm. The dozer blade can also be adjusted to the respective width.



The added benefits SANY offers you:

- + Width-adjustable chassis
- + Proportional auxiliary control circuit via joystick operation as standard
- + LED work lighting
- + Cab or canopy
- + Load-sensing hydraulic system
- + Emission standard – Stage V

EFFICIENCY, COST-EFFECTIVENESS AND USER EXPERIENCE

SAFETY

Protection for people and machines

Thanks to the ROPS or FOPS-tested operator's platform, SANY's smallest model also performs well in terms of safety. To ensure that people and machines, tools and buildings and the environment are optimally protected, the standard equipment includes a battery disconnection switch and an emergency stop button. The rotating warning beacon and the travel alarm helps the operator to pay attention to their work during operation.



USER EXPERIENCE

Maintenance done the easy way

Only a well maintained machine can do a good job. Therefore, all maintenance-relevant parts of the SY18C are easily accessible from ground level. This saves time and money during regular inspections and all maintenance work and increases availability.

The fuel tank is also easy to reach – but with a tank capacity of 20 litres and low fuel consumption, you do not need to refuel as often anyway.

USER EXPERIENCE

EVERYTHING PERFECTLY UNDER CONTROL

Precise handling, quick reactions, fatigue-free operation – the controls of the SY18C are designed for ergonomic handling. Designed for everyday use, all switches are easy to reach. Joysticks transmit movements directly and precisely. The digital display is clear and easy to read and shows the most important data at a glance. Using the small wheel in the joystick, the proportional function of the auxiliary control circuit can be easily controlled with the thumb.



**COMPONENTS****The individual that already has everything**

Many things that are good are already standard with the SY18C. For example, the LED work lights that guarantee optimum views in all conditions. Or the sophisticated load-sensing hydraulic system with precise power adjustment to meet current requirements.

ECONOMY**Your very personal little economic miracle**

For great performance in the smallest of spaces, you need a real powerhouse: Agile and extremely compact, flexible and precise. The SY18C gets to the heart of maximum power – for quick and clean results where only manual work would otherwise be possible. This makes it a highly efficient tool. In addition, the SY18C offers an attractive price-performance ratio at the time of purchase and then in terms of operating costs.

ECONOMY

THE FINE DIFFERENCE: OPEN FOR ALL – **SANY SY16C**

Same technology, same performance – the SY16C differs from the SY18C only in that it is equipped as a canopy instead of a cab. It therefore weighs slightly less – just 1 865 kg. The canopy variant offers a perfect view outside of the work area while meeting current ROPS requirements.



TECHNICAL SPECIFICATIONS

SY16C ENGINE

Model	Yanmar 3TNV80F
Type	Water-cooled four-stroke diesel engine with turbulence chamber fuel injection
Exhaust emissions	Stage V
Rated power	14.6 kW / 2 400 rpm
Max. torque	65.3 Nm / 1 800 rpm
Displacement	1 267 ccm
Batteries	1x 12 V / 60 Ah

SY16C HYDRAULIC SYSTEM

Main pump	Variable displacement axial piston pump
Max. oil flow	72 l/min
Travel motor	Variable displacement axial piston motor
Rotation device	Axial piston motor
Max. oil flow (AUX1)	40 l/min

SY16C RELIEF VALVE SETTINGS

Implement circuit	245 bar
Swing circuit	162 bar
Travel circuit	245 bar
Pilot pressure	35 bar

SY16C SERVICE REFILL CAPACITIES

Fuel tank	20 l
Engine coolant	5.0 l
Engine oil	3.4 l
Drive (per side)	0.33 l
Hydraulic system	32 l
Hydraulic oil tank	21 l

SY16C PERFORMANCE

Swing speed	10 rpm
Max. travel speed	High 4 km/h, slow 2.7 km/h
Max. travel force	15.6 kN
Bucket capacity	0.04 m³
Ground pressure	0.29 kg/cm²
Gradeability	30°
Bucket digging force ISO	15.2 kN
Arm digging force ISO	9.2 kN












SY16C OPERATING WEIGHT

SY16C *	1 865 kg
* Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.	












