


SY155U

SANY

 VERTU EQUIPMENT



GUARANTEED PRODUCTIVITY

FAST. ACCURATE. POWERFUL.

CONSTRUCTION MACHINERY



COMPACT EXCAVATOR
SY155U

Engine
ISUZU 4JJ1X - STAGE III
Power
84 kW / 2200 rpm
Bucket capacity
0,6 m³
Operating weight
16000 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



SY155U

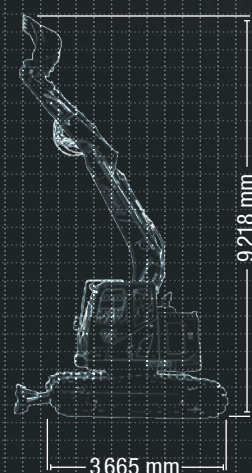
SY155U TECHNICAL DATA

Max. breakout force
of the bucket
103 kN (ISO)

Max. pulling force
of the arm
67 kN (ISO)

Rotational speed
12.5 rpm

Maximum travelling speed
5.3 km/h



THE PROFITABILITY OF THE NEXT GENERATION

How can you pack a lot of power into the smallest possible space? It's simple: with SANY's well-designed compact excavator concept. A good example of this is the SY155U short swing radius excavator. Its compact dimensions result in a short turning radius that allows it to work in very small spaces without compromising performance. And it is not afraid of difficult tasks either, as its powerful drive and advanced hydraulic system enable it to

perform them with ease. The machine's high weight and stable, wide undercarriage ensure excellent stability. It therefore perfectly meets all the requirements for a wide variety of tasks and excels with exemplary productivity.



KEY FEATURES

PROFITABILITY

GREATER BENEFIT AT A LOWER PRICE

Exceptional performance with very low fuel consumption: this is ensured by the efficient, high-performance engine. The intelligent automatic throttle control combines optimum fuel efficiency with high power output. For the machine, this means lower fuel

consumption, fewer emissions and reduced wear, while for the operator it means greater comfort thanks to the quiet engine and relief thanks to the automatic idle control.

PROFITABILITY

Performance plus flexibility: the formula for efficiency in smart computers

To work profitably on a construction site, performance cannot be achieved at the expense of high fuel consumption. That is why SANY has developed compact excavators that prioritise efficiency above all else. In the case of the SY155U, this allows the owner to enjoy exemplary value for money and brings benefits such as fuel savings, low maintenance costs and long intervals between servicing.



SY155U

CONSTRUCTION

Proven durability: a heavy-duty chassis is a must for anyone who values durability and stability. With the SY155U, that's not a problem, because it comes with heavy-duty running gear as standard.

DIMENSIONS

Powerful even in the tightest spaces: the powerful short-swing radius excavator with a small turning radius can work in narrow areas where conventional machines cannot fit.

EASE OF USE

Ergonomic design and excellent ease of use: the engine cover is large and the most important components are clearly arranged in a central location, making routine tasks such as maintenance and repairs quick and easy to perform.



SAFETY

Protection for people and machines: from non-slip, stable handrails to large mirrors and cameras, all safety equipment ensures that nothing goes wrong in everyday construction work.

COMPONENTS

Top quality: for SANY, the quality and stability of the boom are very important. In the SY155U model, both the upper and lower parts of the boom are made from a single sheet of metal.

PROFITABILITY

Power and efficiency: the intelligent control system adapts the pumping capacity to the available engine power to achieve greater performance and reduce fuel consumption, adding extra profitability to every job.

CONSTRUCTION

PRECISION GUARANTEES ROBUSTNESS

Durability and robustness are standard features in all SANY excavators. For example, welds are made by robots with extreme precision, ensuring maximum load capacity and a long service life. Another advantage is that all cladding parts are made exclusively from metal, a material ideally suited to the tough everyday conditions on site.



