



# LYNX

For a city of tomorrow.



**LYNX 5000**

**LYNX CHARGE 5000**

**LYNX H2 5000**

## Cleaning solution for the 21<sup>st</sup> century city

As the landscape of cities evolves, so must our approach to maintaining them. Meet the Lynx 5000, a new cleaning solution designed specifically to meet the challenges of the 21<sup>st</sup> century city. The rapid expansion of cities and the increasing complexity of infrastructure systems mean that the work of city caretakers is not only challenging but also more crucial than ever.

The Lynx 5000 is the answer to these challenges. Available with a choice of three drive systems: diesel, electric or hydrogen-powered fuel cell drive.

Built by RASCO – one of the leaders in infrastructure maintenance technology – the Lynx 5000 embodies more than 30 years of expertise and innovation. The Lynx 5000 is a testament to RASCO's commitment to developing great technology for safer transport and a cleaner environment.

Its design continues recognizable and functional design from Lynx 2000. It offers a user experience that is second to none – from the most comfortable and highly visible cab to an unparalleled human-machine interface based on years of operator experience.

Welcome to the future of urban maintenance.



## DESIGN WITH PURPOSE

# LYNX 5000, good looking, comfortable and functional

4 wheels  
steering

Ergonomically  
adjustable command  
console

Automatic air  
conditioning system

Front tilted  
windshield

Front  
hydropneumatics  
suspension

Built in hopper washing  
system



The Lynx 5000 introduces a new era in sweeping excellence, featuring a host of innovative benefits that redefine the urban cleaning experience. The distinctive design from Lynx 2000 is successfully transferred to new sweeper edition of Lynx 5000, giving a touch of modern elegance, but also uncompromised visibility, enabling top performance and efficiency.

Taking user comfort to new heights, it incorporates a front panel seamlessly integrated into the roof for a streamlined and ergonomic design. This extended roof not only adds an elegant flair, but also fulfils a practical purpose by protecting the operator from direct sunlight and creating a comfortable working area.

The Lynx 5000 also features functional design elements such as a manual high pressure washer cleverly placed behind the cab, a manual wanderhose, a carefully designed suction turbine and even an in-cab cup and phone holder for maximum convenience.

Every facet of the Lynx 5000's design is purpose-orientated. The advanced aesthetics do not compromise on functionality. To maximise cleaning efficiency, the most frequently used sweeping commands are perfectly placed in the ergonomically designed hand rest console. The console is also adjustable to find the best position for each user's preference and comfort.

The Lynx 5000 is a testament to the commitment to excellence in design and performance. It represents what purposeful design looks like – a good-looking, comfortable and functional solution that is always ready to meet the challenges of the urban environment.





## LYNX 5000 IN ACTION

# Efficiency and performance without compromise

The Lynx 5000 is a testament to cutting-edge sweeping technology and has been specifically designed to meet the diverse needs of users while maximizing efficiency and performance. A look at its comprehensive features reveals a machine that exceeds expectations in many ways.

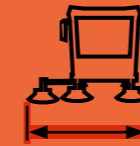
The fixed sweeping width of 2540 mm, which can be extended to an impressive 3530 mm with an optional third brush, makes the Lynx 5000 a powerhouse that can cover large areas in a single pass. The standard two-brush configuration and optional third brush ensure unparalleled sweeping performance, supported by a load-sensing hydraulic system.

The Lynx 5000 has a remarkable capacity with a payload of 5000 kg. It is equipped with a 5 m<sup>3</sup>, robust stainless steel hopper and guarantees durability. The vehicle maintains its excellent performance even when fully loaded, with an exceptional gradeability of up to 30%.

The hooper control unit of the Lynx 5000 is intelligently placed in the cab and enables convenient operation, whether you are inside or outside the vehicle. The Lynx 5000 offers two efficient options for unloading waste. The standard tipping method offers a convenient unloading height of 900 mm, while the high dump option goes one step further with an impressive 1600 mm unloading height, facilitated by a powerful push plate mechanism.



