



# GM400



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## 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 guidelines:

- 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

GREEN MACHINES



## 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

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

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.



### 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 1.5 m3 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.



### GM955

The 955 is a 6 m3 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.



# GM400

The world's  
best small  
pedestrian  
sweeper

With over 55 Years of continuous product improvements, the 400 Series air sweepers are designed to clean even your most challenging outdoor environments and stand up to the rigors of daily use. From Town and City spaces to college campuses to city parks and zoos, this popular Pedestrian Sweeper is compact enough to clean almost any outdoor space. The 400 Series' Robust Construction coupled with its effective sweeping capabilities showcase your commitment to the environment.

# GM400 Technical Specifications

## Dimensions

Width: All versions	45 inch   1,140 mm
Length	
Model 414 S2D	99 inch   2,510 mm
Model 414 RS	118 inch   2,997 mm
Model 424 TR	140 inch   3,550 mm
Height	
Model 414 S2D	45 inch   1,143 mm
Model 414 RS	49 inch   1,243 mm
Model 424 TR	55 inch   1,397 mm
Weight	
Model 414 S2D	882 lb   400 kg
Model 414 RS	970 lb   440 kg
Model 424 TR	1,144 lb   520 kg
Turning Circle (between walls)	
Model 414 S2D / 414 RS	53 inch   1,350 mm
Model 424 TR	94 inch   2,400 mm

## Dust control system

Dust Filtration System	Two Stage Filtration
Stage 1:	Nylon Debris Screen
Stage 2:	Synthetic Dual Material Washable Filter Bag
Dust Suppression System	Spray Nozzles At Each Brush & at Vacuum Inlet
Water Tank Capacity	18.5 Gal - 70 L
Water Control	Variable by Operator

## Accessories and optional equipment



284 L canvas waste bag



Flexible suction hose



Snow Plow attachment



Hygienic waste removal tool



Customized Coloring

## Sweeping system

Type	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 Construction	6 Blade Abrasion Resistant Steel with Hard Faced Edges
Vacuum Impeller Housing	Stainless Steel 0.25 inch (6 mm) Replaceable Wear Plates
Vacuum Impeller Speed, up to	2 800rpm
Debris Reduction Pulverizing Impeller	
Suction Head Floating Aluminum with Replaceable Skids	
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

## Propelling system

Engine-standard Kubota Z482-E diesel	12 hp   9 kW
Fuel Capacity	2.5 Gal   9.5 L
Fuel Consumption per hour (estimate)	0.3 Gal   1 L
Travel speed	
Model 400 S2D & 400 RS	up to 5.5 mph   8.8 km/h
Model 424 TR	up to 10 mph   16 km/h
Reverse up to	3 mph   4.8 km/h
Sweeping speed	5 mph   8 km/h
Stopping Distance (25%/11° Grade)	24 inch   610 mm
Drive Tires (2) pneumatic	6-ply
Tire Pressure	46 psi   3.2 bar



## SWEEPER FEATURES



### Street Smart

Attractive and people-friendly, the 400 series sweeps sidewalks and other pedestrian spaces without disrupting patrons, students, citizens, or guests.



### User friendly

Available Walk-Behind or Ride on models, offers Productivity and Versatility, Coupled with "Easy to use" Controls. It also uses Standard waste sacks which allow the hygienic disposal of waste.



### Debris hungry

Broken glass, bottles, cans, leaves-- this efficient air-sweeper reduces litter to one third of its original size. Its easy-to-use wand hose effectively vacuums litter and debris virtually anywhere.



### Fast and flexible

The speedy 400 Series gets to the job at up to 10 mph (16 km/h) and sweeps where other city cleaning machines can't – under benches, around planters, and in other hard-to-reach areas.





## GM400

Clean with the confidence that comes from effortless maneuverability in tight spaces and around obstacles. Sweep smarter, covering more area in less time due to reduced dump cycles by compacting waste down to 33% of its original size. The optional Wanderhose allows cleaning in extremely tight spaces. Just ten litres of fuel/day gives 10 hours' sweeping time.