SY16C UNDER AND UPPER STRUCTURE

Boom length	1 810 mm
Arm length	1 130 mm
Bottom rollers	3
Rotation device	Axial piston motor with planetary gear running in oil bath and single-row slewing ring. Slewing gear parking brake, hydraulically released.
Undercarriage	Reinforced lower structure with larger dimensions. Welded drive frame in box design made of special material. Side frame telescopic.

SY16C LIFTING CAPACITIES OF LOWER DOZER BLADE

	Radius								Digging reach	
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal	
Load point height										
3.0 m kg									*380	*380
9.8 ft lb									*838	*838
2.0 m kg					*360	*360	*368	339	*313	298
6.6 ft lb					*794	*794	*811	747	*690	657
1.0 m kg			*652	594	*501	427	*430	327	*314	261
3.3 ft lb			*1437	1310	*1105	941	*948	721	*692	575
Ground line kg	*821	*821	*858	558	*619	406	*487	315	*365	269
lb	*1810	*1810	*1892	1230	*1365	895	*1074	694	*805	593
-1.0 m kg	*999	883	*766	557	*557	404			*430	341
-3.3 ft lb	*2202	1947	*1689	1228	*1228	891			*948	752

SY16C LIFTING CAPACITIES OF UPPER DOZER BLADE

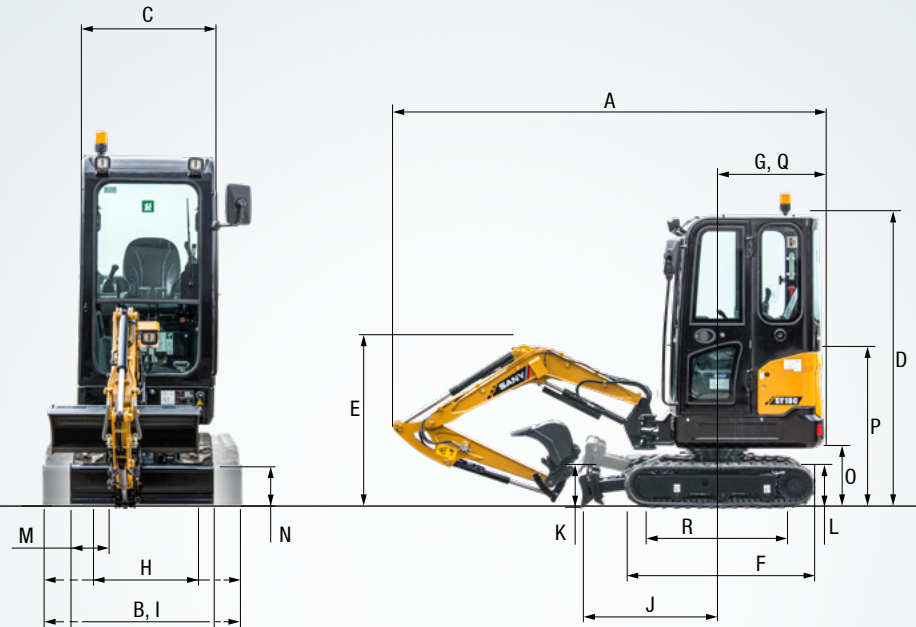
	Radius								Digging reach	
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal	
Load point height										
3.0 m kg									290	*380
9.8 ft lb									639	*838
2.0 m kg					290	*360	215	339	188	298
6.6 ft lb					639	*794	474	747	414	657
1.0 m kg			367	594	267	427	204	327	161	261
3.3 ft lb			809	1310	589	941	450	721	355	575
Ground line kg	502	*821	335	558	248	406	193	315	165	269
lb	1107	*1810	739	1230	547	895	425	694	364	593
-1.0 m kg	510	883	334	557	246	404			210	341
-3.3 ft lb	1124	1947	736	1228	542	891			463	752

* SY16C(Rubber track+Canopy), Transport Weight:1790kg.

