



# EFAFEGERAGES A COMPACT. POWERFUL. COMFORTABLE.

F SANY

# **CONSTRUCTION MACHINERY**



COMPACT EXCAVATORS

Engine YANMAR 4TNV98CT-VSY rated Power 53.7 kW / 2 100 rpm Bucket capacity 0.28 m<sup>3</sup> Operating mass 8800 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. This is why we give you not only our word, but also our extraordinary five-year warranty as a guarantee of how powerful and robust our products are.

# **320000** EXCAVATORS SOLD IN **10 YEARS**

5–7% TURNOVER FOR RESEARCH AND DEVELOPMENT

# FIVE-YEAR Warranty

Quality Changes the World

# HARD FACTS Max. bucket digging force 72.7 kN (ISO) Max. arm digging force 40.5 kN (ISO) Swingspeed 10 rpm Max. travel speed 4.5 km/h

# **SETTING THE BAR HIGH** FOR THE COMPACT CLASS

Its compact dimensions and minimal slewing radius make the SY80U it is an ideal choice for road and line construction, work on bridges, for short-tail-swing excavator the smallest SANY compact excavator there is. It is therefore in its element anywhere where precise power is needed in confined spaces and on construction sites with impaired visibility. With an efficient slewing radius of no more than 1 480 mm, cost-effectiveness thanks to low operating costs.



redevelopment in urban housing construction and in landscaping. This is where it can display its other strengths – its comprehensive standard features, good panoramic visibility and clarity for the driver and its high

# **TOP PROPERTIES**

#### QUALITY

For the greatest loads - particularly precise robot-manufactured welded seams guarantee durability even in the toughest conditions.

#### DIMENSIONS

Safe operation in the smallest of spaces the compact dimensions of the short-tail-swing machine allow for safe working and manoeuvring even in extremely confined places.

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#### **USER EXPERIENCE**

Maximum comfort, maximum productivity - with its ergonomic seating position on the suspended seat and various comfort features such as air-conditioning and convenient gear changing on the blade lever, the driver's cab has been designed with optimal user comfort in mind.

# DIMENSIONS MINIMAL **SLEWING** RADIUS, **MAXIMUM STABILITY**

Whether during large-scale loading work or work in confined spaces - the SANY SY80U short-tail-swing excavator can do its job optimally anywhere. With its minimal tail swing radius, and thanks to its compact, rounded short tail design, the driver can completely concentrate on their working area without having to watch out for the tail. In this way, the machine can work safely in the smallest of spaces or in the direct proximity of obstacles. This is perfect for tasks in inner-city areas or in landscaping. Safety has not been compromised here – even with its long digging reach and great dumping height, the SY80U remains reliably sturdy.

#### Our highlights - the added benefits SANY offers you:

- + Extremely compact short-tail-swing excavator
- + Comfortable driver's cab
- + Hydraulic pipework for quick coupler attachement
- + 2 prop. control circuits on the joystick
- + Gear switching on the blade lever



# SAFETY through safety

contact.

#### SAFETY

Safety first – comprehensive safety features as standard - from stable cylinder covers to lockable protective hoods to standard safety valves.

#### COMPONENTS

**Reliable power –** the tried-and-tested YANMAR 4-cylinder diesel engine is the centre piece of the powerhouse. The powerful transmission guarantees reliable performance for all tasks, even in harsh working conditions.

#### ECONOMY

Lower consumption means greater savings - this is especially the case for fuel consumption. The automatic speed setting ensures that the short-tail-swing excavator remains economical in the long-term even when delivering maximum performance.



# **Enhanced productivity**

From the ROPS- and FOPS-certified driver's cab to the wide field of vision for the operator to the standard safety valves and the lockable protective hood – the SY80U doesn't cut corners when it comes to safety. Right down to the smallest detail - even safety valves and cylinder covers are, as with the LED working lights, provided ex works as standard. This is also the case for maintenance and service – rotating or hot engine components are protected against inadvertent

# EFFICIENCY, COST-EFFECTIVENESS AND USER EXPERIENCE

#### USER EXPERIENCE

# **COMFORT ZONE DRIVER'S CAB**

The driver's seat with high seat backrest offers the driver a comfortable workplace, thereby reducing symptoms of fatigue to a minimum. The positioning of the controls is ergonomically designed – clear and easy to reach, they help to ensure that the driver can achieve maximum productivity while working.

The joysticks with 2 proportional control circuits are also part of the standard equipment and allow safe and precise control of the machine, including all attachment devices.

