

SY500H

**MACHINERY
SPECIALISTS
LIMITED**

SANY



HIGH PERFORMANCE

PRODUCTIVITY. SAFETY. PROFITABILITY.

CONSTRUCTION MACHINERY



**CRAWLER EXCAVATOR
SY500H**

Engine
ISUZU 6WG1XDHAG-03-C3
Power
300 kW / 1 800 rpm
Bucket capacity
2.5 m³
Operating weight
49 500 kg

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



SY500H

SY500H TECHNICAL DATA

| | |
|--------------------------------------|--------------|
| Max. breakout force of the bucket | 287 kN (ISO) |
| Max. pulling force of the arm | 245 kN (ISO) |
| Rotational speed | 8 rpm |
| Maximum travelling speed | 5,4 km/h |

HIGH ACTIVITY

The SANY SY500H has been developed to tackle demanding tasks quickly and safely. It is perfect for locations where a lot of material needs to be moved in a short time. Thanks to its balance of power and precision, it is exactly the right workhorse for cost-oriented use on construction sites. On all major construction sites, it guarantees that extensive earthworks can be carried out cost-effectively in a short time. It is perfectly equipped for demanding use in harsh environments, with a stable undercarriage, high stability in all components and a powerful drive.

KEY FEATURES

CONSTRUCTION

HIGH RESISTANCE

Whether it's quarrying or gravel extraction, when it comes to moving large quantities of material, machines are subjected to extreme stress. As a robust powerhouse, the SY500H meets all expectations in terms of quality and durability. For example, with high-quality steel, whose precise computer-controlled weld seams are meticulously monitored. Or with safety valves that you can rely on 100% in an emergency.

SY500H

DIMENSIONS

Better support, more transmissible power

The SY500H has an extremely stable and robust frame. Its large support surface provides the basis for the operator to work safely and precisely, even on uneven ground, and offers the best support properties, enabling optimum use of power.



COMPONENTS

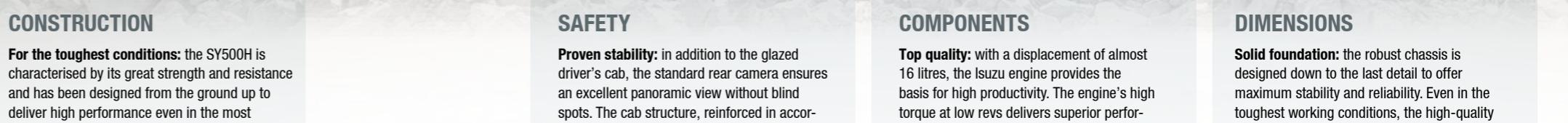
Maximum power, maximum productivity

The high-volume Isuzu engine delivers the desired performance at all times. This saves time and money on the job site. And the perfect coordination of the hydraulic system, engine and equipment ensures the highest level of fuel efficiency and productivity.



CONSTRUCTION

For the toughest conditions: the SY500H is characterised by its great strength and resistance and has been designed from the ground up to deliver high performance even in the most adverse conditions. And all this for the long term.



SAFETY

Proven stability: in addition to the glazed driver's cab, the standard rear camera ensures an excellent panoramic view without blind spots. The cab structure, reinforced in accordance with ROPS/FOPS specifications, guarantees a safe working environment for the machine operator.

COMPONENTS

Top quality: with a displacement of almost 16 litres, the Isuzu engine provides the basis for high productivity. The engine's high torque at low revs delivers superior performance and guarantees lower fuel consumption.

DIMENSIONS

Solid foundation: the robust chassis is designed down to the last detail to offer maximum stability and reliability. Even in the toughest working conditions, the high-quality structure guarantees continuous operating times and a long service life.

EASE OF USE

ERGONOMIC CAB AS A PRODUCTIVITY FACTOR

The driver's cab receives special attention in the SY500H. It combines safety and ergonomic factors with the aim of providing the driver with the best conditions for pleasant and fatigue-free work. The focus is on the comfortable heated driver's seat with air suspension, comfortable backrest and easily accessible controls.

Joystick control allows for precise operation in any situation, and the large display clearly summarises all important parameters. The powerful heating system and automatic air conditioning ensure the best possible temperature. It is also equipped as standard with: radio and 12 V socket, plenty of storage space and storage compartments.



