



SANY ENVIRONMENT

New energy products series >>>

NEW
ENERGY
PRODUCT SERIES



GREEN SERVICE ,SMART ECOLOGY.



SANY ENVIRONMENT INDUSTRY CO.;LTD

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SANY ENVIRONMENT INDUSTRY CO.;LTD



A New Benchmark For Smart Urban Environment



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PART 1 Impressions · Enterprise IMPRESSIONS

Enterprise Philosophy of SANY: Quality Changes the World
Enterprise Tenet: Create First-class Enterprises, Cultivate First-class Talents and Make First-class Contributions



GRUOP INTRODUCTION >>

Since 1989, SANY's vision to "build a first-class enterprise, foster first-class talents, and make first-class contributions to society" has never wavered. This achieved the well-known "SANY" brand in the industry.

SANY has comprehensive businesses, covering a wide range of products such as concrete machinery, excavation machinery, hoisting machinery, pavement machinery, piling machinery, wind power equipment, new energy heavy trucks, port machinery, petroleum equipment, coal equipment, prefabricated building PC and hydrogen energy equipment. We have three listed companies: SANY Heavy Industry Co., Ltd. (SH, 600031), SANY International Holdings Co., Ltd. (HK, 00631) and SANY Renewable Energy Co., Ltd. (SH, 688349) We wholly own the "No.1 brand of concrete machinery in the world" Putzmeister (Germany) and hold the share of the "global truck-mounted crane giant" Palfinger (Austria).

SANY is listed in Fortune Global 500, and our subsidiary SANY Heavy Industry ranks first in China and second in the world in the field of construction machinery. Its concrete machinery ranks first in the world and the excavator sales rank first in the world.

SANY has industrial parks in Changsha, Beijing, Shanghai, Shenyang, Kunshan, Zhuhai, and Urumqi, and has R&D and manufacturing centers in India, the United States, Germany and Brazil, with business covering more than 150 countries and regions around the world.

In addition to the main business of equipment manufacturing, SANY is also vigorously developing new businesses such as environmental protection equipment, renewable energy, residential industrialization and industrial Internet. At present, SANY has become a mature PC building industrialization equipment provider in China, and our subsidiary SANY Renewable Energy is a provider of complete solutions for wind power and renewable clean energy in China.

COMPANY INTRODUCTION >>

As a wholly-owned subsidiary of SANY, SANY Environment Industry Co., Ltd. is an enterprise specializing in the R&D, manufacturing and sales of new energy sanitation equipment and providing customers with integrated solutions for sanitation operations. It focuses on the new energy, intelligence and networking of sanitation equipment, devotes to creating high-end new energy sanitation special vehicle products, and provides customers with first-class and professional sanitation equipment products and services.

Thanks to the comprehensive advantages of SANY Group in product research and development, production and manufacturing, etc., and the experience and layout of SANY Group in the construction machinery, heavy truck and new energy industry chain, SANY Environment Industry Co., Ltd. use innovative core intelligent new energy technology and professional research and development and management teams to focus on the research and development of new energy and intelligent sanitation equipment, and actively explore intelligent unmanned sanitation equipment, actively promote the unmanned sanitation operation, and aim to be a leading equipment and service provider in the domestic sanitation machinery and equipment and intelligent sanitation robot industry.

SANY Environment Industry Co., Ltd. is committed to building a "lighthouse factory" and a digital sanitation smart cloud platform for new energy sanitation equipment, creating an overall sanitation operation solution for the whole industry chain system of "sanitation service + operation equipment + smart platform" and "front-end + middle-end + terminal + comprehensive service", and becoming an industry-leading (industry first) service-oriented, technology-oriented, platform-based and international overall sanitation operation solution provider.

SANY Environmental Industry Co., Ltd. adheres to the concept of "Quality Changes the World" and contributes to the sustainable development of sanitation in China and the world.



PART 2

Wisdom · Advantages
WISDOM >>>

Advanced Battery, Motor and Electronic Control Technologies in the Industry

The integrated vehicle control system independently developed by SANY can accurately match the needs of different working conditions, and ensure efficient energy output and distribution at all times, allow the vehicle to think and be more energy-saving; the large-capacity and high-performance lithium iron phosphate battery is equipped with an intelligent water-cooled heat dissipation system to always ensure that the battery works in the optimal temperature range and has an ultra-long service life; matched with the gold transmission chain, the system can achieve super power and performance.

Vehicle Integration

The integration of chassis and upper body design, manufacturing and service is the future of electric sanitation vehicles. The integrated electric chassis of sanitation vehicles self-developed by SANY Environmental Industry Co., Ltd. brings customers better performance and more comfortable driving experience; the integrated layout achieves lightweight, space utilization and more capacity; the vehicle is equipped with integrated large screen for entertainment, monitoring, upper body operation control and 360° view, providing good operation experience and safer operation.

Smart Lighthouse Factory

SANY Smart "Lighthouse Factory" has deployed a "smart manufacturing management system" and established a unified production data model to truly realize the full digital drive in the production process. High-standard control is carried out throughout the whole process from digital management, manufacturing quality, system control and other aspects to comprehensively ensure product consistency and good quality.





SANY



PART 3 Innovation · Products
INNOVATE

01 Pavement cleanings



01 Electric Low-entry Sweeper Truck
12T

Electric low-entry sweeper truck is a new generation of electric special cleaning vehicles for urban environmental sanitation independently developed and designed by SANY Environment. The design concept of low entry, high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric sweeper trucks that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable, which are suitable for cleaning and sweeping operations on urban roads.

The truck has a low-entry pure electric chassis specially for sanitation independently developed by SANY, integrated design of vehicle layout, control system, cooling system, etc. It is equipped with large integrated screens such as entertainment, monitoring system and upper body control, featuring excellent performance, comfortable driving and riding, good operating experience. It is a sweeping vehicle integrating the functions of road sweeper and high-pressure cleaning truck.

Performance Feature

12T Electric Low-entry Sweeper Truck

Self-developed chassis for safe and convenient operation

Self-developed integrated special chassis, with integrated design of chassis upper assembly without modification, one step ≤ 380mm. It can be get on in one step and walk upright; the field of vision is increased by more than 25%, and automatic parking makes it safer.

