



WORLD PRIME SERVICES

NEW ENERGY & SPECIAL-PURPOSE VEHICLE CATALOGUE

Fully rebuilt editable A4 technical catalogue - individual product photographs, editable descriptions and editable technical tables.

PRODUCT RANGE

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- 02** NEW ENERGY ROAD MAINTENANCE VEHICLE
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01 NEW ENERGY WASHING AND SWEEPING VEHICLE



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- Dual-motor layout effectively saves energy and reduces noise. Adopts an advanced dual-motor layout, with a high-speed fan directly connected to the motor and a dual-shaft motor driving the high-pressure water pump and gear pump. The motor controller uses first-tier domestic brands, featuring energy conservation, noise reduction, and convenient maintenance. Multiple intelligent control modes achieve lower power and water consumption.
- Strong endurance, green and efficient Optimize the power configuration, with a wide high-efficiency working range of the motor, energy saving and noise reduction + advanced high-voltage power distribution management system to ensure the long endurance of the whole vehicle and the stability of the whole vehicle system.
- Professional fan with stronger suction Equipped with a high-speed fan directly connected to the motor, the impeller is made of high-strength wear-resistant steel and equipped with a silencer, featuring higher efficiency and stronger suction. The overall suction performance is significantly improved, noise is reduced by 20%, and the fan blades are not easy to wear.
- Safe and intelligent, simple to operate Adopts the advanced "intelligent screen + CAN bus" electronic control system, with multiple operation modes (standard washing mode, strong washing mode, energy-saving cleaning mode), which can automatically adjust the motor speed; integrates on-site monitoring, fault alarm, and diagnostic display, real-time monitoring and display of the vehicle's operation status, facilitating operation and understanding of the vehicle's status; one-touch operation for main functions, with a high level of automation.
- Sweeping disc follow-up, automatic adjustment The sweeping disc adapts and adjusts independently, senses the pressure fluctuation of the sweeping brush touching the ground, and timely adjusts the expansion and contraction of the working cylinder to reduce the wear of the sweeping brush and ensure the stable output of cleaning efficiency. At the same time, the rotation speed of the sweeping

disc can automatically change with the vehicle speed to adapt to the cleaning of different working conditions.

- Road cleaning, multi-purpose vehicle It meets the cleaning needs of different road surfaces and has multiple functions such as watering, flushing, sweeping, cleaning, and dust suppression. It is also equipped with a high-pressure water gun for cleaning sanitary dead corners of roads and vehicle bodies.

- New upgrade, better quality The newly upgraded suction cup body effectively increases suction and reduces wind loss, while enhancing the strength of the swing arm. The box body adopts shot blasting surface treatment + electrophoresis + powder spraying and baking process, which greatly improves the adhesion of paint and the wear resistance of the topcoat.

- Intimate design, more user-friendly According to feedback from operators, a tool rack and toolbox have been added to make the placement of tools on the entire vehicle more standardized and maintenance more convenient.

The Word Prime Vehicle new energy washing and sweeping vehicle is a new energy road cleaning and sanitation model carefully developed and produced by Kaili Group to support the country's "double carbon goals" and create a green ecological environment. With the new energy chassis and upgraded upper equipment, it not only has all the functions of fuel washing and sweeping vehicles, such as road cleaning, garbage picking, road flushing, and spray dust suppression, but also has the advantages of energy conservation and environmental protection, low noise, low cost, and intelligence.

NEW ENERGY SWEEPER TRUCK

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Tuyi	Yuejin Es80	Foton Linghang	S1	Changan	Shenqi
Chassis Brand	Dongfeng		SAIC	Foton		Changan	
Clean Water Tank Volume	(m³)	2	2	2			2
Garbage Bin Volume (m³)		2	2	2			2
Total Mass (kg)		4495	4495	4495			4495
Wheelbase (mm)		3000	2850	2850			3000
Battery Type		CATL Lithium Iron	Phosphate	CATL	Lithium Iron	Phosphate	
Battery Capacity (kW·h)	66.84		55.7	66.8			53.58
Charging Time (min)	40 (Fast	Charging)	90 (Fast Charging)	50 (Fast Charging)		50 (Fast	Charging)
Driving Range (km)		220	252	275			260
Cleaning Width (m)		2.2	2.2	2.2			2.2
Maximum Working Capacity	(m²/h) 44000		44000	44000			44000

Additional configuration table

TECHNICAL PARAMETER	Dongfeng	Captain	SAIC Yuejin	Dongfeng	Furuika	Hybrid	Dongfeng	Tianjin
Chassis Brand		Dongfeng	SAIC Yuejin		Dongfeng		Dongfeng	
Clean Water Tank Volume	(m³)	4	5		5			8
Garbage Bin Volume (m³)		4	4		4			8
Total Mass (kg)		8495	11995		11995			18000
Wheelbase (mm)		3850	4170		3970			5300
Battery Type		CATL Lithium	Iron Phosphate	Lithium	Iron Phosphate		CATL Lithium	Iron Phosphate
Battery Capacity (kW·h)		162.28	162.28		17.2			282
Charging Time (min)	90 (Fast	Charging)	72 (Fast Charging)		40 (Fast Charging)		72 (Fast	Charging)
Driving Range (km)		280	300		柴油/电 混合动力			365
Cleaning Width (m)		3	3		3			3.5
Maximum Working Capacity	(m²/h)	60000	60000		60000			70000

02 NEW ENERGY ROAD MAINTENANCE VEHICLE



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New energy chassis, upgraded upper equipment Adopting new energy chassis from well-known domestic and foreign brands, the three-electric system is stable and reliable with strong endurance; the upper equipment is designed with light weight, and comprehensively technologically upgraded and detailed optimized according to the new energy chassis.
- Independent system, powerful cleaning It has two independent high-pressure and low-pressure waterway systems, providing pressurized water sources for the cleaning vehicle's operation. High-pressure water is sprayed out from the left (right) corner nozzles to clean curbs, sidewalks, and guardrail isolation zones. The high-pressure spray gun can also be used to clean road signs, billboards, viaducts, etc. The spray system has powerful functions of spray dust suppression, air disinfectant spraying, and air humidity adjustment.
- Flexible control, strong adaptability
It adopts centralized control of electricity, hydraulics and pneumatics, with modes such as front spraying, (front-back flushing), rear sprinkling and flushing, and up-down spraying. Each cleaning point can be individually controlled in the cab, which improves operational flexibility and adaptability to specific working conditions.
- Safety guarantee, reliable operation The high-pressure water pump, nozzles, high-pressure spray guns and key hydraulic and electrical components of this vehicle all adopt internationally renowned brand products, featuring excellent performance and reliable operation.