The ergonomic and handily placed control lever for the dozer blade now also has gear switching integrated, making adapting the machine to the work situation even easier and more effective.

# ECONOMY

#### Economical with every task

The "auto idle"- function ensures that fuel consumption is minimised. All without compromising the performance. The load-sensing hydraulic system delivers more hydraulic power with less loss. "With intuition" – the system regulates the flow rate and pressure as required.

#### ECONOMY Service-friendly in every regard

All important places for routine maintenance or checks are conveniently accessible from the ground. Lubrication points are combined in a meaningful and easily accessible way. This means that regular service work can be completed quickly and safely. This increases the availability and service life of the machines and ensures that operators and equipment are reliably protected in the long term.

The complete hydraulic preparation for the quick change mechanism ensures easy and cost-effective adaptation of the quick coupler.



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# COMPONENTS Designed for the long term

The standard LED working lights don't only illuminate the night like the day, but also counter the harsh conditions to which the SY80U is subject in its daily work.

The reliable YANMAR drive unit complies with the latest emission standards and is inconspicuously hidden in the tail of the machine. All important service points are easily accessible.

The electronic fan control ensures a minimal level of noise emissions and reduced fuel consumption.

Meticulous machining and robot-controlled welded seams, accurate to the millimetre, also contribute to this. This gives track shoes, connections, bottom rollers etc. their extremely long service life.



# Absolute reliability – for peace of mind!

SANY's five-year warranty\* gives you the assurance that you can fully count on your equipment.

\* With participating partners

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## ENGINE

Modell	YANMAR 4TNV98CT-VSY
Тур	Water-cooled, 4 cylinder, with commonrail and DPF
Exhaust emissions	Stage V
Rated power	53.7 kW / 2 100 rpm
Max. torque	290 Nm / 1 350 rpm
Displacement	3 318 ccm
Batteries	1 × 12 V / 120 Ah

## HYDRAULIC SYSTEM

Mainpump	variable-piston-pump; Load sensing control
Max. oilflow	193.2 l/min
Travelmotor	Variable displacement axial piston motor
Swingmotor	Axial piston motor
Max. oilflow (AUX 1)	100 l/min
Max. oilflow (AUX 2)	70 l/min

## SERVICE REFILL CAPACITIES

Fuel tank	100 I
Engine coolant	12 I
Engine oil	10,2 l
Drive (per side)	1,2
Hydraulic system	160 I
Hydraulic oil tank	120

### PERFORMANCE

Swingspeed	10 rpm
Max. travel speed	High 4.5 km/h, slow 2.5 km/h
Max. travel force	70 kN
Gradeability	35°
Bucket capacity	0.28 m <sup>3</sup>
Groundpressure	0.38 kg/cm <sup>2</sup>
Bucket digging force ISO	72.7 kN
Arm digging force ISO	40.5 kN

## RELIEF VALVE SETTINGS

Implement circuit	280 bar
Swing circuit	215 bar
Travle circuit	280 bar
Pilot pressure	35 bar

## UNDER AND UPPER STRUCTURE

Boom length	3520 mm
Arm length	2050 mm
Bottomrollers	4
Toprollers	1
Rotation device	Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

## **OPERATING MASS**

SY80U

8 800 kg

# LIFTING CAPACITIES - DOZER BLADE DOWN

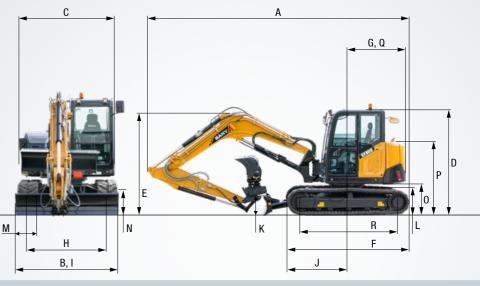
•	Radius				Dig	iging rea	ich
	3.0 m 4.0 m			5.0 m		Max.	
Load point heigh			5		⋽	]	mm
5.0 m kg		1960 1	960 180	0 1338	1710	1 325	5025
4.0 m kg		2080 2	080 208	5 1345	1 2 2 5	1055	5703
3.0 m kg	3100 310	0 2540 1	875 227	5 1315	1 585	930	6106
2.0 m kg	4745 267	5 3180 1	760 257	0 1260	1630	865	6297
1.0 m kg	4325 245	0 3745 1	650 284	5 1205	1750	855	6297
Ground line kg	4850 239	0 4020 1	590 299	5 1170	1965	885	6109
-1.0 m kg	5670 236	0 3950 1	550 293	5 1140	2370	995	5707
-2.0 m kg	4915 237	5 3490 1	550 244	5 1150	2400	1 185	5031
-3.0 m kg	3385 245	0			2290	1735	3899