Super-large capacity for efficient operation

The super-large water tank with a ratio of 6.5/4m³ can save the water filling time once a day, with the electric quantity allowing for continuous operation for 6-8 hours and continuous spraying operation for 80 min; single sewage outlet.

Ultra-low energy consumption and low use cost

Three-motor direct drive: The fan motor, high-pressure water pump and hydraulic oil pump are driven separately by a flexible combination of motors to achieve efficient operation; the backward fan is arranged in a straight suction type with short gas flow channel and small wind resistance; the pneumatic conveying system has high efficiency, with 22 kwh energy consumption under standard operation, energy consumption for operation is low.

High-speed and intelligent operation

Industry-leading ultra-high speed operation: the maximum sweeping speed reaches 15km/h, with a cleanliness rate of 97%; self-adaptive sweeping: when the sweeping brush is worn, it automatically adjusts its height from the ground to ensure the cleaning effect and save time, effort and labor; with the function of automatic start and stop for brake sweeping operation, thus ensuring driving safety.

Large console screen and easy operation

The integrated control and monitoring large touch screen is easy to operate; real-time mastery of operation status, intelligent water consumption prediction, sewage tank prompt, low water level voice alarm, pump water shortage protection, etc.; real-time switching of operation mode, convenient operation.

Multi-purpose truck with complete functions

9 operation modes, 3 operation capacities and strong site adaptability; high sweeping, dry sweeping, self-cleaning, hand-held spray gun and other operation functions; one vehicle for multiple purposes.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5121TXSSYABV
	Chassis model	/	SANY environmental sanitation chassis SYM1120T1 BEVL1
	Total mass	kg	12495
	Curb weight	kg	9250
	L×W×H	mm	7540×2340×3050
	Total capacity of power battery	kW.h	182.65/CALB
	Rated power/speed/torque of motor	kw/rpm/Nm	80/1910/400
Operating performance parameters	Capacity of clean water tank	m ³	6.5
	Sewage tank capacity	m ³	6.0(active 4.0)
	Maximum continuous water spray time for standard washing	min	80
	Energy consumption of standard washing operation	kW.h	22
	Maximum sweeping capacity	m ² /h	70000
	Maximum inhaled particles	mm	110
	Width of pavement sweeping	m	3.5
Sweeping speed	km/h	3-20	
Standard washing operation time for single charging	h	6-8	

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02 Electric Low-entry Sweeper Truck

18T

Electric low-entry sweeper truck is a new generation of electric special cleaning vehicles for urban environmental sanitation independently developed and designed by SANY Environment. The design concept of low entry, high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric sweeper trucks that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable, which are suitable for cleaning and sweeping operations on urban roads.

The truck has a low-entry pure electric chassis specially for sanitation independently developed by SANY, integrated design of vehicle layout, control system, cooling system, etc. It is equipped with large integrated screens such as entertainment, monitoring system, 360° all-around viewing and upper body control, featuring excellent performance, comfortable driving and riding, good operating experience. It is a sweeping vehicle integrating the functions of road sweeper and high-pressure cleaning truck.

Performance Feature >>

18T Electric Low-entry Sweeper Truck

Self-developed chassis for safe and convenient operation

Self-developed integrated special chassis, with integrated design of chassis upper assembly without modification, one step ≤ 380mm. It can be get on in one step and walk upright; the field of vision is increased by more than 25%, and automatic parking makes it safer.

Super-large capacity for efficient operation

The super-large water tank with a ratio of 9.5/6.0 m³ can save the water filling time once a day; allowing continuous operation for 6 ~ 8 hours, and one continuous spraying operation time of 98 min; two sewage outlets, with fast sewage discharge speed, saving half an hour of sewage discharge time every day. 105 min, 22% better than the same model in the industry

Ultra-low energy consumption and low use cost

Dual-motor direct drive: The fan is driven by an independent motor, and the high-pressure water pump and hydraulic oil pump share one motor, with low energy consumption and good economic efficiency; efficient overhead fan technology: special fan, top direct suction arrangement, short gas flow channel, and high fan efficiency; high-efficiency pneumatic conveying system: standard operation energy consumption of 28 kWh, low operation energy consumption.

High-speed and intelligent operation

Industry-leading ultra-high speed operation: the maximum sweeping speed reaches 20km/h, with a cleanliness rate of 96%; self-adaptive sweeping: when the sweeping brush is worn, it automatically adjusts its height from the ground to ensure the cleaning effect; with the function of automatic start and stop for brake sweeping operation, thus ensuring driving safety.

Large console screen and easy operation

The integrated control, monitoring and 360° all-around viewing large touch screen is easy to operate; real-time grasp of operation status, intelligent water consumption prediction, low water level voice alarm, pump water shortage protection, etc.; real-time switching of operation mode and convenient operation.

Multi-purpose truck with complete functions

9 operation modes, 3 operation capacities and strong site adaptability; functions such as high-pressure self-cleaning, hand-held spray gun, optional impinging, corner spraying and rear spraying, which can realize multi-purpose of one vehicle; high pressure self-cleaning, good water-saving effect, automatic cleaning of filter screen, saving time and labor.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5180TXSSYBBEV
	Chassis model	/	SANY environmental sanitation chassis SYM1181T1BEVL2
	Total mass	kg	18000
	Curb weight	kg	13400
	L×W×H	mm	9150×2500×3150
	Total capacity of power battery	kW.h	243/Gotion
	Rated power/speed/torque of motor	kw/rpm/Nm	120/2292/500
Operating performance parameters	Capacity of clean water tank	m ³	9.5/CALB
	Sewage tank capacity	m ³	8.0 (effective value: 6.0)
	Maximum continuous water spray time for standard washing	min	98
	Energy consumption of standard washing operation	kW.h	28
	Maximum sweeping capacity	m ² /h	70000
	Maximum inhaled particles	mm	110
	Width of pavement sweeping	m	3.5
	Sweeping speed	km/h	3-20
Standard washing operation time for single charging	h	6-8	

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03 Electric Sprinkler Truck
18T

The electric sprinkler truck is a high-quality multifunctional sprinkler truck independently developed and designed by SANY Environmental Sanitation. The design concept of high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric sprinkler trucks that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable. The truck can be applied to high-pressure cleaning and low-pressure watering of urban roads.

