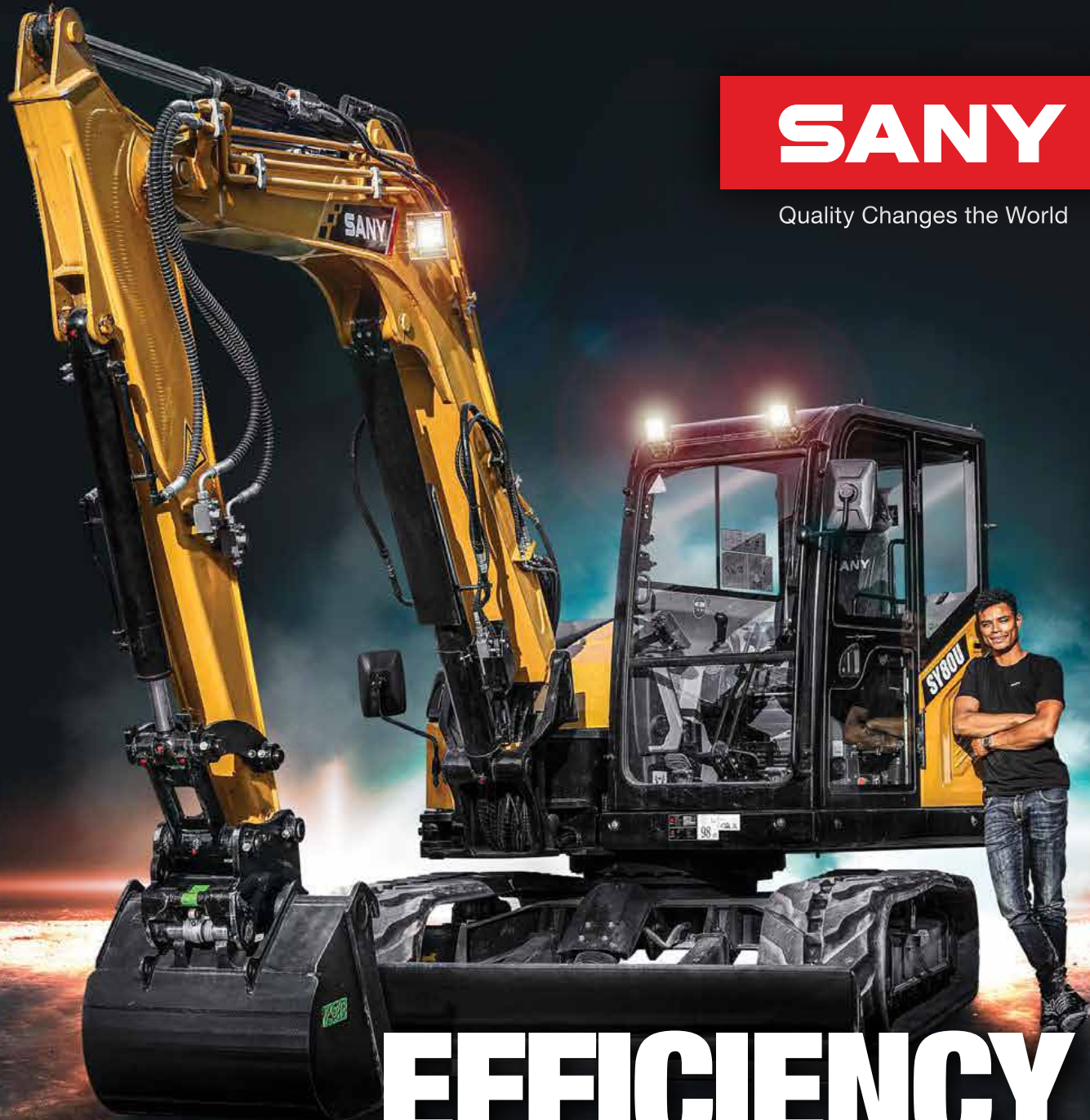


SY80U

SANY

Quality Changes the World



EFFICIENCY IN THE SMALLEST OF SPACES

COMPACT. POWERFUL. COMFORTABLE.

