

Green Service,Smart Ecology



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SANY Environment

New Energy Product Series >>>

NEW
ENERGY
PRODUCT SERIES



三一环境产业有限公司
SANY ENVIRONMENT INDUSTRY CO., LTD.



A New Benchmark for
Smart Urban
Environment



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PART 1 Impressions · Enterprise IMPRESSIONS

Mission of SANY: Quality Changes the World

Vision of SANY: Build a first-class enterprise, foster 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 truck 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, truck 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





01 Pavement cleaning



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 truck 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

Low-entry chassis for safe and convenient operation

Low-entry, one-step boarding, and upright passage make it more convenient; Ultra-wide vision and automatic parking, which is safer; Install more than 20% of high bearing capacity; zero modifications: eliminate issues of electrical leaks, air leaks, rust, and fractures; liquid-cooled battery is more durable.

Super-large volume 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.

Low energy consumption and low use cost

The fan, water pump and oil pump are independently controlled, with flexible combination and efficient operation; A 7.6# backward self-developed high-efficiency fan is adopted, with direct suction and discharge arrangement and small running resistance; The energy consumption for standard operation is 20kwh, with low energy consumption.

Complete functions and multiple modes

10 operation modes, 3 operation capacities and strong site adaptability; high-pressure self-cleaning with good water-saving effect, automatic cleaning of filter screen, saving time and labor.

High-speed and intelligent operation

High-speed operation: The maximum sweeping speed reaches 15 km/h, under the combined operation of three suction ports, 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 for comfortable operation

A large integrated touch screen for control and monitoring. The screen is easy to operate, contributing to a simple and comfortable cab; real-time control of operation status, intelligent water consumption prediction, voice alarm for low water level, and pump water shortage protection; real-time switching of sweeping, road sweeping, and cleaning operation modes offers easy operation.

	Item	Unit	Parameter
Truck parameters	Declared model	/	SYR5121TXSSYABEV
	Chassis model	/	SANY environmental sanitation chassis SYM1120T1BEVL1
	Total mass	kg	12495
	Curb weight	kg	9700
	L×W×H	mm	7540×2340×3050
	Total capacity of power battery	kW.h	201.55/182.65/CALB
	Rated power/speed/torque of motor	kw/rpm/Nm	80/1910/400
Operating performance parameters	Clean water tank volume	m ³	6.5
	Volume of sewage tank	m ³	6.0
	Maximum continuous spraying time for standard washing	min	80
	Energy consumption of standard washing operation	kwh	20
	Maximum sweeping capacity	m ² /h	70000
	Maximum inhaled particles	mm	110
	Cleaning and sweeping width	m	3.5
	Sweeping speed	km/h	3-20
	Standard washing operation time for single charging	h	6-8



01 Pavement cleaning

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 truck 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,
Convenient and Safe

Self-developed integrated special chassis, with integrated design of chassis truck body 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 volume 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.

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 for 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.

Complete Functions, One
Vehicle for Multiple Purposes

9 operation modes, 3 operation capacities and strong site adaptability; functions such as high-pressure self-cleaning, hand-held spray gun, optional impinging, angled rinsing 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
Truck parameters	Declared model	/	SYR5180TXSSYBBEV SYR5181TXSSYCBEV
	Chassis model	/	SANY environmental SYM1181T1BEVL2 sanitation chassis SYM1182T1BEVL2
	Total mass	kg	18000
	Curb weight	kg	13400/13800
	L×W×H	mm	9150×2500×3190
	Total capacity of power battery	kW.h	243/Gotion, 283/CALB
Operating performance parameters	Rated power/speed/torque of motor	kw/rpm/Nm	120/2292/500
	Clean water tank volume	m ³	9.5
	Volume of sewage tank	m ³	8.0 (effective value: 6.0)
	Maximum continuous spraying time for standard washing	min	98
	Energy consumption of standard washing operation	kwh	28
	Maximum sweeping capacity	m ² /h	70000
	Maximum inhaled particles	mm	110
	Cleaning and sweeping width	m	3.5
	Sweeping speed	km/h	3-20
	Standard washing operation time for single charging	h	6-8

01 Pavement cleaning



03 Electric Sprinkler

18T

The electric sprinkler is a high-quality multifunctional sprinkler 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 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 truck body, 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, impinging, rear sprinkling and sprinkler gun; optional configuration: low-pressure cleaning reel, 30 m small electric mist gun, side spray nozzle, high-level spray nozzle, intelligent water monitor, double opposite flushing, flush nozzle and other multifunctional options.