The vehicle has an integrated SANY special electric chassis, integrated design of vehicle layout, control system, cooling system, etc., and integrated large screen for monitoring and upper body control, to provide excellent performance, comfortable driving and good operation experience.

Performance Feature

18T Electric Sprinkler Truck

High-quality chassis with good trafficability

Equipped with lithium iron phosphate battery and intelligent water-cooling heat dissipation system, it has stable and reliable performance and strong battery life; with zero restructuring, the chassis structure and anticorrosive coating are not damaged, and the whole vehicle is better protected against corrosion; with a 4.1 m ultra-short wheelbase and 7 m turning radius, 4-lane U-turn can be completed at one time.

Comprehensive protection, safe and worry-free

The protection level of battery, motor and controller is not lower than IP67 to ensure the safety of the whole vehicle; the intelligent maintenance prompt system helps customers manage the maintenance cycle and makes maintenance more worry-free; an upper electrical protection program is provided to automatically shut down the motor in case of overtemperature or overspeed to avoid damage to the high-pressure water pump.

New sprinkler rack, high-performance

The cleaning width is 4.1 m, which is the widest in the industry; it does not block lights when driving at night, making it safer; automatic obstacle avoidance + automatic reset of side spray rod; warning lights at the widest position, ensuring high safety.

Large console screen and easy operation

Large touch screen, one-key operation control; real-time display of parameters.

Reinforced Water Tank, Corrosion Resistant and Durable

High-strength Q355B steel plate with a wall thickness of 5 + 4 mm, the thickest in the industry, solid and reliable; Aksu heavy anti-corrosion paint is watertight and rustproof throughout the service life.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5181GQXSVCBEV
	Chassis model	/	SANY chassis SYM1183T1BEVH1
	Total mass	kg	18000
	Curb weight	kg	7615
	L×W×H	mm	8060×2500×2640
	Total capacity of power battery	kW.h	142.2/CALB
	Approach/departure angle	°	12/14
	Front extension/front suspension/rear suspension	mm	880/1300/1780
Operating performance parameters	Cleaning speed	km/h	5-20
	Watering speed	km/h	3-25
	Cleaning width of front spray frame	m	4.1
	Deflection angle of front spraying frame	°	±30
	Maximum volume of clean water tank	m ³	11.2
	Front flushing width	m	≥8
	Hedge flushing width	m	≥24
	Watering width	m	≥14
Pump lift	m	110	
Range of high-pressure water gun	m	≥38	

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04 Electric Sprinkler
18T

The electric sprinkler is a high-quality multifunctional sprinkler independently developed and designed by SANY Environmental Sanitation. The design concept of high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric sprinklers that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable. It is suitable for low-pressure sprinkling, cleaning, cooling and dust reduction and greening irrigation operations on urban roads.

SANY electric chassis specially for environmental sanitation is adopted. The chassis can be re-adjusted according to the working conditions of sprinkler truck, with more reasonable load distribution on front and rear axles, excellent vehicle performance, comfortable driving and riding, and good operating experience.

Performance Feature

18T Electric Sprinkler

High-quality chassis with good trafficability

Self-developed special chassis, collaborative design of chassis upper assembly, zero modification and high corrosion resistance; with a 4.1 m ultra-short wheelbase and 7 m turning radius, 4-lane U-turn can be completed at one time.

Reinforced Water Tank, Corrosion Resistant and Durable

High-strength Q355B steel plate with a wall thickness of 5 + 4 mm, the thickest in the industry, solid and reliable; Aksu heavy anti-corrosion paint is watertight and rustproof throughout the service life.

Complete configuration with many choices

Standard configuration: front flushing, opposite flushing, rear sprinkling and sprinkler gun; optional configuration: low-pressure cleaning reel, 30 m small electric mist gun, side spray shower, high-level shower, intelligent water cannon, double opposite flushing, flush nozzle and other multifunctional options.

Optimal selection of suppliers, excellent quality

First-class quality suppliers, water pumps, nozzles, water cannons, ball valves and pneumatic valve groups are all selected from industry's quality suppliers with reliable performance.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5181GQXSYCBEV
	Chassis model	/	SANY chassis SYM1183T1 BEVH1
	Total mass	kg	18000
	Curb weight	kg	7300
	L×W×H	mm	7340×2500×2640
	Total capacity of power battery	kW.h	142.2/CALB
	Approach/departure angle	°	17/14
	Front extension/front suspension/rear suspension	mm	160/1300/1780
Operating performance parameters	Maximum volume of clean water tank	m ³	11.2
	Watering speed	km/h	3-25
	Rated speed of water pump	r/min	1100
	Rated flow of water pump	L/min	833
	Pump lift	m	110
	Front flushing width	m	≥8
	Hedge flushing width	m	≥24
Watering width	m	≥14	
Range of high-pressure water gun	m	≥38	

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05 Electric Maintenance Vehicle
4.5T

The electric maintenance vehicle is a multi-functional road maintenance vehicle independently developed and designed by SANY Environment. The design concept of high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric road maintenance vehicles that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable. It is suitable for cleaning urban roads and curbs, and removing small advertisement stickers.

Foton BJ1042EVJA2 chassis is adopted, with excellent vehicle performance, comfortable driving and riding, and good operating experience. It has the functions of high-pressure road surface cleaning, curb cleaning, manual cleaning and spraying dust suppression. The small and flexible body is an effective supplement to large urban cleaning products. It is suitable for the cleaning and cleaning of various public facilities such as squares, urban auxiliary roads, non-motorways, back streets and alleys, residential areas.

Performance Feature

4.5T Electric Maintenance Vehicle

Excellent quality, durability

Imported core components: Aire high-pressure water pump, PA pressure regulating valve and Lecle nozzle are adopted to ensure reliable performance; mold forming aluminum spray rod ensures flush water curtain and better cleaning effect.