CONSTRUCTION MACHINERY



COMPACT EXCAVATORS
SY80U

Engine
YANMAR 4TNV98CT-VSY
rated Power
53.7 kW / 2 100 rpm
Bucket capacity
0.28 m³
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.

320 000

EXCAVATORS SOLD IN
10 YEARS

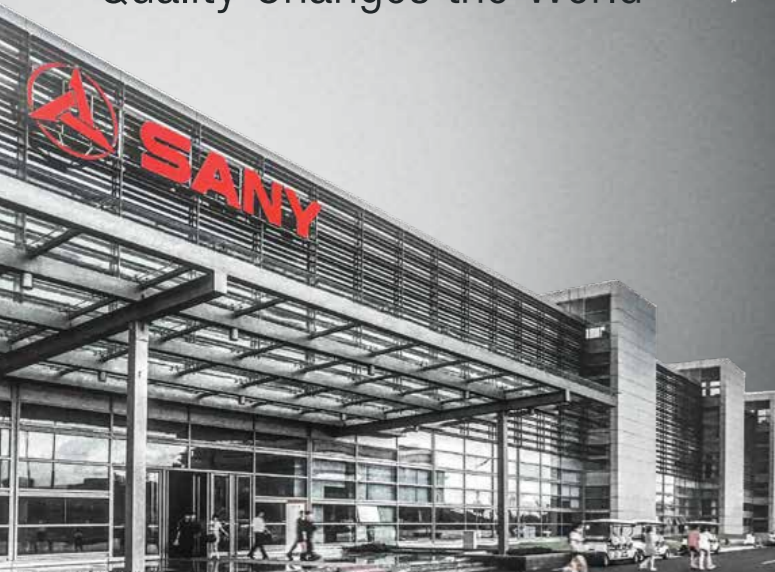
5–7%

TURNOVER FOR RESEARCH
AND DEVELOPMENT

FIVE-YEAR WARRANTY*

Quality Changes the World

* Applicable in certain markets, please check with your local dealer.



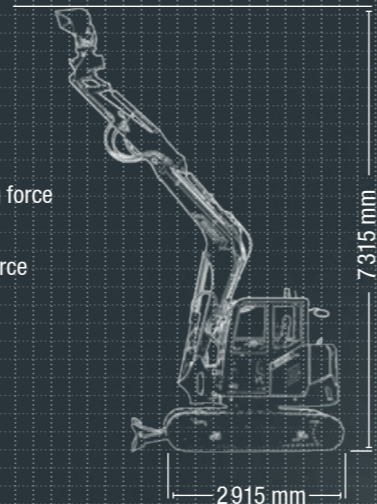
SY80U HARD FACTS

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



SY80U Pro - Next-Generation 8Ton Short Tail Excavator

The SY80U Pro represents the latest evolution in 8ton short tail excavators, designed to meet global market demands while fully complying with T4F/EU V emission standards. Engineered for precision and efficiency, it excels in urban municipal projects, road maintenance, hillside forestry paths, and other operations in tight or confined spaces.

With a focus on exceptional performance and high efficiency, the SY80U Pro also offers a range of optional configurations, allowing customisation to suit diverse international applications and specific customer requirements.



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.

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.

**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.

DIMENSIONS

MINIMAL SLEWING RADIUS, MAXIMUM STABILITY

The SANY SY80U short-tail excavator delivers optimal performance in any environment. Its compact, rounded short-tail design and minimal swing radius allow the operator to focus entirely on the task at hand without worrying about the tail. This makes it ideal for working safely in tight spaces or close to obstacles - perfect for urban projects or landscaping. Despite its long digging reach and impressive dumping height, the SY80U remains exceptionally stable, ensuring safety is never compromised.



Our highlights – the added benefits SANY offers you:

- + Extremely compact short-tail-swing excavator
- + Brand new updated driver's cab
- + Hydraulic pipework for quick coupler attachment
- + 2 prop. control circuits on the joystick
- + LED working lights
- + Gear switching on the blade lever

**SAFETY**

Enhanced productivity through safety

From the ROPS- and FOPS-certified operator's cab to the expansive field of vision, the SY80U prioritizes safety at every level. Standard features such as safety valves, a lockable protective hood, LED working lights, and the new rearview safety camera come straight from the factory, leaving nothing to chance. Even maintenance and service are designed with protection in mind – rotating or hot engine components are safeguarded against accidental contact, ensuring both operator and machine are reliably protected.