EASE OF USE

Large valve and much more besides

Service and maintenance are essential for maintaining performance and productivity. But that doesn't mean you have to spend a lot of time on these tasks. That's why the powerful engine of the SY500H is easily accessible under the large engine bonnet in the superstructure. Here, all the important engine parts for maintenance and service can

be accessed quickly and safely. The other components that need to be checked and serviced regularly are easily accessible through large maintenance covers. This makes maintenance and servicing quick and easy, saves operating costs and increases machine availability.

PROFITABILITY

Productivity at the touch of a button

Preselectable working modes make it easy to achieve an optimum balance between performance and fuel economy. And this for every task. This prevents a reduction in engine speed and thus performance, as well as uneconomical high engine speeds. It ensures faster and more efficient work. And it protects components and thus extends service life.



Our key features.
The advantages of SANY Plus:

- ✚ Comfortable cab
- ✚ Comprehensive safety package, including camera
- ✚ Driver's seat with air suspension
- ✚ Powerful, high-volume engine
- ✚ Automatic heating and air conditioning

PROFITABILITY

GREATER POWER OF MOTION

You can rely on the water-cooled six-cylinder engine with common rail injection in every respect, not only in terms of reliability and power, but also in terms of fuel consumption. Reduced fuel consumption thanks to the latest SCR exhaust technology not only lowers operating costs but also reduces emissions. The two axial piston control pumps ensure a maximum oil flow of twice 360 litres per minute. The hydraulic pump capacity always automatically adapts to the energy actually required.



MOTOR

| | |
|--------------------|--|
| Model | ISUZU 6WG1XDHAG-03-C3 |
| Type | Water-cooled, 6 cylinders, common rail |
| Emission standards | Stage III |
| Power | 300 kW / 1800 rpm |
| Maximum torque | 1932 Nm / 1400 rpm |
| Displacement | 15 681 cc |
| Batteries | 2 x 12 V / 200 Ah |

HYDRAULIC SYSTEM

| | |
|---------------|---|
| Main pump | 2 x axial piston pump with electronic control |
| Max. oil flow | 2 x 360 l/min |
| Drive | Variable axial piston motor |
| Swivel motor | Axial piston motor |

PRESSURE RELIEF VALVES

| | |
|---------------------|---------|
| Boom circuit | 343 bar |
| Power amplifier | 373 bar |
| Swing circuit | 269 bar |
| Travel circuit | 343 bar |
| Pre-control circuit | 39 bar |

SERVICE FILLING QUANTITIES

| | |
|-------------------------|--------|
| Fuel tank | 680 l |
| Engine coolant | 28.6 l |
| Engine oil | 50 l |
| Travel drive (per side) | 15 l |
| Hydraulic system | 46.3 l |
| Hydraulic oil tank | 480 l |

POWER

| | |
|---------------------------|------------------------------|
| Rotation speed | 8 rpm |
| Maximum travel speed | Fast 5.4 km/h, slow 3.1 km/h |
| Maximum traction force | 339 kN |
| Bucket capacity | 2.5 m ³ |
| Ground pressure | 0.753 kg/cm ² |
| Climbing ability | 35° |
| ISO bucket breakout force | 287 kN |
| ISO arm traction force | 245 kN |

LOWER AND UPPER BODY

| | |
|-----------------|---|
| Boom length | 7 000 mm |
| Arm length | 3 000 mm |
| Roller | 9 |
| Support rollers | 2 |
| Swivel system | Planetary gear driven by axial piston motor, hydraulically operated automatic parking brake |

