

Welcome to the dimension of cleaning 4.0!













Quality you can see for yourself: a design that's a pleasure to look at, which accentuates every single detail

The precisely defined forms of the front give the machine a decisive character exuding an impression of unrivalled robustness.

Taking pride of place at the lower part of the front is an elegant, elongated front fascia between 2 LED headlights creating a boldly expressive look.

The clean, flowing lines continue to the rear of the machine, lending a sense of dynamism to the whole and underscoring the exclusiveness and attention to detail of the design.

The design is complemented to perfection by materials selected and used according to the most exacting standards, making a bold visual statement that expresses the essence and extraordinary quality of this machine.





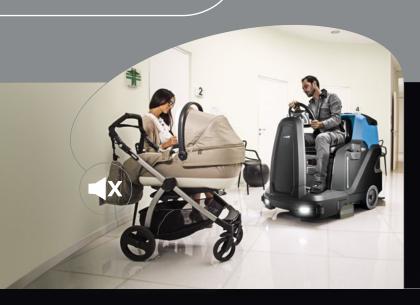
DESIGN



The rounded design of the body protects the machine and keeps the value of your investment over time

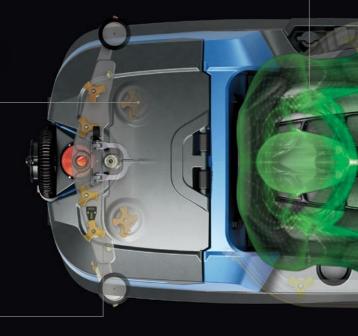






COMFORT

Padded in soft material, the seat boasts ergonomic forms offering effective back support and also features forwards and backwards adjustment. This equates to a stress-free experience for the operator, who can work for hours on end without any effort



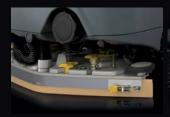




Boasting FNC and Eco Mode technology, the MMg can also work extremely quietly when needed, to safeguard the health of the operator and of any people nearby

YELLOW COLOUR-CODED PARTS

Parts which must be cleaned regularly at the end of every shift are colour coded in yellow for easy identification, saving time and making sure that your scrubbing machine is kept in perfect condition at all times



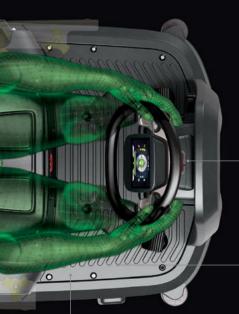


SERVICE LIGHTS



The exclusive lights pack offers increased visibility of the parts which could require operator inspection, illuminating the relative zones with LED lights

Ergonomic forms optimized for total freedom of movement and maximized operator comfort



The lateral paddles offer the operator even greater control over the machine, for total peace of mind and a comfortable, safe driving experience

The design of the front maximizes the room for the legs and brings the steering wheel closer to the operator, making the machine even more comfortable to use

The footrest zone is designed to offer impressive space for the feet despite the compact dimensions of the machine

The lowered footboard facilitates access from both sides and allows the operator sit easily without any efforts





POWER MODE



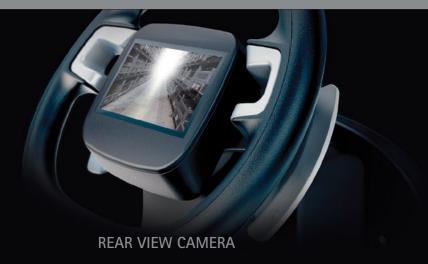
When more scrubbing power is needed, activating Power Mode increases the delivery rate of detergent solution and boosts brush pressure and vacuum power for the time necessary to tackle heavy duty cleaning

ZONE PROGRAMS



To ensure the desired cleaning results in all conditions and prevent the risk of tampering, the site supervisor can save a number of separate configurations with specific cleaning parameters for different work environments. The operator simply has to select the zone to be cleaned, and the machine is configured automatically with all the right settings

PERFORMANCE AND PRODUCTIVITY



Lets the operator monitor cleaning results in real time from the display, without taking his or her eyes off the direction of travel

