
S2000F 扫路机
S2000F Road Sweeper

产品简介
Product Introduction

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S2000F 扫路机产品简介

一、产品概况

S2000F 扫路机是公司创新研发的铰接式、全液压驱动、240L 标准桶装式扫路机。具有路面清扫、干式除尘、垃圾破碎减容收集以及辅助吸管作业等功能。整机造型美观，机动灵活，清扫能力强。特别适用于城市辅道、非机动车道、人行道、步行街、风光带、公园、学校、景点、居民生活小区等狭窄区域的清扫保洁作业。

S2000F sweeper is an articulated, hydraulically driven, 240L standard barrel sweeper innovatively developed by the company. It has the functions of road cleaning, dry dust removal, all day operation, garbage crushing and volume reduction collection, bucket changing and bag changing operation and auxiliary straw operation. The whole machine has beautiful appearance, flexibility and strong cleaning ability. It is especially suitable for cleaning and cleaning in narrow areas such as urban auxiliary roads, non motor vehicle lanes, sidewalks, pedestrian streets, scenic spots, parks, schools, scenic spots and residential quarters.



右 Right 45°



左 Left 45°



前 Front



后 Back

二、功能概况 Functions

具有路面清扫、干式除尘全天候作业、垃圾破碎减容收集、换桶换袋作业收集以及辅助吸管吸拾作业等功能。扫路机采用干式除尘系统，可全天候作业，同时配备专用破碎风机，可实现垃圾破碎减容收集，提高单次垃圾收集量，并且 240L 标准垃圾桶可快速更换，亦可配套使用垃圾袋快速更换进行连续清扫作业，延长作业时间，同时还能选用辅助吸管手动吸污，清除路面凹坑、路边小沟中的树叶等垃圾，或者选用高压水枪对附着在路面、墙壁上的顽固垃圾进行定点清污。

It has the functions of road cleaning, all-weather operation of dry dust removal, garbage crushing and volume reduction collection, bucket change and bag change collection, auxiliary straw suction and collection, etc. The road sweeper adopts a dry dust removal system, which can operate all day. At the same time, it is equipped with a special crushing fan, which can realize garbage crushing and volume reduction collection and improve the single garbage collection volume. In addition, the 240L standard garbage can can be replaced quickly, and the garbage bag can also be used for rapid replacement for continuous cleaning operation to prolong the operation time. At the same time, it can also select an auxiliary suction pipe to manually absorb dirt and remove road pits. Leaves and other garbage in roadside ditches, or use high-pressure water guns to clean stubborn garbage attached to roads and walls at fixed points.

三、适用范围 Application

适用于城市辅道、狭窄道路、非机动车道、人行道、步行街、风光带、公园、学校、景点、居民生活小区等大型扫路车无法或不方便进入区域的进行清扫、清洗作业。

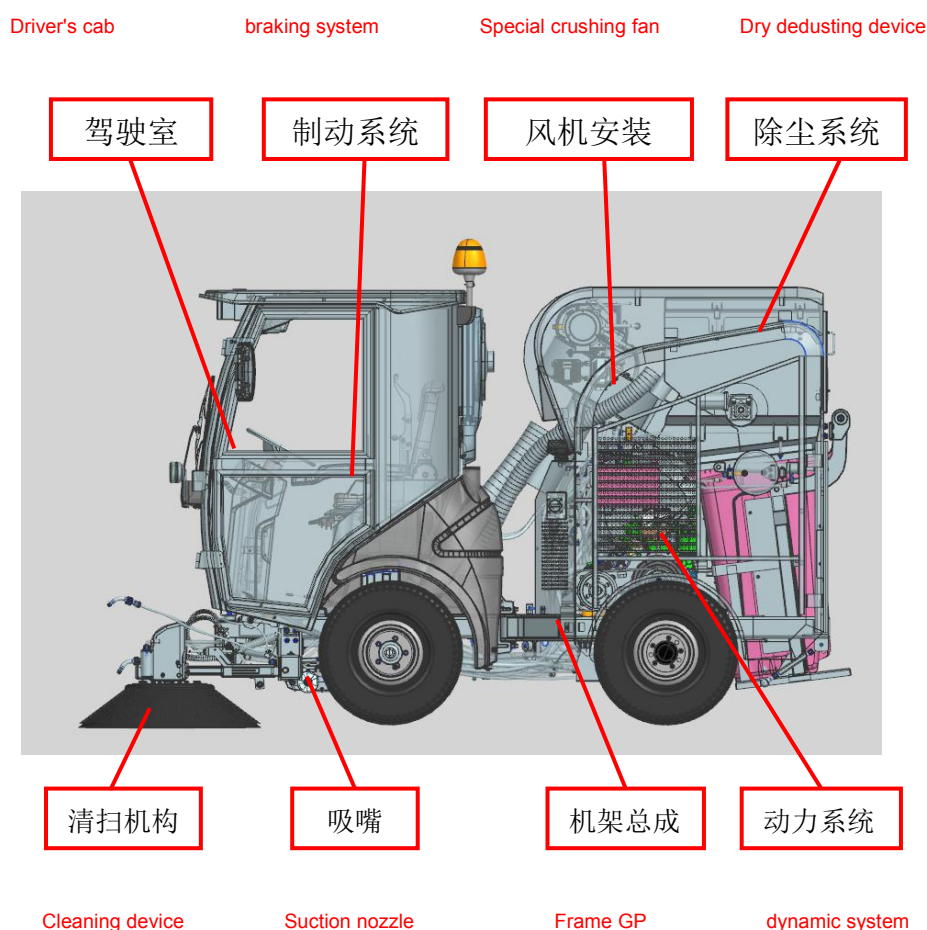
It is suitable for cleaning and cleaning in areas where large road sweepers cannot or are inconvenient to enter, such as urban auxiliary roads, narrow roads, non motorized lanes, sidewalks, pedestrian streets, scenic spots, parks, schools, scenic spots, residential quarters and so on.