Powerful water pump, comprehensive functions

41 L ultra-large volume water pump is equipped as standard configuration, with large cleaning flow and good effect; ultra-wide front spraying frame, with a maximum cleaning width of 2 m; spot spraying with an ultra-wide range of movement, with a wide cleaning range; universal angle spraying, with 14 MPa ultra-high pressure water flow without blind angles to clean stubborn stains.

Ultra-large volume and ultra-long operation

The integrated corrugated reinforced water tank is durable; the super-large water tank has a capacity of 2.6 m³, and a single tank of water can work continuously for 85 min.

Special chassis, energy-saving and efficient

Comfortable chassis, complete configuration, large central control screen, quick and slow charging, dual power windows; side-mounted power battery for high driving stability; 3 operation modes to accurately match the operation requirements with lower energy consumption; water level monitoring and motor control linkage to prevent water pump damage.

Multiple options, personalized and considerate

A variety of optional configurations are provided to meet the personalized needs of users, such as floor washing tray, rear spraying, hand-push cleaning trolley and arrow light.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5040TYHFTABEV
	Chassis model	/	Foton BJ1042EVJA2
	Total mass	kg	4495
	Curb weight	kg	2650
	L×W×H	mm	5165×1900×2200
	Total capacity of power battery	kW.h	55.7/CATL
	Approach/departure angle	°	10/22
	Front extension/front suspension/rear suspension	mm	220/1080/1015
Operating performance parameters	Water tank capacity	m ³	2.6
	Cleaning speed	km/h	3-15
	Qty. of high pressure water pumps	L/min	41
	Pavement cleaning width	m	1.8
	Deflection angle of front spray bar	°	±20
	Hydraulic line pressure	Mpa	14 (hand-held spray gun powerful cleaning mode)
Noise of standard operation	dB(A)	80	

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06 Electric Road Sweeper
2.5T

The 2.5T electric road sweeper is a high-performance suction and license-free road sweeper independently developed by SANY Environment. The road sweeper adopts the operation modes of "combination of sweeping and suction", "sewage circulation" and "high-level unloading". The whole machine is equipped with a self-made articulated chassis, which has the characteristics of convenient charging, strong power, ultra-long battery life, efficient operation, flexibility, etc. Its working performance reaches the advanced level at home and abroad, providing customers with easy-to-use, durable and worry-free use experience.

The SANY road sweeper is good-looking in shape and strong in cleaning ability. It is especially applicable for the cleaning operation of urban auxiliary roads, narrow roads, non-motor vehicle lanes, sidewalks, pedestrian streets, green belts, parks, schools, scenic spots, residential communities and other areas that are inaccessible or not conveniently accessible by large-sized road sweepers.

Performance Feature

2.5T Electric Road Sweeper

Quick charging, recharging everywhere

Multiple options of fast/slow charging: Meet various public and household charging scenarios, realize high-voltage fast charging and low-voltage slow charging, with free choice; super fast charging: high-voltage charging time ≤ 1.5 h, recharging for 30 min, obtaining battery life of 4 h.

Ultra-large volume, ultra-long battery life

Ultra-large volume: 180 L large clean water tank and 750 L large waste bin, which saves the times of water filling and unloading and realizes efficient operation; long operation time: one time of water filling and 140 min operation under standard working conditions.

Strong power, curb climbing

Efficient chassis: The chassis drive adopts large torque, with a maximum gradeability of 25% and a maximum speed of 25 km/h; the industry's first curb climbing: It can climb 150 mm curbstone and work on the auxiliary sidewalk.

High-speed operation Quick transfer

Ultra-high speed operation: The cleaning operation speed is up to 7km/h, the cleanliness rate is 95%, and the maximum operating speed is 10 km/h; fast transition: The maximum transition speed of the whole vehicle is 25 km/h.

Human-machine interaction, safe operation

Large touch screen + physical keys: Integrated control and monitoring functions, realizing quick operations such as one-key operation and cruise control; operation safety: The whole machine is equipped with work lights, flashing lights, indicator lights and anti-collision protection blocks, which are safe and eye-catching.

Water-air side blowing, combined operation (optional)

7 Efficiency improvement of purging: Optional water-air side blowing device, with one-time sweeping covering the whole footpath; joint operation: Blow the garbage to the motorway, and the sweeper truck operates on the motorway to realize all garbage collection.

	Item	Unit	Parameter
Vehicle parameters	Vehicle model	/	SYR0251SLJSYABEV-A1
	Chassis model	/	SANY hinged type 4*2
	Total mass	kg	2500
	Curb weight	kg	1700
	L×W×H	mm	3855×1215×2243
Operating performance parameters	Capacity of clean water tank	L	180
	Volume of dustbin	L	750
	Operating speed	km/h	3-10
	Continuous operation time	h	6-8
	Charging time	h	1.5 (quick charging)
	Capacity of power battery	kW.h	44/35 (optional)
	Cleaning method of waste bins	/	High-level unloading
	Sweeping width	m	1.8
Maximum gradeability	%	25	

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07 Electric Multi-functional Dust Suppression Vehicle

18T

Electric multi-functional dust suppression vehicle is independently developed and designed by SANY Environment, which is modified on the basis of chassis of class-II pure electric vehicles of Dongfeng Trucks. The vehicle has environment-friendly dust removal air-assisted sprayer which is safe and reliable, has wide spray range, is energy saving and environment-friendly and has low noise and less water consumption. It can be used for haze control, dust removal, cooling in urban streets, dust suppression in industrial and mining enterprises, etc.

And it has all functions of a sprinkler, including front flushing, counterflow, rear sprinkling and long-distance water cannon. It is capable of sprinkling, cooling and flushing on road surface. It satisfies demand for urban billboard cleaning and highway green belt irrigation.

Performance Feature >>

18T Electric Multi-functional Dust Suppression Vehicle

High-end chassis for environmental sanitation

Dongfeng Tianjin chassis has the highest recognition in the industry; intelligent water cooling and heat dissipation system helps to improve battery endurance; IP67 voltage, arc and static protection is provided; battery warranty is provided for 200,000 km over 5 years; integrated upper body control and thermal management allow easier maintenance.