USER EXPERIENCE

COMFORT ZONE DRIVER'S CAB

The new generation SY80U cabin has been completely redesigned to enhance operator comfort, convenience, and control. The refreshed interior features stylish air conditioning vents, left and right armrest boxes, and retractable seat belts, creating a modern and ergonomic environment. A triangular window on the right side improves front-right visibility, helping operators work safely in tight spaces. On the electrical side, the SY80U now includes a one-touch start switch with integrated throttle knob function, a USB charger, and a rear camera to meet diverse customer needs. The display has been upgraded to a 7-inch touch screen that integrates radio and air conditioning controls while supporting the switching of up to 20 different attachments, making intelligent touch operation more seamless. Additionally, the layout and wiring harness have been optimized, and dual 80Ah batteries in parallel improve cold-start performance in low-temperature environments, ensuring reliable operation in all conditions.



ECONOMY

Economical with every task

The "Auto Idle" feature keeps fuel consumption to a minimum—without ever compromising performance. The load-sensing hydraulics deliver maximum power with minimal loss, automatically adjusting flow and pressure exactly when and where it's needed.

Absolute reliability – for peace of mind!

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

* Key component warranty



ECONOMY

Service-friendly in every regard

The new SY80U has been designed with maintenance, durability, and operational efficiency in mind. All key points for routine checks and servicing are easily accessible from the ground, with lubrication points thoughtfully grouped for quick and safe servicing. This streamlined design increases machine availability, extends service life, and ensures both operators and equipment are well-protected over the long term. The hydraulic system has also received adaptive upgrades, including a floating function for the dozer blade, an added oil drain line, and an optimized S-shaped routing between the boom and arm. This routing keeps hydraulic hoses protected from scratches and impacts while maintaining a clean, aesthetic appearance. Additionally, the SY80U comes fully prepared for a quick-change mechanism, making adaptation of the quick coupler simple, cost-effective, and efficient.



COMPONENTS

Designed for the long term

The standard LED working lights not only illuminate the night as if it were day but are also built to withstand the tough conditions the SY80U faces every day.

The reliable YANMAR engine meets the latest emission standards and is discreetly integrated into the machine's tail, with all key service points easily accessible. Intelligent electronic fan control keeps noise levels low while reducing fuel consumption.

Precision machining and robot-controlled welded seams, accurate to the millimetre, enhance durability, giving track shoes, connections, bottom rollers, and other components an exceptionally long service life.



ENGINE

Modell	YANMAR 4TNV98CT-VSY
Typ	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 l
Engine coolant	12 l
Engine oil	10.2 l
Drive (per side)	1.2 l
Hydraulic system	160 l
Hydraulic oil tank	120 l

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 m³
Groundpressure	0.38 kg/cm²
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	3 520 mm
Arm length	2 050 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
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LIFTING CAPACITIES - DOZER BLADE DOWN