OPERATING WEIGHT

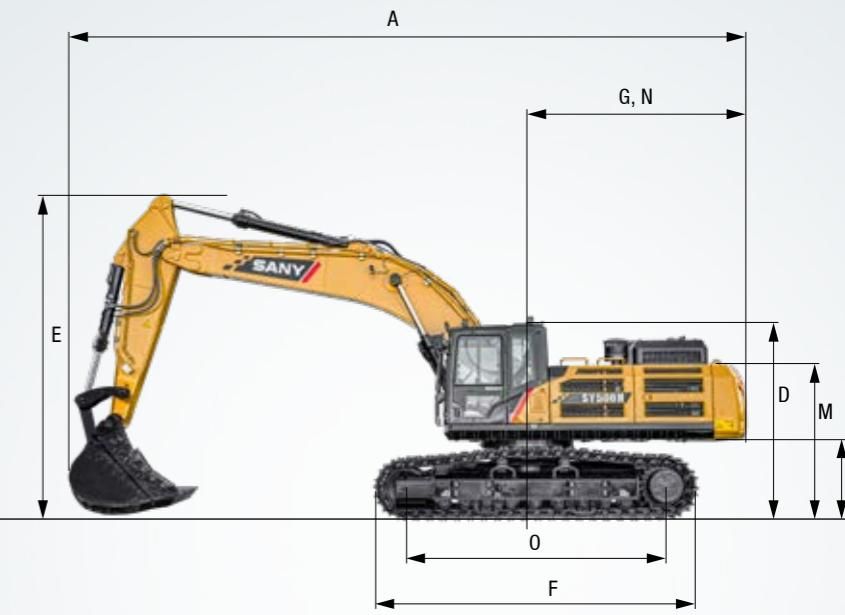
SY500H

52500 kg



DIMENSIONS

| | | |
|---|---|-----------|
| A | Overall length | 12 280 mm |
| B | Overall width | 3 470 mm |
| C | Overall width of upper body | 3 292 mm |
| D | Overall height of cab | 3 476 mm |
| E | Overall height of boom | 3 850 mm |
| F | Total length of lower body | 5 440 mm |
| G | Rear length | 3 765 mm |
| H | Wheelbase | 2 740 mm |
| I | Chain height | 1 220 mm |
| J | Chain plate width | 600 mm |
| K | Min. ground clearance | 560 mm |
| L | Rear weight ground clearance | 1 355 mm |
| M | Bonnet height | 2 995 mm |
| N | Rear turning radius | 3 765 mm |
| O | Distance (centre) between sprocket and steering wheel | 4 415 mm |