# GM400

GREEN MACHINES



Double-stage dust filtering: inside the refuse bag, a nylon dust filter routes particles and dirt into a conventional plastic refuse sack, whereas the respirable dust is collected and bonded in the washable filter bag.

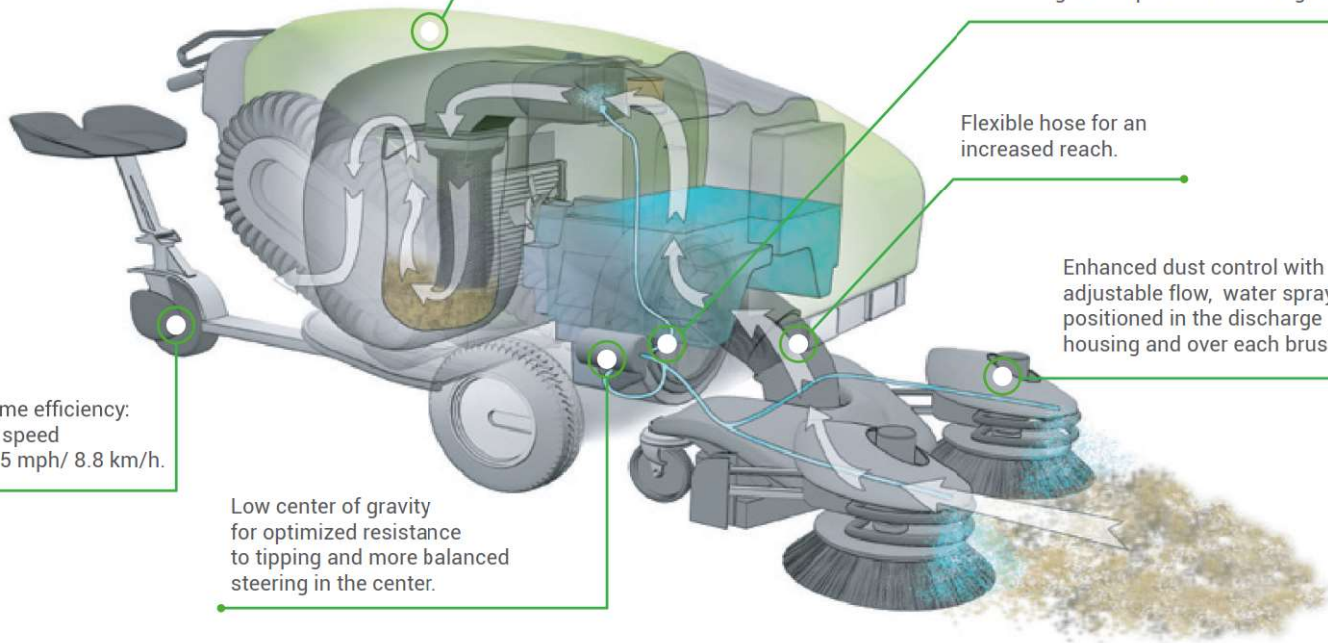
Refuse compaction for enhanced productivity. The impeller drags refuse inside and thanks to its chopping function reduces its volume to one-third of its size; broken glass to particles of salt-grain size.

Flexible hose for an increased reach.

Enhanced dust control with adjustable flow, water spray jets positioned in the discharge housing and over each brush.

More time efficiency:  
driving speed  
max. 5,5 mph/ 8.8 km/h.

Low center of gravity  
for optimized resistance  
to tipping and more balanced  
steering in the center.





2,996 mm



1,243 mm

1,139 mm



Walk behind or Ride On versions available

Straightforward operation and operator control.

Safe Design, with Hydrostatic Drive and Braking, if the operator releases the Drive Lever, the sweeper will come to a stop, increased Pedestrian safety.



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