

SY35E

MINI EXCAVATOR

Max. Gross Power

18 kW / 2,200 rpm

Operating Weight

4,300 kg

Max. Dig Depth

2,640 mm



SANY:

QUALITY CHANGES THE WORLD

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

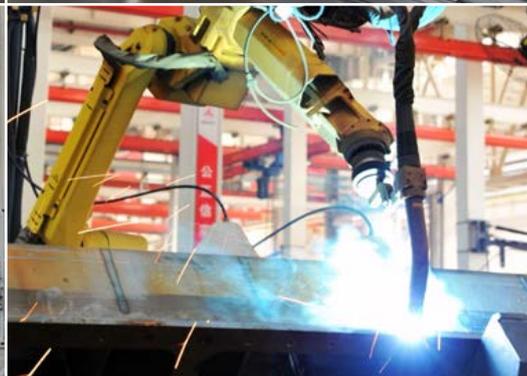
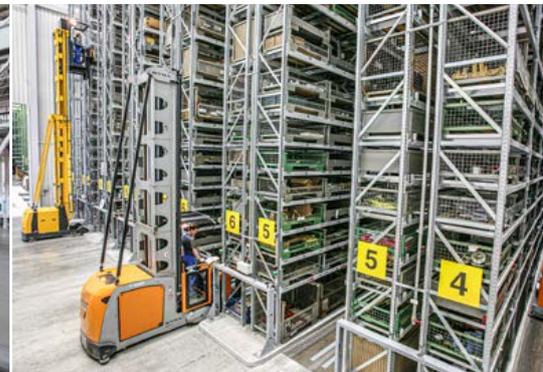
Every SANY machine destined for Europe is engineered to meet European regulations and real-world use cases – from CE and Stage V compliance to region-specific specifications and options.

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 SY35E

Introducing the SY35E, SANY's 4-tonne electric mini excavator, delivering all the power you expect from a compact machine, with zero emissions and significantly reduced noise levels. With a cobalt-free lithium-iron phosphate battery and an automotive-standard charging socket, the SY35E offers fast, flexible charging and long term durability.

From landscaping and utilities to general construction, the SY35E electric mini excavator delivers strong, responsive hydraulic performance in a compact, easily transportable package — while operating with zero exhaust emissions. This allows operators to work confidently on tight, sensitive or enclosed sites, reduce environmental impact, and maintain full productivity without compromise.



WHY CHOOSE SANY MINI EXCAVATORS



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 mini excavators 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 low fuel consumption 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 excavators include all essential features as standard – no costly add-ons or custom tweaks required.

SY35E

PRODUCTIVITY

Built to maximise productivity in indoor and outdoor working environments, the SY35E delivers zero-emission performance without compromising capability. Long run time, fast and flexible charging, and efficient load-sensing hydraulics keep the machine working longer, while compact dimensions and full attachment compatibility ensure it's ready for any job, anywhere.



COMPACT DIMENSIONS

SANY's swing boom design lets you offset the boom to the left or right, so you can dig alongside walls and in tight spaces without rotating/repositioning the machine, reducing ground disturbance.

With compact dimensions you can access tight sites, work flush to walls or obstacles, and minimise repositioning for faster setup - all with low ground impact.

EASY TRANSPORTATION

Integrated tie-down points on the track frame and dozer blade simplify secure trailering—cutting loading time, improving load restraint compliance, and reducing risk of damage during transport.

HYDRAULICS DESIGNED FOR PRODUCTIVITY

→ SANY's twin auxiliary hydraulics as standard allow you to operate a wider range of attachments with powered movement in both directions, giving you reversible control and faster task changes.

SANY's hydraulic quick hitch enables in-cab attachment changes within seconds, eliminating manual pin removal, reducing exposure to pinch points, and minimising downtime between tasks.

Instant torque along with a best-in-class pump, valve block and slew motors delivers smooth, responsive control for precise work, especially useful in confined or sensitive applications.

↑ VERSATILE OPERATION

The SY35E is factory-equipped for seamless compatibility with the most common attachments, including breakers, grapples, tilt buckets and augers.