NEW ENERGY ROAD MAINTENANCE VEHICLE Product Introduction

The new energy road washing vehicle is a new energy-type road washing and maintenance model carefully developed and produced to assist the national "double carbon goal" and create a green ecological environment. It not only has all the functions of the fuel-powered road maintenance vehicle, but also has the advantages of energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Active Child Prodigy	SAIC Yuejin	Dongfeng	Tuyi	Changan	Shenqi
Chassis Brand	Tangjun Ouling	Yuejin	Dongfeng		Changan	Shenqi
Volume (m³)	1.5	2		2.2		2
Total Mass (kg)	950	3250		4495		4495
Wheelbase (mm)	2200	2500		3000		3000
Battery Type	Lithium Iron Phosphate		CATL Lithium	Iron Phosphate		
Battery Capacity (kW·h)	6.9/8.4	41.86	66.84			53.58
Charging Time (min)	240-300 (Slow Charging)	60 (Fast Charging)	40(Fast	Charging)	90(Fast	Charging)
Driving Range (km)	98	260		220		260
Cleaning Width (m)	1	1.3		1.3		2.2
Maximum Cleaning Pressure	(MPa) 10	15		15		15
High-pressure Cleaning	Capacity (m²) 13000	26000	26000			44000
Cleaning Speed (km/h)	5-25	5-25		5-25		5-25

FUNCTION / APPLICATION IMAGES



03 NEW ENERGY GREEN SPRAYING VEHICLE



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New energy chassis, upgraded upper equipment

Adopts new energy chassis from domestic and foreign big brands, with stable and reliable three-electric systems and strong endurance; the upper equipment is designed to be lightweight, and comprehensively technically upgraded and detailed optimized according to the new energy chassis.

- Digital design and intelligent production

Voice + touchscreen control, with low water level alarm system, good human-computer interaction; the tank is fully welded by robots, with beautiful welds and high precision.

- Modular process, standardized assembly

All structural components of the vehicle are independently molded, with strong compatibility, facilitating later maintenance; the entire assembly process adopts a splicing process without welding.

- High work efficiency, stable and reliable

Adopts brand high-power water pumps with long water outlet (jet) distance; uses large-diameter pipes for high water inflow; the tank and auxiliary beam adopt customized casting mold connection plates, featuring more stable connection, high safety coefficient, and easy disassembly.

- Top-level coating, anti-corrosion and rust-proof

Side protection, casting mold connection plates, side supports and other supporting components all adopt electrostatic powder spraying process, which is non-rusting and durable; The tank adopts electrophoresis + electrostatic powder spraying process, with uniform coating thickness, strong adhesion and good paint leveling, and will not rust for ten years.

NEW ENERGY GREEN SPRAYING VEHICLE

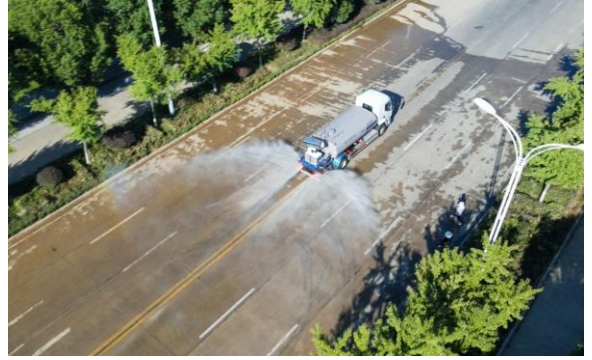
Product Introduction

The new energy greening spray vehicle is a new energy-type garden greening vehicle(carefully developed) and produced in response to the national "dual-carbon strategy" and in line with market demand. It has all the functions of the fuel-powered greening spray vehicle, such as front flushing, rear sprinkling, side spraying, anti-aircraft gun, etc. It not only inherits the high- end craftsmanship and excellent quality of Word Prime Vehicle sprinklers, but also has the advantages of energy conservation and environmental protection, low noise, low cost, intelligence, etc.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Huashen	SAIC Yuejin	Dongfeng	Kaptur
Chassis Brand	Dongfeng		Yuejin	Dongfeng	Dongfeng
Volume (m³)		2.2	5		5.4 8.7
Gross Mass (kg)		4495	7360		8495 11995
Wheelbase (mm)		2800	3308		3858 3970
Battery Type	CATL	Lithium Iron Phosphate	CATL	Lithium Iron Phosphate	Lithium iron phosphate
Battery Capacity (kW·h)		55.7	81		106.9 17.2
Charging Time (min)	40(Fast	Charging)	72(Fast Charging)	90(Fast	Charging) 40(Fast Charging)
Driving Range (km)		220	270		240 Hybrid power
Front Flushing Width (m)		12-16	12-16		12-16 12-16
Rear Sprinkling Coverage	Area (m²)	8-10	8-10		8-10 8-10
Side Spray Bar Washing	Width (m)	10-12	10-12		10-12 10-12
Water Cannon Range (m)		35	35		35-40 35
Fog Cannon (m)		30	30-40		30-40 30-40

FUNCTION / APPLICATION IMAGES



04 NEW ENERGY MULTIFUNCTIONAL DUST SUPPRESSION VEHICLE



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New energy chassis Upgraded upper equipment

Adopting new energy chassis from well-known domestic and foreign brands, the three-electric system is stable and reliable with strong endurance; the upper equipment is designed to be lightweight, and comprehensively technologically upgraded and detailed optimized according to the new energy chassis.

- Digital design Intelligent production

Voice + touchscreen control, with low water level alarm system, good human-computer interaction; the tank is welded by robot fully automatically, with beautiful welds and high precision.

- Modular process Standardized assembly

All structural components of the vehicle are independently molded, with strong compatibility, facilitating later maintenance; the entire assembly process adopts a splicing technology without welding.

- High work efficiency, stable and reliable

Adopting brand high-power water pumps with long outlet jetting distance; using large-diameter pipelines for high water inflow; the tank and auxiliary beam adopt customized casting mold connecting plates, which feature more stable connection, high safety factor, and convenient disassembly.