EASE OF USE

ERGONOMIC AND COMFORTABLE CABIN

With quick and safe access, plenty of space and a clear view of the outside, the driver's cab exceeds all expectations. In addition, the operator has a comfortable, adjustable seat with air suspension, ergonomic controls and a modern sound system.

Meanwhile, automatic climate control and a powerful ventilation and heating system ensure that the temperature and fresh air in the cab are always just right.



Our key features. The advantages of SANY Plus:

- + Reinforced chassis
- + Comfortable seat with air suspension
- + Compact short-swing excavator
- + Clear instrument layout
- + Large high-resolution display
- + High safety standards, e.g. camera
- + ROPS and FOPS certified to ensure safety during operation



EASE OF USE

Tailored to your needs

The joystick control allows you to intuitively operate all of the excavator's functions and achieve maximum performance with minimal effort. Thanks to its ergonomic shape, the joystick fits comfortably in the hand and can be operated with precision. Two additional control circuits are also included as standard equipment and allow a wide range of auxiliary devices such as a swing bucket or grapple to be used. These two additional proportional functions are conveniently operated from the joysticks.



EASE OF USE

Smart solutions for quick maintenance

The overall concept of the SY155U has been designed with simplicity in mind, with the idea that it should be an easy machine to maintain. The engine bonnet opens easily, allowing easy access to all the important components for routine servicing. The filter, radiator and battery are grouped together in the centre, allowing quick and easy access. In addition, the intervals between oil changes are very long, reducing downtime to a minimum.



EASE OF USE

A perfect configuration

The high-resolution display shows important data clearly. In addition, the menus are very easy to navigate, allowing the operator to control the machine's functions safely and comfortably. If necessary, the camera image can also be displayed on the screen.

The display also shows the date of the next inspection and basic data such as the speed and temperature of the oil and cooling water. Auxiliary devices can also be easily changed at the touch of a button.

By pressing the button, the operator can choose the operating mode that best suits each task, and SANY's intelligent drive control will do the rest. It adapts the performance of the engine and hydraulic system to the requirements, and always does so with precision.

ENGINE

Model	ISUZU 4JJ1X
Type	Water-cooled, 4 cylinders, with common rail system and AdBlue
Emission standards	Stage III
Power	112HP/ 84 kW / 1 900 rpm
Maximum torque	375 Nm / 1 800 rpm
Displacement	2 999 cc
Batteries	2 x 12V / 120 Ah

SERVICE FILLING QUANTITIES

Fuel tank	210 l
Engine coolant	18 l
Engine oil	15 l
Travel drive (per side)	1.8 l
Hydraulic oil tank	110 l

POWER

Rotation speed	12.5 rpm
Maximum travel speed	Fast 5.3 km/h, slow 3.1 km/h
Maximum traction force	114 kN
Bucket capacity	0.6 m³
Ground pressure	0.41 kg/cm²
Climbing ability	35°
ISO bucket breakout force	103 kN
ISO arm traction force	67 kN

OPERATING WEIGHT

SY155U	16 000 kg
SY155U Weight without blade	15 350 kg

PRESSURE RELIEF VALVES

Boom circuit	343 bar
Swing circuit	250 bar
Travel circuit	343 bar
Pre-control circuit	39 bar

