

SY155U

SANY

**MACHINERY
SPECIALISTS
L I M I T E D**



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.

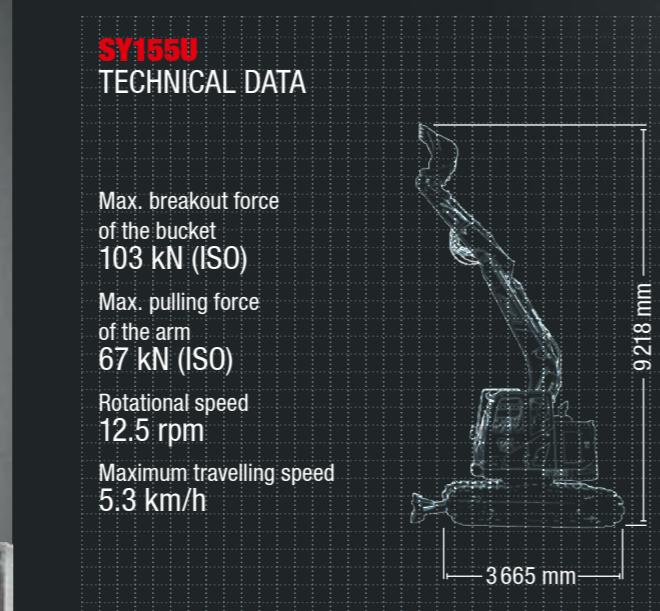
Quality comes from experience. And from innovative ideas. That's why at SANY we combine these two important factors. Because we are one of the leading manufacturers, with more than **500,000** excavators sold **worldwide**. Given this, you can trust our advanced products, tested in the construction field. 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



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.

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.



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.

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.

COMPONENTS

PROFITABILITY

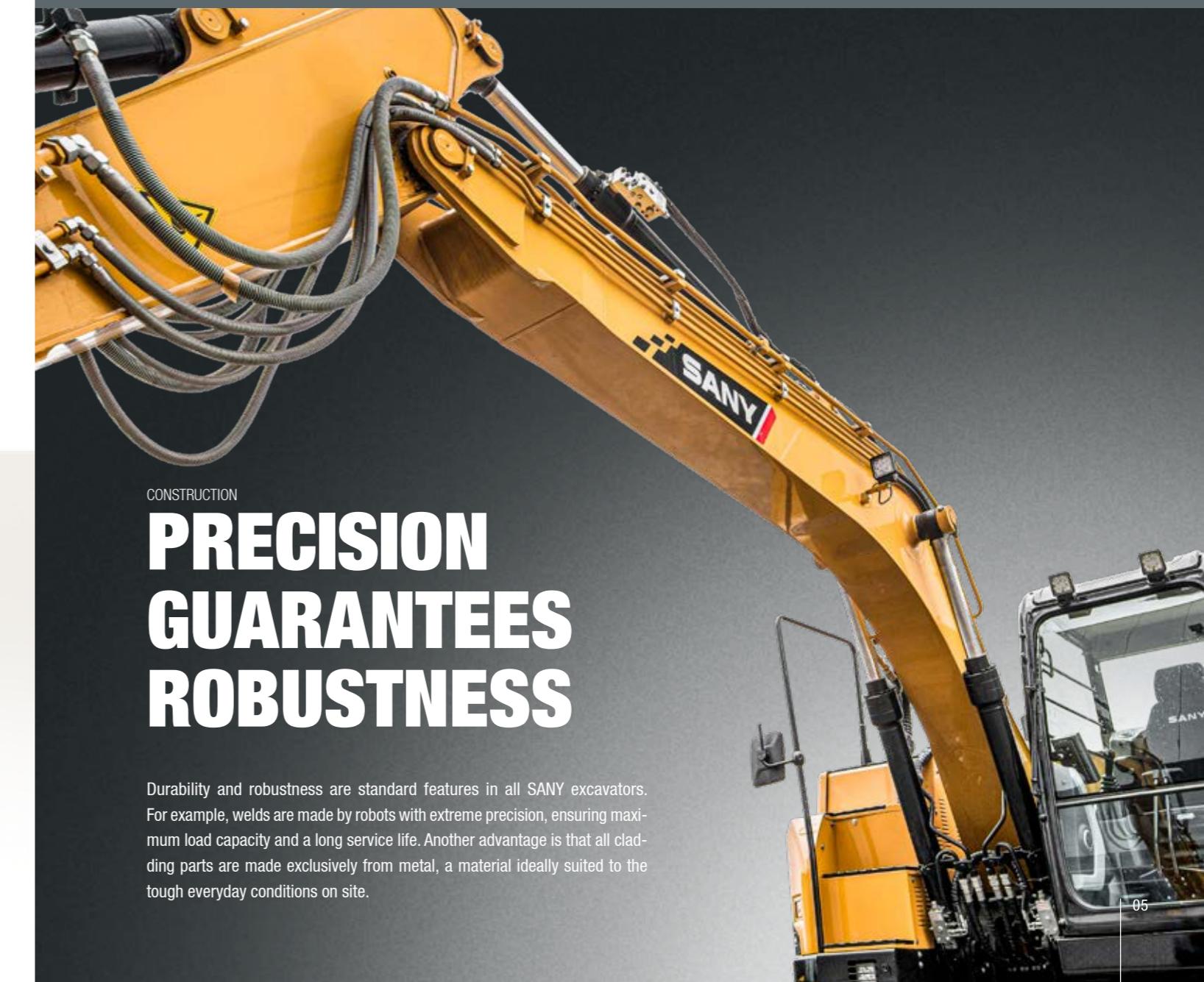
PROFITABILITY

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.