- Top-level coating Anti-corrosion and rust-proof

Side protection, casting mold connecting plates, side supports and other supporting components all adopt electrostatic powder spraying process, which is non-rusting and durable; The tank adopts electrophoresis + electrostatic powder spraying process, with uniform film thickness, strong adhesion and good paint leveling, ensuring no rusting within ten years.

NEW ENERGY MULTIFUNCTIONAL DUST SUPPRESSION VEHICLE

The new energy multifunctional dust suppression vehicle is a new energy-type haze and dust reduction vehicle independently developed and produced in response to the national "Double Carbon Strategy" and market demand. Adhering to the high-end craftsmanship and excellent quality of dust suppression vehicles, it not only has all the functions of fuel-powered dust suppression vehicles such as front flushing, rear sprinkling, side spraying, and spray dust reduction, but also features energy conservation, environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Huashen	Foton Pilot S1	Dongfeng	Kapte	Dongfeng	D9
Chassis Brand		Dongfeng	Foton	Dongfeng		Dongfeng	
Volume (m³)		4.5	4.5		6.5	8.8	
Wheelbase (mm)		2800	2850		3800	5000	
Battery Type		CATL Lithium Iron	Phosphate	CALB Lithium	Iron Phosphate	EVE Power Lithium	Iron Phosphate
Battery Capacity (kW·h)		55.7	66.8		144.86	229.63	
Charging Time (min)	40(Fast	Charging)	50(Fast Charging)	90(Fast	Charging)	90(Fast	Charging)
Driving Range (km)		220	275		323	380	
Front Flushing Width (m)		12-16	12-16		12-16	12-16	
Rear Sprinkling Coverage	Area (m²)	8-10	8-10		8-10	8-10	
Side Spray Bar Washing	Width (m)	10-12	10-12		10-12	10-12	
Water Cannon Range (m)		35	35		35		35
Fog Cannon (m)		30-40	30-40		30-40	60-120	

FUNCTION / APPLICATION IMAGES



05 NEW ENERGY COMPRESSED GARBAGE TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New - energy chassis, upper - body upgrade

Adopting new energy chassis from well-known domestic and foreign brands, the three-electric system is stable and reliable with strong endurance; the upper body is designed with light weight, and comprehensive technical upgrades and detailed optimizations are carried out according to the new energy chassis.

- Digital Design, Intelligent Production

Combined manual-electric operation + remote control, CAN bus control is more intelligent, stable and efficient; the tank is welded by fully automatic robot, with beautiful welds and high precision.

- Modular Process, Standardized Assembly

All structural components of the vehicle are independently molded, with strong compatibility for easy maintenance; operations strictly follow procedures to ensure assembly consistency and electromechanical stability.

- High compression ratio, large loading capacity

The arc-shaped box is formed at one time by a four-axis plate rolling machine to reduce welding surfaces and increase the volume ratio; the skateboard angle and oil cylinder force points are optimized, and the compression ratio exceeds market competitors by 20%.

- Diversified scenarios, strong practicability

Four loading structures are available at the tail (flip plate type, triangular hopper type, swing arm type, large floor hopper type), suitable for various operation scenarios.

- High-quality efficiency, long-lasting durability

Enlarged hydraulic oil tank, key components selected from well-known domestic and foreign brands, four-stage filtration system to ensure hydraulic oil is pure and free of impurities, effectively protecting the vehicle's entire hydraulic system; key parts adopt Q510 high-strength steel, anti-corrosion and rust-proof, extending service life.

NEW ENERGY COMPRESSED GARBAGE TRUCK

The new energy compression garbage truck is a new energy garbage transportation vehicle independently developed and produced in response to the national "Double Carbon Strategy" and market demand. Upholding the high-end craftsmanship and excellent quality of compression garbage trucks, it not only retains all the functions of fuel-powered compression garbage trucks, but also boasts advantages such as energy conservation, environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Huashen	Dongfeng	Tuyi
Chassis Brand		Dongfeng	Dongfeng	Jianghuai Xiangling
Volume (m³)		5.3		5.3 5.3 5.8
Gross Mass (kg)		4495		4495 4495 4495
Wheelbase (mm)		2800		3000 2850 2850
Battery Type		CATL Lithium	Iron Phosphate	CATL Lithium Iron Phosphate
Battery Capacity (kW·h)		55.7	66.84	55.7 55.7
Charging Time (min)	40(Fast	Charging)	60(Fast	Charging) 65(Fast Charging) 65(Fast Charging)
Driving Range (km)		220		290 252 190
Fresh Water Tank Volume	(l)	320		330 330 330
Waste Water Tank Volume	(l)	180		180 180 180
Control System		Manual/Electric	Control/Remote	Control Manual/Electric Control/Remote Control
Single Cycle Time (s)		18-22	18-22	18-22 18-22
Jianghuai		Shuailing		

Additional configuration table

TECHNICAL PARAMETER	SAIC Yuejin	Dongfeng	Furui Ka Hybrid	Dongfeng	Kaitput
Chassis Brand	Jianghuai SAIC		Dongfeng	Dongfeng	
Volume (m³)	8 7		10		10
Gross Mass (kg)	11995 8495		11995		8995
Wheelbase (mm)	3365 3308		3970		3800
Battery Type	CATL Lithium Iron Phosphate	Lithium	Iron Phosphate	EVE Power	Lithium Iron Phosphate
Battery Capacity (kW·h)	162.28 106.95		17.2		144.86
Charging Time (min)	102(Fast Charging) 90(Fast Charging)	40(Fast	Charging)	90(Fast	Charging)
Driving Range (km)	310 291	Hybrid	Power		323
Fresh Water Tank Volume	(l) 460 460		740		740
Waste Water Tank Volume	(l) 420 420		450		450
Control System	Manual/Electric Control/Remote Control		Manual/Electric	Control/Remote	Control
Single Cycle Time (s)	18-22 18-22		18-22		12-25

FUNCTION / APPLICATION IMAGES





06 NEW ENERGY KITCHEN GARBAGE TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New Energy Chassis Upgraded Upper Equipment

It uses new energy chassis from well-known domestic and international brands, with a stable and reliable three-electric system and strong endurance; the upper structure features a lightweight design, with comprehensive technical upgrades and detailed optimizations based on the new energy chassis.