* Item with “**” is limited by hydraulic pressure and item without “**” is limited by stability.

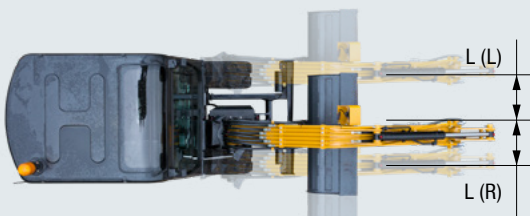
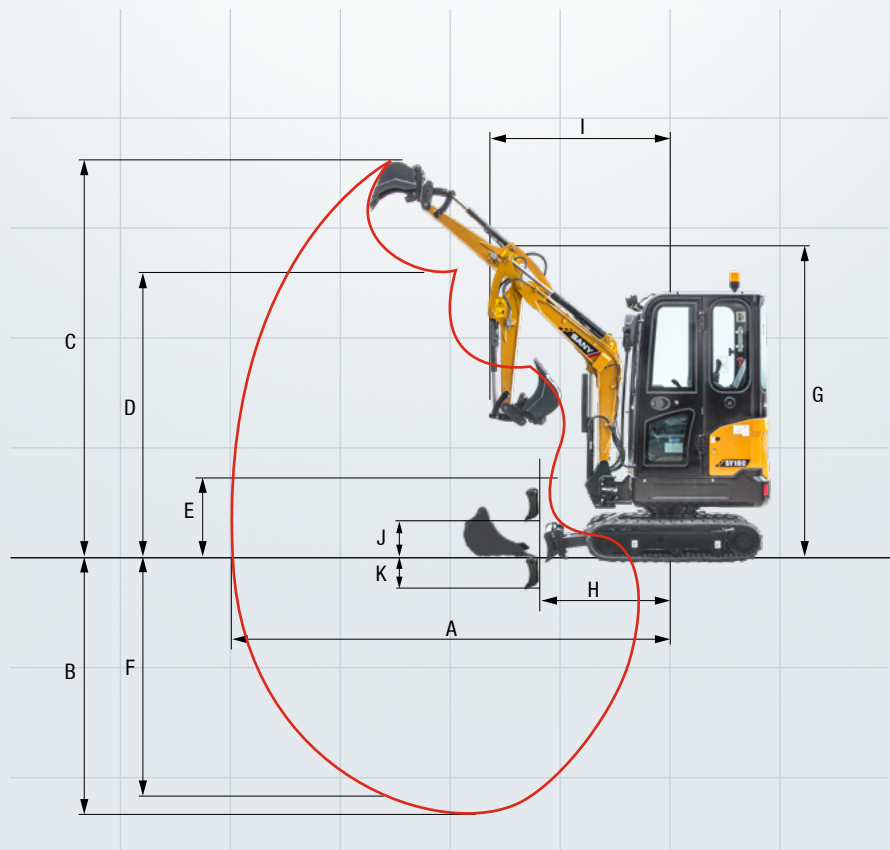
SY16C DIMENSIONS (TRANSPORT)

A	Transport length	3 665 mm
B	Transport width	980/1 350 mm
C	Upperstructure carriage	980 mm
D	Height over cabin/ROPS	2 410 mm
E	Height of Boom – transport	1 355 mm
F	Overall length of crawler	1 585 mm
G	Tail length	920 mm
H	Track gauge	750/1 120 mm
I	Undercarriage width (blade)	980/1 350 mm
J	Horizontal distance to blade	1 190 mm
K	Blade height	270 mm
L	Track height	375 mm
M	Track pads width	230 mm
N	Min. ground clearance	160 mm
O	Counterweight clearance	470 mm
P	Engine cover height	1 270 mm
Q	Tail swing radius	920 mm
R	Center distance of tumblers	1 220 mm