Large volume, long operation time

The water tank volume is 11.4 m³, leading in the industry; spraying for 100 min, increased by 10%; additional operation of 2 km for a sing tank of water; sand blasting pretreatment + Akzo paint, less rust.

Intelligent operation

Use of large central control screen and Android system allows easy and smooth operation; one-key control is easily operable; all-round operation control + reversing monitoring are provided; operating parameters, remaining water volume and remaining operating time are displayed in an intelligent and real time manner; operation is remotely controlled at 100 m distance.

Rich functions, safe and reliable

8 m sector shovel flushing, 24 m opposite flushing water column flushing, 14 m sector water curtain sprinkling and 38 m range water cannon, which can be used for fire fighting; intelligent maintenance system; overtemperature and overspeed shutdown protection of auxiliary motor and controller; idling emptying spray pump without freezing damage.

High-performance spray system

Aluminum die-casting hub, high strength, light weight and high dynamic balance; sickle-shaped PAG blades, 15% higher air volume and 10% higher wind pressure than industrial wing structure; direct motor drive blades, simpler and more efficient; hydromechanical design, with small wind resistance and 5 db(A) lower noise. With the industry's first integrally polyurethane foamed air duct, without resonance; central rocket nozzle + outer ring spray, with no interference of spray; atomizing nozzle, with finer water mist particles and longer drifting time in the air; the air duct is seamlessly welded as a whole, without siphon negative pressure interference from the nozzle.

Spray system has imported diaphragm water pump, providing <3kw energy consumption and 50% energy efficiency increase. It is the first motor-driven diaphragm water pump in the industry. Spray pump is anti-corrosion type. As no large-sized hydraulic system is required, maintenance is reduced and is much easier.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5180TDYDFABEV
	Chassis model	/	Dongfeng TianjinEQ1180GEVJ1
	Total mass	kg	18000
	Curb weight	kg	11000
	L×W×H	mm	10520×2520×3785
	Total capacity of power battery	kW.h	282/CATL
	Approach/departure angle	°	16/13
	Front extension/front suspension/rear suspension	mm	1400/2100/1720
Operating performance parameters	Maximum volume of clean water tank	m ³	11.4
	Spray velocity	km/h	3-25
	Maximum spraying range	m	≥100
	Maximum spraying height	m	≥35
	Pitch angle/steering angle of fog gun	h	-10-50/±90
	Maximum spraying operation time	min	>100
	Watering speed	km/h	3-25
	Watering width	m	≥14
Hedge flushing width	m	≥24	
Duckbill flushing width	m	≥8	

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08 Electric Watering Lorry
18T

Electric watering lorry is a multi-functional watering lorry independently developed and designed by SANY Environment. The design concept of high safety, excellent performance, reliable operation, large capacity and light weight is adopted to provide customers with electric watering lorries that are beautiful, efficient, energy-saving, safe, comfortable, stable and reliable. It is for low-pressure sprinkling, cleaning, cooling and dust reduction on urban roads, landscaping and irrigation, construction site dust suppression, etc.

SANY pure electric chassis for environmental sanitation is used, and the chassis is re-adjusted considering working conditions of watering lorry. Load distribution on front and rear axles is more reasonable, the whole vehicle has excellent performance and provides comfort in driving and riding and pleasing operating experience.

Performance Feature >>

18T Electric Watering Lorry

High-quality chassis with good trafficability

Collaborative design of chassis and upper body, zero change and high corrosion resistance; 4.1 m ultra-short wheelbase, 7 m turning radius, 4-lane turning around at one time; 17° ultra-large approach angle, the highest trafficability in the industry without touching duckbill; side mounting of power battery provides low center of gravity and high driving stability.

Complete Configuration and Functions

Standard configuration: front flushing, counterflow, rear sprinkling, sprinkler, side spraying shower and high-level shower; optional configuration: low-pressure cleaning reel, 30 m electric small mist cannon, intelligent water cannon, optional double counterflow and small flushing nozzles.

Reinforced Water Tank, Corrosion Resistant and Durable

5+4 mm thick high-strength Q355B steel plate is used, which is the thickest in the industry and solid and reliable; Akzo heavy anti-corrosion paint prevents leakage or rust throughout the life cycle.

Optimal selection of suppliers, excellent quality

First-class quality suppliers, water pumps, nozzles, water cannons, ball valves and pneumatic valve groups are all selected from industry's quality suppliers with reliable performance.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5181GQXSYDBEV
	Chassis model	/	SANY Chassis SYM1182T1 BEVH1
	Total mass	kg	18000
	Curb weight	kg	6985
	L×W×H	mm	7340×2500×2640
	Total capacity of power battery	kW.h	94.47/CALB
	Approach/departure angle	°	17/14
	Front extension/front suspension/rear suspension	mm	160/1300/1780
Operating performance parameters	Maximum volume of clean water tank	m ³	11.2
	Watering speed	km/h	3-25
	Rated speed of water pump	r/min	1100
	Rated flow of water pump	L/min	833
	Pump lift	m	110
	Front flushing width	m	≥8
	Hedge flushing width	m	≥24
Watering width	m	≥14	
Range of high-pressure water gun	m	≥38	

PART 3 Innovation · Products
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02 Solid waste collection and transfer category



01 Electric Low-entry
Compression
Garbage Truck 12T

Electric low-entry compression garbage truck from SANY Environment represents the mainstream product among the new generation of pure electric environmental sanitation collection and transportation vehicles. It is designed for the flow or centralized collection of domestic waste in various locations such as residential quarters, urban streets, hotels, government agencies, colleges, and rural roads. This truck efficiently compresses waste during collection and transports it to transfer stations or terminal treatment plants. It currently stands as the most ideal waste treatment equipment, combining waste collection, compression, transfer, and self-dumping functionalities.

This truck features a self-developed low-entrance chassis and a rear loading upper part. Boasting remarkable advantages such as high safety standards, large loading capacity, minimal noise levels, high efficiency, and exceptional reliability and durability.