- Quality Assurance Beautiful and Reliable

It is made of high-quality steel. The structural design of the arc-shaped box ensures the optimal performance of the product. The curved surface design on the side of the box improves the rigidity of the overall frame and enhances the aesthetics of the product.

- Safe and Intelligent Flexible Operation

It adopts core components of hydraulic systems from well-known brands to ensure the stability of the entire hydraulic system. A hydraulic bucket lifting mechanism is installed on the right side of the vehicle body, which can hang national standard 120/240-liter trash bins. Driven by an oil cylinder, the mechanism realizes material dumping and resetting through a pull rod device to prevent misoperation.

- Overflow Prevention and Leakage Prevention Durable and Long-lasting

Hydraulic opening and locking device for the rear cover, with pin-type oil cylinder locking; sealed with specially reinforced silicone rubber strips, featuring good sealing performance to ensure no water leakage and eliminate secondary pollution.

- Efficient Loading with Dry-Wet Separation

A large number of filter holes are set at the bottom of the garbage bin to achieve preliminary solid-liquid separation of kitchen waste in the bin. It has a strong loading capacity and is equipped with a

large-capacity sewage tank; a hydraulic- driven high-pressure cleaning system is provided to clean the entire vehicle and working devices.

NEW ENERGY KITCHEN GARBAGE TRUCK

Product Introduction

The new energy kitchen waste truck is a new energy kitchen waste collection and transportation vehicle carefully developed and produced in response to the national "dual carbon strategy" and in line with market demand. It not only has all the functions of the fuel version of kitchen waste trucks, such as self-loading and unloading, dry-wet separation, high-pressure flushing, etc., but also has the advantages of energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Huashen	Dongfeng	Furuika	Hybrid
Chassis Brand		Dongfeng		Dongfeng	Dongfeng
Volume (m³)		4.5		8	8
Gross Mass (kg)		4495		11995	8495
Wheelbase (mm)		2800		3970	3858
Battery Type		CATL Lithium	Iron Phosphate		CATL Lithium Iron Phosphate
Battery Capacity (kW·h)		55.7		17.2	106.95
Charging Time (min)	40(Fast	Charging)	40(Fast	Charging)	60(Fast Charging)
Driving Range (km)		220		Hybrid power	240
Feeding Cycle Time (s)		25-40		25-40	25-40
Discharging Time (s)		20-30		20-30	20-30

07 NEW ENERGY SELF-LOADING AND UNLOADING GARBAGE TRUCK - REAR LOADING



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New Energy Chassis and Upgraded Superstructure

Adopting new energy chassis from well-known domestic and international brands, the three-electric system is stable and reliable with strong endurance; the superstructure features lightweight design, which has been comprehensively technically upgraded and detailed optimized according to the new energy chassis.

- The scraper feeding has a high compression ratio.

The rear-mounted scraper compression technology is adopted to significantly compress and reduce the volume of domestic waste. The compression ratio can reach over 1:1.5, and the density of the compressed domestic waste can reach 500-700 kg/m³ or more.

- Lifting and tipping for clean unloading.

Adopts a high-position lifting and tipping structure, which is convenient and practical to operate. It can directly unload materials, dock with compression-type garbage trucks, and dock with mobile compression bins for unloading.

- Bucket Tipping MechanismFast Feeding

The rear-mounted bucket loading mechanism can dock with 120L/240L standard plastic buckets for operation. The bucket tipping mechanism adopts a lightweight design, with strong lifting and feeding power. It is equipped with two operation modes, manual and automatic, enabling a one-key feeding process.

- High-quality HydraulicsStable and Reliable

The hydraulic system is designed in accordance with international standards and adopts modular hydraulic components, featuring a high degree of integration in hydraulic circuits. The hydraulic pipeline system uses high-strength one-piece cast pipes to ensure service life, and all pipeline connections are firmly fastened to prevent oil leakage.

● High Automation Electro-Hydraulic Combination

The vehicle adopts electro-mechanical-hydraulic integration technology, with centralized control through imported programmable logic controllers (PLCs), ensuring safe and reliable operations while reducing the failure rate. All critical electrical components are designed in accordance with international standards, ensuring stable and reliable performance.

NEW ENERGY SELF-LOADING AND UNLOADING GARBAGE TRUCK—REAR
LOADING

The new energy self-loading and unloading garbage truck is a new energy garbage collection and transportation model (carefully developed) and produced to assist the national "dual carbon goals" and create a green ecological environment. It not only has all the functions of the fuel version of the self-loading and unloading garbage truck and the advantage of no garbage leakage, but also has the advantages of energy conservation and environmental protection, low noise, low cost, intelligence, etc.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Dongfeng	Tuyi	Dongfeng	Huashen	SAIC Yuejin
Chassis Brand	Dongfeng			Dongfeng	SAIC
Volume (m³)		3		4.5	4.5
Gross Mass (kg)		4495		4495	4495
Wheelbase (mm)		3000		2800	2850
Battery Type	CATL Lithium	Iron Phosphate		CATL Lithium	Iron Phosphate
Battery Capacity (kW·h)	66.84			55.7	66.84
Charging Time (min)	60(Fast	Charging)	40(Fast	Charging)	90(Fast Charging)
Charging Time (min)		220		220	252
Loading Time (s)		≤16		≤16	≤16
Unloading Time (s)		≤60		≤60	≤60
Operation Mode		Electric Control	/ Remote Control	Electric Control	/ Remote Control
Loading Mechanism		Garbage Bin	Lifting Device	Garbage	Bin Lifting Device
Compatible Garbage Bin	Volume (L) 120/240/660		120/240/660		120/240/660

08 NEW ENERGY SELF-LOADING AND UNLOADING GARBAGE TRUCK - SIDE LOADING



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

●New Energy Chassis and Upgraded Superstructure

The vehicle is equipped with new energy chassis from well-known domestic and international brands, featuring a stable and reliable three-electric system (battery, motor, and electronic control) and strong endurance capabilities. The superstructure adopts a lightweight design, with comprehensive technical upgrades and detailed optimizations tailored to the new energy chassis.

●Hydraulic Opening for Clean Unloading

The upper cover and rear cover both adopt hydraulic opening and closing mechanisms. To ensure the complete self-unloading of viscous media, a scraper device is installed inside the garbage bin, which is hydraulically driven to achieve a residual ash (slag) rate of less than 3‰.