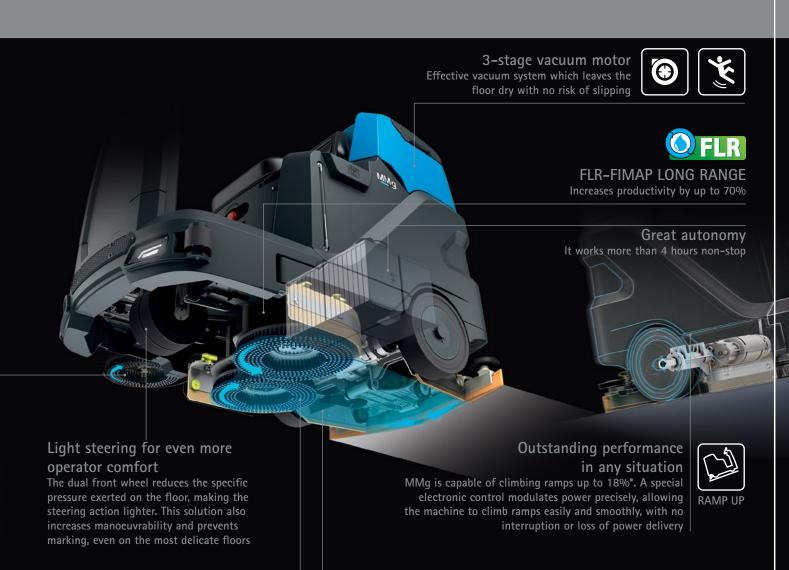


A LATERAL BRUSH FOR EVEN MORE GREATER PRODUCTIVITY

The third brush moves laterally to facilitate cleaning along walls or shelves, increasing productivity by up to 15%



The strengths of the MMg behind its extraordinary performance



Up to 100 Kg of pressure

With a brush pressure settable to up to 100 Kg, the machine can tackle even the most stubborn dirt

Save time by working faster

Up to 6 Km/h in work mode and 8 Km/h in transfer mode

* Trailer ramp empty



DISINFECTOR

Sweeps, scrubs, dries and sanitizes in one step

In order to obtain a healthy environment, cleaning must be combined with a sanitizing process.

Once the dirt, both light as dust and solid residues, and adherent, has been removed, the surfaces must undergo a treatment that reduces the presence of pathogens with the use of specific solutions.

Today, most sanitization activities are carried out manually, even in large environments, at very high costs.

Mechanizing this operation is crucial to perform it with method and regularity.

Combing sanitization with cleaning and carrying out the two actions at the same time provides extraordinary advantages in terms of time and cost.

Cleaning and sanitizing at the same time is now possible with a Disinfector scrubbing machine.

MMg scrubber dryer in Disinfector version enables the cleaning of floors and, at the same time, the sanitization of both floors and the surrounding vertical surfaces, in a single step.



This means a considerable reduction in costs, time and labour, which becomes even more significant in large spaces, where the cylindrical version of MMg Disinfector can be used, so as to achieve even 4 actions in one step:

1. SWEEPING

2. SCRUBBING

3. DRYING

4. SANITIZING

THE ELECTROSTATIC TECHNOLOGY



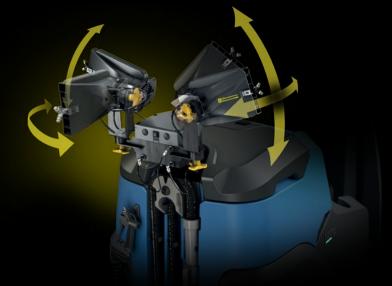
THE SOLUTION IS SPRAYED UP TO 3 METERS

While MMg carries out its usual cleaning activity, the sanitizing liquid is sprayed by groups of nozzles positioned above the tank, and then transported up to 3 metres away in distance and height from the force of two turbines, and by another group of nozzles positioned at the rear base of the machine, intended only for the floor.









DIRECTIONAL NOZZLES

The spray can be directed according to the needs of the site, by rotating the turbines 180° from top to bottom and 180° from right to left.



SEPARATE NOZZLE OPERATION: ON THE RIGHT OR LEFT SIDE

You can choose to activate the spray only on one side or the other, according to the requirements of the specific environment you are sanitizing.

SEPARATE NOZZLE OPERATION: UPPER AND LOWER

The upper and lower nozzles are also independent, allowing you to adapt the activity according to the structure of the environment and avoid wasting solution.

TECHNICAL DATA		MMg Disinfector
Sanitizing solution tank	1	10
Lower nozzles	(no.)	(2)
Upper nozzles	(no.)	(4)
Lower nozzles flow rate	I/min	0,245
Upper nozzles flow rate	I/min	0,465
Total flow rate	l/min	0,711
Operating time with lower nozzles	min	40
Operating time with upper nozzles	min	21
Total operating time	min	14
		1690
Machine dimensions (I x h x w) (min-max)	mm	1485
		881
Drop size	μm	100





ACTIVE TECHNOLOGIES to prevent accidents



The anti-collision system detects obstacles when reversing, helping the operator work in complete safety and protecting the machine