四、主要结构及性能特点

该扫路机采用自制专用底盘，配国际知名品牌柴油发动机，铰接式机架，全景风窗玻璃驾驶室，冷暖空调、空气悬浮座椅，方向盘式液压转向系统，全液压驱动系统和低速高负荷子午线轮胎。专用装置有干式除尘装置、专用破碎风机、240L 标准垃圾桶、清扫装置、吸嘴、喷水降尘系统、液压系统、电控系统等部件。主要配套件均为行业内知名品牌，性能优良、工作

可靠。

The road sweeper adopts self-made special chassis, equipped with internationally famous brand diesel engine and articulated frame, panoramic windshield cab, cooling and heating air conditioner, air suspension seat, steering wheel hydraulic steering system, electric rear axle driving system and low-speed and high load radial tire. The special devices include dry dust removal device, special crushing fan, 240L standard garbage can, cleaning device, suction nozzle, water spray dust reduction system, hydraulic system, electric control system and other components. The main supporting parts are well-known brands in the industry, with excellent performance and reliable operation.



扫路机的主要性能特点: Main performance characteristics of sweeper:

1、采用 240L 标准垃圾桶储存垃圾，垃圾桶装卸灵活方便，可快速更换垃圾桶作业，亦可配套使用垃圾袋快速更换作业，延长作业时间，同时能与垃圾转运车进行联合作业。

1. 240L standard garbage can is used to store garbage. The loading and unloading of the

garbage can is flexible and convenient. It can quickly replace the garbage can. It can also be used with garbage bags to prolong the operation time. At the same time, it can carry out joint operation with the garbage transfer vehicle.

2、扫路机采用气流循环反吹抽吸系统，气流经过多级过滤装置后排出，清扫作业时不会产生出风口扬尘二次污染，同时吸嘴采用反吹结构以提升吸拾效率，实现扫路机长时间作业，并且晴雨天均可作业。

2. The road sweeper adopts the air circulation back blowing and suction system, and the air flow is discharged after passing through the multi-stage filtering device. During the cleaning operation, there will be no secondary pollution of dust at the air outlet. At the same time, the suction nozzle adopts the back blowing structure to improve the suction efficiency, so as to realize the long-time operation of the road sweeper, which can be operated in sunny and rainy days.

3、采用干式除尘系统，除尘装置采用多级过滤设计，可全天候作业，同时配备滤布振灰装置，实时清灰，确保滤布过滤性能，实现长时间有效作业。

3. The dry dust removal system is adopted. The dust removal device adopts multi-stage filtration design, which can operate all day. At the same time, it is equipped with filter cloth vibrating device to remove the ash in real time, so as to ensure the filtering performance of filter cloth and realize long-term effective operation.