●High-quality Hydraulics for Stable and Reliable Performance

The hydraulic system uses high-quality lifting cylinders, operation valves, compression fittings, high-pressure hoses, and high-pressure steel pipes, which are reasonably installed. Meanwhile, reliable fixing devices are arranged to ensure no leakage over a long period, achieving reliability, convenient maintenance, and extended service life.

●High-quality Box Body Smooth and Durable

The garbage bin is manufactured with high-quality steel plates, and the box bottom plate can be fitted with stainless steel plates to ensure the smoothness of medium self-unloading. Meanwhile, the box bottom can be equipped with anti-freezing devices according to the seasonal temperature conditions of the region to ensure the normal operation of the vehicle. A push plate is installed inside the sealed garbage bin to ensure clean unloading.

●Simple Operation Convenient Maintenance

The hydraulic cylinder movements of this vehicle are controlled by a manual hydraulic multi-way valve, which controls the cylinder actions with simple and reliable operation, making maintenance convenient.

NEW ENERGY SELF-LOADING AND UNLOADING GARBAGE TRUCK—SIDE LOADING

The new energy self-loading and unloading garbage truck is a new energy-based garbage collection and transportation vehicle developed and produced to support the national "dual carbon goals" and create a green ecological environment. It not only has all the functions of the fuel-powered self-loading and unloading garbage truck, but also features advantages such as energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Active Prodigy	SAIC Yuejin
Chassis Brand	Tangjun Ouling	SAIC
Volume (m³)	3	5.5
Wheelbase (mm)	2200	2500
Battery Type	Lithium Iron Phosphate	CATL Lithium Iron Phosphate
Battery Capacity (kW·h)	6.9/8.4	41.86
Charging Time (min)	Slow Charging: 180	Fast Charging: 40
Driving Range (km)	98	260
Loading Time (s)	≤16	≤16
Unloading Time (s)	≤60	≤60
Operation Mode	Electric Control / Remote Control	Electric Control / Remote Control
Loading Mechanism	Garbage Bin Lifting	Garbage Bin Lifting
Compatible Garbage Bin	Volume (L) 120/240	120/240

09 NEW ENERGY DETACHABLE COMPARTMENT GARBAGE TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- New Energy Chassis with Upgraded Superstructure

It adopts new energy chassis from well-known domestic and international brands, with a stable and reliable three- electric system (battery, motor, electronic control) and strong endurance. The superstructure features a lightweight design, with comprehensive technical upgrades and detailed optimizations tailored to the new energy chassis.

- High-quality Hook Arm with Super Strong Lifting Capacity

It uses a high-quality hook lift system with strong lifting capacity and high efficiency. Multiple electrical interlock protections ensure safety and reliability.

- High-quality Hydraulics with Reliable Performance

The core hydraulic components of the vehicle adopt well-known brands in the industry, featuring reliable quality and long-lasting durability.

- One Vehicle with Multiple Containers for High Economy

The vehicle and containers are used separately. One vehicle can be matched with multiple containers to serve multiple garbage transfer stations, maximizing the utilization rate of transportation vehicles, reducing the number of vehicle configurations, improving transportation efficiency, and lowering operating costs.

- Good Sealing Performance and Strong Environmental Protection

The fully enclosed garbage bin is adopted to effectively avoid secondary pollution and noise pollution during loading and transportation, which is extremely beneficial to environmental protection.

NEW ENERGY REMOVABLE COMPARTMENT GARBAGE TRUCK

The new energy detachable body garbage truck is a new energy garbage collection and transportation vehicle developed and produced in response to the national "Dual Carbon Strategy" and market demand. It is divided into two types: sleeve arm and hook arm. It not only has all the functions of the fuel-powered detachable body garbage truck, but also features advantages such as energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	SAIC Yuejin	Dongfeng	Huashen	Changan	Foton Pilot S1 Sinotruk
Chassis Brand	SAIC		Dongfeng	Changan	Foton Sinotruk
Volume (m³)	2.5		3	3	4.5 12-14
Gross Vehicle Mass (kg)	4495		4495	2840	4495 18000
Wheelbase (mm)	2500		2800	2700	2850 4500
Battery Type	CATL Lithium Iron	Phosphate	CATL Lithium	Iron Phosphate	CATL Lithium Iron Phosphate
Battery Capacity (kW·h)	41.86		55.7	41.86	66.8 210.56
Charging Time (min)	60(Fast Charging)	40(Fast	Charging)	60(Fast Charging)	50(Fast Charging) 72(Fast Charging)
Driving Range (km)	260		220	320	275 305
Compartment Loading	Time (s) 25-40		25-40	25-40	25-40 25-40
Compartment Unloading	Time (s) 20-30		20-30	20-30	20-30 20-30

10 NEW ENERGY CLOSED BARREL GARBAGE TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

●Upgraded Superstructure on New Energy Chassis

It adopts new energy chassis from well-known domestic and international brands, featuring advanced technology, stability and reliability. The superstructure is designed with lightweight materials, and has undergone comprehensive technical upgrades and detailed optimizations according to the new energy chassis.

●High-quality Box with No Leakage Sealing

The box adopts a fully enclosed structure, which can load standard garbage bins, conforms to the collection mode of replacing bins in urban garbage bins, ensures that garbage does not fall to the ground, and prevents phenomena such as "spillage and dripping", effectively solving the problem of secondary pollution during garbage transportation.

●Hydraulic control for convenient operation

The top cover of the box is hydraulically opened, which is convenient for operators to enter the box for work or cleaning. In addition, it can be used for the discharge of odors inside the box.

●Hydraulic Tailboard: Safe and Efficient

A Kaizhuoli hydraulic tailboard is installed at the rear of the box, which has the lifting function to fully meet the requirements of barrel loading operations. The hydraulic tailboard has an automatic leveling function, making the barrel loading process more stable and safe. The lifting time of the hydraulic tailboard is 10-12 seconds, which effectively improves the efficiency of barrel loading operations compared with the 12-14 seconds of similar products.

●Lightweight Design and Modular Concept

The box and tailboard adopt a lightweight design concept, which significantly reduces the energy consumption of the whole vehicle and greatly lowers the operation cost. The tailboard design incorporates a modular concept, making later maintenance and repair more convenient and efficient.