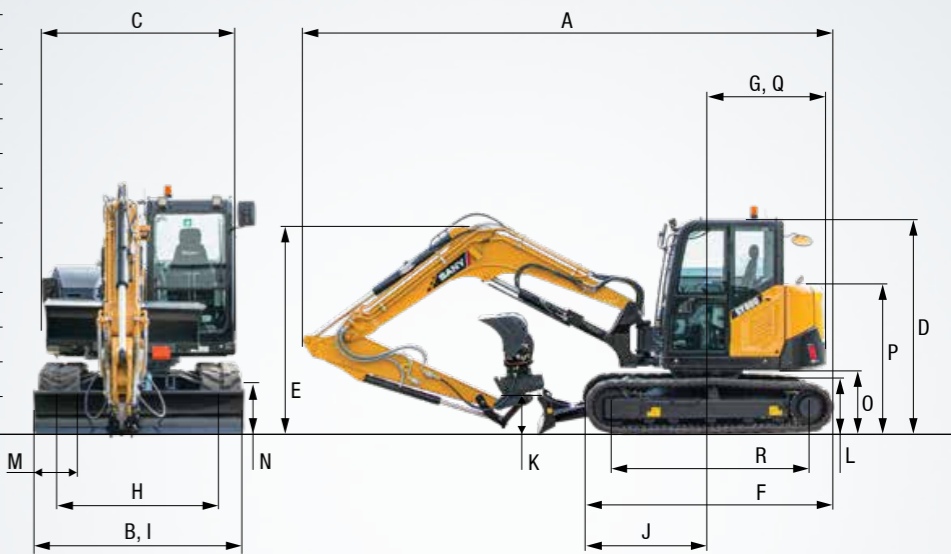
Load point heigh	Radius						Digging reach		
	3.0 m	4.0 m	5.0 m	Max.			mm		
5.0 m kg	1 960		1 960	1 800	1 338		1 710	1 325	5 025
4.0 m kg	2 080		2 080	2 085	1 345		1 225	1 055	5 703
3.0 m kg	3 100	3 100	2 540	1 875	2 275	1 315	1 585	930	6 106
2.0 m kg	4 745	2 675	3 180	1 760	2 570	1 260	1 630	865	6 297
1.0 m kg	4 325	2 450	3 745	1 650	2 845	1 205	1 750	855	6 297
Ground line kg	4 850	2 390	4 020	1 590	2 995	1 170	1 965	885	6 109
-1.0 m kg	5 670	2 360	3 950	1 550	2 935	1 140	2 370	995	5 707
-2.0 m kg	4 915	2 375	3 490	1 550	2 445	1 150	2 400	1 185	5 031
-3.0 m kg	3 385	2 450					2 290	1 735	3 899

LIFTING CAPACITIES - DOZER BLADE UP

Load point heigh	Radius						Digging reach		
	3.0 m	4.0 m	5.0 m	Max.			mm		
5.0 m kg	1 960		1 960	1 800	1 338		1 710	1 325	5 025
4.0 m kg	2 080		2 080	2 085	1 345		1 225	1 055	5 703
3.0 m kg	3 100	3 100	2 540	1 875	1 770	1 315	1 285	930	6 106
2.0 m kg	3 850	2 675	2 425	1 760	1 715	1 260	1 185	865	6 297
1.0 m kg	3 595	2 450	2 305	1 650	1 655	1 205	1 170	855	6 297
Ground line kg	3 525	2 390	2 240	1 590	1 615	1 170	1 215	885	6 109
-1.0 m kg	3 490	2 360	2 195	1 550	1 585	1 140	1 360	995	5 707
-2.0 m kg	3 510	2 375	1 550	1 550	1 600	1 150	1 630	1 185	5 031
-3.0 m kg	3 385	2 450					2 290	1 735	3 899