SY16C WORKING AREA

A	Max. digging reach	4 000 mm
B	Max. digging depth	2 360 mm
C	Max. digging height	3 665 mm
D	Max. dumping height	2 635 mm
E	Min. dumping height	795 mm
F	Max. vertical digging depth	2 215 mm
G	Overall height over arm by min. swing radius	2 745 mm
H	Arm head distance with work equipment retracted as far as possible	1 230 mm
I	Swing radius by max. boomswing (L)	1 490 mm
	Swing radius by max. boomswing (R)	1 510 mm
	Min. swing radius	1 705 mm
J	Max. clearance when blade up	310 mm
K	Max. depth of blade down	320 mm
L	Offset boom (L)	595 mm
	Offset boom (R)	350 mm
	Max. boom-swing angle (L)	46°
	Max. boom-swing angle (R)	73°



TECHNICAL SPECIFICATIONS

SY18C ENGINE

Model	Yanmar 3TNV80F
Type	Water-cooled four-stroke diesel engine with turbulence chamber fuel injection
Exhaust emissions	Stage V
Rated power	14.6 kW / 2 400 rpm
Max. torque	65.3 Nm / 1 800 rpm
Displacement	1 267 ccm
Batteries	1x 12 V / 60 Ah

SY18C HYDRAULIC SYSTEM

Main pump	Variable displacement axial piston pump
Max. oil flow	72 l/min
Travel motor	Variable displacement axial piston motor
Rotation device	Axial piston motor
Max. oil flow (AUX1)	40 l/min

SY18C RELIEF VALVE SETTINGS

Implement circuit	245 bar
Swing circuit	162 bar
Travel circuit	245 bar
Pilot pressure	35 bar

SY18C SERVICE REFILL CAPACITIES

Fuel tank	20 l
Engine coolant	5.4 l
Engine oil	3.4 l
Drive (per side)	0.33 l
Hydraulic system	32 l
Hydraulic oil tank	21 l

SY18C PERFORMANCE

Swing speed	10 rpm
Max. travel speed	High 4 km/h, slow 2.7 km/h
Max. travel force	15.6 kN
Bucket capacity	0.04 m³
Ground pressure	0.31 kg/cm²
Gradeability	30°
Bucket digging force ISO	15.2 kN
Arm digging force ISO	9.2 kN

SY18C OPERATING WEIGHT

SY18C *	1 910-1 980 kg
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* Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

SY18C UNDER AND UPPER STRUCTURE

Boom length	1 810 mm
Arm length	1 130 mm
Bottom rollers	3
Rotation device	Axial piston motor with planetary gear running in oil bath and single-row slewing ring. Slewing gear parking brake, hydraulically released.
Undercarriage	Reinforced lower structure with larger dimensions. Welded drive frame in box design made of special material. Side frame telescopic.












SY18C DIMENSIONS (TRANSPORT)

A Transport length	3 665 mm
B Transport width	1 030/1 350 mm
C Upperstructure carriage	1 030 mm
D Height over cabin/ROPS	2 410 mm
E Height of Boom – transport	1 355 mm
F Overall length of crawler	1 585 mm
G Tail length	920 mm
H Track gauge	750/1 120 mm
I Undercarriage width (blade)	980/1 350 mm
J Horizontal distance to blade	1 190 mm
K Blade height	270 mm
L Track height	375 mm
M Track pads width	230 mm
N Min. ground clearance	160 mm
O Counterweight clearance	470 mm
P Engine cover height	1 270 mm
Q Tail swing radius	920 mm
R Center distance of tumblers	1 220 mm

SY18C WORKING AREA












A Max. digging reach	4 000 mm
B Max. digging depth	2 360 mm
C Max. digging height	3 665 mm
D Max. dumping height	2 635 mm
E Min. dumping height	795 mm
F Max. vertical digging depth	2 215 mm
G Overall height over arm by min. swing radius	2 745 mm
H Arm head distance with work equipment retracted as far as possible	1 230 mm
I Swing radius by max. boom swing (L)	1 490 mm
Swing radius by max. boom swing (R)	1 510 mm
Min. swing radius	1 705 mm
J Max. clearance when blade up	310 mm
K Max. depth of blade down	320 mm
L Offset boom (L)	595 mm
Offset boom (R)	350 mm
Max. boom-swing angle (L)	46°
Max. boom-swing angle (R)	73°