Two speed tracking allows the operator to switch between high and low speeds based on the terrain and task.



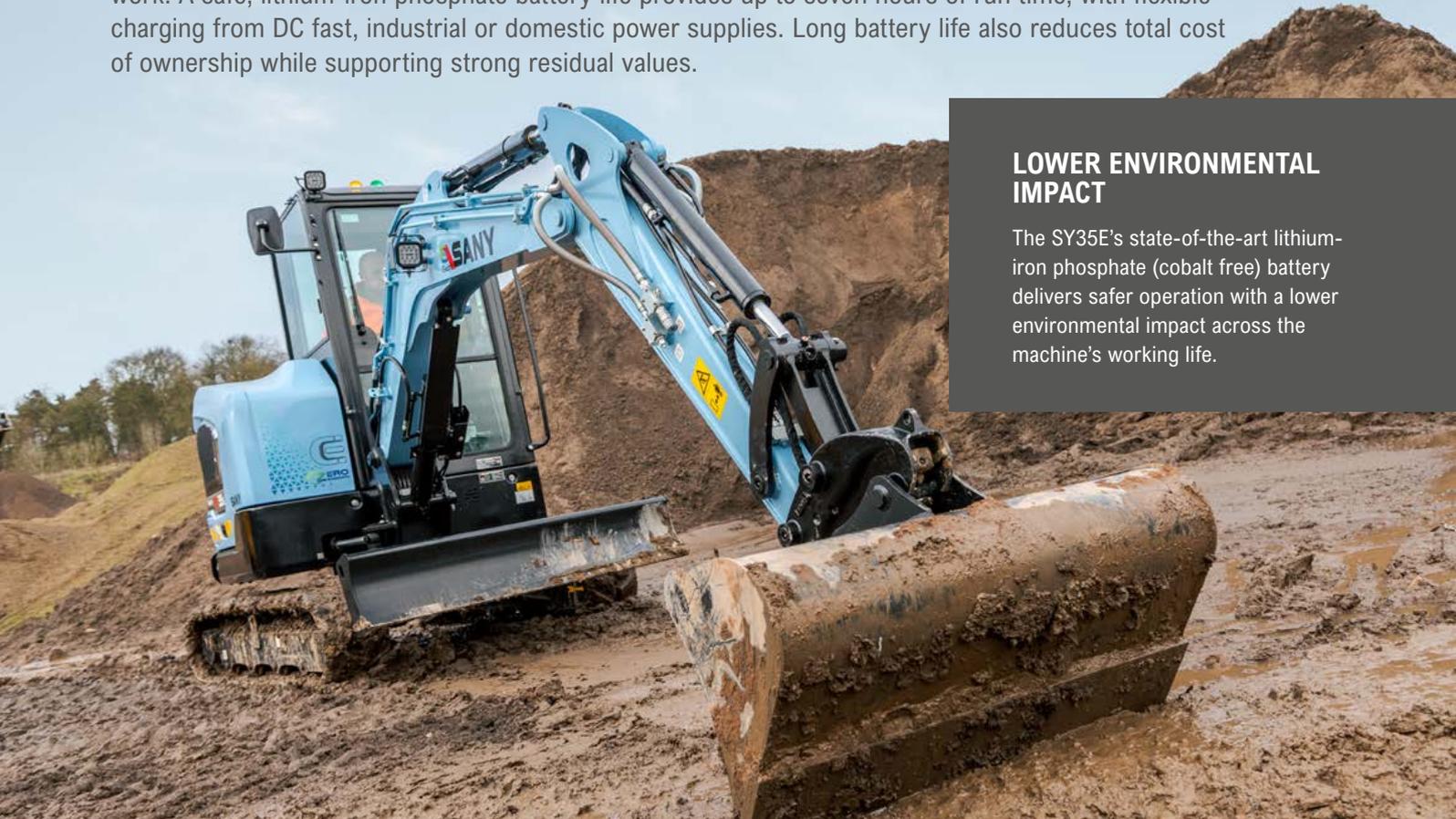
SY35E

ZERO EMISSIONS, MINIMAL DISRUPTION

The SY35E delivers fully electric, zero-emissions performance — ideal for indoor, urban and out-of-hours work. A safe, lithium-iron phosphate battery life provides up to seven hours of run time, with flexible charging from DC fast, industrial or domestic power supplies. Long battery life also reduces total cost of ownership while supporting strong residual values.