HYDRAULIC SYSTEM

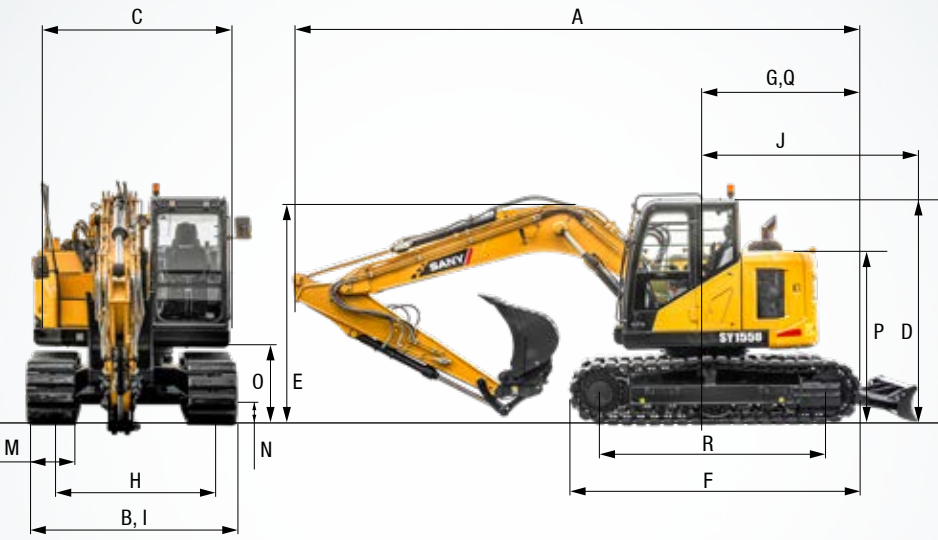
Main pump	2 x axial piston control pump with electronic regulation
Max. oil flow	2 x 126 l/min
Max. oil flow (AUX 1)	110 l/min
Max. oil flow (AUX 2)	70 l/min
Drive	Axial piston control motor
Swivel motor	Axial piston motor

LOWER AND UPPER BODY














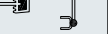


Boom length	4 600 mm
Arm length	2 500 mm
Roller	7
Support rollers	1
Swivel system	Planetary gear driven by axial piston motor, hydraulically operated automatic parking brake

DIMENSIONS

A Overall length	8180 mm
B Overall width	2590 mm
C Overall width of upper body	2490 mm
D Overall height of cab	2820 mm
E Overall height of boom	2755 mm
F Total length of lower body	3665 mm
G Rear length	1500 mm
H Wheelbase	1990 mm
I Width of lower body (dozer blade)	2590 mm
J Horizontal distance to dozer blade	2650 mm
K Height of dozer blade	480 mm
L Chain height	815 mm
M Chain plate width	600 mm
N Min. ground clearance	425 mm
O Rear weight ground clearance	910 mm
P Bonnet height	1 418 mm
Q Rear turning radius	1 500 mm
R Distance (centre) between sprocket and steering wheel	2 930 mm