Optimal selection of suppliers with excellent quality

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

	Item	Unit	Parameter
Truck parameters	Declared model	/	SYR5181GQXSYCBEV
	Chassis model	/	SANY environmental sanitation chassis SYM1183T1BEVH1
	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
	Impinging flushing width	m	≥24
	Watering width	m	≥14
	Range of high-pressure water gun	m	≥38



01 Pavement cleaning



04 Electric Road Sweeper

2.5T

Electric road sweeper is a new generation of electric cleaning vehicles for environmental sanitation independently developed and designed by SANY Environment. Embracing a design philosophy of national standard charging, large capacity, strong cleaning, high reliability and lightweight, it provides customers with aesthetically pleasing, energy-efficient, safe, comfortable, stable and reliable electric road sweepers, making it an ideal choice for cleaning operations in urban non-motor vehicles, pedestrian auxiliary roads, back street lanes, squares and parks.

The vehicle has a pure electric chassis specially for road sweeper independently developed by SANY, integrated design of vehicle layout, control system, cooling system, suspension system, etc. It is equipped with combined physical buttons in the cab and a 7-inch touch screen, featuring strong power, comfortable driving and riding, and good operating experience. It is a cleaning vehicle that solves customers' pain points.

Performance Feature

2.5T Electric Road Sweeper

Rapid charging and convenient recharging

Multiple fast/slow charging options: free choice of public, household and fast charging, universal national standard charging pile;
Super fast charging: high voltage charging duration < 1.5 hours, recharging in 30 min, battery life of 4 hours.

Super-large volume, ultra-long battery life

Super-large volume: 180 L large clean water tank; saving time for water filling and transition, resulting in efficient operation;
Long operation duration: 150 min of dust reduction operation with full water loaded 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 switch lanes quickly.

Efficient operation and quick transition

Ultra-high-speed operation: Maximum cleaning speed of 7 km/h, cleanliness rate of 98%, and maximum cleaning speed of 10km/h;
Fast transition: The maximum transition speed of the whole vehicle is 25 km/h.

Human-machine interaction for 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)

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

	Item	Unit	Parameter
Truck parameters	Declared model	/	SYR0251SLJSYABEV
	Chassis model	/	SANY hinged type 4*2
	Total mass	kg	2500
	Curb weight	kg	1820 / 1780
	L×W×H	mm	3850×1200×2250
Operating performance parameters	Clean water tank volume	L	180
	Capacity of garbage container	L	750
	Operating speed	km/h	3-10
	Continuous operation time	h	6-8
	Fast charging time	h	< 1.5
	Capacity of power battery	kW.h	44/35
	Unloading mode of garbage container	/	Boom-lifted self-unloading, unloading angle > 45°
	Cleaning and sweeping width	m	≥ 1.8
	Maximum gradeability	%	25



02 Solid wastes collection and transfer

01 Electric Low-entry Compression Garbage Truck
12T

The 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-entry chassis and a rear loading truck body. 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,
convenient and safe

Low entry, 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%; zero modifications: electric leakage, air leakage, rust and fracture are avoided; liquid-cooled battery is more durable and increases service life by 20%.

Super-large volume for efficient
operation

Integrated whole vehicle design maximizes utilization of space; the newest lifting technology in the country is applied which allows faster loading 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.

Reliability and longevity

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; slider s 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
Truck parameters	Declared model	/	SYR5120ZYSSYABEV
	Chassis model	/	SANY environmental sanitation chassis SYM1121T1BEVL1
	Total mass	kg	12495
	Curb weight	kg	8400,8600
	L×W×H	mm	7630×2300×2790
	Total capacity of power battery	kW.h	150/Gotion, 121/CALB
	Approach/departure angle	°	13/15
	Front suspension/rear suspension	mm	1750/2205
Operating performance parameters	Effective volume of garbage container	m ³	8.5
	Volume of precompressor	m ³	1.4
	Volume of sewage tank	L	550
	Loading cycle time	s	≤13
	Loading cycle time	s	≤9
	Unloading cycle time	s	≤45
	Charging time	h	1.2-1.5



02 Solid wastes collection and transfer



02 Electric Compression Garbage Truck

18T

The electric 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 chassis and a rear loading truck body. Boasting remarkable advantages such as high safety standards, large loading capacity, minimal noise levels, high efficiency, and exceptional reliability and durability.