Performance Feature

12T Electric Low-entry Compression Garbage Truck

Self-developed chassis for safe and convenient operation

Low entrance, one-step boarding and upright driving are easier and safer; field of vision is extended by more than 25% and automatic parking is applied; loading capacity is increased by 20%; no modification is required; electric leakage, air leakage, rust and fracture are avoided; liquid-cooled battery is more durable and increases service life by 20%.

Super-large capacity for efficient operation

Integrated whole vehicle design maximizes utilization of space; the newest lifting technology in the country is applied which allows faster feeding and higher efficiency; the maximum loading capacity, can effectively reduce frequency of collection and transport and improve work efficiency.

Ultra-low noise to avoid environmental disturbance

Low-noise pump is used, displacement and speed are re-matched, low-noise working range is applied to reduce noise; proportional valve and system control logic is optimized to allow accurate speed control in different operating conditions and reduce impact; buffer cylinder technology is developed to provide buffering at start and stop to reduce noise.

Garbage visualization and intelligent operation

Visualized garbage volume and real-time display of garbage loading position allows easier operation; the weighing system provides accurate data for management and allows more intelligent operation; reverse monitoring allows pleasing use of the vehicle.

Reliable design for longer

Key hydraulic-electric components are from well-known brands in the industry, which are sophisticated and reliable; high-strength plates are used for key parts; NM450 is used for arc plate at precompressor bottom so that wear resistance is up to 3-5 times that of ordinary carbon steel; sliders made of ultra-high molecular polyethylene, which has higher wear resistance, corrosion resistance and water resistance.

Upgraded configuration, convenient and easy to use

Garbage bin hanging operation is changed from knob operation to handle operation, which makes the operation easier and more reliable; standard pneumatic control in automatic mode for rear door opening allows safer and easier operation; maintenance-free design saves time and labor for sanitation operations.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5120ZYSSYABEV
	Chassis model	/	SANY Chassis SYM1121T1 BEVL1
	Total mass	kg	12495
	Curb weight	kg	8400
	L×W×H	mm	7630×2300×2790
	Total capacity of power battery	kW.h	150/Gotion
	Approach/departure angle	°	13/15
	Front/rear suspension	mm	1750/2205
Operating performance parameters	Effective volume of dustbin	m ³	8.5
	Packer volume	m ³	1.4
	Sewage tank capacity	L	550
	Loading cycle time	s	≤13
	Loading cycle duration	s	≤9
	Unloading cycle duration	s	≤45
	Charging time	h	1.2-1.5

PART 3 Innovation · Products
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02 Solid waste collection and transfer category



02 Electric Compression
Garbage Truck
18T

Electric compression garbage truck from SANY Environment represents the mainstream product among the pure electric environmental sanitation collection and transportation vehicles. It is designed for the flow or centralized collection of domestic waste in various locations such as urban streets, hotels, government agencies, colleges, and rural roads. This truck efficiently compresses waste during collection and transports it to transfer stations or terminal treatment plants. It currently stands as the most ideal waste treatment equipment, combining waste collection, compression, transfer, and self-dumping functionalities.

The truck applies rear loading and power compression technology so that it has advantages such as high loading capacity, high loading efficiency, high bearing capacity, reliability and durability.

Performance Feature

18T Electric Compression Garbage Truck

High-end chassis for environmental sanitation

Dongfeng Tianjin chassis has the highest recognition in the industry; intelligent water cooling and heat dissipation system helps to improve battery endurance; IP67 voltage, arc and static protection is provided; battery warranty is provided for 200,000 km over 5 years; integrated upper body control and thermal management allows easier maintenance.

Large loading capacity and high transfer efficiency

Two-way compression technology is applied for optimizing hydraulic system and pressing and filling mechanism to improve single loading capacity; push plate cylinder is arranged obliquely to optimize layout and provide up to 13.2m³ effective volume of the box; double pump confluence: compressing while loading is allowed to improve work efficiency.

Reliable quality and durability

The key hydraulic electrical components are mature and reliable products of well-known brands in the industry. High-strength weathering plates are used for the side bottom plate of the box, NM450 is used for the arc plate at the bottom of the stuffer, and SG700S high-strength plates are used for the sideway of the compression mechanism, which have better wear resistance, strong corrosion resistance, durability and reliability.

Multiple guarantees, reliable sealing

Use of automatic locking device of hydraulic lock of precompressor prevents sewage leakage and provides effective sealing. Sewage tank of the precompressor has anti-splashing structure which prevents sewage from being thrown out during turning and sudden braking. Sewage collection device is provided which provides protection against secondary pollution.

Strong adaptation to feeding mode
Automatic backdoor

High adaptability and high compatibility allow easy loading into garbage bins of different specifications. Precompressor back door has automatic cylinder opening and closing structure so that operation is easier and safer and garbage overflow is avoided and high sealing performance is provided.

Multiple protection for safer maintenance

Emergency stop switch is provided to ensure safety; unloading mode and loading mode are interlocked; lifting by precompressor is interlocked with push by push shovel, and push shovel cannot be pushed out if precompressor is not lifted; balance valve is used for lifting cylinder to ensure components safety; mechanical safety supports are provided to protect personnel safety.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5180ZYSDFABEV
	Chassis model	/	Dongfeng Tianjin DFH1180BEV1
	Total mass	kg	18000
	Curb weight	kg	11400
	L×W×H	mm	8835×2540×3050
	Total capacity of power battery	kW.h	210.56/CATL
	Approach/departure angle	°	16/17
	Front/rear suspension	mm	1400/2530
Operating performance parameters	Effective volume of dustbin	m ³	13.2
	Packer volume	m ³	1.4
	Sewage tank capacity	L	440
	Loading cycle time	s	≤13
	Loading cycle duration	s	≤10
	Unloading cycle duration	s	≤45
	Charging time	h	1.2-1.5

PART 3 Innovation · Products
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02 Solid waste collection and transfer category



03 Electric Low-entry Kitchen
Garbage Truck

12T

12T low-entry kitchen garbage truck is a kind of electric environmental sanitation collection and transportation equipment independently developed, designed and produced by SANY Environment. The vehicle is good-looking and elegant in appearance design, and has the advantages of high safety, high loading capacity, no spillage, high cleanliness and good tightness.