NEW ENERGY CLOSED BARREL GARBAGE TRUCK

The new energy enclosed barrel garbage truck is a new energy garbage collection and transportation vehicle developed and produced to support the national "Dual Carbon Goals" and build a green ecological environment. It not only has all the functions of a fuel-powered enclosed barrel garbage truck, but also features advantages such as energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Active Prodigy	Dongfeng	Kaptur	Jianghuai	Junling
Chassis Brand	Tangjun Ouling	Dongfeng		Jianghuai	
Volume (m³)	3		15		23
Gross Vehicle Mass (kg)	880		8495		7360
Wheelbase (mm)	2200		3858		3845
Battery Type	CATL Lithium	Iron Phosphate	CATL	Lithium Iron	Phosphate
Battery Capacity (kW·h)	6.9/8.4		106.95		66.84
Charging Time (min)	180(Slow Charging)	300(Slow	Charging)		180
Driving Range (km)	98		240		130
Rated Lifting Mass of Tailboard	(t) 0.35-0.8		0.5-1		≤1
Loading and Lifting Cycle	Operation Time (s) ≤16		≤16		≤14
Number of 120L/240L Garbage	Bins Loaded 6		18		21

11 NEW ENERGY DUMP GARBAGE TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- Upgraded Superstructure for New Energy Chassis

It adopts new energy chassis from well-known domestic and international brands, featuring advanced technology, stability and reliability. The superstructure is designed with lightweight materials, and has undergone comprehensive technical upgrades and detailed optimizations according to the new energy chassis.

- High-quality Box Stable and Durable

The box is made of high-quality carbon steel, with a stable plate structure that is firm and durable.

- High-quality Hydraulics: Stable Performance

The vehicle is equipped with hydraulic oil pumps, multi-way valves and hydraulic cylinders from well-known brands, featuring stable quality, durability, high pressure and fast cycling speed. It reduces power loss and failure rate, making the performance more stable.

- Customized on Demand: Highly Practical

The compartment can be equipped with a wingspan function, which can be controlled to open and close in the cab, ensuring that garbage does not spill during transportation.

NEW ENERGY DUMP GARBAGE TRUCK

The new energy dump garbage truck is built based on a new energy chassis, featuring advantages such as energy conservation and environmental protection, low noise, low cost, intelligence, and easy maintenance. The cargo box is equipped with a self-dumping function, facilitating garbage dumping. The garbage collection method is simple and efficient, widely suitable for garbage disposal in municipal sanitation, industrial and mining enterprises, residential areas with concentrated garbage, urban streets and other areas.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	SAIC Yuejin	Jianghuai	Shuai Ling
Chassis Brand	SAIC	Jianghuai	
Volume (m³)	4.5		8
Gross Vehicle Mass (kg)	3250		4495
Wheelbase (mm)	2500		3300
Battery Type	CATL Lithium Iron Phosphate	CATL Lithium	Iron Phosphate
Battery Capacity (kW·h)	41.86		100.27
Charging Time (min)	60(Fast Charging)	80(Fast	Charging)
Driving Range (km)	260		490

12 NEW ENERGY ROAD SWEEPER



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- Strong Range, Green and Efficient

Optimized power configuration, with a wide high-efficiency operating range of the motor, energy-saving and noise reduction, and an advanced high-voltage power distribution management system ensure the vehicle's long driving range and stable vehicle system.

- Patented Fan Stronger Suction

Equipped with a high-efficiency centrifugal fan, the efficiency and overall suction performance are significantly improved, and the fan blades are not easy to wear.

- Floating Suction Nozzle Higher Efficiency

By optimizing the matching of the roller brush rotation speed and the cleaning vehicle speed, as well as the full-floating suction cup design, the suction efficiency of lightweight garbage, large pieces of garbage, and granular garbage can be effectively improved.

- Oversized Box Carries More

An oversized water tank is installed, enabling long single-time water refilling operation, which can meet the needs of users for long-distance operations. The volume of the garbage bin is higher than that of peers, which can carry more garbage and reduce the number of transfers.

- Dust and Noise Reduction Environmentally Friendly

Equipped with a dust suppression system, it can effectively suppress dust during operation to avoid secondary environmental pollution. The independently developed fan silencer controls the noise generated during the whole machine's operation, reducing environmental impact.

- Safe and Intelligent Easy to Operate

Dual-control Electric System: The vehicle features a dual-control electric system with both a central control panel in the cab and an operation box at the rear of the compartment. This design ensures

convenient operation, eliminates blind spots during cleaning, and includes a voice alarm system to guarantee operational safety.

●Sweeping Disk Follow-up Automatic Adjustment

The sweeping disk features autonomous adaptive adjustment, which senses fluctuations in the ground pressure of the sweeping brush and timely adjusts the expansion and contraction of the working cylinder to reduce brush wear and ensure stable cleaning efficiency. Meanwhile, the rotation speed of the sweeping disk can automatically change with the vehicle speed to adapt to cleaning under different working conditions.

NEW ENERGY ROAD SWEEPER

The new energy road sweeper is a new energy road cleaning vehicle carefully developed and produced to support the national "double carbon goal" and create a green ecological environment. With upgraded new energy chassis and superstructure, it not only has all the functions of a fuel-powered road sweeper, but also features advantages such as energy conservation and environmental protection, low noise, low cost, and intelligence.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Active Prodigy	Dongfeng	Tuyi
Chassis Brand	Tangjun Ouling	Dongfeng	
Clean Water Tank Volume	(m³) 1.2		0.8
Garbage Bin Volume (m³)	0.75		3
Gross Vehicle Mass (kg)	950		4495
Wheelbase (mm)	2200		3000
Battery Type	Lithium Iron Phosphate	CATL Lithium	Iron Phosphate
Battery Capacity (kW·h)	6.9/8.4	66.84	
Charging Time (min)	300 (Slow Charging)	40(Fast	Charging)
Driving Range (km)	98		220
Sweeping Width (m)	1.6		2.2
Maximum Working Capacity	(m²/h) 24000	44000	

13 NEW ENERGY ROAD POLLUTION REMOVAL VEHICLE



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- Upgraded Superstructure for New Energy Chassis

Adopting new energy chassis from well-known domestic and international brands, the technology is advanced, stable and reliable. The superstructure features lightweight and intelligent design, with comprehensive technical upgrades and detailed optimizations based on the new energy chassis.

- Reliable Quality, Superior Performance

With a novel appearance, the box is made of 304 stainless steel, and core components adopt imported parts from foreign renowned brands, ensuring reliable quality and superior performance.