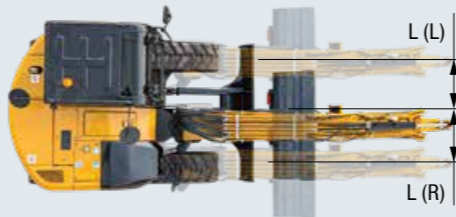
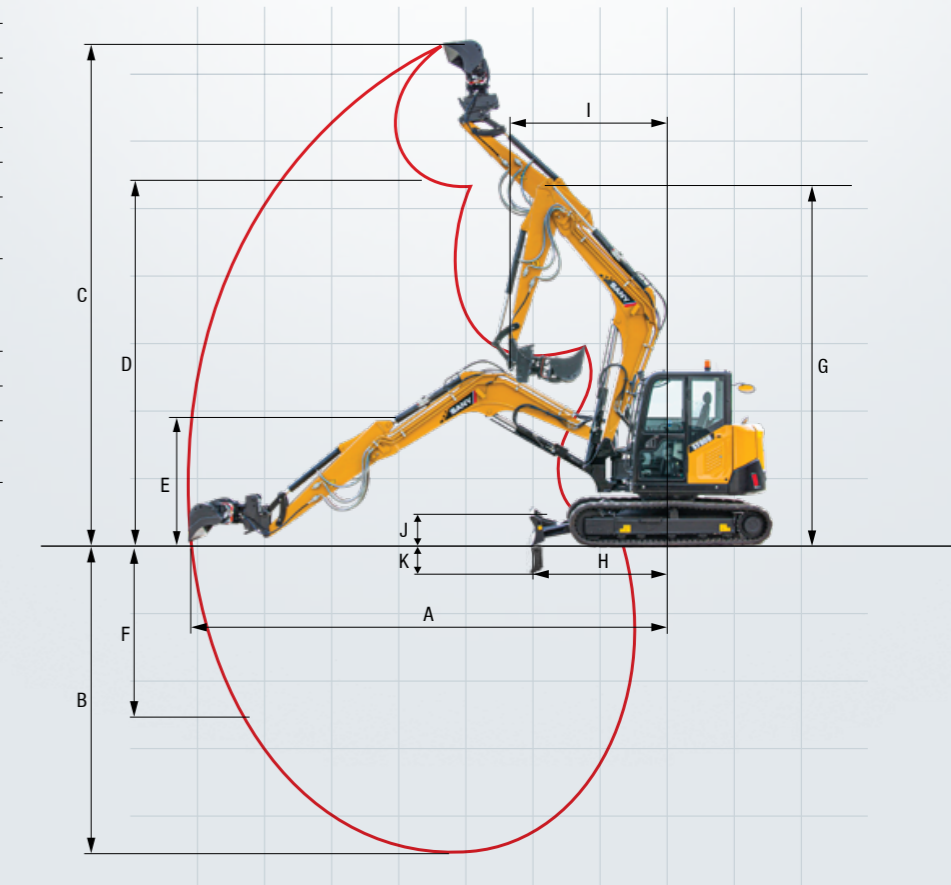
DIMENSIONS (TRANSPORT)

A	Transport length	6 500 mm
B	Transport width	2 220 mm
C	Upperstructure carriage	2 150 mm
D	Height over cabin/ROPS	2 550 mm
E	Height of Boom – transport	2 220 mm
F	Overall length of crawler	2 915 mm
G	Tail length	1 480 mm
H	Track gauge	1 750 mm
I	Undercarriage width (blade)	2 200 mm
J	Horizontal distance to blade	2 080 mm
K	Blade height	450 mm
L	Track height	660 mm
M	Track pads width	450 mm
N	Min. ground clearance	365 mm
O	Counterweigh clearance	745 mm
P	Engine cover height	1 880 mm
Q	Tail swing radius	1 480 mm
R	Center distance of tumblers	2 315 mm



WORKING AREA

A	Max. digging reach	7 290 mm
B	Max. digging depth	4 535 mm
C	Max. digging height	7 315 mm
D	Max. dumping height	5 430 mm
E	Min. dumping height	1 915 mm
F	Max. vertical digging depth	2 490 mm
G	Overall height over arm by min. swing radius	5 490 mm
H	Arm head distance with work equipment retracted as far as possible	2 080 mm
I	Swing radius by max. boomswing (L)	4 510 mm
	Swing radius by max. boomswing (R)	4 670 mm
	Min. swing radius	2 435 mm
J	Max. clearance when blade up	480 mm
K	Max. depth of blade down	325 mm
L	Offset boom (L)	636 mm
	Offset boom (R)	740 mm
	Max. boom-swing angle (L)	65°
	Max. boom-swing angle (R)	51°





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 / CABIN

Mechanical suspension seat	●
Heater	●
Air condition system	●
Bluetooth/USB/Start-stop switch/Key pad	●
Armrests (adjustable)	●
12v outlets	●
Touch screen/Controller	●
Wiper	●
AUX 1 on Joystick	●
AUX 2 on Joystick	●
20 stored hydraulic settings for attachments	●

SAFETY

Battery master switch	●
Travel Alarm	●
Warning beacon	●
Rearview Camera	●

WORKING EQUIPMENT

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 with float function	●
Cylinder guards – boom	●

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.