Performance Feature

18T Electric Compression Garbage Truck

Self-developed chassis, professional and safe

Larger load-bearing capacity: 20% larger; Zero modifications: self-developed chassis, eliminating electric leakage, air leakage, rust, and fracture; More user-friendly: airbag shock absorption seat; More durable: Liquid-cooled battery, effectively prolonging the battery life.

Large loading capacity and efficient operation

The maximum effective volume of the box body is 14m³; the application of robust compression technology enables further garbage compaction; First innovative lifting technology in China, boasting the widest feeding port, which allows faster loading and higher efficiency; The maximum loading capacity, can effectively reduce frequency of collection and transport and improve work efficiency.

Reliable quality, longer life

The well-known brands and models in the industry, which are mature and reliable, are selected for key hydraulic electrical components; The bottom arc plate of the precompressor is NM450, with better wear resistance, durability and reliability; High-performance slider uses ultra-high molecular weight polyethylene (UHMWPE), offering superior resistance against wear, corrosion, and water.

Multiple guarantees and reliable sealing

Three-edge sealing strips are used to form three layers of seal after compression, thus effectively ensuring the sealing between the box body and the precompressor; It is equipped with an adjustable locking mechanism to effectively ensure the sealing effect and prolong the service life of the sealing strip; The sewage tank of the precompressor is of an anti-splash structure to prevent sewage from spilling out during turning and emergency braking; It is equipped with a sewage collection device 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

Electrical: The anti-drop interlock controlled precompressor ensures safety; Hydraulic: Additional explosion-proof valve for lifting cylinder to ensure safety of components; Mechanical: Additional mechanical safety support to protect personnel safety with structural members.

	Item	Unit	Parameter
Truck parameters	Declared model	/	SYR5181ZYSSYBBEV
	Chassis model	/	SANY environmental sanitation chassis SYM1181T1BEVH1
	Total mass	kg	18000
	Curb weight	kg	12020
	L×W×H	mm	8835×2525×3180
	Total capacity of power battery	kW.h	244/CALB
	Approach/departure angle	°	17/15
	Front suspension/rear suspension	mm	1415/2755
Operating performance parameters	Effective volume of garbage container	m ³	14
	Volume of precompressor	m ³	2
	Volume of sewage tank	L	1090
	Compression cycle time	s	≤14
	Loading cycle time	s	≤10
	Unloading cycle time	s	≤55



04 Chassis



01 Electric Low-entry Side-mounted Chassis
12T

Electric low-entry chassis is a special chassis for sanitation independently developed and designed by SANY Environment. Embracing a design philosophy of low-entry, large load capacity, integration, and intelligentization, this chassis offers customers an aesthetically pleasing, energy-efficient, safe, comfortable, stable, and reliable pure electric chassis, making it an ideal choice for urban kitchen garbage trucks and compression trucks. The chassis layout is customized for sanitation vehicles, with a low-entry cab for frequent getting on and off.

The loading area is expanded to increase the loading capacity. The vehicle is of integrated design in terms of its layout, control system and cooling system and equipped with large screens for entertainment and monitoring. It has excellent performance, comfortable driving, good operation experience, with active safety configuration optional, featuring high intelligence and improved operation safety.

Performance Feature

12T Electric Low-entry Side-mounted Chassis

One-step boarding and alighting, remote controlled outward swing door

More convenient: Low-entry, one-step boarding, and upright passage;
Fall prevention: Mitigate fall risks;
Good sealing: Double-sealed structure for insulation, soundproofing, and odor prevention;
Anti-scratching design: Minimal intrusion into space along the door's motion track to safeguard against accidental collisions with pedestrians.

Enhanced efficiency with superb loading capacity

Extended Loading Area: Front overhang lengthened, cab positioned forward, enabling an expanded rear loading area;
Exceptional bearing capacity: Reinforced bearing system structure for axle load.

Integrated console screen for enhanced operational convenience

Integrated console screen: Featuring a 12.1-inch touch screen with reverse visualization, 360° around-view, and truck body operational control functions, providing a sleek yet comprehensive solution;
Reserved switch positions: The console panel features 24 switch positions to meet a variety of truck body installation and operation needs.

Panoramic front windshield for an expansive view

Wide vision: Reducing blind spots in the front lower and left-right A-pillar vision areas, expanding the driver's direct field of view by 20%;
Translucent door: Allows the driver to directly observe the right front wheel area, preventing accidental contact with children.