4、底盘采用燃油动力，液压驱动，技术成熟，性能可靠；发动机采用电子调速，液压泵、马达行走闭式系统采用电比例排量控制，整机具有功率优化匹配及过载控制，工作效率高，性能稳定可靠。转向采用铰接结构，转弯半径小，转向操作灵活，便于在狭小空间作业。

4. The chassis adopts fuel power and hydraulic drive, with mature technology and reliable performance; The engine adopts electronic speed regulation, and the hydraulic pump and motor walking closed system adopts electric proportional displacement control. The whole machine has power optimization matching and overload control, high working efficiency, stable and reliable performance. The steering adopts articulated structure, with small turning radius and flexible steering operation, which is convenient for operation in a narrow space.

驾驶室采用全景风窗玻璃，水平可视角度大于 270°，配备空气悬浮座椅，驾驶员可根据身高和体重，随时调节座椅高度与悬浮气压，达到最舒适状态，配置冷暖空调和多媒体设备，

驾驶环境舒适。

5. The cab adopts panoramic windshield, with a horizontal visual angle greater than 270° , and is equipped with air suspension seats. The driver can adjust the seat height and suspension air pressure at any time according to his height and weight to achieve the most comfortable state. It is equipped with cold and warm air conditioning and multimedia equipment, and the driving environment is comfortable.

6、清扫机构采用自动防撞结构，配备整体式扫盘，液压马达驱动，转速可调，同时清扫机构与吸嘴采用联动控制，实现同步升降。

6. The cleaning mechanism adopts automatic anti-collision structure, equipped with integral sweeping plate, driven by hydraulic motor and adjustable speed. At the same time, the cleaning mechanism and suction nozzle adopt linkage control to realize synchronous lifting.

7、清水箱整体 PE 成型，外形与驾驶室匹配，整体造型美观，配合隔膜泵驱动的降尘水路，作用于左右扫盘处，实现扫盘抑尘，同时扫盘降尘喷嘴的水流量可通过流量阀手动调节，一次装满水可连续抑尘 3 小时以上。

7. The clean water tank is made of PE as a whole, the shape is matched with the cab, and the overall shape is beautiful. Combined with the dust reduction water path driven by the diaphragm pump, it acts on the left and right sweeping plates to achieve dust suppression. At the same time, the water flow of the sweeping plate dust reduction nozzle can be manually adjusted through the flow valve, and the dust can be suppressed continuously for more than 3 hours when filled with water at one time.

8、风机采用耐磨钢制作，抗磨损性好，具有破碎功能，能对垃圾进行破碎减容，提升单桶垃圾装载量，同时风机采用低噪节能设计，能长时间可靠使用，实现作业节能降噪。

8. The fan is made of wear-resistant steel with good wear resistance and crushing function. It can crush and reduce the capacity of garbage and improve the loading capacity of single bucket of garbage. At the same time, the fan adopts low-noise and energy-saving design, which can be used reliably for a long time to realize energy conservation and noise reduction in operation.

9、辅助吸管采用柔性、高压比可伸缩波纹软管，满足手动吸拾作业需求。

9. The auxiliary suction pipe adopts flexible and high compression ratio retractable corrugated

hose to meet the needs of manual suction operation.

10、高压水路（可与辅助吸管配置二选一）采用国际知名品牌三柱塞式高压水泵，通过液压马达驱动，工作效率高、可靠。

10. The high-pressure water circuit (one of two can be configured with the auxiliary suction pipe) adopts the international well-known brand three plunger high-pressure water pump, which is driven by hydraulic motor, with high efficiency and reliability.

11、清扫作业设置有定速巡航模式，可减轻腿部疲劳，提高清扫作业质量

11. Constant speed cruise mode is set for cleaning operation, which can reduce leg fatigue and improve the quality of cleaning operation

12、扫路机关键液压驱动元件，如变量柱塞泵、行走马达、转向器等均采用一线品牌，安全稳定，成熟可靠。

12. The key hydraulic driving components of the sweeper, such as variable piston pump, traveling motor and steering gear, are first-line brands, safe, stable, mature and reliable.

13、扫路机采用自动化控制系统，彩色显示屏操作，一键式作业智能控制，彩色视频作业监控。风机有强力、标准和经济三挡设置，可在作业过程中随时切换，扫盘可在设定的范围内无极调速，匹配最佳作业场景。

13. The road sweeper adopts automatic control system, color display operation, one button operation intelligent control and color video operation monitoring. The fan has strong, standard and economic three gear settings, which can be switched at any time during operation. The disk sweeping can adjust speed steplessly within the set range to match the best operation scene.

