

SANY

SW956E

ELECTRIC WHEEL LOADER

Rated Travelling Motor

120 kW

Rated Working Motor

80 kW

Operating Weight

20,000 kg

Full Turn Tipping Load

13,200 kg



SANY: FORGING THE FUTURE TOGETHER

Founded in 1989, SANY has grown into one of the world's largest construction equipment manufacturers, with global R&D and production – including European facilities – and machines working in 150+ countries. Our range spans excavators, road and port machinery, and cranes, built with proven manufacturing heritage and modern quality systems.

A GLOBAL LEADER BEHIND EVERY RANGE

From compact excavators to high-tonnage earthmovers, cranes, telehandlers, concrete machinery, road equipment and more, SANY's worldwide product range reflects decades of innovation, investment, and real-world experience.

This broad international range is proven on job sites in over 150 countries, ensuring every machine delivered to Europe is backed by extensive testing, real-world performance and the strength of a global supply chain.

ENGINEERED FOR OUR EUROPEAN CUSTOMERS

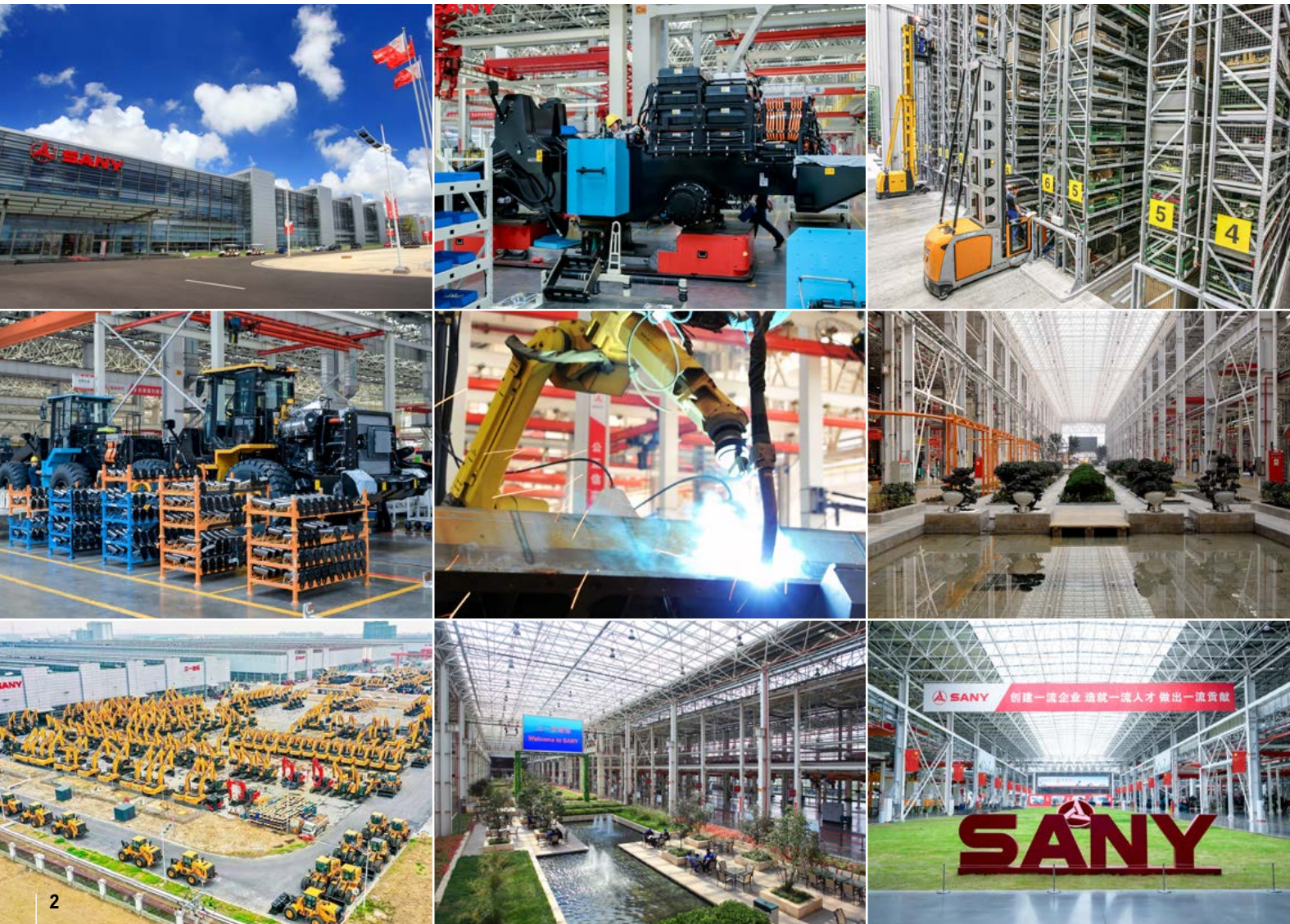
Every SANY machine destined for Europe is engineered to meet European regulations and real-world use cases – from CE and Stage V compliance to region-specific specifications and options.