Integrated design for hassle-free refitting

Interface reservation: 5-in-1 reserved power distribution interface, increased air reservoir volume, reserved air intake interface, frame with pre-drilled truck body holes, equipped with PTO;
Space reservation: Dedicated spaces reserved for various truck bodies, such as sweeping disks, sewage tanks, and oil cylinders.

Customized power for an cost-efficient and affordable solution

More electric quantity: tailored electric capacity based on operational frequency, transfer distances, operation and driving energy consumption;
Low energy consumption: Optimization of transmission speed ratios based on typical vehicle speeds, maximizing the motor's high-efficiency range. Enhanced energy recovery efficiency through control strategies.

Item	Unit	12T
Battery arrangement	m ³	Side-mounted
Power	kwh	121/150/163
Battery manufacturer	/	Gotion/CALB
Maximum total mass	t	14.5
Curb weight	kg	4500/4700
Chassis dimensions	mm	6355×2290×2700
Wheelbase	mm	3400
Height of first step from the ground	mm	370
Tire	/	245/70R19.5
Rated/peak power of motor	kw	80/160
Rated/peak power of motor	N.m	400/1000
Transmission speed ratio	/	2.771/1
Power take-off	Nm	300



04 Chassis



02 Electric Low-entry Back Chassis

18T

Electric low-entry chassis is a special chassis for sanitation independently developed and designed by SANY Environment. Embracing a design philosophy of low-entry, large load capacity, integration, and intelligentization, this chassis offers customers an aesthetically pleasing, energy-efficient, safe, comfortable, stable, and reliable pure electric chassis, making it an ideal choice for urban kitchen garbage trucks and compression trucks.

The chassis layout is customized for sanitation vehicles, with a low-entry cab for frequent getting on and off. The loading area is expanded to increase the loading capacity. The vehicle is of integrated design in terms of its layout, control system and cooling system and equipped with large screens for entertainment and monitoring. It has excellent performance, comfortable driving, good operation experience, with active safety configuration optional, featuring high intelligence and improved operation safety.

Performance Feature

18T Electric Low-entry Back Chassis

One-step boarding and alighting, remote-controlled outward swing door

More convenient: Low-entry, one-step boarding, and upright passage;
Fall prevention: Mitigate fall risks;
Good sealing: Double-sealed structure for insulation, soundproofing, and odor prevention;
Anti-scratching design: Minimal intrusion into space along the door's motion track to safeguard against accidental collisions with pedestrians.

Enhanced efficiency with superb loading capacity

Extended Loading Area: Front overhang lengthened, cab positioned forward, enabling an expanded rear loading area;
Exceptional bearing capacity: Reinforced bearing system structure for axle load.

Integrated console screen for enhanced operational convenience

Integrated console screen: Featuring a 12.1-inch touch screen with reverse visualization, 360° around-view, and truck body operational control functions, providing a sleek yet comprehensive solution;
Reserved switch positions: The console panel features 24 switch positions to meet a variety of truck body installation and operation needs.

Panoramic front windshield for an expansive view

Wide vision: Reducing blind spots in the front lower and left-right A-pillar vision areas, expanding the driver's direct field of view by 20%;
Translucent door: Allows the driver to directly observe the right front wheel area, preventing accidental contact with children.

Integrated design for hassle-free refitting

Interface reservation: 5-in-1 reserved power distribution interface, increased air reservoir volume, reserved air intake interface, frame with pre-drilled truck body holes, equipped with PTO;
Space reservation: Dedicated spaces reserved for various truck bodies, such as sweeping disks, sewage tanks, and oil cylinders.

Customized power for an cost-efficient and affordable solution

More electric quantity: tailored electric capacity based on operational frequency, transfer distances, operation and driving energy consumption;
Low energy consumption: Optimization of transmission speed ratios based on typical vehicle speeds, maximizing the motor's high-efficiency range. Enhanced energy recovery efficiency through control strategies.

Item	Unit	18T
Battery arrangement	m ³	Back
Power	kwh	243/283
Battery manufacturer	/	Gotion/CALB
Maximum total mass	t	24.5
Curb weight	kg	7080/7500
Chassis dimensions	mm	8440×2500×2740
Wheelbase	mm	4700
Height of first step from the ground	mm	380
Tire	/	315/70R22.5
Rated/peak power of motor	kw	120/200
Rated/peak torque of motor	N.m	500/1000
Transmission speed ratio	/	6.706/3.499/1.881/1
Power take-off	Nm	500

PART 4 Worry-free · Service NON-SORROW

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.

Join hands with SANY Life without worries



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