- Thorough Cleaning, Outstanding Results

The road cleaning effect is outstanding, which can completely and thoroughly remove road scale, silt, oil stains and heavy metals, with no sewage residue or leakage. It can effectively reduce urban road dust, PM2.5 and PM10, and its operation performance is at the international leading level.

- Intelligent Control, Efficient and Environmentally Friendly

In response to the characteristic of large water consumption for road cleaning, the vehicle is equipped with a sewage recycling and regeneration system for intelligent operation. Under the condition of the same water tank volume as similar products, it increases the recycled water volume by 25%-30%, effectively extending the operation time and significantly improving work efficiency.

- High Integration, Multi-Functional Machine

The vehicle has multiple functions such as road sweeping, road washing and sweeping, vertical surface scrubbing of curbs/curb stones, spray dust suppression, and low-pressure flushing. It can achieve the collaborative operation effect of road washing sweepers, water sprinklers, and fog cannon trucks, effectively reducing comprehensive operation costs.

- Advanced Structure, Efficient Operation

Adopting a high-negative pressure suction system, the vehicle provides hurricane-level super suction to ensure complete pollutant recovery without residue. It uses advanced technologies of "rear ultra-wide suction nozzle + built-in high-pressure jet rotating spray bar + left and right high-pressure side spray bars". The left and right suction nozzles can traverse 300mm, significantly reducing the operation frequency compared with traditional multi-machine joint operations. The effect of single-depth pollution removal can last 3-7 days.

NEW ENERGY ROAD POLLUTION REMOVAL VEHICLE

The New Energy Road Pollution Removal Vehicle (also known as Deep Cleaning Vehicle) is a high-end road cleaning model built on a new energy chassis, featuring significant advantages such as energy conservation, environmental protection, low noise, intelligence, and easy maintenance. This road pollution removal vehicle can completely solve the challenges of removing road scale, compacted dirt, oil stains, and other pollutants. It is widely used for deep cleaning in important venues such as roads, airports, docks, ports, steel plants, mines, and squares, as well as for the removal of toxic substances in nuclear, biological, and chemical environments. It serves as an indispensable (sanitation) and cleaning equipment for sponge cities (restoring the water permeability and drainage functions of roads) and a highly efficient tool for restoring urban roads after natural disasters such as floods.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	SAIC Yuejin	Dongfeng	Tianjin
Chassis Brand	SAIC Yuejin	Dongfeng	Tianjin
Clean Water Tank Volume	(m³) 5		8
Garbage Bin Volume (m³)	4		8
Gross Mass (kg)	11995		18000
Wheelbase (mm)	4170		5300
Battery Type	CATL Lithium Iron Phosphate	CATL Lithium	Iron Phosphate
Battery Capacity (kW·h)	162.28		282
Charging Time (min)	90(Fast Charging)	70(Fast	Charging)
Driving Range (km)	300		365
Sweeping Width (m)	3		3.5
Maximum Operation Capacity	(m²/h) 60000		70000

14 NEW ENERGY VACUUM TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

●Upgraded Superstructure for New Energy Chassis

Adopting new energy chassis from well-known domestic and international brands, it features advanced technology, stability and reliability. The superstructure is designed with lightweight and intelligent concepts, and has undergone comprehensive technical upgrades and detailed optimizations according to the new energy chassis.

●Simple and Durable

All key components are sourced from renowned brands, ensuring long service life, reliable functionality, and high product quality. The wide suction nozzle, controlled by hydraulic cylinders for lifting and lowering, employs hydraulic floating technology to significantly extend the service life of rubber wheels. The unique box structure allows for easy disassembly and maintenance of filter cartridges. The garbage bin features an inclined plate design, enabling convenient unloading without manual intervention.

●Efficient and Environmentally Friendly

The rear suction cup of the dust suction vehicle is equipped with a roller broom and adopts a vertical filter cartridge structure. The circular filter cartridges are equipped with an air pulse filter cartridge dust cleaning device, which can effectively separate the dust on the filter cartridges of the dust suction vehicle, avoiding blockage of the filter cartridges and secondary pollution. This greatly extends the service life of the filter cartridges, significantly improves the dust cleaning effect of the filter cartridges, and enhances the overall performance of the dust suction vehicle. It is configured with a large-capacity garbage bin to improve operation efficiency.

●Intelligent Control

The operating system is controlled by the CAN bus and features one-button operation, which is simple and convenient. The electrical system adopts integrated modular control. The panel has real-time monitoring functions for fault diagnosis, digital testing, auxiliary engine speed, water temperature, operating conditions, etc., making the operation status clear at a glance and facilitating maintenance.

●Safe and Reliable

The box lifting adopts hydraulic double-cylinder lifting, which can make the box lifting more stable and prevent potential safety hazards caused by pipeline failures after the box is lifted. The lifting cylinders are all equipped with special hydraulic lock devices.

NEW ENERGY VACUUM TRUCK

The New Energy Dust Suction Vehicle is a new energy road environmental protection vehicle developed based on a new energy chassis. It features significant advantages such as energy conservation, environmental protection, low noise, low cost, intelligence, and easy maintenance. Without the need for sweeping brushes, the vehicle operates on the principle of negative pressure direct suction, adopting unidirectional air intake (without back blowing airflow) to ensure dust only enters without escaping, eliminating secondary dust. This vehicle is suitable for mechanized cleaning operations on cement concrete and asphalt pavements in urban roads, viaducts, squares, airports, docks, industrial zones, and other areas.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	Foton Xiangling
Chassis Brand	Foton
Volume (m³)	3
Gross Mass (kg)	4495
Wheelbase (mm)	2850
Battery Type	CATL Lithium Iron Phosphate
Battery Capacity (kW·h)	55.7
Charging Time (min)	72(Fast Charging)
Driving Range (km)	190
Sweeping Width (m)	2.2
Maximum Operation Capacity	(m³/h) 44000

15 NEW ENERGY FECAL SUCTION TRUCK



Product photograph extracted and separated from the original catalogue layout.

PRODUCT INTRODUCTION & FEATURES

- Upgraded Superstructure for New Energy Chassis

Adopts new energy chassis from well-known domestic and international brands, featuring advanced technology, stability and reliability. The superstructure is designed with lightweight concept, and has undergone comprehensive technical upgrades and detailed optimizations based on the new energy chassis.