For European construction customers, this worldwide capability translates directly into trust. SANY selects and engineers its product line specifically for local requirements, combining global innovation with European-quality standards, dealer support and service.

GLOBAL MANUFACTURING EXCELLENCE

SANY's long-standing commitment to quality and innovation – supported by advanced intelligent manufacturing and a sustained 5-7% of annual revenue reinvested into R&D – results in machines that deliver reliability, efficiency, and consistent performance on site.

With state-of-the-art production facilities and rigorous global testing standards, every machine is built to withstand demanding conditions and deliver long-term value.



INTRODUCING THE SW956E

The SANY SW956E electric wheel loader is built for high-intensity, fixed-site operations, delivering powerful performance with zero emissions and lower running costs. Combining a robust 20-tonne platform with a 3.2–3.5 m³ bucket capacity, it's ideal for demanding applications including aggregates, mining and waste handling.

The advanced electric drive and energy recovery system of the SW956E reduces energy consumption by up to 18%, while fast DC charging, including dual-gun capability enables a full recharge in approximately one hour to keep productivity high. Designed for durability, IP67-protected components and reliable operation from –20°C to 45°C ensure consistent performance in the toughest environments.



WHY CHOOSE SANY ELECTRIC WHEEL LOADERS



WORLD RENOWNED COMPONENTS

SANY uses proven, top-tier components to deliver long-lasting reliability meaning you benefit from fewer breakdowns, longer service life, and lower ownership costs.



GREAT VALUE, UNCOMPROMISED QUALITY

You can have confidence in your return on investment. SANY wheel loaders are loaded with the latest innovations to help reduce costs, increase productivity and protect resale value.



INDUSTRY LEADING 5 YEAR WARRANTY

Built to last, and backed by an industry-leading warranty, giving you lower risk, predictable costs, and confidence on every job.



LOW OPERATING COSTS

Simple engineering, readily available parts, and long lasting batteries reduce ongoing running costs, a major advantage in Europe's high-cost markets.



LOCAL SUPPORT

Europe-wide expert dealers and value-added aftermarket support keep your machine running, minimise downtime, and simplify ownership.



STANDARD ADVANCED FEATURES

SANY wheel loaders include game-changing features as standard, no costly add-ons or custom modifications required.

SW956E PRODUCTIVITY

The SW956E delivers the performance of a traditional diesel wheel loader with the efficiency and responsiveness of electric power. A proven Z-bar linkage design delivers strong breakout force and efficient bucket loading, while instant electric torque and optimised hydraulics work together to provide fast cycle times, smooth control and high productivity throughout every shift.



DIESEL-LIKE PERFORMANCE

← Designed for intensive, fixed-site operations, the SW956E combines a robust 20-tonne platform with a 3.2–3.5 m³ bucket capacity, delivering powerful performance and consistent efficiency.

With a full turn tipping load of 13,200 kg and a rated load capacity of 5,800 kg, the SW956E gives you the strength and stability to handle heavy materials with confidence.

INSTANT POWER ON DEMAND

→ A high-torque electric drive system is built to give you instant power exactly when you need it, delivering smooth, responsive performance even under heavy loads. With consistent output and strong pushing and loading capability, it helps you maintain productivity, handle demanding materials with ease and keep your operation moving efficiently.

A Z-bar linkage design directs power precisely to the bucket, ensuring strong breakout force, fast loading cycles and efficient dumping performance.

An optimised hydraulic system is designed to help you get more done in less time, delivering smooth, responsive operation and fast cycle times that boost productivity in repetitive loading tasks.