All-around leading technologies are applied to produce a kitchen waste truck that has higher loading capacity.

Performance Feature

12T Electric Low-entry Kitchen Garbage Truck

Self-developed chassis for safe and convenient operation

- One step and upright crossing allow easier getting on and off;
- Getting on and off at right side eliminates the need to worry about traffic flow at the left side.

Super-large box, high loading capacity

- The main material of the box is 304 stainless steel, which has strong corrosion resistance
- The highest loading capacity, 10% greater than that of the same tonnage in the industry.

Lifting and unloading, clean without residue

- Lifting and unloading modes make garage bin cleaner;
- High-pressure cleaning system allows easier washing.

Wedge sealing, safe and reliable

- Wedge locking mechanism is used for rear door, which has high reliability;
- Silicone sealing strip is used which has longer service life.

Chain feeding, no spillage

- The chain-type loading mechanism allows smooth loading and prevents sewage dripping in the process;
- Pot mouth type guide chute allows cleaner loading.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5120TCASYABEV
	Chassis model	/	SANY Chassis SYM1121T1BEVL1
	Total mass	kg	12495
	Curb weight	kg	7080
	L×W×H	mm	6430×2360×2870
	Total capacity of power battery	kW.h	150/Gotion
	Approach/departure angle	°	13/25
	Front/rear suspension	mm	1750/1280
Operating performance parameters	Volume of dustbin	m ³	7.5
	Capacity of clean water tank	L	120
	Loading cycle duration	s	18
	Operation control room	/	Wireless remote control + manual control

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02 Solid waste collection and transfer category



04 Electric Garbage Truck with Detachable Compartment
4.5T 18T 31T

Electric garbage truck with detachable compartment is a mainstream product of pure electric sanitation truck in the garage collection and transportation group from SANY Environment. It is a garage transfer truck for garage transfer stations and is mainly used for sealing and transferring domestic garbage after compression and volume reduction in garage transfer stations to garbage disposal plant. Coupling, unloading and uncoupling operations can be completed by the driver alone or off the vehicle. It is a new type of garbage transfer truck that is environmentally friendly, simple and reliable to operate.

This garbage truck with detachable compartment and its compartment are separable. One truck can have multiple compartments so that efficiency of the truck can be improved and use cost can be reduced. It is for transfer of domestic garbage, construction wastes and equipment and goods in various places such as municipal sanitation, large factories and mines, residential areas, ports, etc. It allows loading, unloading and transportation of garbage as a whole and garbage dumping in compression stations.

Performance Feature >>

18T Electric Garbage Truck with Detachable Compartment

Special chassis, reliable quality

Dongfeng Tianjin chassis has the highest recognition in the industry; intelligent water cooling and heat dissipation system helps to improve battery endurance; IP67 voltage, arc and static protection is provided; battery warranty is provided for 200,000 km over 5 years; integrated upper body control and thermal management allows easier maintenance.

Professional brand, high-quality hook arm

Main hydraulic-electric components are from well-known brands in the industry at home and abroad and have higher quality. Body of pulling arm hook is made of high-strength steel, and key parts such as hook head are made of cast steel so that they have high bearing strength and are non-deforming.

High efficiency and low noise, quick unloading and quick moving

Loading capacity is higher and operating cost is lower; garage bin unloading is faster, and quick unloading and quick moving ensure high efficiency; patented technologies are used for hydraulic plug fixing device for rear door opening and closing, which is waterproof, dustproof, reliable and durable. No additional dust cap is required, so it is more convenient to recover.

Safe, reliable and durable

Interlocking allows safe and worry-free operation; oil way is protected by multiple protection devices such as overload protection and explosion-proof locking, which allows safe and reliable operation; rear support structure is provided at the tail to protect safety during operation.

Low noise and comfort

Low-noise pump and patented noise reduction technology are applied, with operating noise ≤ 78 dB; through motion controller, actions of different parts match their optimal speeds, with low noise, low impact and high durability.

	Item	Unit	4.5T parameters	18T parameters	31T parameters
Vehicle parameters	Announced model	/	SYR5040ZXXFTABEV	SYR5180ZXXDFABEV	SYR5310ZXXSYABEV
	Chassis model	/	Foton BJ1042EVJA2	Dongfeng Tianjin DFH1180BEV1	SANY Sanitation Truck SYM3314T3BEV
	Total mass	kg	4495	18000	31000
	Curb weight	kg	2270	8800	14800
	L×W×H	mm	4950×1920×1980	7180×2530×2980	9680×2545×3100
	Total capacity of power battery	kW.h	55.7/CATL	210.6/CATL	350.07/CATL
	Approach/departure angle	°	25/21	16/21	17/20
	Front/rear suspension	mm	1080/1020	1400/1280	1500/1380
Operating performance parameters	Lifting capacity of pull arm hook	t	1.5	14	20
	Height of hook center	mm	1015	1570	1570
	Coupling time	s	20	45	90
	Uncoupling time	s	25	50	75
	Unloading cycle duration	s	45	70	110
	Unloading angle	°	47	49	49
Noise of standard operation	dB(A)	80	≤ 78	≤ 82	

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02 Solid waste collection and transfer category



05 Electric Self-loading and Unloading Garbage Truck

4.5T

Electric self-loading and unloading garbage truck is the first generation of pure electric sanitation truck from SANY Environment. It is mainly used for collection and transportation of domestic garbage in narrow spaces such as communities, streets, markets, basements and parks. It can be used to directly transport garbage to transfer stations or interface with compression garbage trucks of mainstream manufacturers for garbage unloading.

The vehicle has a BAIC Foton chassis, equipped with a sliding compression mechanism, with intelligent selection of multi-stage system pressure, higher reliability, and stronger loading and unloading ability; the integral ship type box structure is equipped with a three-stage automatic loading mechanism, without leakage during waste collection and transportation. It has an ultra-low body of less than 2.2m high, with good trafficability.