2.54 m



3.53 m



5 m<sup>3</sup>



700+ L



1.6 m  
High dumping system

The hydraulic door opening mechanism not only allows smooth and controlled access to the hopper, but also contributes to overall ease of use by minimizing manual effort.

An outstanding feature is the large water capacity with a total of 700+ L. This generous water supply not only ensures a smooth flow of collected material, but also effectively suppresses dust and extends the machine's autonomy for longer working hours without interruptions for refilling.

The Lynx 5000 has a maximum driving speed of 50 km/h in transport mode and a sweeping speed of 20 km/h in operation. Remarkable manoeuvrability, combined with the two-wheel drive

on the rear axle, enables fast movement between job sites and promotes efficient cleaning operations. The four-wheel steering (4WS), which ensures precise control and manoeuvrability during work, is automatically switched off in transport mode so that the Lynx 5000 remains stable even at high speeds.

For a safe and comfortable operation, the Lynx 5000 has a hydropneumatic front wheels suspension system that keeps the vehicle stable regardless of the weight distribution.

The Lynx 5000 is a sophisticated and powerful sweeping solution that redefines the standards for urban cleaning equipment through the seamless integration of advanced features.



## ENVIRONMENTALLY FRIENDLY SWEEPING

# LYNX 5000 – sweeper with low environmental impact

In the realm of urban cleanliness and sustainability, the Lynx 5000 is designed to operate with minimal power consumption and emissions.

Lynx 5000 sweepers have a water recirculation system that ensures a smooth flow of collected material and additional dust suppression. This system reuses the waste water, reducing the need for fresh water and promoting sustainable operation.

They are not only low emission and water efficient, but they are also designed to keep noise pollution to a minimum, operate quietly and are ideal for use in residential and noise-sensitive areas.

With the Lynx 5000 product range, particular attention is paid to reducing emissions as much as possible. The introduction of the hydrogen-powered Lynx H2 5000 sweeper was therefore a logical step in the search for new environmentally friendly solutions.

The Lynx 5000 sets a new standard for environmentally friendly urban sweepers. With features such as water recirculation and reduced noise pollution, they are a sustainable and responsible choice for cities striving to create a cleaner, quieter and more livable environment for their residents.

**All three sweeper drive systems, the diesel-powered Lynx 5000, the battery-powered Lynx Charge 5000 and the hydrogen-powered Lynx H2 5000, fulfill the evolving needs of urban infrastructure maintenance and point the way to sustainable development. The sweepers are designed to be as environmentally friendly as possible and offer optimum performance with the aim of minimising the negative impact on the environment.**