With a dual-pump confluence hydraulic system, the SW956E delivers responsive steering, efficient working performance and smooth operation. A third hydraulic control circuit is provided as standard for greater attachment versatility.



SW956E ELECTRIC ADVANTAGE

The electric advantage of the SW956E goes beyond zero emissions, delivering a smarter, more efficient way to work. Designed to maximise uptime, reduce energy use and lower operating costs, it combines long runtime, fast charging and intelligent energy management to keep your operation moving. The result is reliable, high-performance operation with the efficiency and cost control modern job sites demand.



RUN TIME

The SW956E delivers up to 8 hours of runtime on a single charge, enabling full-shift operation with minimal need for recharging and helping maintain consistent productivity (depending on application and temperature conditions).

CHARGE EFFICIENCY

Equipped with an automotive-grade CCS2 DC charging socket as standard, the SW956E can be fully recharged in just 1.5 hours, giving you the flexibility to keep your operation moving.

A single charging connection simplifies the process, reducing cabling and equipment for a cleaner, more efficient operation.

REDUCED ENERGY CONSUMPTION

The SW956E features advanced energy recovery technology that intelligently captures and converts braking energy into usable power, reducing energy consumption by up to 18% and driving a new level of efficiency in every cycle.

Lower operating costs come as standard, with reduced energy consumption and minimal maintenance delivering a fast return on investment in high-utilisation environments.

LONG-LIFE OPERATION

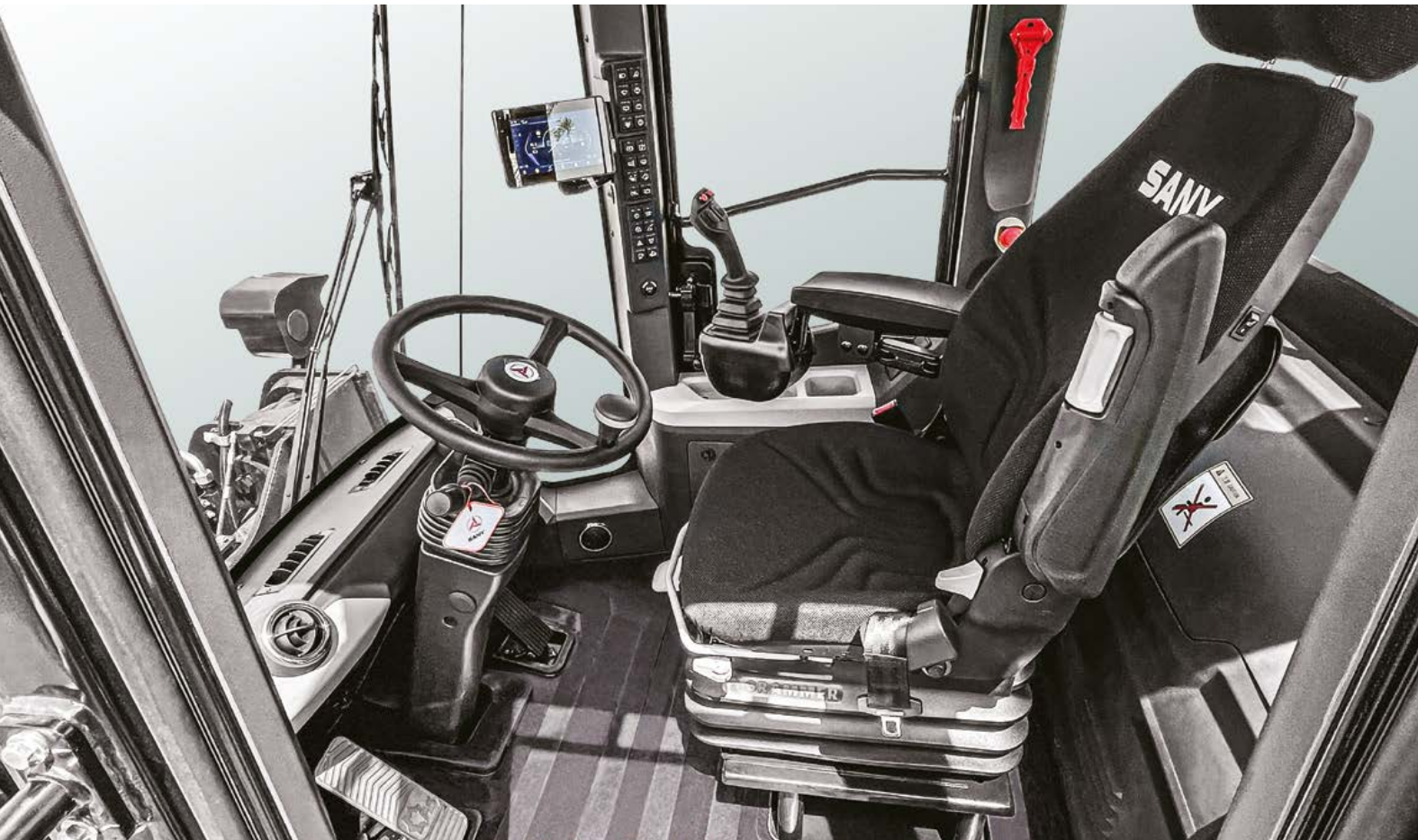
Our advanced lithium-iron phosphate (cobalt free) battery technology is engineered for long-term durability, delivering consistent performance year after year. A longer lifespan helps reduce total cost of ownership and protects residual value.