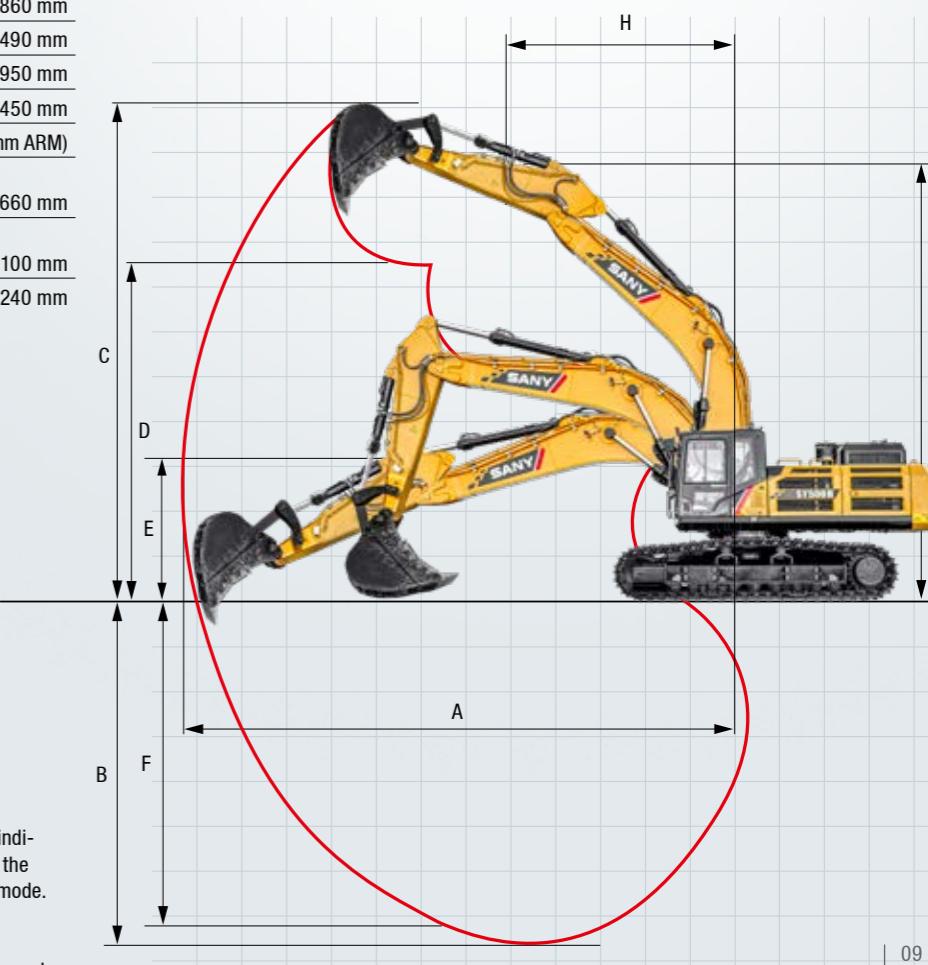


LOAD CAPACITIES

| Loading point height | Radius | | | | |
|----------------------|--------|--------|--------|--------|--------|
| | 3.0m | 4.5m | 6.0m | 7.5m | 9m |
| 6.0m kg | | | 11 055 | 11 055 | 10 587 |
| 4.5m kg | 18 642 | 18 642 | 14 279 | 14 279 | 12 192 |
| 3.0m kg | 23 570 | 19 988 | 16 675 | 16 435 | 13 511 |
| 1.5m kg | 16 257 | 16 257 | 18 626 | 12 724 | 14 705 |
| Floorline kg | 20 366 | 20 366 | 19 732 | 12 327 | 15 515 |
| -1.5m kg | 15 054 | 15 054 | 26 578 | 18 598 | 19 928 |
| -3.0m kg | 25 395 | 25 395 | 24 999 | 18 849 | 19 161 |
| -4.5m kg | 29 297 | 29 297 | 22 004 | 22 004 | 17 031 |

WORK AREA

| | | |
|---|--|-------------------------|
| A | Maximum reach | 11 860 mm |
| B | Maximum digging depth | 7 490 mm |
| C | Maximum cutting height | 10 950 mm |
| D | Maximum dumping height | 7 450 mm |
| E | Minimum dumping height | 2 833 mm (3 350 mm ARM) |
| F | Maximum digging depth, vertical wall | 5 660 mm |
| G | Total height with minimum turning radius | 9 100 mm |
| H | Minimum turning radius | 5 240 mm |



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.

The photos and illustrations are for illustrative purposes only. For information on available options, please contact us.



SY500H

Full force

The SY500H not only impresses with its performance. It also demonstrates its superiority in terms of equipment. Everything you would expect from a 50-tonne excavator comes as standard.

EASY TO OPERATE / CAB

| | |
|---|---|
| Heating | ● |
| Automatic climate control | ● |
| Radio with loudspeaker | ● |
| Adjustable armrests | ● |
| Seat with air suspension | ● |
| Heated seat | ● |
| Windscreen wipers | ● |
| Windscreen washer system | ● |
| Additional control circuit 1 on control lever | ● |
| Additional control circuit 2 on control lever | ● |
| Removable front window | ● |
| Sunroof | ● |
| Integrated cooling compartment | ● |

WORK EQUIPMENT

| | |
|--|---|
| Safety valve on boom and arm with overload indicator | ● |
| Double-acting hydraulic circuit for quick coupling incl. hose system | ● |
| Hammer installation | ● |
| Attachment installation | ● |
| Adjustable oil flow for accessories | ● |

LOWER BODY

| | |
|-----------------|---|
| 600 steel chain | ● |
| Fastening rings | ● |

Standard equipment ● Special option ●

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* The air conditioning contains fluorinated greenhouse gases: Refrigerant type: HFC-134a, Global warming potential: 1,430, Quantity: 0.625 kg, CO2e: 0.89 t