ANTI-COLLISION SYSTEM



Facilitates manoeuvres in reverse by detecting obstacles

REAR VIEW CAMERA

Enhances visibility in dim light

Safety is paramount

The MMg is equipped with a host of safety systems and features to keep the operator in complete control at all times and work with total peace of mind

FRONT HEADLIGHTS

TOUCH SCREE DISPLAY



STEERING WHEEL CONTROLS The steering wheel controls offer the operator even greater control when cleaning, and also improve safety by eliminating distractions and letting the operator keep his or her eyes on the zone ahead of the machine



Front and rear LED headlights maximize work safety in all conditions

LED HEADLIGHTS

REAR HEADLIGHTS

Position lights / Brake lights

Reverse lights

Position lights

Driving lights

On the road to accident-free cleaning



Maintains a constant speed when driving downhill, and prevents sudden increases in speed caused by gravity

DESCENT CONTROL

STOPSE

The traction control system, which brakes and holds the machine when the accelerator pedal is released, provides assistance for both uphill and downhill gradients



Control device letting the operator set the required speed

CRUISE CONTROL



Any questions? MMg has all the answers, with tutorials to help the operator in every aspect of the job

VIDEO TUTORIALS



Automatically reduces speed when steering without the operator using the brake

ESC - ELECTRONIC STABILITY CONTROL

PASSIVE SYSTEMS to help the operator in case of emergency



By pressing a single button the machine stops immediately

EMERGENCY STOP



SOS DEVICE Reduces time to service in case of emergency.
The red button sends an sms alert to receive a prompt help, reducing downtimes



TECHNOLOGY





DISPLAY



LOG-IN WITH PASSWORD





CRUISE CONTROL







REAR VIEW CAMERA



SYSTEM



Driving system with touchscreen display which transforms cleaning into a revolutionary experience



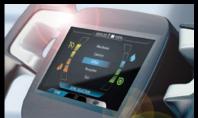
The operator is the centre of a high-tech universe, where everything is easy, intuitive and dynamic

All functions and activities are managed from a single interface, where a mere touch of the finger offers access to an extraordinary choice of customisable features to satisfy all types of requirements with extreme simplicity.

The high definition colour display offers the same intuitive experience as a smartphone



LOG-IN WITH PASSWORD To protect your investment



ZONE PROGRAMS
For all the performance you'll ever need



ECO MODE

To protect the environment



POWER MODE For maximum power when you need it



REAR VIEW CAMERA
To keep everything under control



VIDEO TUTORIALS

For a more efficient, fast and easy
operator training



Discover the FFM universe and experience the advantages of being constantly connected, with My.Machine app!







vvaccii tiic viacc

My.Machine app updates you in real time providing all the essential information to help you keep high the fleet performance. You can see from your smartphone or tablet where your machines are, if they're carrying out the cleaning task or if any anomaly occurred. You can see the list of the services performed, the charger logs and anomalies occurred, in order to have a complete overview of the health status of each machine.

Keep tabs on your machines remotely when you want and from wherever you want!



GFOI OCATION

It shows on a map the machine.



USE INFORMATION

It's possible to know in what working mode the machine is operating and for how long.

Moreover, it provides information about the duration of each intervention and the sq.m cleaned.



HEALTH STATUS

Anytime is possible to monitor the health condition of both machines and batteries to have a clear view of the fleet availability and optimize its coordination.



ENVIRONMENTAL IMPACT

All the data related to the CO₂ produced per intervention are available as well as the water and detergent consumption, in order to take action and improve the performance.



AI ARMS

The anomalies occurred are summarized in a list which includes a description of the type of issue, and the date and time of the event. It helps you to have an overview of the improper uses that need to be corrected.



BATTERY RECHARGE

It sums up all the complete and opportune recharges performed, the residual charge and the charge settings. This is an essential set of information to extend the battery lifespan and reduce the related costs.



SERVICES

An overview of the list of the maintenance services performed allows to identify discrepancies with the health condition of the machine in case an anomaly is detected, and to monitor the inspections of the whole fleet.



Fimap sustainable technologies contribute to protecting the environment and also encourage and help the user to use resources responsibly, offering many advantages.

Advanced technological solutions offer a reduction in cost per sq.m. cleaned, more working autonomy, time savings and better cleaning results, letting you cover more surface area with the same resources.