## LIFTING CAPACITIES - DOZER BLADE UP

k		Radius	Digging rea	ich	
	3.0 m	4.0 m	5.0 m	Max.	
Load point heigh	>=₽ _	>-€			mm
5.0 m kg		1960 1960	1800 1338	1710 1325	5025
4.0 m kg		2080 2080	2085 1345	1225 1055	5703
3.0 m kg	3100 3100	2540 1875	1770 1315	1285 930	6106
2.0 m kg	3850 2675	2425 1760	1715 1260	1 185 865	6297
1.0 m kg	3595 2450	2305 1650	1655 1205	1 170 855	6297
Ground line kg	3525 2390	2240 1590	1615 1170	1 215 885	6109
-1.0 m kg	3490 2360	2195 1550	1585 1140	1 360 995	5707
-2.0 m kg	3510 2375	1550 1550	1600 1150	1630 1185	5031
-3.0 m kg	3385 2450			2290 1735	3899

## DIMENSIONS (TRANSPORT)

ransport length ransport width pperstructure carriage leight over cabin/ROPS leight of Boom – transport verall length of crawler ail length rack gauge Indercarriage width (blade) lorizontal distance to blade	6 500 mm 2 220 mm 2 150 mm 2 550 mm 2 220 mm 2 915 mm 1 480 mm 1 750 mm 2 200 mm
pperstructure carriage leight over cabin/ROPS leight of Boom – transport lverall length of crawler ail length rack gauge Indercarriage width (blade)	2 150 mm 2 550 mm 2 220 mm 2 915 mm 1 480 mm 1 750 mm
leight over cabin/ROPS leight of Boom – transport iverall length of crawler ail length rack gauge Indercarriage width (blade)	2550 mm 2220 mm 2915 mm 1 480 mm 1 750 mm
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rack gauge Indercarriage width (blade)	1 750 mm
ndercarriage width (blade)	
• • • •	2200 mm
orizontal distance to blade	
UNIZUMAN UISTAMUE LO DIAUE	2080 mm
lade height	2080 mm
rack height	660 mm
rack pads width	450 mm
1in. ground clearance	365 mm
ounterweigth clearance	745 mm
ngine cover height	1 880 mm
ail swing radius	1 480 mm
enter distance of tumblers	2315 mm
	lin. ground clearance ounterweigth clearance ngine cover height ail swing radius



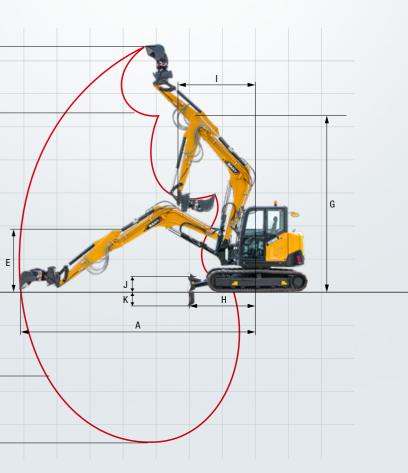
# WORKING AREA

A	Max. digging reach	7 290 mm
В	Max. digging depth	4535 mm
С	Max. digging height	7315 mm
D	Max. dumping height	5430 mm
E	Min. dumping height	1915 mm
F	Max. vertical digging depth	2490 mm
G	Overall height over arm by min. swing radius	5490 mm
Η	Arm head distance with work equipment retracted as far as possible	2080 mm
I	Swing radius by max. boomswing (L) Swing radius by max. boomswing (R) Min. swing radius	4510 mm 4670 mm 2435 mm
J	Max. clearance when blade up	480 mm
K	Max. depth of blade down	325 mm
L	Offset boom (L) Offset boom (R)	636 mm 740 mm
	Max. boom-swing angle (L) Max. boom-swing angle (R)	65° 51°

D







# EQUIPMENT



## **Enormous versatility**

Many components that allow flexible use are already included as standard ex works. The attachment of the hydraulic quick coupler is already prepared for.