SW956E

OPERATOR ENVIRONMENT

The operator environment of the SW956E is designed to maximise comfort, visibility and ease of operation throughout the working day. A spacious, low-noise cab with premium seating, intuitive controls and excellent all-round visibility helps reduce fatigue, improve operator awareness and support safe, productive performance in every application.



EVERYDAY EASE

➔ Easy, flexible and quick operation is delivered through a multi-function handle and one-button shift, enabling smooth fingertip control for faster, more efficient working.

Clear instrumentation and a large 10" high-resolution touchscreen display provide easy access to key machine information, making operation more intuitive and improving overall efficiency.



JOB SITE AWARENESS

A sophisticated cab design with large panoramic windows provides excellent all-round visibility, helping improve operator awareness, safety and confidence on site. All-round mirrors provide clear visibility of the surrounding workspace, improving operator awareness and safety on site.

PREMIUM COMFORT

⬆ The ergonomic operator's cab of the SW956E is designed for all-day comfort, featuring a premium air suspension seat and fully adjustable armrests that allow for easy customisation of the working position. By reducing fatigue and supporting a natural posture, it helps maintain focus, comfort and productivity throughout every shift.

With low in-cab noise levels of just 68 dBA and minimal vibration, the SW956E creates a quieter, safer working environment.

An integrated heating and air conditioning system maintains a comfortable cab environment in all weather conditions, helping reduce fatigue and support consistent productivity.

SW956E

SAFETY & SECURITY

The SW956E is engineered to protect operators, bystanders and the machine itself, combining advanced safety technologies with robust operator protection and intelligent security systems. From enhanced visibility and collision avoidance to emergency controls and theft protection, every feature is designed to support safer, more secure operation in demanding working environments.



SAFETY BUILT IN

➔ The SW956E is equipped with a ROPS and FOPS certified cab, providing enhanced protection against rollovers and falling objects to help keep operators safe and confident in demanding working environments.

A High Voltage Protection System (MSD) is designed to ensure electrical safety during operation and servicing, helping protect both operators and technicians.

PROTECTING BYSTANDERS

Blind Spot Monitoring, large mirrors and a 360° camera system work together to provide excellent all-round visibility, reducing blind spots, improving operator awareness and supporting safer operation.

The Pedestrian Detection System and Automatic Braking System work together to enhance jobsite safety, identifying nearby personnel in real time and responding instantly to potential hazards to help reduce the risk of collisions and improve operator confidence.

Energy-efficient LED work lights at the front and rear of the cab deliver excellent visibility in low-light conditions, helping operators work safely, accurately and productively at any time of day.

The reverse alarm system alerts surrounding personnel during reversing operations, helping to improve on-site awareness and support safer machine movement.

EMERGENCY CONTROLS

Featuring both a battery disconnect switch and an emergency stop button, the system allows immediate power isolation to enhance operator and site safety.

The emergency steering system helps maintain safe machine control in the event of a system failure, providing added confidence and supporting safer operation.

ADVANCED SECURITY

A lockable service door protects critical components and battery systems, preventing unauthorised access and enhancing site security.