WORKING LIGHTS

Lights – front (LED)	●
Lights – boom (LED)	●

UNDERCARRIAGE

Rubber tracks	●
Steel tracks	●
Holes/loops for fixing	●

ENGINE

Auto idle	●
Ground level E-stop	●
DPF	●
DOC	●
Air filter	●

HYDRAULIC SYSTEM

Swing brake	●
2 speed travel	●
Piping for additional hydraulic function AUX 1	●
Piping for additional hydraulic function AUX 2	●
Main filter	●
Hydr. Pre-pressure operating joysticks	●
Filter for pre-pressure circle	●
Pressure relief valve	●

A SERVICE YOU CAN RELY ON

In the event of a breakdown during your warranty period, Vertu will come to your site as soon as possible to get your machine back up and running.

National Service Representation

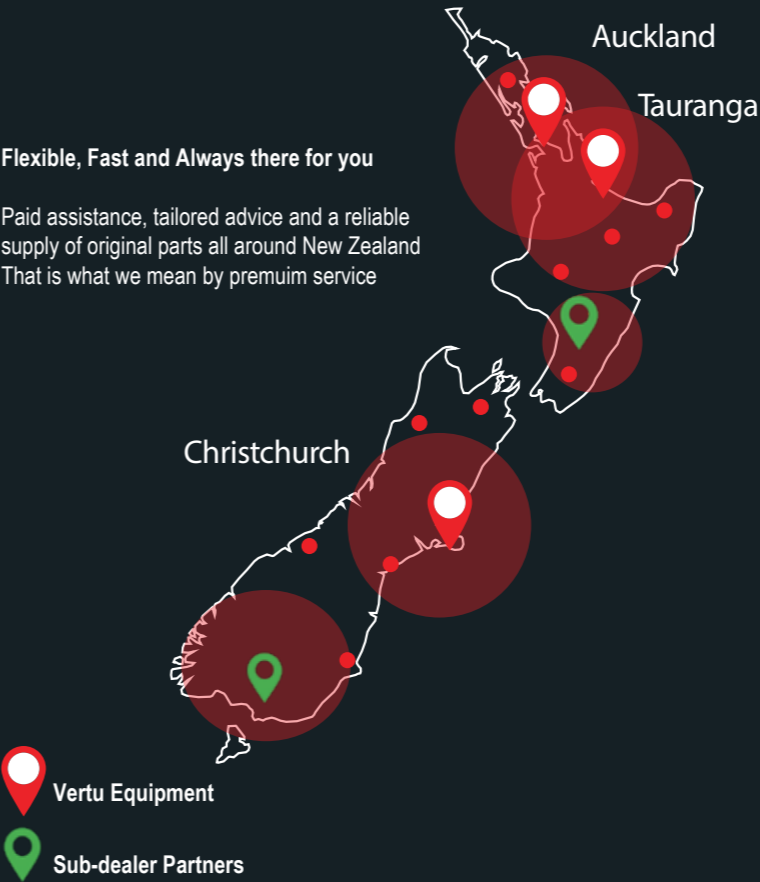
Our national service network partnerships provide certainty that you are supported with service and parts, wherever you are located.

Parts and Inventory

As the dealer of SANY excavators, roading and construction equipment Vertu holds a significant inventory of SANY Genuine and aftermarket parts and attachments, both in New Zealand and Australia to keep you going. With direct relationships locally and internationally we can source parts quickly and as a matter of priority.

Flexible, Fast and Always there for you

Paid assistance, tailored advice and a reliable supply of original parts all around New Zealand That is what we mean by premium service



The added benefits SANY offers you:

- + Fast supply thanks to SANY Oceania parts hub
- + 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 technicians are always kept up-to-date so that they can face all technical challenges.

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.



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.



A TRUE WORKHORSE

The next generation of 8ton short-tail excavators designed to deliver outstanding performance, versatility, and efficiency in urban construction, road maintenance, hillside forestry, and confined-space operations. Built with operator comfort, safety, and convenience in mind, the SY80U Pro features a modern, ergonomic cabin, advanced hydraulic and electrical systems, and simplified maintenance access, ensuring reliable performance day in and day out. With intelligent controls, enhanced visibility, and adaptive upgrades based on global operator feedback, the SY80U Pro sets a new standard for productivity, durability, and ease of use in its class.



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 short-tail-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 / 2 100 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 l/min



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

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.



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**MACHINERY
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