



### 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, Germany 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 7 machine 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 globe.
- Listen to the voice of the customers

# KEEPS YOUR CITY CLEAN AND GREEN



#### **PORTFOLIO**

We have over 55 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

Revolutionary fully electric refuse street vacuum cleaner that is small, saves energy and time thanks to the powerful storage battery. It is compact, silent and efficient



#### 200ze

100% electric twowheel tool carrier with a universal attachment adaptor in the front. It can be anything you want; from sweeper to leaf blower, snow plough, etc. The list is endless. Use it all year round, no matter the weather.



#### 400

Often referred to as the best small sweepers in the world by both our dealers and customers. the 400 series are perfectly suited for cleaning the most exacting outdoor areas and can withstand maximum strain in everyday operation.



#### 500ze

This marathon machine is the world's first-ever fully electric sweeper and offers lasting performance with the latest generation of Li-ion batteries. It is small. swift, and eco-friendly with superb ergonomic design. The 500ze is one of the most popular zero emission sweepers in the world.



## 500H2

The world's first-ever hvdrogen 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.



#### 636

Our fine dust hunter and gatherer is a really special sweeper with real 1.5 m<sup>3</sup> 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



#### 955

This is the biggest sweeper in our portfolio. The 955 is a 6 m<sup>3</sup> mechanical sweeper supported by vacuum that combines the best of both worlds. The mechanical part of the system ensures collection of any waste, as large as car tires, while the vacuum ensures collection of even the smallest dust particles.



The GM400ze is a full electric vacuum sweeper. Equipped with a revolutionary air-recirculation system that not only increases the suction performance but also the dust filtration capacity. That makes that the particle exhaust decreased three times, without sacrificing the 400's incredible suction power. The 400ze almost east everything cans, cigarette buts, leaves, dirt and glass bottles. The new 400ze comes standard with the grinding fan that mulches debris to one third of its original size. The RS version of the 400ze comes with the patented fold-and-stow seat switches from walk behind to ride-on in seconds.

# **400ze Technical Specifications**

## **Dimensions**

Length	
Model GM400ze S2D	99 inch   2,510 mm
Model GM400ze RS	118 inch   2,997 mm
Weight	
Model GM400ze S2D	460 kg
Model GM400ze RS	500 kg
Height	
Model GM400ze S2D	45 inch   1,143 mm
Model GM400ze RS	49 inch   1,243 mm
Width: All versions	45 inch   1,140 mm
Turning circle - between walls	53 inch   1,350 mm

## Sweening system

Sweeping system	
Туре	Air Sweeper
Cleaning path: Minimum	46 inch   1,170 mm
Sweeping Brush diameter	19 inch   470 mm
Volume capacity (max)	75 Gal   284 L
Disposable Bag Size	
(Standard Trash Bag)	30 - 55 Gal   110 - 200 L
Vacuum Impeller Diameter	16.5 inch   420 mm
Vacuum Impeller	6 Blade Abrasion Resistant Steel
Construction	with Hard Faced Edges
Vacuum Impeller	Stainless Steel
Housing	0.25 inch (6 mm) Replaceable Wear Plates
Vacuum Impeller Speed, up to	2 700rpm
Debris Reduction Pulverizing Impeller	
Vacuum Hose Diameter	7.9 inch   200 mm
Wander Hose: Length	7.2 ft   2.2 m
Diameter	3.9 inch   100 mm
Brush Reach (Beyond Front of Unit)	17.3 inch   440 mm

## **Dust control system**

Air recirculation system Du	st elimination with self-sustained air recirculation
Dust Filtration System	Two Stage Filtration
Stage 1:	Nylon Debris Screen Synthetic Dual Material
Stage 2:	Washable Filter Bag
Dust Suppression System Spray Nozzl	es Each Brush & at Vacuum Inlet
Side brush water spray dust control	18.5 Gal   70 L
Water Control	Variable by Operator

## **Electrical motor system**

Traction motor - power	3 kW
Fan motor - power	5.5 kW
Brush motor - power	2 x 0.2 kW
Li-Ion Battery - capacity	10 kWh
Travel speed	5.5 mph   8.8 km/h
Reverse speed	3 mph   4.8 km/h
Sweeping speed	5 mph   8 km/h
Drive Tires (2), pneumatic	6-ply
Tire Pressure	46 psi   3.2 bar
Rear Wheels - Construction	

## **Operator ergonomics**

Model GM400ze S2D

Model GM400ze RS

Quiet Operation
Digital control display
Ergonomic Control Handles
Easy to Use Wander Hose
Simple daily maintenance
Manual Brush Raise/Lowering
Large Oversized Zipper on Debris Bag
Weather Proof Storage Compartment
Fold and Stow Seat (RS Version)
Center Pivot Steering for Easy Manoeuvering

## **Accessories and optional equipment**







Solid Rubber

Pneumatic



### SWEEPER FEATURES



#### Touchscreen tablet

A unique touchscreen tablet that allows the user to control and command the machine faster and easier in comparison with the old conventional buttons and switches system.



# **Air-recirculation**

Revolutionary air-recirculation system that improves the suction and dustfiltration and decreases particle exhaust three times. Packed cutting-edge technologies, designed with the operator in mind.



# **Expandable chariot**

Expandable chariot system that allows more comfort and easier maneuverability and usability. The sweeper is perfect for narrow urban centers and alleys that are less accessible.



## **Debris grinder**

Ultra efficient debris grinder that mulches debris to one third of its original size, packing more debris in its easy accessible waste container than any walk-behind system on the market.



The newest 400ze RS model in the 400 series of sweepers is fully electric, noise free and zero emissions. It has an improved suction and dust filtration system that makes the machines twice as powerful compared to the current diesel 400 model. The improvments are all thanks to the revolutionary air-recirculation system that is one of a kind on the market. The diesel engine is replaced with 4 electrical motors. The Li-Ion Battery has 10kWh installed capacity that can last 8 hours, full work-shift autonomy. Because the sweeper is 100% electric the machine is extremely quiet and also maneuverable. Perfect for narrow streets and heavily populated areas which makes it pedestrian friendly.



The plastic cover grant swift access to the debris grinder and trash compacting storage compartment so maintenance and cleaning can be performed with ease and high efficiency, saving a lot of time and energy.









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