LOWER ENVIRONMENTAL IMPACT

The SY35E's state-of-the-art lithium-iron phosphate (cobalt free) battery delivers safer operation with a lower environmental impact across the machine's working life.



LONG-LIFE OPERATION

Our advanced battery technology is engineered for long-term durability, delivering sustained performance year after year. A longer battery lifespan helps reduce total cost of ownership and protects long-term residual value.

MINIMAL DISRUPTION

Ultra-low noise operation of 68 dB(A) inside and 91 dB(A) outside the machine, allows work in residential areas, indoors and during early mornings or late evenings with minimal disruption.

FLEXIBLE CHARGING OPTIONS

➔ With an automotive-grade CCS2 DC charging socket as standard, the SY35E can be charged using DC fast, industrial or domestic power — giving greater flexibility on site and between jobs. Charge times range from 1 hr on a DC charge, 6 hrs on an industrial 360v charge or 30 hrs on a domestic 240v charge.

EXTENDED RUN TIME

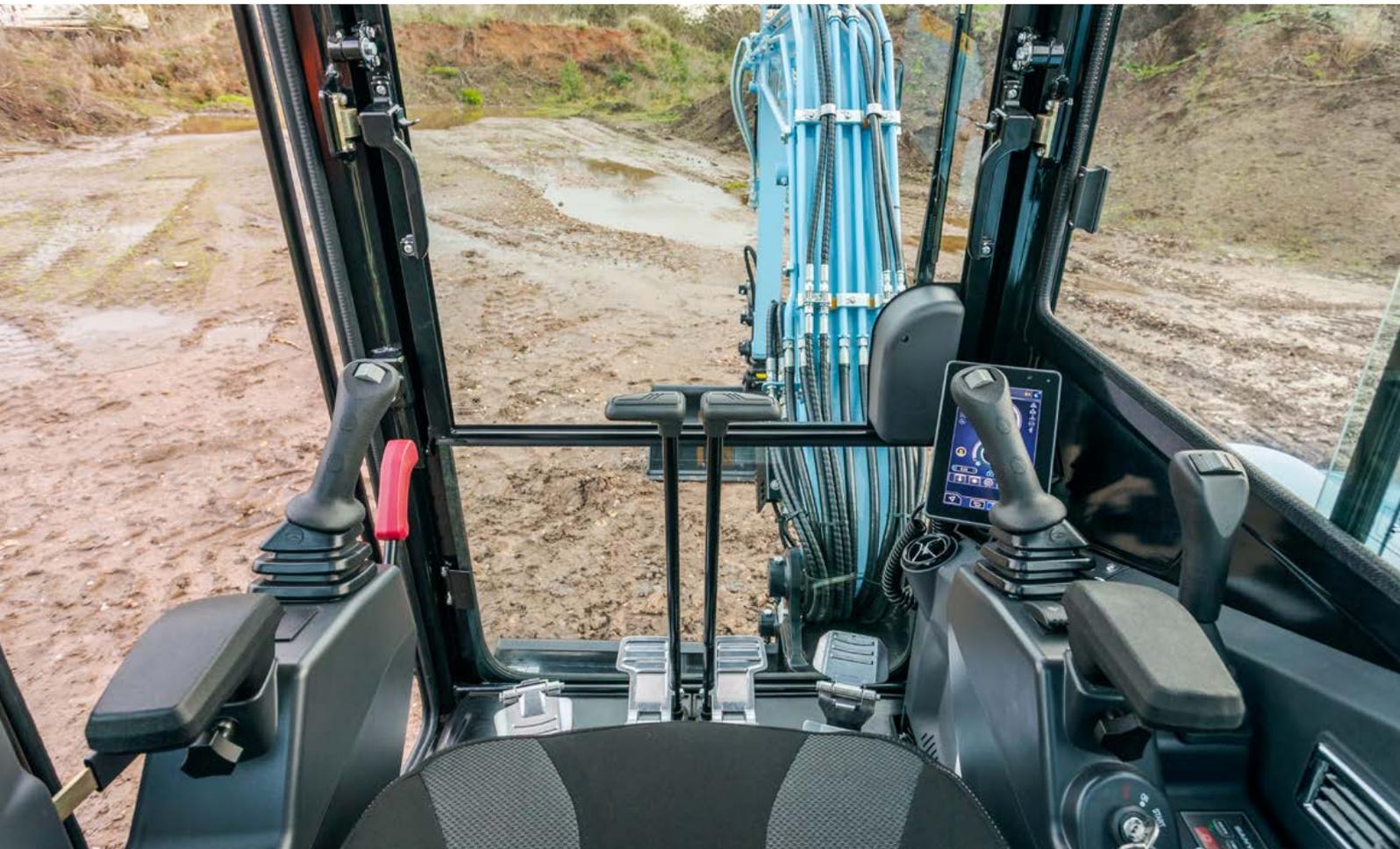
➔ Up to seven hours of run time per charge keeps the SY35E working for longer, reducing interruptions and unplanned charging stops (application and temperature dependent).