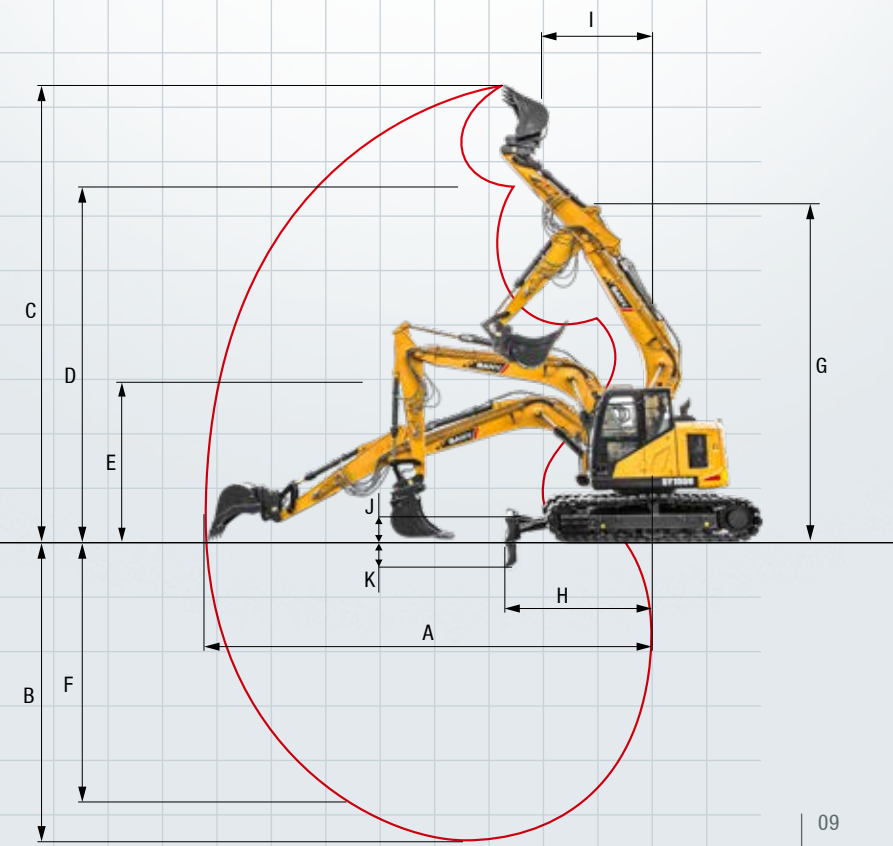


LOWER AND UPPER THRUST PLATE LOAD CAPACITIES

 Loading point height dozer blade down	Radius										Height		
	2.0 m	3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		Maximum	Meter
7.0 m kg													
6.0 m kg													
5.0 m kg													
4.0 m kg													
3.0 m kg													
2.0 m kg													
1.0 m kg													
Floor line kg													
-1.0 m kg	4686	4686											
-2.0 m kg	7212	5997											
-3.0 m kg	7480	6088											
-4.0 m kg													
 dozer blade up	2.0 m	3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		Maximum	Meter
													
7.0 m kg													
6.0 m kg													
5.0 m kg													
4.0 m kg													
3.0 m kg													
2.0 m kg													
1.0 m kg													
Floor line kg													
-1.0 m kg	4686	4686											
-2.0 m kg	7212	5997											
-3.0 m kg	7480	6088											
-4.0 m kg													

WORK AREA

A Maximum reach	8340 mm
B Maximum digging depth	5470 mm
C Maximum cutting height	9220 mm
D Maximum dumping height	6755 mm
E Minimum dumping height	2920 mm
F Max. excavation depth vertical wall	3795 mm
G Total height with min. turning radius	6750 mm
H Boom head distance with max. retraction working devices	2 650 mm
I Min. turning radius	2085 mm
J Max. dozer blade lift above ground	505 mm
K Max. dozer blade penetration	350 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.

Ready for any challenge

The SY155U's extensive standard equipment makes this excavator the perfect partner for demanding everyday construction site work. Special equipment and optional attachments are also available to further increase its flexibility.



EASY TO OPERATE / CAB

Air suspension seat	●
Heated seat	●
Heating	●
Automatic climate control	●
Radio with loudspeaker	●
Adjustable armrests	●
12 V connection	●
Windscreen wipers	●
Windscreen washer system	●
Sunroof	●
Integrated cooling compartment	●
Additional control circuit 1 on control lever	●
Additional control circuit 2 on control lever	●
Removable front window	●
Rubber mat	●

WORK LIGHTING

LED work light, front roof	●
LED work light, boom	●
LED work light, platform	●

ENGINE

Automatic rev adjustment	●
DPF	●
Diesel filter	●
Air filter	●

Standard equipment ● Special option ●

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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	●
Shield	●
No shield	●

SAFETY

Battery disconnect switch	●
Omnidirectional lights	●
Lockable covers	●
Handrails	●
Lockable fuel tank cap	●

LOWER BODY

Steel chain	●
Fastening rings	●

HYDRAULIC SYSTEM

Swing brake	●
2 travel speeds	●
Hydraulic control of the control lever	●
Tubes for additional control circuit 1	●
Tubes for additional control circuit 2	●
Main filter	●