**Parts supply:
fast and reliable**

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

**A SERVICE YOU CAN RELY ON**

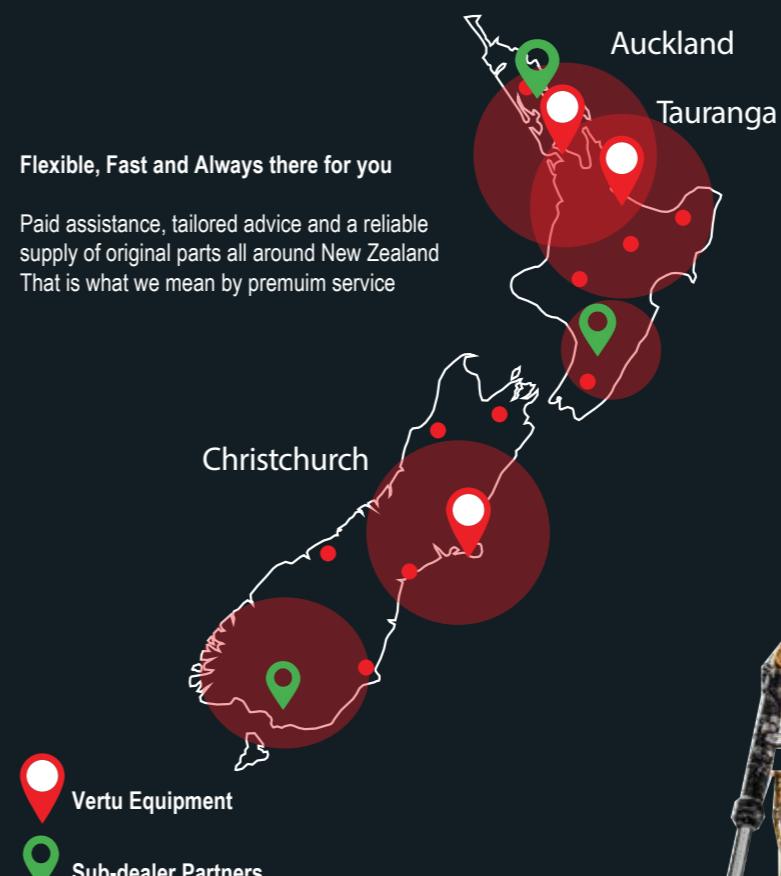
In the event of a breakdown during your warranty period, Vertu will come to your site as soon as possible to get your machine back up and running.

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.

**The advantages of SANY Plus:**

- + Experienced dealer network throughout Australia, New Zealand & the Pacific Islands
- + Direct service coverage
- + Local SANY team dedicated to your success
- + Australia-wide parts distribution centers to ensure SANY machines are fully supported
- + Ongoing customer care from purchase to after-sales

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.



KEY FEATURES **SY500H**



HIGH PERFORMANCE

Profitability is a simple calculation: maximum productivity at the lowest cost. In this regard, the SY500H is a true genius at arithmetic. It stands out for its efficient way of working. Or in other words: high performance and low fuel consumption. Durability and low investment costs. Availability and low maintenance.

FOR THE TOUGHEST CONDITIONS

The SY500H is designed to deliver maximum performance reliably even in difficult locations. It achieves this with great success thanks to its **robust structure** and **high-quality welds**. Another sign of superior stability and durability: the **sophisticated layout of the hydraulic system**.

SOLID BASE

Stability isn't everything. But without it, everything else is useless. That's why the running gear is particularly **stable**.

PRODUCTIVITY CENTRE

The driver's cab is very **spacious** and **comfortably** equipped for productive and concentrated working. In addition, there is exemplary protection **against noise and vibrations**.

COMPLETE PROTECTION

Safety begins at the entrance: with **stable handrails and non-slip steps**. Other features of the safety package: **improved panoramic view, camera and safety valves**.

REAL POWER PACKAGE

Efficient productivity at its best: the **high-volume Isuzu engine** leaves no doubt that it can complete even the most demanding tasks quickly and safely. Its proven **common rail technology** delivers **exemplary** high torque and therefore enables economical fuel consumption.

ALWAYS THE RIGHT FORCE

With the SY500H, there are many ways to achieve efficiency: A **high-performance engine** that surprises with its fuel consumption. The intelligent choice of **working modes** for optimum engine performance at all times. A **powerful and efficient hydraulic system**. This minimises operating costs and maximises savings.

KEY TECHNICAL FEATURES

| | |
|----------------------|--|
| Engine | ISUZU 6WG1XDHAG-03-C3 |
| Power | 300 kW / 1800 rpm |
| Maximum torque | 1932 Nm / 1400 rpm |
| Maximum travel speed | 5.4 km/h |
| Rotational speed | 8 rpm |
| Main pump | 2 x axial piston control pump with electronic regulation |
| Maximum oil flow | 2 x 360 l/min |



"A MACHINE THAT HAS EVERYTHING!"

Joël Launnay – Machine operator at SAS VALTINÉE

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.



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L I M I T E D**