SY35E

OPERATOR ENVIRONMENT

The electric SY35E is thoughtfully equipped with a wide range of factory-fitted features designed to keep operators comfortable and productive throughout the day. From its generous sized cab to intuitive controls and streamlined charging capability, every detail is engineered to reduce fatigue, enhance efficiency, and ensure a smooth, stress-free operating experience on every job.



PREMIUM COMFORT

↑ The ergonomic operator's cab of the SY35E features a mechanical suspension seat and adjustable armrests, designed to keep operators comfortable, focused, and productive.

A standard-fit heater keeps the cab comfortable, ensuring operators remain productive in all weather conditions.

The quiet, reduced noise levels of 68 dB(A) inside the cab and 91 dB(A) outside the machine creates a more comfortable operating environment and allows the machine to work effectively in noise-sensitive areas.



TOUCHSCREEN DISPLAY

↑ Clear instrumentation and a 7" high-resolution touchscreen display make machine operation easier and more intuitive, helping operators work with confidence and precision.

JOB SITE AWARENESS

↑ The large windows, sophisticated cab design and all-round mirrors provide clear visibility of the surrounding workspace, improving operator awareness and safety on site.

EVERYDAY EASE

Joysticks with dual proportional control circuits enable safe and precise operation of the machine and its attachments.

For added comfort and practicality, the SY35E mini excavator also comes equipped with a bluetooth radio, USB socket and cup holder.

SY35E

SAFETY & SECURITY

Equipped with a comprehensive safety package as standard, the SY35E provides consistent protection for both operator and machine at all times. From the ROPS/TOPS certified cab to the intuitive emergency cut-offs and heavy duty bodywork, every element is engineered to mitigate risk, allowing operators to focus entirely on the task at hand with total confidence in their equipment.



PROTECTING BYSTANDERS

Energy efficient LED work lights are positioned on the front and rear of cab and boom for maximum versatility in poor or low light conditions.

A travel alarm and rotating warning beacon help to increase visibility, attract attention and ensure safety on site.

STRUCTURAL INTEGRITY

↑ ROPS and TOPS certification ensures the SY35E meets stringent rollover and tip over protection standards.

Heavy-duty steel bodywork provides robust protection against on-site damage, safeguarding vital structures and contributing to reduced lifetime ownership costs.

EMERGENCY SHUTDOWN

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

ADVANCED SECURITY

Lockable service doors protect critical components and fuel 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, this along with a password protected keyless stop/start function, safeguard the machine from theft and unauthorised use.



SY35E

SERVICE & MAINTENANCE

Lower maintenance demands help keep the SY35E productive and cost-effective throughout its working life. With easy access to service points, fewer moving parts, and a virtually maintenance-free battery system, servicing time and costs are significantly reduced.



MAINTENANCE MADE EASY

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

A fully electric drive with a reduced number of serviceable machine parts, reduces maintenance downtime and servicing costs.