#### **OPERATORS COMFORT / CABINE**

#### Suspension seat Heater Manual air condition system Radio and speaker Armrests (adjustable) • 12v outlets USB port (music) Wiper AUX 1 on Joystick

#### SAFETY

AUX 2 on Joystick

Battery master switch	•
Travel Alarm	•
Warning beacon	•
Camera	•

#### WORKING EQUIPMENT

8 stored hydraulic settings for attachments

Boom and arm load holding valves with overload indicator	•
Double acting circuit for hydraulic quick coupler with piping	•
Breaker&Shear line proportional on Joystick with piping	•
Rotation line proportional on Joystick with piping	•
Flow adjustment for attachments	•
Dozer blade	•
Cylinder guards – boom	•

# WORKING LIGHTS

Lights – front (LED)	•
Lights – boom (LED)	•
UNDERCARRIAGE	
Rubber tracks	•
Steel tracks	•
Holes/loops for fixing	•
ENGINE	
Auto idle	•
Diesel filter	•
DPF	•
DOC	
Airfilter	•

## HYDRAULIC SYSTEM

Swing brake	•
2 speed travel	•
Piping for additional hydraulic function AUX 1	•
Piping for additional hydraulic function AUX 2	•
Mainfilter	•
Hydr. Pre-pressure operating joysticks	•
Filter for pre-pressure circle	•

# **A SERVICE YOU CAN RELY ON**

Just as we do with our excavators, we also demand high quality for efficiency, cost-effectiveness and safety. Your SANY dealer is and reliability of our service products. This underlines our happy to help you with a comprehensive range of services to equipment's performance in terms of their durability and their ensure that your machine continues operating efficiently in the excellent price-performance ratio. After all, maintenance is crucial 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.

GERMANY

Cologne

#### Detailed information in black and white

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

Standard equipment • Special option •

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

### Parts supply quick and reliable

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



# SANY SERVICE



#### The added benefits SANY offers you:

- + Fast supply thanks to the central warehouse near Cologne
- + More than 15,000 spare parts to make your machine highly reliable
- + Expert knowledge for optimal supply for your machine
- + Thanks to SANY's special training programme, our dealers are always kept up-to-date so that they can face all technical challenges.

# HIGHLIGHTS **SY80U**

# **A TRUE WORKHORS**

The SY80U short-tail-swing excavator is tailored to the requirements of tough everyday use on the construction site. It demonstrates its impressive versatility when digging, loading and crushing – and its agility is evident, thanks to its swivelling boom and the short tail concept. Aside from its compact design, it impresses with its first-class performance, its low fuel consumption and its outstanding user comfort.

#### FOR THE GREATEST LOADS

All components are designed to withstand high stress. The meticulous machining, high-quality materials and welded seams perfectly executed by welding robots are guarantees for this.

#### IN THE SMALLEST OF SPACES

The **robust swivel bracket** is the most important aspect for all tasks. It makes the **compact manoeuvrability** of the shorttail-swing excavator possible, together with the **compact total dimensions** and the **minimal slewing radius**.

#### MAINTENANCE AND SERVICE

Full concentration and **maximum safety** are the first priorities on the construction site. For this purpose, the SY80U driver's cab offers the best conditions for the machine operator – from the **comfortable driver's seat** to the **large, easily legible monitor** and the **precise joystick** with fine response characteristics.

#### **SAFETY FIRST**

We have taken the full range of measures to minimise the risk to drivers in the cab and people on the construction site in the vicinity of the machine. This includes **optimal visibility on all sides**, as well as **LED working lights**, **safety valves** and **cylinder covers**.

#### **RELIABLE POWER**

With the **strong YANMAR engine**, the smallest SANY compact excavator is optimally equipped even **for large tasks**.

#### LESS IS MORE

The **automatic speed setting** reduces the fuel consumption, engine wear and exhaust gas emissions (Euro 5 standard). This is positively reflected in its **low fuel consumption** and exemplary **low life cycle costs**.

#### **TECHNICAL HIGHLIGHTS**

Engine	YANMAR 4TNV98CT-VSY
Rated power	53.7 kW / 2100 rpm
Max. torque	290 Nm / 1 350 rpm
Bucket digging force ISO	72.7 kN
Swingspeed	10 rpm
Mainpump	Variable-piston-pump
Max. oilflow	193.2 I/min



"AN 8-TONNE MACHINE THAT IS STRONG, EFFICIENT AND ABSOLUTELY PRECISE IN ITS CONTROL."

Fusini, Gilbert (Managing Director) - SARL Louis Fusni et fils

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.



Quality Changes the World

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