Performance Feature

4.5T Electric Self-loading and Unloading Garbage Truck

High loading capacity

Large-capacity garage bin: garage bin volume is 4.6m³;
Scraper with sliding plate: scraping mechanism with slidingplate is used, and loading capacity is guaranteed.

High efficiency and low noise

High operating efficiency: compression cycle duration is 19
sand loading cycle duration is 17s;
Noise is low during operation: variable frequency speed
regulation + electricproportional control and vibration
reduction design of themechanism allow efficient operation
with noise as low as 73dB.

High adaptability

Low body: height of the whole vehicle is as low as 2180 mm
so that it can move into basement for garbage collection and
transport (basement elevation ≤2200 mm); easy docking: 1350
mm unloading height allows direct docking with 18T/25T
compression truck for unloading.

Easy to maintain

Easy slider maintenance: there is a sliding plate access hole
on the compartment which allows easy slider maintenance;
shutdown for maintenance: standard manual pump is used so
that when the truck stops accidentally, the compartment can
still be lifted for maintenance.

	Item	Unit	Parameter
Vehicle parameters	Announced model	/	SYR5040ZZZFTABEV
	Chassis model	/	Shangqi DatongSH1047PCEVNZY1
	Total mass	kg	4495
	Curb weight	kg	3450,3295
	L×W×H	mm	5490,5400×1740×2180
	Total capacity of power battery	kW.h	55.7/CATL
	Approach/departure angle	°	18/16
	Front/rear suspension	mm	1090/1550,1090/1460
Operating performance parameters	Tank volume	m ³	4.6
	Maximum garage loading capacity	t	2.6
	Loading cycle duration	s	≤17
	Compression cycle duration	s	≤19
	Noise of standard operation	dB(A)	73

PART 3 Innovation · Products
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03 Transit stations



01 Mobile combined compression tank
12m³ 18m³

A series mobile combined compression tank is an environmental sanitation equipment integrating domestic garbage collection, compression and closed transfer launched by SANY Environment. It is mainly used for the collection, compression, volume reduction and closed transfer of domestic garbage in urban streets, commercial squares, factories, schools and townships, especially in new transfer stations and old station renovation under conditions such as difficult land acquisition and small site in urban areas, which has good environmental, economic and social benefits.

Horizontal compression technology is applied, and compressor and dustbin are integrated. Loose domestic garbage collected is directly pressed into closed dustbin for volume reduction and discharging sewage and gas contained in the garbage and then transferred with garbage truck with detachable compartment. The equipment has characteristics such as less odor emission, absence of secondary pollution, small floor area and high flexibility. It is mainly for garbage collection for loading with less than 1.5t rickshaws and small motor vehicles with no more than 1.8 m width.

Performance Feature

12m³ 18m³ Mobile combined compression tank

High performance

Enlarged hopper for efficient docking; hopper volume is up to 4m³ and docking width is up to 2300 mm; special structure allows efficient compression: M-shaped crushing pusher allows small-clearance trackless design, anti-rebound scraper plate is used to ensure high crushing ability, anti-rebound and higher efficiency; arc shape for higher capacity and higher efficiency; side plate of the box is an overall large arc structure, which along arc tailgate allows garage turnover and flow in garage bin.

Easy operation and control

Safe and intelligent: the equipment has functions such as automatic phase change, full pressure alarm and display, one-key compression, forced fallback and automatic fault alarm and automatic diagnosis; humanized configuration: 7-inch LCD touch screen is provided to display operating status of the equipment in real time, and wired handle and wireless remote controller are provided as standard for operation.

Energy conservation and environmental protection

Diversified compression modes, energy saving and high efficiency: the system is adaptable to fast/slow pushing and load; it is safe, reliable, sealed and environment-friendly; the rear door locking mechanism applies upper-lower reverse locking so that automatic anti-decoupling is provided when it is locked.

Reliable and durable

Reliable materials or structural parts: push head and compression chamber are welded using wear-resistant steel plates so that they have high strength, wear resistance and long service life; reliable operation: the hydraulic system is capable of automatic heat dissipation, and heating device can be used to avoid shutdown at high temperature and low temperature.

	Item	Unit	Parameter
Vehicle parameters	Model	/	SSZY12A1/SSZY18A1
	Effective volume of compression box	m ³	1.4
	Total volume	m ³	12/18
	Capacity of hopper	m ³	4
	Height of hook center	mm	1570
	Motor power	Kw	7.5
Operating performance parameters	Compressive force	KN	360
	Compaction density	t/m ³	0.65-0.75
	No-load compression cycle duration	s	38±2S
	Hopper turnover cycle duration	s	32±2S
	Hopper docking width	mm	2300
	Turnover lifting capacity	Kg	1500
	System pressure	Mpa	21.5
	No-load noise	dB(A)	75
Applicable vehicle	/	18t hook arm truck (with 14t hook arm) /25/31/32t hook arm truck (with 20t hook arm)	

1 Full-cycle Service >>

Customers with ≥ 30 vehicles can enjoy on-site service and vehicle-following service to protect the vehicle and driving safety. Energy-saving driving training for drivers, daily vehicle maintenance training, drivers' vehicle Q&A and other services are provided free of charge.

2 Service Advantages >>

Service guarantee: More than 1700 service outlets and 28 social center libraries have been established nationwide.
Talent guarantee: SANY Polytechnic College trains technical service personnel for new energy vehicles and cultivates more professional service teams.

SANY • Full Life-cycle  Worry-free Service



1700+

Service center



7000+

Technical service personnel



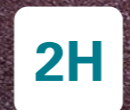
24h

365×24 round-the-clock service



15min

Reply to customer



Within 2 hours

Arrive at site



Within 1 day

Provide common maintenance accessories



Within 2 days

Resolve customer complaints



Within 2 weeks

Solve customer's remaining problems

Discovery Future >>>

DISCOVERY FUTURE

.....

Improve living environment and create a better life with SANY efforts >>>

Sanitation >

Protect the blue sky of the city and the green mountains and clear waters with SANY efforts >>>

New energy evolution of sanitation equipment >

Contribute to the upgrading of sanitation equipment industry in China and worldwide with SANY efforts >>>

Connected, digital, intelligent and unmanned equipment >