A wide-opening engine door provides ground-level access to all key service points, ensuring that daily checks are quick, simple, and easy to perform.

ROBUST STRUCTURES

Integrated guarding for the dozer blade and hydraulic cylinders provides robust protection against on-site impacts, minimising the risk of component damage, unplanned downtime, and expensive repair work.

COMMON, PREMIUM COMPONENTS

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

Shared componentry across the range, combined with an extensive European dealer network, ensures rapid response and efficient turnaround for any machine repair.



INCREASED WORKING HOURS

← With 500-hour service intervals, maintenance frequency is reduced, lowering operating costs and improving machine availability.

The lithium-iron phosphate battery equipped with BMS (battery management system) and thermal management ensures battery life and quality during operation and charging.

SY35E

ATTACHMENTS

SANY machines offer extended capability through a broad selection of easily interchangeable attachments. This range enables efficient performance across varied tasks such as digging, drilling, land clearing, material handling, and demolition.



BUCKETS

↑ SANY provides a complete range of excavator buckets designed to enhance your machine's efficiency. From general-purpose digging buckets to more specialised options, they enable you to tackle a wide variety of job sites.

QUICK HITCH

Equipped with quick hitches as standard, SANY machines enable rapid attachment changes, helping you get more done in less time. By reducing manual labour and ensuring a secure fit, they expand the machine's versatility and keep your operations running smoothly.

BREAKERS

SANY breakers have been designed to deliver powerful breaking performance, long-lasting durability, and high efficiency. They are suitable for a wide range of applications such as quarry, tunneling, civil construction, trenching, road & landscaping etc.

GRABS

SANY excavator grabs deliver powerful, reliable material handling with high clamping force, smooth hydraulic control and durable steel construction. The result is a cost-effective, high-performance attachment that boosts productivity and control on every job.*

*SANY attachment options may vary depending on country.

SY35E

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 excavators 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.



SY35E

INTELLIGENT SUPPORT

SANY's connected tools give you clarity, confidence, and control on every project. ROOTPILOT brings precision to the bucket; EVI Telematics brings visibility to the fleet. Together, they reduce downtime, cut costs, and boost productivity. Smart technology – driving your success.



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



SANY ROOTPILOT is a high-precision 3D machine-control system that uses GNSS, IMU sensors, and smart algorithms to guide excavators in real time. It gives operators clear, intuitive 3D feedback for faster, safer, and more accurate digging.

ROOTPILOT installs quickly, works with multiple machines and attachments, and syncs designs through the cloud so every operator works from the same plan. It's ideal for highways, municipal works, and foundation projects where precision is critical.

Available in Fundamental and Premium versions, ROOTPILOT supports everything from basic grading to full 3D model guidance, offsets, layer control, and complex digital designs.

Main customer benefits:

- ±3 cm accuracy for first-time-right excavation
- Avoidance of underground utilities and hazards
- Lower fuel, labour, and rework costs
- Faster production with fewer survey checks
- Works with 2D or full 3D design models
- Boosts operator confidence and consistency

SY35E

SPECIFICATION

ENGINE

Model	Vmax
Battery type	LFP - Lithium iron phosphate battery (cobalt free)
Motor type	Permanent magnet synchronous motor
Continuous operating power	10 Kw / 2,000 rpm
Max. rated power	18 Kw / 2,200 rpm
Nominal torque	80 Nm
Rated voltage	405.72 V
Rated capacity	173 Ah
Fully charged battery capacity	70.18 kWh
Charge time	DC 1 hr / Industrial (360v) 6 hrs / Domestic (240v) 30 hrs
Run time (depending on application)	5-7 hrs

HYDRAULIC SYSTEM

Main pump	Variable-displacement axial piston pumps with electronic control
Max. oil flow	88 L/min

PERFORMANCE

Swing speed	10 rpm
Max. travel speed	High 4.2 km/h
Max. travel force	31.78 kN
Gradeability	58%/30°
Bucket capacity	0.12 m ³
Ground pressure	387 kPa
Bucket digging force (ISO)	26.51 kN
Arm digging force (ISO)	19.96 kN

SERVICE REFILL CAPACITIES

Drive (per side)	0.7 L
Hydraulic system	28 L

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

4300 kg
Note: Includes 75kg (165 lb) operator and excludes any attachments or hitch.