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.



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.



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.



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

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 / 1900 rpm
Maximum torque	375 Nm / 1800 rpm
Displacement	2999 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 m ³
Ground pressure	0.41 kg/cm ²
Climbing ability	35°
ISO bucket breakout force	103 kN
ISO arm traction force	67 kN

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	3353	3353					2536	2536 4.3
6.0 m kg	3632	3632	3310	2687			2216	2216 5.4
5.0 m kg	3594	3594	3944	2685	2590	2061	1994	1994 6.1
4.0 m kg	4736	4736	4643	3487	4146	2628	3822	2048
3.0 m kg	6858	4607	5314	3325	4484	2537	3967	2001
2.0 m kg	8370	4238	6031	3140	4855	2432	4144	1941
1.0 m kg	6651	3979	6547	2980	5144	2334	4278	1881
Floor lim. kg	6813	3868	6703	2876	5253	2260	4293	1834
-1.0 m kg	4686	4686	8485	3839	6484	2826	5115	2218
-2.0 m kg	7212	5997	7511	3854	5892	2819	4659	2209
-3.0 m kg	7480	6088	6070	3909	4842	2853	3697	2242
-4.0 m kg	3876	3876	2956	2948				
dozer blade up	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	3353	3353					2536	2536 4.3
6.0 m kg	4053	3632	3310	2687			2216	2216 5.4
5.0 m kg	4203	3594	3592	2685	2590	2061	2073	1994 6.1
4.0 m kg	4736	4736	4621	3487	3535	2628	2803	2048
3.0 m kg	6118	4607	4459	3325	3444	2537	2756	2001
2.0 m kg	5749	4238	4273	3140	3339	2432	2696	1941
1.0 m kg	5490	3979	4114	2980	3241	2334	2637	1881
Floor lim. kg	5379	3868	4009	2876	3167	2260	2590	1834
-1.0 m kg	4686	4686	5350	3839	3959	2826	3125	2218
-2.0 m kg	7212	5997	5366	3854	3953	2819	3116	2209
-3.0 m kg	7480	6088	5421	3909	3987	2853	3149	2242
-4.0 m kg	3876	3876	2956	2948				

OPERATING WEIGHT

SY155U	16000 kg
SY155U Weight without blade	15350 kg

PRESSURE RELIEF VALVES

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

HYDRAULIC SYSTEM

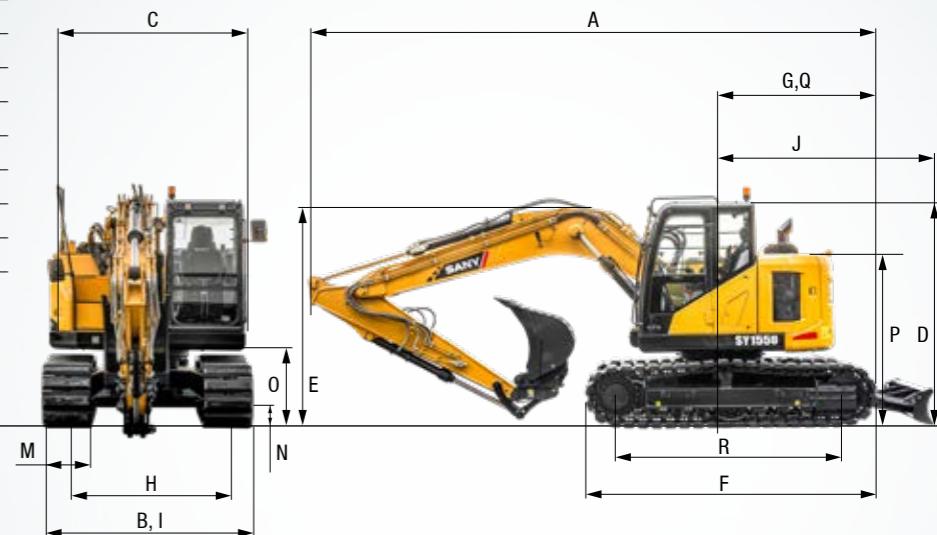
Main pump	2 x axial piston control pump with electronic regulation
Max. oil flow	2 x 126 l/min
Max. oil flow (AUX 1)	110 l/min
Max. oil flow (AUX 2)	70 l/min
Drive	Axial piston control motor
Swivel motor	Axial piston motor

LOWER AND UPPER BODY

Boom length	4600 mm
Arm length	2500 mm
Roller	7
Support rollers	1
Swivel system	Planetary gear driven by axial piston motor, hydraulically operated automatic parking brake