Backed by the CESAR Datatag Scheme for proven theft deterrence and equipped with CESAR ECV, these machines allow swift and dependable verification of emissions category.

⬇ Advanced anti-theft EVI telematics employ GPS tracking and configurable geofencing to safeguard the machine from theft and unauthorised use.



SW956E

RELIABILITY, QUALITY AND DURABILITY

Engineered for strength and longevity, the SW956E features a heavy-duty loader arm structure, robust articulation joint and reinforced chassis designed to withstand the demands of intensive loading applications. Extensive testing, protected components and precision manufacturing ensure long-term reliability, while high-quality construction helps maximise uptime, durability and performance in the toughest working environments.



State-of-the-art manufacturing processes, including robotic welding, precision machining and advanced paint technology, ensure exceptional build quality and long-term durability. Accurate component alignment helps reduce wear, improve performance and delivers reliable operation in the most demanding working environments.

HEAVY-DUTY BRAKING PERFORMANCE

The SW956E is equipped with a dual-pipe, fully hydraulic braking system designed to deliver responsive, reliable stopping power in demanding operating conditions. The robust system provides precise control and consistent braking performance, while its simple, durable design helps minimise maintenance requirements and supports long-term reliability.

BUILT FOR HEAVY LOADS

A heavy-duty drive axle provides the strength and durability needed for intensive loading applications. Engineered to withstand high loads and demanding duty cycles, it delivers dependable performance day after day, helping maintain productivity and reduce downtime in challenging working environments.

ROBUST STRUCTURAL DESIGN

The SW956E is built around a high-strength frame engineered for exceptional durability and stability. Double-tapered roller bearings at the articulation joint enhance load distribution and structural integrity, improving machine stability, reducing wear and ensuring reliable long-term performance in tough applications.

SW956E

SERVICE & MAINTENANCE

The SW956E is engineered to maximise uptime and reduce total cost of ownership, combining low-maintenance electric technology with intelligent machine management and high-quality components. From simplified servicing and advanced battery management to real-time diagnostics and strong dealer support, every element is designed to keep the machine working efficiently for longer.



MAINTENANCE MADE EASY

SANY wheel loaders are engineered for streamlined service and maintenance, with design features that make routine upkeep faster and more efficient.

A maintenance-free lithium-iron phosphate battery is equipped with an advanced Battery Management System (BMS) and thermal management technology to help optimise battery performance, protect long-term battery health and ensure reliable operation during both working and charging cycles.

COMMON, PREMIUM COMPONENTS

Produced in advanced manufacturing facilities in China, SANY wheel loaders are built for high quality and lasting durability, utilising high-spec components from reputable global manufacturers.

An extensive European dealer network also ensures rapid response and efficient turnaround for any machine repair.



INCREASED WORKING HOURS

Real-time health alerts, remote diagnostics, and scheduled maintenance via SANY EVI telematics work together to enhance reliability and extend machine life.

LOWER MAINTENANCE COSTS

The SW956E offers significantly lower maintenance costs, with far fewer moving parts than traditional diesel machines and virtually maintenance-free lithium-iron batteries. The result is reduced servicing, less downtime and reliable long-term performance that helps keep operating costs under control.



SW956E

YOUR UPTIME. OUR PRIORITY.

Rely on SANY's value-added aftermarket services to keep your equipment operating at peak efficiency. From proactive maintenance to reducing unexpected downtime and controlling operating costs, we provide the support your business depends on. Our European service solutions further boost performance, streamline maintenance tasks, and improve profitability across your fleet.

5 YEAR WARRANTY

Built on a global reputation for reliability and durability, SANY wheel loaders come with an unmatched 5-year warranty* – one of the strongest in the industry.

It's a clear statement of the confidence we have in our machines and our commitment to your uptime. Your investment is protected from day one, giving you the assurance that if an issue arises, you're fully covered.

*Terms and conditions apply.