Water saving



## LYNX 5000

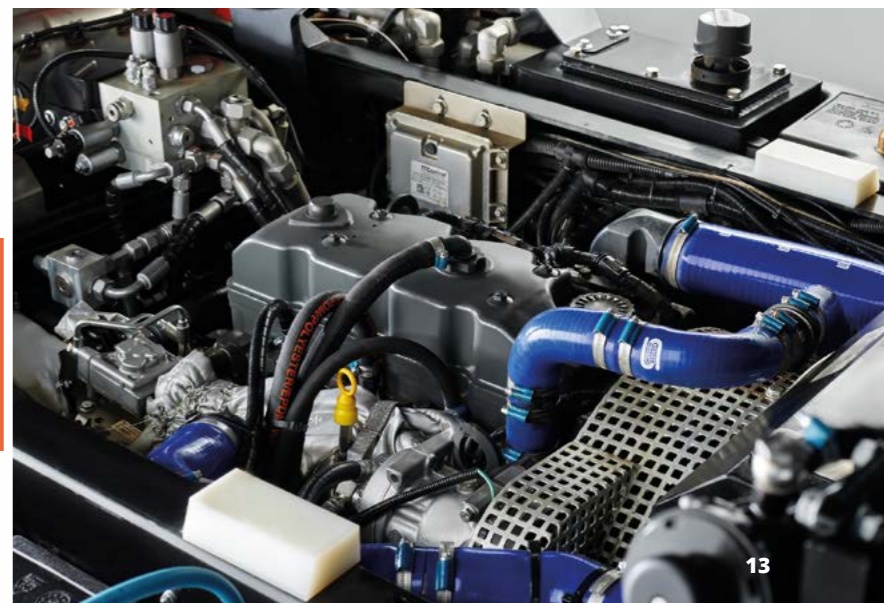
### Performance beyond the norm

As a part of RASCO's commitment to sustainability, Lynx 5000 is powered by an environmentally friendly internal combustion engine. Advanced EURO 6 E diesel engine, heart of Lynx 5000, delivers 118 kW of power. This power is then distributed optimally, consuming minimal fuel and reducing emissions.

The powertrain system of Lynx 5000 features an automotive electronically controlled hydrostatic drive ensuring minimal amount of power is used to achieve the desired speed. All hydraulically powered subsystems of the sweeper are powered by a carefully designed hydraulic system with multiple hydraulic pumps ensuring top level cleaning performance, suction power, maneuverability, and reliability.



118 kWh  
EURO 6  
diesel  
engine



## LYNX CHARGE 5000

### An electric sweeper that just keeps going

Lynx Charge 5000 draws its power from an impressive 160 kWh Lithium-ion battery pack, supporting an operating time of up to 8 hours. With Lynx Charge 5000 the entire work shift can be completed without a need for recharging. When the battery eventually empties, 80 kW DC fast charger can top it up in 3 hours.

Unlike Lynx 5000 that has only one engine, Lynx Charge 5000 has three electromotors responsible for powering the drive train, suction fan and electrohydraulic power pack. Combined, Lynx Charge 5000 packs more power than the diesel version.

The electric drive system is not only cleaner and more efficient, but also quieter and requires less maintenance than conventional diesel engines. Built on the Lynx 5000 platform, Lynx Charge 5000 is not just an electrified version of Lynx 5000, it is truly a fully pledged electric sweeper delivering the same efficiency as the diesel version does.



160 kWh  
battery  
pack



up to 8 h  
operating  
time



up to 3 h  
fast  
charging





## LYNX H2 5000

### Zero emissions sweeper

The Lynx H2 5000 represents a revolution in urban maintenance technology showcasing the potential of hydrogen fuel cells to drive sustainability. By utilising clean energy source, this innovative vehicle avoids harmful emissions, mitigating the environmental impact of urban operations while improving air quality.

A hydrogen fuel-cell vehicles are still novelty on the roads worldwide. And Lynx H2 5000 is the first 5 m<sup>3</sup> compact sweeper that introduces this technology.

The Lynx H2 5000 is powered by the same electromotors as the electric version of the sweeper. The energy required for the drive does not come from the battery, but from an H<sub>2</sub> fuel cell. When converting H<sub>2</sub> into electrical energy, the only by-product is water.

The Lynx H2 5000 supports an operating time of up to 8 hours and can be quickly refueled. This ensures uninterrupted operation and makes it a reliable machine for various urban maintenance tasks.

In addition, the introduction of zero-emission technologies such as the Lynx H2 5000 is a crucial step towards greener cities worldwide.



powered by  
HYDROGEN  
FUEL CELL



up to 8 h  
operating  
time



10.5 kg  
H<sub>2</sub> tanks  
capacity

## Complex operations performed with ease

In Lynx 5000, special attention was given to the design of an efficient and user-friendly control system. The role of a sweeper operator requires a high degree of situational awareness and multi-tasking. In such a position, it is crucial that one does not have to constantly shift attention from the work at hand to looking for the knobs and switches. The control system design process was focused on understanding the challenges faced by operators and developing a human-machine interface that maximizes flexibility and minimizes complexity.

The controls are grouped according to their functionality and frequency of use, making them easily accessible. Steering and driving controls are placed on the steering column, ensuring minimal obstruction of the front cab view.