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

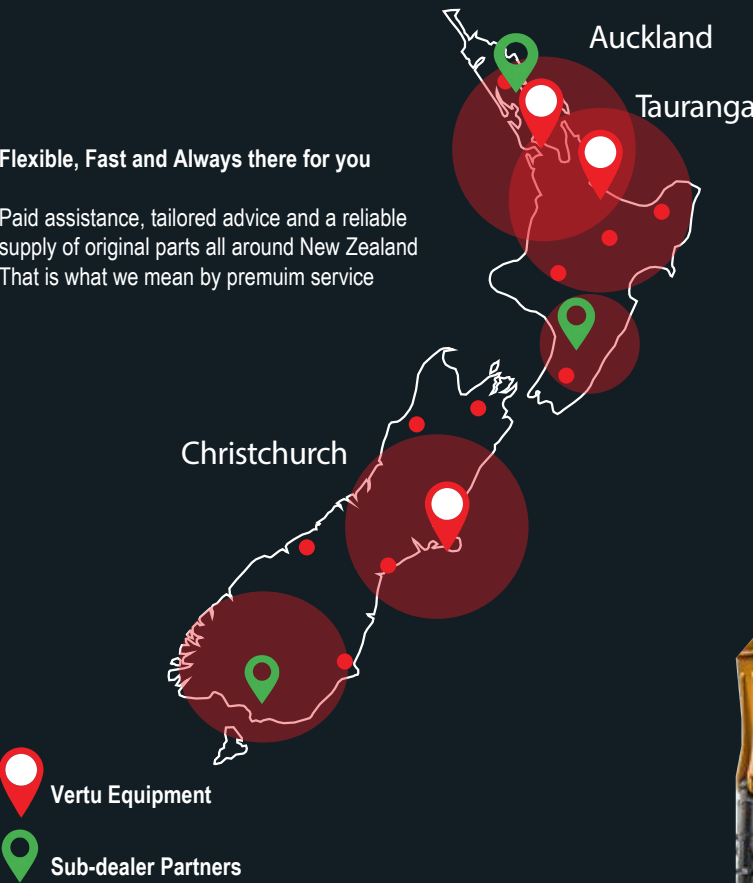
Our national service network partnerships provide certainty that you are supported with service and parts, wherever you are located.

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 premuim service



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/NZ wide parts distribution centers to ensure SANY machines are fully supported
- ✚ Ongoing customer care from purchase to after-sales

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.



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 **SY155U**

COMPACT PRODUCTIVITY

Even in confined spaces, the SY155U short-swing excavator proves what it is capable of. Its compact design and short swing radius make it possible to use it in tight spaces without losing any power. And thanks to its manoeuvrability, it can access areas that other machines in its class cannot fit into.



STABLE BASE

With **heavy-duty chassis as standard**: The reinforced guide wheel guide ensures a **long service life**, even when working in harsh conditions. Added to this is the powerful ISUZU-GI-4JJ1XKSC-05 STAGE III engine.

POWERFUL IN THE TIGHTEST SPACES

With this short-swing machine, the operator will experience **compact mobility**. Perfect for working in places where space is limited, such as urban areas.

ERGONOMIC DESIGN AND HIGHLY COMFORTABLE TO USE

From an **air-suspension seat** to large **storage compartments**: it's easy to feel at home in the driver's cab.

PROTECTION FOR PEOPLE AND MACHINES

Safety valves are **essential on construction sites to ensure safety when lifting loads or moving earth**. That is why the SY155U excavator includes them **as standard**.

RELIABLE AT ALL TIMES

The continuous plates on the top and bottom of the boom and **the welds, made with great precision by robots**, highlight our quality standards to meet the highest demands.

STRENGTH AND EFFICIENCY

The SY155U has **particularly low consumption values**. The **intelligent hydraulic system** improves fuel efficiency, reduces exhaust emissions and **minimises wear and tear**.

KEY TECHNICAL FEATURES

Engine	ISUZU 4JJ1X
Power	84 kW / 2200 rpm
Maximum torque	375 Nm / 1 800 rpm
Maximum travel speed	5.3 km/h
Rotational speed	12.5 rpm
Main pump	2 x axial piston control pump with electronic regulation
Maximum oil flow	2 x 126 l/min



**"THE MACHINE CONSUMES LITTLE ENERGY
AND IS VERY POWERFUL!"**

Stefan Welsch – Machine operator at TDS Immo

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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