SERVICE AND SUPPORT

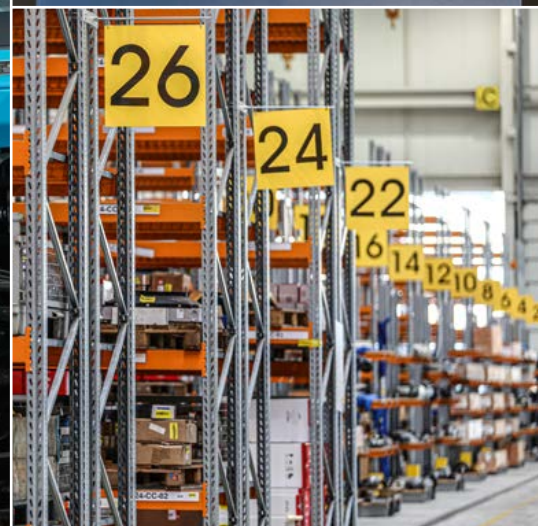
SANY's extensive network of certified technicians and dealer partners provides on-site service and technical expertise designed to minimise downtime and maintain peak machine performance.

Working in coordination with our advanced manufacturing facilities in China, our European teams combine global engineering capability with practical local support.

SANY GENUINE PARTS

SANY genuine parts are engineered, rigorously tested, and manufactured to the exact specifications required by your machine. Their precise fit and compatibility guarantee maximum performance and system integrity.

By maintaining correct operational tolerances, they enhance on-site safety and significantly reduce the risk of unplanned failures or downtime. All genuine parts are supported by a 12-month warranty for added assurance.



SW956E

INTELLIGENT SUPPORT

Designed exclusively for Europe, SANY's EVI digital fleet management system gives you complete visibility and control of your machines, anytime and anywhere. Real-time data on location, usage and machine health helps you make smarter decisions, reduce costs and maximise uptime. Built-in security features, including geofencing and operating controls, protect your fleet from misuse and theft.



Designed exclusively for Europe, our digital fleet management system EVI gives you complete visibility of your machines whenever and wherever you need it. By simplifying fleet oversight, it enables better decision-making, lowers costs, and improves uptime across your operations. With built-in safety and security features that let you monitor location and usage in real time, you gain greater control and peace of mind.

Key benefits include:

- Enhanced fleet visibility and remote machine management
- Set authorised operating hours and create geofenced security zones to reduce theft risk and misuse
- Greater visibility of routine checks and machine health
- Multi-channel, real-time communication for faster decision-making
- Operating report analysis for smarter, data-led decision-making
- Customer account management for personalised, data-backed communication

SW956E

SPECIFICATION

POWER SYSTEM	
Model	SW956E
Battery type	LFP - Lithium-iron phosphate battery
Motor type	Permanent magnet synchronous motor
Max. rated power	200 kW
Rated travelling motor	120 kW
Rated working motor	80 kW
Max. torque	2,400 Nm
Rated voltage	579.6 V
Aux battery voltage	24
Rated capacity	604 Ah
Fully charged battery capacity	350.07 kWh
Charge Time	DC fast charge - 1.5 hrs
Run time (depending on application)	6 - 8 hrs

HYDRAULIC SYSTEM	
Main pump	Gear pump
Max. oil flow	415 l/min

PERFORMANCE	
Drive type	Electric drive
Gears - forward/reverse	2F / 1R
Forward/reverse	Forward gear I / Forward gear II / Reverse gear I
Max. travel speed	40 km/h
1st gear	0 – 16 km/h
2nd gear	0 – 40 km/h

SERVICE REFILL CAPACITIES	
Hydraulic oil tank	240 L
Front axle	21 L
Rear axle	21 L
Gearbox	14 L
Coolant	46 L (26L+20L)

Based on theoretical calculation at max flow with no load.
Subject to alterations.
In the interest of continual equipment development, SANY reserves the right to change these specifications at any time without prior notification.

OPERATING WEIGHT	
20,000 kg	

STEERING	
Steering type	Steering gear
Max. steering angle	±37°
Outer tyres turning radius	6,400 mm
Outer bucket turning radius	7,200 mm