The most used sweeping controls are conveniently integrated into the adjustable hand rest on the driver's door. Secondary sweeping controls are located on the central console, while other less used controls are placed on the overhead console. A 10.1" color touchscreen accompanies these controls, providing an interactive and user-friendly interface.

Recognizing that operators have different levels of experience and preference, the Lynx 5000 comes with a set of pre-defined working modes. This allows even the most inexperienced user to start operating the machine almost immediately. For more demanding and advanced users, the control system enables easy setting, customization, and storage of all working parameters.



## ALWAYS CONNECTED

# Stay in touch with your LYNX

With Lynx 5000 we have made sure you are always connected. With integrated remote tracking and reporting system, staying in touch with your Lynx 5000 sweeper has never been easier.

Always on Lynx 5000 gives operators and fleet managers real-time access to the sweeper's status including position, operational status and alerts and notifications. Data provided plays a vital role in optimizing sweeper's performance, planning maintenance schedules, and resolving problems quickly.

Lynx 5000 status can be accessed via web portal or a dedicated mobile application. While a mobile application gives a quick overview of a single machine, a web portal makes it possible to deep dive into specifics of every Lynx sweeper in your fleet.

No matter where you are, you can always be in touch with your Lynx.



## AFTER YOU BUY LYNX 5000

# We make sure you get most out of your LYNX

Once you have invested in Lynx 5000, your journey with RASCO begins. We are committed to ensuring that your sweeper performs optimally and reliably over its entire lifespan. From warranty to maintenance and spare parts availability, we have considered every aspect of after-sales support.

Our limited warranty covers your Lynx 5000 and gives you peace of mind. It acts as a pledge of our confidence in the quality, durability, and reliability of our product.

Lynx 5000 has several features to make maintenance easier. Access to the hopper is straightforward, making it simple to remove debris and carry out routine checks. Central greasing system lubricates all essential parts quickly and efficiently.

Proactive maintenance is crucial in preventing operational disruptions. That's why we make sure that spare parts for the Lynx 5000 are always available. Our extensive network of suppliers and service providers ensures that you can source the parts you need quickly and conveniently.

Our commitment to you extends far beyond the point of purchase. We are committed to ensuring that your Lynx 5000 continues to deliver outstanding performance, year after year.

## Engine and drive system

### Engine

Model	FPT N45 EURO 6 E
Exhaust treatment	DOC+DPF+SCR+CUC
Gross rated power	118 kW @ 1940 rpm / 118 kW @ 2500 rpm
Maximum torque	580 Nm @ 1250 rpm
Fuel tank volume	100 L

### Battery

Battery type	Lithium ion
Battery capacity	160 kWh
Rated voltage	690 V DC
Maximum voltage	800 V DC
Operating time	Up to 8 hours

### Power system

Electric drive motor	nominal 200 kW, limited to 140 kW
LS pump electric motor	58 kW
Suction fan electric motor	58 kW

### Charger

Fast Charging (External charger, DC direct charging)	Up to 80 kW
Charging time	Up to 3h
Charger inlet	CCS 2

### H2 system

H2 tanks capacity	10.5 kg
Operating time	Up to 8 h

### Power system

Electric drive motor	nominal 200 kW, limited to 140 kW
LS pump electric motor	58 kW
Suction fan electric motor	58 kW

### Charger

Onboard charger	22 kW
Charging connector	Type 2

### Sweeping unit

Disc brush diameter	900 - 1000 mm
Sweeping width (2 brush system)	2540 mm
Sweeping width (3 brush system)	3530 mm

### Weights

Empty weight	6500 kg
Total permissible weight (GVM)	11500 kg

### Drive

Transport speed max.	50 km/h
Operating speed max.	20 km/h
Gradeability	up to 30%

### Hopper

Total volume	5 m <sup>3</sup>
Discharge height	900 mm standard / 1600 mm high dump

### Water system

Total water systems	700+ L
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RASCO reserves the right to change the characteristics and specifications of products listed in this brochure without notice. The content is for informational purposes only and cannot be used for other purposes.





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