UNDER & UPPER STRUCTURE

Boom length	2540 mm
Arm length	1400 mm
Bottom rollers	4
Top Rollers	1
Rotation device	Axial piston motor, planetary gear, singlerow slewing ring, hydraulic parking brake.
Undercarriage	Reinforced undercarriage. Welded drive frame.

RELIEF VALVE SETTINGS

Implement circuit	24 MPa
Swing circuit	21.6 MPa
Travel circuit	24 MPa
Pilot circuit	3.5 MPa

SOUND LEVEL

Noise level inside cabin	68 dB(A)
Noise guaranteed value	91 dB(A)

SY35E

SPECIFICATION

LIFTING CAPACITIES - DOZER BLADE DOWN

Load Point Height (B)	Radius (A)				Digging Reach		
	2.0 m		3.0 m		4.0 m		Max
4.0 m kg							719* 656
3.0 m kg			671* 502				635* 455
2.0 m kg	870* 762		727* 489				612* 384
1.0 m kg	1205* 701		844* 466				640* 361
Ground line kg	1382* 667		923* 449				726* 372
-1.0 m kg	2311* 1248	1332* 664	865* 499				795* 429
-2.0 m kg	1621* 1292	945* 691					791* 623

LIFTING CAPACITIES - DOZER BLADE UP

Load Point Height (B)	Radius (A)				Digging Reach		
	2.0 m		3.0 m		4.0 m		Max
4.0 m kg							710 656
3.0 m kg			541 502				491 455
2.0 m kg	825 762		528 489				415 384
1.0 m kg	765 701		504 466				390 361
Ground line kg	727 667		487 449				402 372
-1.0 m kg	1402 1248	727 664	487 499				465 429
-2.0 m kg	1448 1292	755 691					679 623

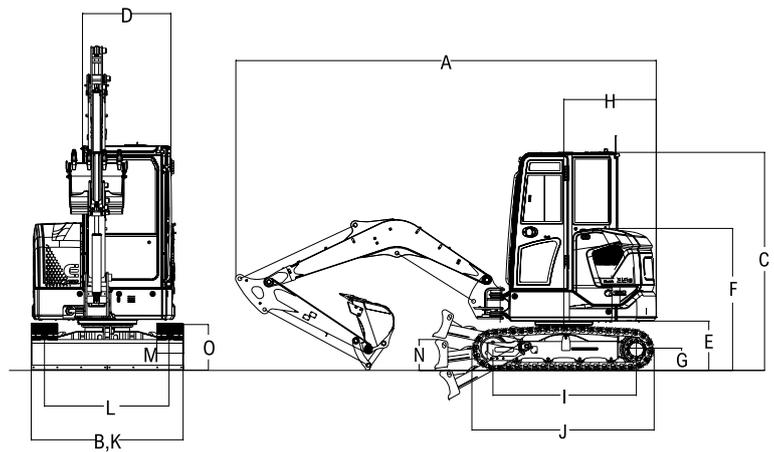
1. This capability is calculated according to GB/T 13331, ISO10567 standards. The limiting coefficient of the hydraulic system is 0.87, and the tipping coefficient is 0.75.
2. Marked with * is limited by hydraulic pressure, marked without * is limited by stability.
3. The lifting point is the support hole in front of the bucket rod (excluding the weight of the bucket). If there are additional accessories such as buckets, they should be deducted from the above lifting weight.
4. A- Radius of loading point (m), B- Loading point height (m).