14、扫路机采用“**显示屏+控制器+CAN 总线操作面板**”的控制模式。作业启动和作业停止时，吸嘴升降、扫盘收放等作业装置全由一键控制，操作简便。

14. The sweeper adopts the control mode of "display + controller + CAN bus operation panel". When the operation starts and stops, the operation devices such as suction nozzle lifting, sweeping, retracting and releasing are all controlled by one key, which is easy to operate.

显示屏。位于驾驶座右前方，主要用于显示车辆的各种作业参数、调试及故障诊断。

display. Located at the right front of the driver's seat, it is mainly used to display various operation parameters, commissioning and fault diagnosis of the vehicle.

操作盒。位于驾驶座右侧座椅扶手，主要用于一键启动、停止操作；扫盘手动升降、展开；扫盘转速调节。

Operation box. The seat armrest on the right side of the driver's seat is mainly used for one key start and stop operation; Manual lifting and unfolding of sweeping plate; Speed adjustment of disc sweeping.

操作面板。位于驾驶室右侧上方，主要用于调试维修。

Operation panel. It is located above the right side of the cab and is mainly used for commissioning and maintenance.

车辆设有彩色视频后视系统。车辆后部装有摄相头，驾驶室内装有彩色显示屏。倒车时可以实时显示倒车视频。

The vehicle is equipped with color video rear view system. A camera is installed at the rear of the vehicle and a color display screen is installed in the cab. When reversing, the reversing video can be displayed in real time.

五、产品主要技术参数 Main technical parameters

项 目 Item	单位 Unit	型 号 及 参 数 Parameter
外形尺寸（长×宽×高） Shape size(lengths*width*height)	mm	3400×1180×2030
最大总质量 Max total mass	kg	2050
整车整备质量 Curb mass	kg	1800
最高车速 Maximum speed	km/h	20
爬坡度 Max permissible gradient	%	≥20
最小转弯半径 Min turning diameter	m	2.3
最大清扫宽度 Maximum sweeping width	mm	2000
作业速度 Operating speed	km/h	0～10
最大作业能力 Maximum operating capacity	m ² /h	20000
垃圾装载容积 Garbage loading volume	L	240L 垃圾桶 Trash can
清水箱容积 Clean water tank volume	L	180
燃油箱容积 Fuel tank volume	L	≥46
液压油箱容积 Hydraulic tank volume	L	≥40

作业噪声 Working noise	dB (A)	≤76
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六、产品主要优势 Main advantages

1. 性能优越 Superior performance

机动灵活。铰接式转向，最小转弯半径≤2.3m，整车宽度 1.18m，可灵活穿越各种狭窄区域作业，同时底盘采用维护便捷、经济可靠的燃油动力系统，动力强劲，可灵活进出地下停车场等区域进行作业。

Flexible. Articulated steering, with minimum turning radius $\leq 2.25\text{m}$ and vehicle width of 1.18m, The chassis adopts the fuel power system with convenient maintenance, economy and reliability, which has strong power and can flexibly enter and exit the underground parking lot and other areas for operation.

作业模式多：除清扫路面作业模式外，清扫作业还设置有定速巡航模式，可减轻腿部疲劳，提高清扫作业质量。整机采用干式除尘系统，同时采用标准垃圾桶快速更换作业，并且可配合垃圾转运车进行组合作业，同时还能选用辅助吸管进行手动吸拾作业，便于清除路面凹坑、路边小沟中的树叶等垃圾，或者选用高压水枪对附着在路面、墙壁上的顽固垃圾进行定点清污。

Many operation modes: In addition to the road cleaning operation mode, the cleaning operation is also equipped with constant speed cruise mode, which can reduce leg fatigue and improve the quality of cleaning operation. The whole machine adopts dry dust removal system, which can be operated all day. At the same time, it can use standard garbage cans for rapid replacement, and can also use garbage bags for rapid replacement. It can also cooperate with garbage transfer vehicles for combined operation. At the same time, it can also select auxiliary suction pipes for manual suction operation, which is convenient to remove garbage such as road pits and leaves in roadside ditches, Or use high-pressure water gun to clean the stubborn garbage attached to the road and wall at a fixed point.

驾驶舒适性优。全景风窗玻璃驾驶室，可视角度达到 270°，操作视野广阔，配置空气悬浮座椅，可根据驾驶员的身高和体重随时调节，配置冷暖空调，驾驶环境舒适。

Excellent driving comfort. The panoramic windshield cab has a visual angle of 270 ° and a wide operating vision. It is equipped with air suspension seats, which can be adjusted at any time according to the driver's height and weight. It is equipped with cold and warm air conditioning,

and the driving environment is comfortable.