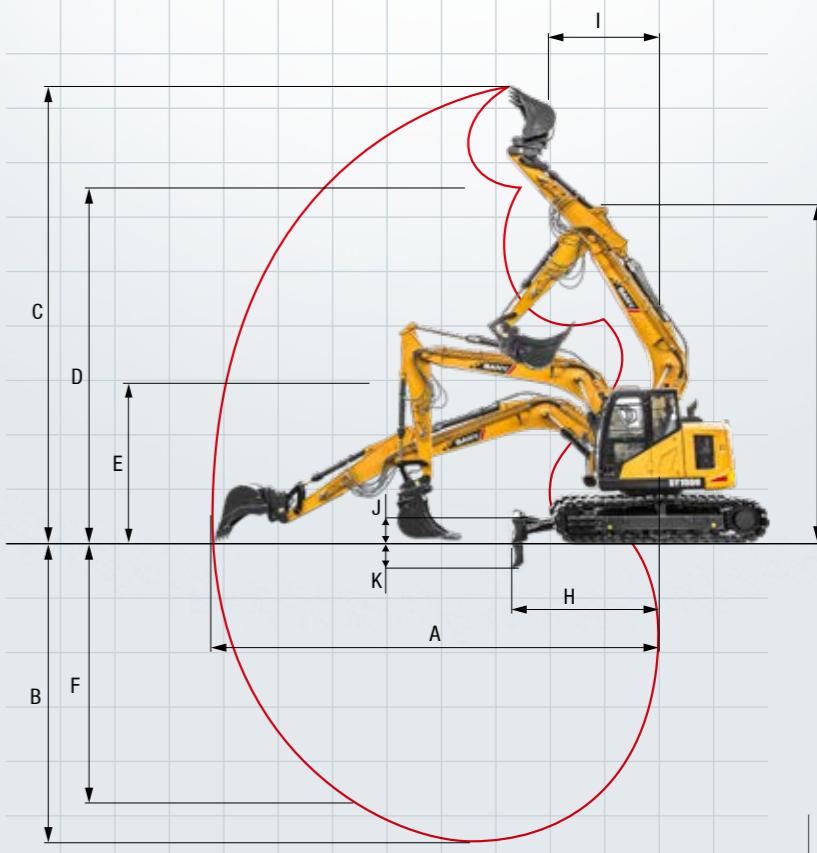
DIMENSIONS

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	1418 mm
Q Rear turning radius	1500 mm
R Distance (centre) between sprocket and steering wheel	2930 mm



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	2650 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.

EQUIPMENT

**SY155U**

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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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.

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	●

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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.

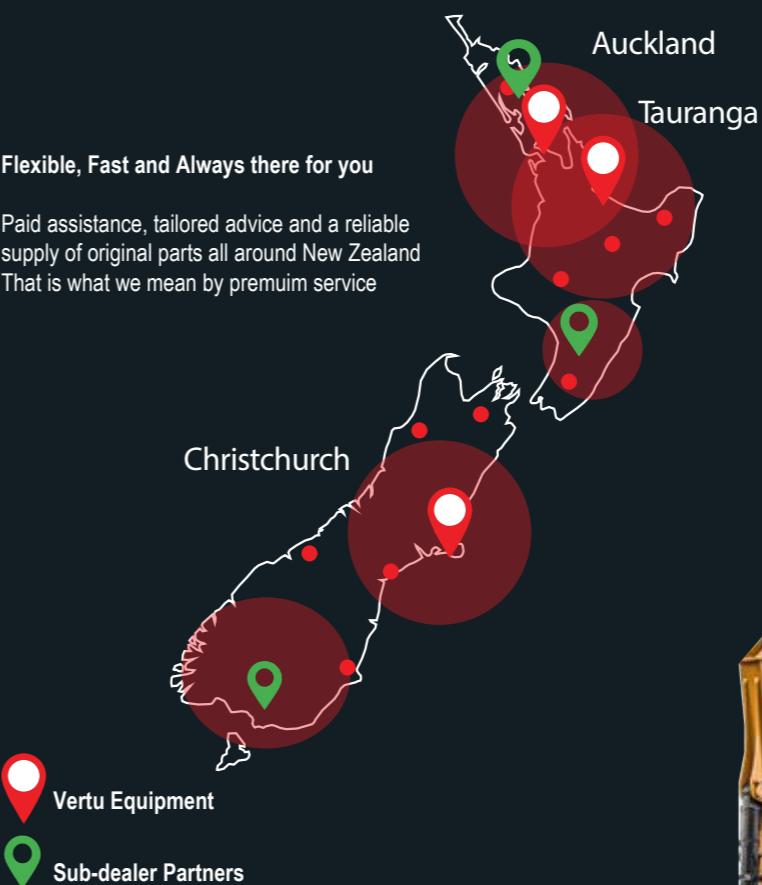
Parts and Inventory

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.



Vertu Equipment

Sub-dealer Partners

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.



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 / 1800 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.