



WELCOME TO THE WORLD OF GREEN MACHINES

WHERE INNOVATION BEATS IMITATION

Green Machines is among the oldest manufacturers of sweepers, dating back to 1965 and our first headquarters in Scotland. From the very first walk-behind sweepers with their exceptional maneuverability to state-of-the-art battery and hydrogen technology present in our sweepers, Green Machines has created a market which remains unrivaled to date. We currently operate from our offices in North Macedonia, the Netherlands, United Kingdom and USA, while we offer clients all around the world full support through our wide global dealership network. With our ambitious Green Machines vision, we plan to stay ahead of the game by bringing new product technologies to the highly demanding outdoor cleaning market. For many years now, we have aimed to contribute decisively towards cleaner and tidier towns and cities by providing efficient and sophisticated sweeping machines. Our portfolio comprises 8 machines models and each one is unique in its own way. We offer you a wide range of choices by providing cleaning solutions that others have yet to catch up to. All of our machines are compact and swift enough to enable you to clean any urban area around the city with maximum efficiency, without worrying that they will disrupt your citizens. Our machines are purposefully designed in a way that does not impact the normal everyday functioning even of the busiest areas in your city.



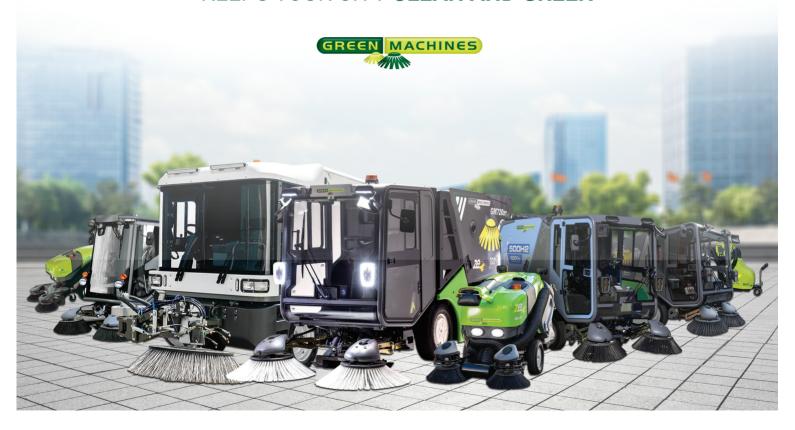


OUR MISSION: ZERO EMISSIONS

Green Machines realizes that the earth's environment is under severe stress from uncontrolled human activity, threatening the survival of our society and the performance of Green Machines' mission. We are dedicated to minimizing our own impact and maximizing the effective use of resources. Green Machines. strives to develop and produce sustainable sweeping machines combined with excellent performance for a better world. Our vision is often far from the traditional approach but we are proud to take leadership in paving the path to an emissionfree world. Our vision focuses on minimizing global impact through the following auidelines:

- · Help our customers reduce their carbon footprint through the use of our eco-friendly products.
- · Maximize the "End of Life Environmental Value" of our products.
- · Work with suppliers who promote sustainable practices.
- Participate in efforts to further improve sustainable protection and understanding among our staff and end-users across the alobe.
- · Listen to the voice of the customers.

KEEPS YOUR CITY CLEAN AND GREEN



PORTFOLIO

We have over 60 years of manufacturing experience and we are constantly improving our products based on direct customer feedback and the ongoing changes and trends on the market. Our current product portfolio comprises some of the world's most technologically advanced sweepers. and each of our machines is so unique that it is basically impossible to compare them to one another. Every machine is designed in a way that meets specific needs and we are confident that we have a machine that will meet your specific needs.



GM1ze

Fully electric, versatile. waste Vacuum Cleaner Small manoeuvrable and Compact, ideal for any City Centre.



GM400ze/GM414

One of our latest environmental sweeper innovations, the 400ze is based on the world beating 400-series Sweeper. Compact, manoeuvrable, Operator friendly and now also Electric.



GM500ze

The 500ze is the world's first fully electric sweeper, delivering long-lasting performance with advanced Li-ion batteries. Compact, swift, and eco-friendly, it features a superb ergonomic design and is one of the most popular zero-emission sweepers worldwide.



GM500H2

The world's first-ever hydrogen fuel cell sweeper. It runs 100% on hydrogen with zero emissions, while providing the same comfort and cleaning efficiency the 500ze offers. It comes in two types: with replaceable H2 pods or with a fixed hydrogen tank system.