The Eco Mode function helps prevent water, detergent and energy consumption by using only the quantities you need and nothing more



STARTESTO

When the machine is idle, the brush motor, the vacuum motor*, the traction and the water flow will turn off automatically, reducing costs and emissions. All the functions are reactivated automatically as soon as the operator touches the accelerator again

* In basic versions suction turns off when the squeegee is lifted up







WATER



FLR-FIMAP LONG RANGE

Reduces water and detergent consumption per cleaning operation by up to 66%*. This is a system which recycles detergent solution to increase autonomy: to scrub more sq.m. while using less resources



FSS-FIMAP SOLUTION SAVER

Water and detergent quantities are separately dosed, reducing consumption by up to 50%



FWF-FIMAP WATER FLOW

Ensures uniform cleaning results across the entire working width on the first pass, optimising detergent solution consumption



Reduced consumption of sanitizing solution, thanks to a more efficient distribution given by the electrostatic technology

NOISE LEVELS



FNC-FIMAP NOISE CANCELLING
Reduces sound pressure

*Saving calculated on a triple recycling cycle

ENERGY



FES-FIMAP ENERGY SAVER

Reduces energy consumption by up to 35%

LED TECHNOLOGY

Up to 80% lower energy consumption than conventional headlights.

The LED headlights consume much less energy than conventional headlights, offer a longer lifespan and illuminate with a brilliant white light similar to natural daylight



VERSATILITY

An extensive choice of configurations to give you the best performance possible in all conditions, on any floor, with any type of dirt and in any environment



A solution for any requirement





AVAILABLE IN 2 VERSIONS



OPTIONALS





Recycled plastic tanks

AQUÆ

AOUÆ® + DS (Detergent dosing system)

AQUÆ® + DS + Spray gun

AQUÆ® + Spray gun

OPTIONALS AND ACCESSORIES

OPTIONALS



Front and rear LED headlights



On-board battery charger for quicker, more convenient charging



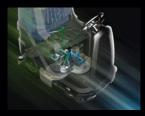
The third lateral brush increases cleaning performance along walls (available for MMq disc versions)



2 side sweeping brushes increase cleaning performance along walls (available for Cylindrical versions)



Rear/front super elastic wheels, for minimal vibration and increased comfort



FLR-FIMAP LONG RANGE



FFM-FIMAP FLEET MANAGEMENT FSS - FIMAP SOLUTION SAVER



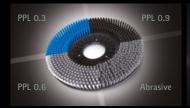


The Disinfector includes two groups of nozzles located above the tank for sanitizing vertical surfaces and a group at the base of the machine intended for the floor



Sanitizing sprayer to sanitize the machine at the end of the shift (only available with the Disinfector)

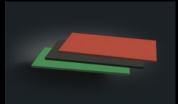
ACCESSORIES





A wide choice of disc or cylindrical brushes in PPL is offered, available in thicknesses from 0.3 to 0.9 cm. These offer the perfect solution for dealing with any type of dirt on any floor

Abrasive brushes: Ideal for heavy duty cleaning on industrial surfaces



Pads

BLACK

Superior abrasiveness for rapid and thorough heavy duty cleaning

Ideal for removing dirt from more delicate floors (rubber or linoleum)

Ideal for scrubbing delicate or treated floors, and achieving an instant shine



Rear squeegee rubber blades

33 SHORE (PARA)

For maintenance cleaning of smooth floors

40 SHORE (PARA)

For stubborn dirt on floors with joints

POLYURETHANE

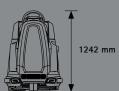
For heavy duty cleaning on industrial floors, even with wide gaps