SY18C LIFTING CAPACITIES OF LOWER DOZER BLADE SY18C LIFTING CAPACITIES OF UPPER DOZER BLADE












	Radius								Digging reach	
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal	
Load point height										
3.0 m kg									*380	*380
9.8 ft lb									*838	*838
2.0 m kg					*360	*360	*368	344	*313	303
6.6 ft lb					*794	*794	*811	758	*690	668
1.0 m kg			*652	602	*501	433	*430	332	*314	265
3.3 ft lb			*1437	1327	*1105	955	*948	732	*692	584
Ground kg	*821	*821	*858	566	*619	412	*487	320	*365	273
line lb	*1810	*1810	*1892	1248	*1365	908	*1074	705	*805	602
-1.0 m kg	*999	897	*766	566	*557	411			*430	347
-3.3 ft lb	*2202	1978	*1689	1248	*1228	906			*948	765

* SY18C(Rubber track+Cab), Transport Weight:1835kg.

* Item with "*" is limited by hydraulic pressure and item without "*" is limited by stability.












	Radius								Digging reach			
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal			
Load point height												
3.0 m kg									294	*380		
9.8 ft lb									648	*838		
2.0 m kg									294	*360	219	344
6.6 ft lb									648	*794	483	758
1.0 m kg			373	602	271	433	208	332	164	265		
3.3 ft lb			822	1327	597	955	459	732	362	584		
Ground kg	510	*821	340	566	252	412	197	320	168	273		
line lb	1124	*1810	750	1248	556	908	434	705	370	602		
-1.0 m kg	518	897	339	566	250	411			213	347		
-3.3 ft lb	1142	1978	747	1248	551	906			470	765		

SY18C LIFTING CAPACITIES OF LOWER DOZER BLADE SY18C LIFTING CAPACITIES OF UPPER DOZER BLADE

 Load point height	Radius								Digging reach					
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal					
 	 	 	 	 										
3.0 m kg									*380	*380				
9.8 ft lb									*838	*838				
2.0 m kg									*360	*360	*368	*368		
6.6 ft lb									*794	*794	*811	*811		
1.0 m kg									*652	649	*501	468	*430	359
3.3 ft lb									*1437	1431	*1105	1032	*948	791
Ground line	kg	*821	*821	*858	613	*619	446	*487	348	*365	297			
	lb	*1810	*1810	*1892	1351	*1365	983	*1074	767	*805	655			
-1.0 m kg	*999	969	*766	612	*557	445					*430	376		
-3.3 ft lb	*2202	2136	*1689	1349	*1228	981					*948	829		

SY18C(Rubber track+Cab), Transport Weight:1905kg.

Item with "*" is limited by hydraulic pressure and item without "*" is limited by stability.

	Radius								Digging reach			
	1.5 m / 4.9 ft		2.0 m / 6.6 ft		2.5 m / 8.2 ft		3.0 m / 9.8 ft		Maximal			
Load point height												
3.0 m kg									266	*380		
9.8 ft lb									586	*838		
2.0 m kg									266	*360	198	*368
6.6 ft lb									586	*794	437	*811
1.0 m kg			333	649	244	468	187	359	148	288		
3.3 ft lb			734	1431	538	1032	412	791	326	635		
Ground kg	445	*821	302	613	225	446	176	348	151	297		
line lb	981	*1810	666	1351	496	983	388	767	333	655		
-1.0 m kg	452	969	301	612	224	445			191	376		
-3.3 ft lb	996	2136	664	1349	494	981			421	829		



EFFICIENT PERFORMANCE IN MINI FORMAT

Their extremely simple handling and flexible, precise operation make the mini-excavators a highly productive tool for every job. As lightweight machines with compact dimensions, they can also be transported quickly and easily to the place of use.