GM636HS

Our dependable, hard working front line sweeper will remove debris from all surfaces and efficiently, it has a 1.5m3 capacity, designed for maximum performance and minimum waste volume. With its sophisticated design details and ability to considerably reduce water consumption, the 636 cuts labor and maintenance costs.



GM720ze

Engineered for efficiency and versatility. with a 2m3 hopper and 4-wheel steering for excellent maneuverability. Its advanced design maximizes debris collection - ideal for demanding tasks.



GM955

The 955 is a 6m³ mechanical sweeper supported by vacuum. The powerful sweeping mechanism is able to collect even the largest debris, the powerful Vacuum will remove the smallest dust particles with the 955 you have the best of two worlds.



The world's first hydrogen fuel cell sweeper, 100% powered by hydrogen. The fuel cell converts oxygen and hydrogen into electricity that powers the sweeper and the only by-product of its usage is clean water. The unique feature of this sweeper is that it enables you to switch to hydrogen even if you lack the hydrogen refueling infrastructure. It's got everything its predecessor 500ze has to offer, only with one big difference it runs on hydrogen! The best part? You can request an offer to swap the batteries in your 500ze with one of the two hydrogen options!

500H2 Technical Specifications

Dimensions and Weight	
Length	3,400 mm
Width	1,170 mm
Height	1,980 mm
500ze GVW	2,252 kg
500ze+ GVW	2,620 kg
Wheelbase	1,380 mm
Turning circle	
Curb to curb	5,500 mm
Wall to Wall	7,100 mm

Sweeping system	
Туре	Sweeper
Working width: minimum (brushes retracted)	1,380 mm
Maximum (brushes extended completely)	1,950 mm

Water system	
Tank Capacity	121 L (31 US Gal)
Max system Pressure	8 bar (118 psi)
Cloudmaker Flow Rate	15 L/hr (3.95 US Gal)

Pressure washer	
Electro/Hydraulic driven high pressure piston pump	
Water Flow	9 L/min (2.32 US Gal)
Max Water Pressure	90 bar (1323 psi)

Accessories and optional equipment



Air conditioning





Radio/CD



Central lubrication





Flexible - Wander hose

H2 Tanks	
H2 capacity fixed tank	2 x 0,55 kg = 1.1 kg
H2 capacity fixed tank	2 x 2 kg = 4 kg
Pressure cartridge	300 Bar
Pressure fixed tank	700 Bar
Endurance under normal working situation	
Cartridge	3 hours
Fixed tank	11 hours

Hydraulics	
Oil Specification	Bio-degradable OECD 70% HFDU68
Hydraulic Tank Operating Capacity	16 L (4.2 US Gal)
Capacity	
Brush Motor - max speed	105 rpm
Auxiliary System Max Pressures	210 bar

Power Source	
Power system	Fuel Cell
Fuel cell Type	PEM (Proton Exchange membrane)
Power	15 kW

Suction Fan Performance	
Suction Fan - max RPM	2800 rpm
Maximum Flow	3600 m ³ /h (1m ³ /sec)
Pressure	33 har

Hopper	
Capacity	1 m³
System Compaction Ratio	2:1
Clearance for tipping	1.4 m (55 in)



SWEEPER FEATURES



Environmentally Friendly

The GM 500H2 is our most environmentally friendly sweeper yet, using Hydrogen, the 500H2 is the ultimate in clean air sweeping!



Re-fuelling Options

The first option is a cartridge system with H2-PODS, this allows an exchangeable cylinder to be used, if there is not a Hydrogen filling station available. Second option using a fixed Hydrogen tank, this will allow the use of standard Hydrogen refueling stations.



Why Hydrogen

Hydrogen is the most abundant element on earth, Hydrogen is an alternative fuel that has very high energy content by weight, its clean and extremely environmentally friendly, the only by-product is clean water!



Commitment

The 500H2 gives even more options and flexibility to the customer, which will allow them to meet their environmental commitments locally and nationally.



One of the unique aspects of the GM 500H2 is that it runs on Hydrogen, an energy carrier that is regarded as one of the most environmentally friendly fuels on Earth often referred to as Eco-friendly, Hydrogen will play a role in the de-carbonisation of our planet when produced from renewable resources such as wind and solar.



The 500H2 comes with two re-fuelling options,

Option 1: Cartridge system with H2-PODS, this allows an exchangeable cylinder to be used, if there is no fixed Hydrogen tank refuelling available. Option 2: A fixed Hydrogen tank, this allows the sweeper to be refilled from a standard refuelling source.







With a range of options, the 500H2 can be configured to meet the customers individual requirements.

Increased safety thanks to all - round visibility

Two independent brushes



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