BRAKES	
Service brake	Hydraulic brake
Parking brake	Hydraulic brake

AXLES	
Type	Wet brake axle
Oscilating angle	11°
Differential	Manual control

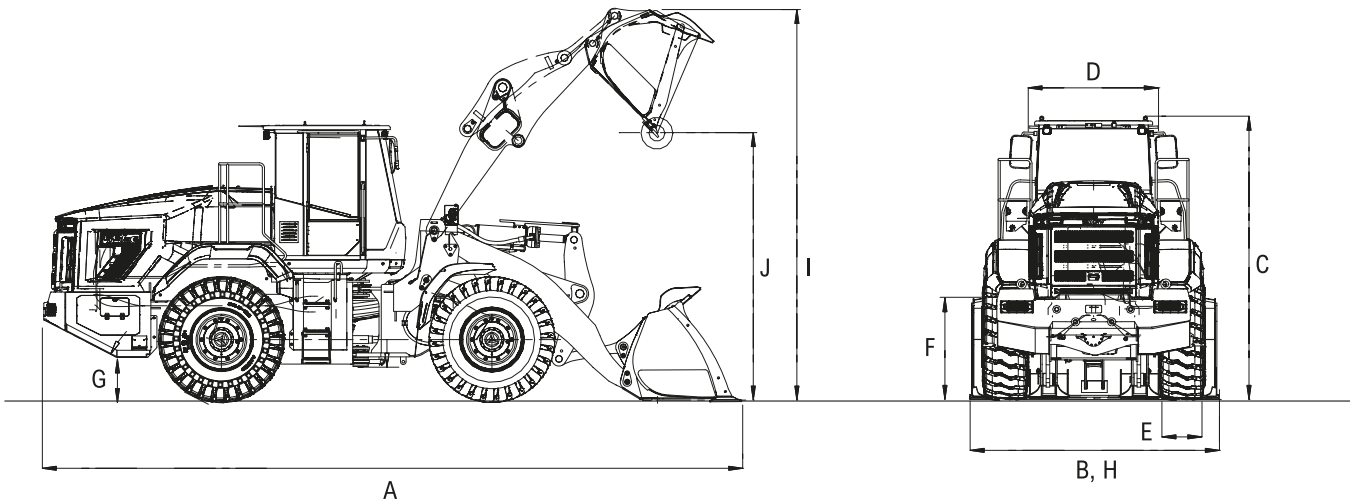
SOUND LEVEL	
Noise level inside cabin	68 dB(A)
Noise guaranteed value	101 dB(A)

SW956E

SPECIFICATION

DIMENSIONS (TRANSPORT)	
A Transport length (inc bucket)	8,540 mm
B Transport width	2,996 mm
C Height over cabin / ROPS	3,588 mm
D Cab width	2,314 mm
E Tyre width	600 mm
F Tyre height	1,590 mm
G Min. ground clearance	434 mm

WORKING AREA	
H Bucket width	2,996 mm
I Height to hinge point	4,180 mm
J Dump height	3,000 mm
Max bucket height	1,355 mm
Bucket weight	1,382 mm
Dump angle	45°
Maximum reach, fully raised	1,325 mm
External bucket turning radius	7,200 mm
Tipping load - straight (bucket)	13,900 kg
Tipping load - Fully turned in (bucket)	13,200 kg
Breakout force	178 kN



SW956E

STANDARD/OPTIONAL EQUIPMENT

OPERATORS COMFORT / CAB	
	SW956E
Air suspension seat	•
Heater	•
Air conditioning system	•
Bluetooth radio & speaker	•
USB socket (music)	•
Adjustable armrests	•
10" smart touch screen	•
12V outlets	•
Wiper	•
Sun shade	•

WORKING LIGHTS	
	SW956E
2 x LED lights – front	•
1 x LED light – rear	•
Magnetic beacon	•

TYRES	
	SW956E
Dimensions - L3 23.5R25	•
Dimensions - L5	OPT
Front and rear fenders	•

MOTOR	
	SW956E
220 - 400V charging cable (inc adapters)	•

SAFETY & SECURITY	
	SW956E
ROPS and FOPS cab	•
Battery master switch	•
Travel alarm	OPT
Emergency stop button	•
Retractable seatbelt	•
360° camera	•
Bolt-on handrail	•
Lockable service door	•
All-round mirrors	•
EVI telematics	•

HYDRAULIC SYSTEM	
	SW956E
Load sensing system with variable pump power	•
Full variable load-sensing system with steering priority	•
Single-level joystick	•
Single brake pedal	•
3rd function valve	•
Hydraulic quick coupler lines	•
Ride control system	•
Bucket level indicator	•
Automatic lubrication	•

The standard and optional equipment can differ depending on the country in which the machine is delivered. Please contact your local dealer for more information.





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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. Machines
shown may feature additional options other than
the standard machine specification.

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