ROBUST AND DURABLE

The most important protective elements and reinforcements as well as all cladding parts are made of **robust metal**. **Robotic welded components** guarantee a long service life under all conditions.

EXTREMELY COMFORTABLE

Impressively simple thanks to the **joystick, which is easy to operate with high precision**, and the **clear display**.

NO COMPROMISE

In order to provide **the best possible protection for both people and machines**, devices such as cylinder guard plates are already integrated. It goes without saying that the platform is **ROPS or FOPS certified**.

LIGHTWEIGHT AND COMPACT

Chassis adjustable in width – from extremely narrow when manoeuvring to wide for the best possible stability.

ECONOMIC

The intelligent control system adapts the pump capacity to the respective demand for **greater efficiency and reduced fuel consumption**.

QUALITY AS STANDARD

High-quality components from brand manufacturers guarantee top performance and a high level of operational safety – also for the **extensive standard equipment**. For example, these include the auxiliary control circuit, LED lighting and even the radio on cab machines.

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
Swingspeed	10 rpm
Mainpump	Variable displacement axial piston pump
Max. oilflow	72 l/min



Not all products are available in all markets. As part of our continuous improvement process, we reserve the right to modify specifications and designs without giving prior notice. The figures may contain additional options.

SANY

Quality Changes the World

SANY HEAVY MACHINERY (UK) LTD
info@sanyuk.com
www.sanyuk.com

Amazingly well equipped for their size

Although the SY16C and SY18C are the smallest and lightest of the SANY mini excavators, they still have everything you need for efficient, precise work on board as standard.



OPERATORS COMFORT / CAB

Heater	●	●
Radio and speaker	●	●
Armrests (adjustable)	●	●
12v outlets	●	●
Wiper	●	●
Sprayer f. wiper	●	●
AUX 1 on Joystick	●	●
Removable front-window	●	●
Sky light	●	●

SAFETY

Battery master switch	●	●
Beaconlamp	●	●
Lockable hoods	●	●
lockable fuel cap	●	●

WORKING EQUIPMENT

Cylinder guards – boom	●	●
Hammer & Shear line proportional on Joystick with piping	●	●

WORKING LIGHTS

2 x Lights front (LED)	●	●
1 x Light boom (LED)	●	●

UNDERCARRIAGE

Telescopic thread	●	●
Rubber tracks	●	●
Steel tracks	opt.	opt.
Cylinder guards – dozer blade	●	●
Holes/loops for fixing	●	●

ENGINE

Diesel filter	●	●
Dehydr. For fuelsystem	●	●
Cage or storage for grease gun	●	●
Air filter guard	●	●

HYDRAULIC SYSTEM

2 speed travel	●	●
Piping for additional hydraulic function AUX 1	●	●
Hydr. Pre-pressure operating joysticks	●	●
Mainfilter	●	●

● SY16C ● SY18C

The standard and special options differ depending on the country in which the mini excavator is delivered. If you have any questions, please contact your dealer directly.

Parts supply – quick and reliable

With the purchase of a SANY mini excavator you have made an investment in the future. Fast availability of spare parts is your guarantee of minimal downtimes and failure times.



A SERVICE YOU CAN RELY ON

Just as we do with our excavators, 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.



The added benefits SANY offers you:

- ✚ Experienced dealer network throughout England, Wales, Northern Ireland and Ireland
- ✚ Direct sales and support route in Scotland
- ✚ Dedicated SANY team based in the UK to support you and your product
- ✚ UK office and parts warehouse to ensure SANY excavators are fully supported

* To locate your nearest dealer, visit <https://www.sanyuk.com>.

Detailed information in black and white

Handbooks and documents are available for all SANY mini excavators, and these can help you with operation, maintenance, servicing and repairs. These include operating and maintenance instructions and technical specifications.