SY35E

SPECIFICATION

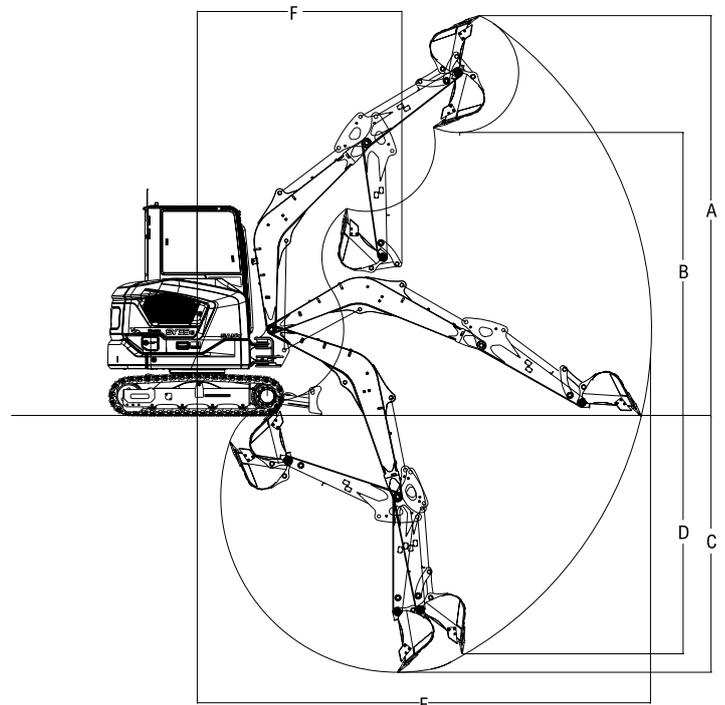
DIMENSIONS (TRANSPORT)

A	Transport length	4920 mm
B	Transport width	1720 mm
C	Height over cabin / ROPS	2615 mm
D	Cab width	1000 mm
E	Counterweight clearance	295 mm
F	Engine cover height	1665 mm
G	Min. ground clearance	295 mm
H	Tail swing radius	1100 mm
I	Track ground length	1670 mm
J	Track length	2155 mm
K	Undercarriage width (blade)	1720 mm
L	Track gauge	1420 mm
M	Track width	300 mm
N	Blade height	375 mm
O	Track height	535 mm
	Height of boom – transport	1780 mm



WORKING AREA

A	Max. digging height	4865 mm
B	Max. dumping height	3445 mm
C	Max. digging depth	3115 mm
D	Max. vertical digging depth	2640 mm
E	Max. digging reach	5480 mm
F	Min. swing radius	2475 mm
	Maximum height at minimum swing radius	5400 mm
	Max. clearance with blade up	375 mm
	Max. blade digging depth (blade down)	370 mm
	Max. boom swing angle (L)	57°
	Max. boom swing angle (R)	63°



SY35E

STANDARD/OPTIONAL EQUIPMENT

OPERATORS COMFORT / CAB

	SY35E
Mechanical suspension seat	•
Heater	•
Bluetooth radio & speaker	•
USB socket (music)	•
Adjustable armrests	•
12V outlets	•
Wiper	•
AUX 1 on joystick	•
AUX 2 on joystick	•
Stored hydraulic settings for attachments	•
Cup holder	•

WORKING LIGHTS

	SY35E
Lights x 2 – front (LED)	•
Lights x 1 – boom (LED)	•

UNDERCARRIAGE

	SY35E
Rubber tracks (300 mm)	•
Steel tracks (300 mm)	OPT
Cylinder guards – dozer blade	•
Holes / loops for fixing	•

MOTOR

	SY35E
220 - 400V charging cable (inc adapters)	•

SAFETY & SECURITY

	SY35E
ROPS and TOPS cab	•
Battery master switch	•
Travel alarm	•
Emergency stop button	•
Retractable seatbelt	•
Lockable bonnet	•
Lockable fuel cap	•
EVI telematics	•

WORKING EQUIPMENT

	SY35E
Boom and arm load holding valves with overload indicator	•
Double acting circuit for hydraulic quick coupler with piping	•
Cylinder guards - boom	•
Flow adjustments for attachments	•
1400 mm arm	•
1650 mm arm	OPT

HYDRAULIC SYSTEM

	SY35E
2 speed travel	•
Piping for AUX 1 circuit	•
Control valve with main relief valve	•
Oil suction filter	•
Return filter	•

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.

HEX - SY35E - 02.2026 - EU - V1