OPTIONAL AND STANDARD EQUIPMENT

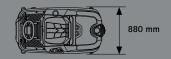
	. DISC	CYLINI	DRICAL	ORBITAL	
USER EXPERIENCE	MMg	MMg	MMg Cylindrical	MMg Cylindrical	MMg Orbital
OSEN EXFENIENCE	iviivig	Plus		Plus	IVIIVIG OTOTIAI
iD-Intelligent Drive:	_	•			
- 5 inch high resolution color touch screen	-	•	-	•	-
- Log-in with password	-	•	-	•	-
- Zone programs	-	•	-	•	-
- Cruise control	-	•	-	•	-
- Eco Mode	-	•	-	•	-
- Power Mode	-	•	-	•	-
- Rear view camera	-	•	-	•	-
- Anti-collision system	-	•	-	•	-
- Video tutorials	-	•	-	•	-
COMFORT					
Hour meter	•	•	•	•	•
Cleaning solution level indicator	•	•	•	•	•
Fresh water empty tank light	_	•	-	•	-
Battery charger	0	0	0	0	0
Brush and squeegee actuator	-	•	-	•	-
Brush and squeegee manual lifting	•	-	•	-	•
Sanitizing sprayer for Disinfector	0	0	0	0	0
PRODUCTIVITY					
Water flow selector	•	•	•	•	•
Triple pressure selector	-	•	-	•	-
Extra pressure	•	-	•	-	•
Vacuum speed selector	-	•	-	•	-
Right-hand side scrubbing brush	0	0	-	-	-
2 sweeping side brushes 3 stage vacuum motor	-	•	0	•	-
FFM (Fimap Fleet Management) with SOS device	0	0	0	0	0
Squeegee and squeegee support in aluminum	•	•	•	•	•
Side splash guards	•	•	_	-	_
Disinfector	0	0	0	0	0
SAFETY					
Blinking light	•	•	•	•	•
Driving LED headlights (front-rear)	0	-	0	-	0
Driving (front-rear) and service LED lights	-	•	-	•	-
Super elastic wheels (front-rear)	0	0	•	•	0
Ramp up	•	•	•	•	•
Stop&Go	•	•	•	•	•
Descent control	•	•	•	•	•
Emergency Stop	•	•	•	•	•
Emergency Stop					
ENVIRONMENT					
AQUÆ®	-	0	-	-	-
AQUÆ® + DS (DETERGENT DOSING SYSTEM)	-	0	-	-	-
AQUÆ® + SPRAY GUN	-	0	-	-	-
AQUÆ® + DS + SPRAY GUN	-	0	-	-	-
Recycled plastic tanks	0	0	0	0	0
FSS (Fimap Solution Saver)	-	0	-	-	-
FLR (Fimap Long Range)	0	-	0	-	0
FNC (Fimap Noise Canceling)	•	-	•	-	•
FES (Fimap Energy Saver)	•	•	•	•	•
FWF (Fimap Water Flow)	•	•	•	-	-
Start&Stop	•	•	•	•	•

STANDARD	o UPON REQUEST	- NOT AVAILABLE

DIMENSIONS AND TECHNICAL DATA







		DUAL DISC		CYLINDRICAL		ORBITAL
TECHNICAL DATA – MMg		MMg	MMg Plus	MMg Cylindrical	MMg Cylindrical Plus	MMg Orbital
Productivity theoretical	up to sqm/h	45	 530	38	370	4260
Estimated coverage	up to sqm/h	2643		2258		2485
SCRUBBING SYSTEM			l			
Working width	mm	7	55	645		710
Working width with side brushes	(n.) mm	(1) 850		(2) 940		-
Brush motors	(n.) V/W	(2) 24/500		(2) 24/450		(1) 24/680
Brush rpm (central / side)	rpm	140/150		550/65		-
Oscillations	rpm	-		-		2000
Brush pressure (min - max)	kg	36÷110		30	30÷40	
TANK AND RECOVERY SYSTEM		_				_
Solution tank	I			110		
Recovery tank	I			110		
Suction motor	V/W	24/410	24/680 (3 Stadi)	24/410	24/680 (3 Stadi)	24/410
Vacuum water lift	mbar	118	147	118	147	118
Detergent tank capacity (FSS)	1	-	10		-	-
Maximum volume of the debris hopper	I	-	-	- 8		-
BATTERY SYSTEM						
Supply/traction	V			24/aut.		
Batteries	(no.) V/Ah C5			(4) 6/180 GEL (4) 6/210 WET		
Battery run time*	up to h	4,3	3,9	4,3	4	3,9
PROPELLING SYSTEM						
Forward working speed	km/h			6		
Transport speed	km/h			8		
Gradeability (Working / Transport at gross weight / Trailer ramp empty)	%			7 / 10 / 18		
Traction motor	V/W			24/520		
SPECIFICATIONS						
Machine dimensions (L x h x w)	mm			1602 1242 881		
Squeegee width	mm			880		
Machine weight empty without batteries	kg	267	277	265	275	253
Machine weight empty with batteries	kg	396	406	394	404	382
GVW (Gross Vehicle Weight)	kg	609	615	601	607	585
Sound level (ISO 11201)	dB (A)	63,3	72,2	63,3	72,2	63,3
Sound level (ISO 11201) - Eco Mode	dB (A)	-	67,5	-	67,5	-
Minimum aisle turn	mm			2077		

^{*}Run times are based on continuous scrubbing run times

CONSULTING AND PLANNING



SETUP



AUTHORIZED WORKSHOP NETWORK



CONFIGURATION



TRAINING COURSES



MAINTENANCE AND REPAIR



FINANCIAL SOLUTIONS



DIGITAL FLEET MANAGEMENT SYSTEM



GENUINE SPARE PARTS



CERTIFICATIONS









ISO 14064-1:2018







AWARDS

For any additional information or for a demo please contact your usual Fimap dealer