- Safe, Intelligent, and Easy to Operate

The opening and closing of the sewage tank rear discharge port are controlled by electro-pneumatic control, featuring convenient operation. The pneumatic cut-off vent valve adopts a one-button venting function to quickly unload the sewage suction pipe and rapidly empty the sewage in the pipe, enabling light and easy operation.

- Quality Assurance, Stable and Reliable

Adopts vacuum pumps and vacuum accessories from big brands, featuring stability and reliability, low maintenance cost, and long service life.

- Efficient Operation, Clean and Environmentally Friendly

The vacuum system is designed with multiple functional components such as oil-gas separators, water-gas separators, and anti-overflow valves to ensure the reliable operation of the vacuum suction system.

NEW ENERGY FECAL SUCTION TRUCK

The New Energy Fecal Suction Vehicle is a new energy pipeline dredging vehicle carefully developed and produced. It is used for cleaning and sanitation work in environments such as septic tanks, sewage

ditches, and sewers, and is also suitable for suction, transportation, and discharge operations of wastewater and sediments in industries such as oil refining, steel, chemical engineering, property management, and environmental sanitation. It not only possesses all the functions of fuel-powered fecal suction vehicles but also features energy conservation, environmental protection, low noise, non-disturbance during operation, and low vehicle usage costs.

TECHNICAL PARAMETERS

TECHNICAL PARAMETER	SAIC Yuejin	Foton Pilot S1	SAIC Yuejin
Chassis Brand	SAIC	Foton	SAIC
Volume (m³)	2.5	2.5	5.2
Gross Mass (kg)	4495	4495	8495
Wheelbase (mm)	2850	2850	3308
Battery Type	CATL Lithium Iron Phosphate	CATL Lithium Iron Phosphate	CATL Lithium Iron Phosphate
Battery Capacity (kW·h)	66.8	66.8	106.95
Charging Time (min)	90(Fast Charging)	90(Fast Charging)	90(Fast Charging)
Driving Range (km)	300	275	291
Maximum Suction Range	(km) ≥7	≥7	≥7
Suction Time (min)	≤10	≤10	≤10
Operation Mode	Manual	Manual	Manual

16 AERO E-REFUELER X5 - 5,000 L



Compact aviation refueling truck configuration with a 5,000 L single-compartment aluminum-alloy tank and dedicated fueling, filtration, metering, grounding and hose-reel systems.

TECHNICAL PARAMETER	Aero E-Refueler X5
Nominal Capacity	5,000 L
Compartment	Single compartment
Material	Aluminum alloy 5182
Shell Thickness	5 mm
End Plate Thickness	5 mm
Manhole	1 aluminum alloy European standard manhole with built-in breathing valve (top center)
Top Guardrails	Aluminum alloy, manual, both sides
Rear Ladder	Aluminum alloy, detachable type
Operation Cabinet	Aluminum alloy, with 1 set of explosion-proof light
Static Grounding Reel	1 set, inside cabinet
Oil Pump	Centrifugal pump, mechanical seal type
Metering System	Differential pressure gauge; pressure gauge; Jingda instrument, accuracy class 0.2; DN50 oval gear flow meter
Filter Separator	Stainless steel, 5 elements: 2 separator elements + 3 coalescing elements
Fueling Method	Gravity refueling
Hose Reel	15 m aviation fuel hose reel
Drain Valve	1 inch

17 AERO E-REFUELER X20 - 20,000 L



High-capacity aviation refueling truck configuration with hydraulic reel, high-flow metering, auxiliary-shaft hydraulic drive, oil-water separation, comprehensive control instrumentation and closed-loop sampling provisions.

TECHNICAL PARAMETER	Aero E-Refueler X20
Nominal Capacity	20,000 L
Structure	Single compartment
Shell Thickness	5.6 mm
End Plate Thickness	5.7 mm
Bulkhead Thickness	5.7 mm
Hydraulic Reel	Aviation refueling truck dedicated 50# hydraulic reel, 20 m with nozzle
Hydraulic Reel (DN65)	20 m with aviation coupling
Flow Meter	Large display, accuracy class 0.2, flow rate 1,200 L/min
Reel Safety Equipment	Explosion-proof light; emergency shut-off (90F/h)
Oil-Water Separator	Equipped
Pump / Transfer Arrangement	Self-priming centrifugal pump, pump-in & pump-out, with HYJ-63X coupling valve
Hydraulic System	Driven by auxiliary transmission shaft
Level Gauge	6-inch float level gauge
Valves	HYJ-63X coupling valves installed at left middle and rear positions
Connection	Flexible soft connection
Operation Cabinet	Remote magnetic control switch; manual throttle with air cylinder; internal pipeline pressure control valve; Venturi tube; high-level control valve; magnetic refueling controller
Instruments	Vacuum gauge; pressure gauge; differential pressure gauge; Venturi pressure gauge; hydraulic pressure gauge
Sampling System	Sampling before/after filter and for discharge, closed-loop sampler

Sampling Recovery	Sampling recovery container
Tank Top	Anti-slip walkway (protective net) with movable guardrail
Ladders	Internal and external ladders
Operation Boxes	1 set each
Mudguards	2 sets, single-axle folding type
Protection	Side protection; rear protection
Piping System	Pipes, ball valves, gaskets and bolts all included
Surface Treatment	Cleaned surface; markings and reflective tapes as per factory standard
Other Requirements	As per user requirements
Overall Vehicle Height	$\leq 3,250$ mm
Valve Requirement	Aluminum alloy
Main Valves	2 aluminum alloy bottom valves (subsea valves)
Monitor / Cannon	Stainless steel
Pump Specification	Self-priming centrifugal pump, flow rate 120 m ³ /h

AERO E-REFUELER X5 / X20 - ENGINEERING SYSTEM SUMMARY

Tank & structural package: Separate single-compartment configurations with thickness/material requirements organized for procurement review.

Fuel transfer and delivery: Dedicated centrifugal pumping arrangements, aviation hose/reel equipment and connection hardware according to each model configuration.

Metering and instrumentation: Differential-pressure and pressure monitoring, accuracy-class 0.2 metering requirements and high-flow instrumentation on X20.

Filtration and sampling: X5 stainless filter separator with coalescing/separator elements; X20 oil-water separation and closed-loop sampling before/after filter and at discharge.

Safety and operation: Grounding, explosion-proof lighting, emergency shut-off, guardrails, anti-slip access, bottom/subsea valves and vehicle protection systems as specified.