2. 质量优良 Excellent quality

关键元器件配置高。柴油发动机、变量柱塞泵、行走马达、转向器等为国际知名品牌，齿轮泵、齿轮马达、座椅、液压接头等为国内知名品牌、质量优良，可靠度高。

High configuration of key components. Diesel engine, variable piston pump, traveling motor and steering gear are international well-known brands, while gear pump, gear motor, seat and hydraulic connector are domestic well-known brands with excellent quality and high reliability.

选材轻量化。清水箱以及各类操作盒和等，采用高强度 PE 材料，整体模具成型。质量轻、强度高、造型美。

Lightweight material selection. The clean water tank and all kinds of operation boxes and are made of high-strength materials and formed by an integral mold. Light weight, high strength and beautiful shape.

3. 安全可靠 Safe and reliable

自控程度高。控制器、彩色显示屏、CAN 总线控制系统，一键式操作。有强力、标准和经济三挡设置，可在作业过程中随时切换。系统可靠性高。

High degree of self-control. Controller, color display, can bus control system, one touch operation. There are powerful, standard and economical three gear settings, which can be switched at any time during operation. High system reliability.

安全性强。车辆后部装有摄相头，驾驶室内装有彩色显示屏，倒车时可以实时显示倒车视频，保障倒车安全。档位未处于 N 挡无法点火，手刹未松扫路机不能行走，防止操作人员误操作。

Strong security. A camera is installed at the rear of the vehicle and a color display screen is installed in the cab. When reversing, the reversing video can be displayed in real time to ensure the safety of reversing. If the gear is not in gear n, the ignition cannot be started, the hand brake is not released, and the road sweeper cannot walk, so as to prevent misoperation by operators.

4. 功能多样 Various Functions

机小用途广。整机宽度仅 1.18m，转弯半径小，狭窄的地方也可以进入，取代人工进行机扫作业，完成扫路车不能完成的任务，将环卫工人从繁重的体力劳动中解放出来。除清扫路面外，还可以定速巡航作业，扫路机采用干式除尘系统，可全天候作业，同时配备专用破碎风机，

可实现垃圾破碎减容，提高单次垃圾收集量，并且标准垃圾桶可快速更换，亦可配套使用垃圾袋快速更换进行连续清扫作业，延长作业时间，同时还能用辅助吸管手动吸污，清除路面凹坑、路边小沟中的树叶等垃圾，或者选用高压水枪对附着在路面、墙壁上的顽固垃圾进行定点清污。

The machine is small and widely used. The width of the whole machine is only 1.18m, the turning radius is small, and narrow places can also be entered. Instead of manual machine scanning, it can complete the tasks that can not be completed by the road sweeper, and liberate the sanitation workers from heavy physical labor. In addition to cleaning the road, it can also cruise at a constant speed. The road sweeper adopts a dry dust removal system, which can operate all day. At the same time, it is equipped with a special crushing fan, which can reduce the capacity of waste crushing and improve the single waste collection. In addition, the standard garbage can can be replaced quickly, and the garbage bag can be replaced quickly for continuous cleaning, so as to prolong the operation time, At the same time, the auxiliary suction pipe can be used to manually suck the dirt to remove the garbage such as road pits and leaves in roadside ditches, or the high-pressure water gun can be used to clean the stubborn garbage attached to the road and walls at a fixed point.

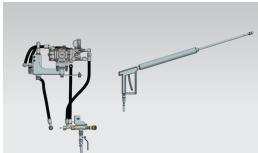
媒体功能多。标配无线电收音机，MP3 播放，手机充电等功能。

Multi media functions. Standard radio, MP3 player, mobile phone charging and other functions.

5. 维护简便 Simple maintenance

故障查询便捷。整机配置了多种传感器，故障问题能通过显示屏幕直接查询，精准定位故障点。系统具有自诊断、预警处理、应急防护、故障分析、作业记录、配件查询等多项功能。**Fault inquiry is convenient.** The whole machine is equipped with a variety of sensors, and the fault problems can be queried directly through the display screen to accurately locate the fault point. The system has many functions, such as self diagnosis, early warning processing, emergency protection, fault analysis, operation record, accessories query and so on.

七、选配装置 Optional configuration

序号	名称	图片	功能	备注
1	高压水路系统 High pressure waterway system		用于手动清洗路面上难以清洗的污渍。 It is used to manually clean the stains on the road that are difficult to clean.	与辅助吸管配置二选一 Choose one from the auxiliary straw configuration