GMG *Combinata*

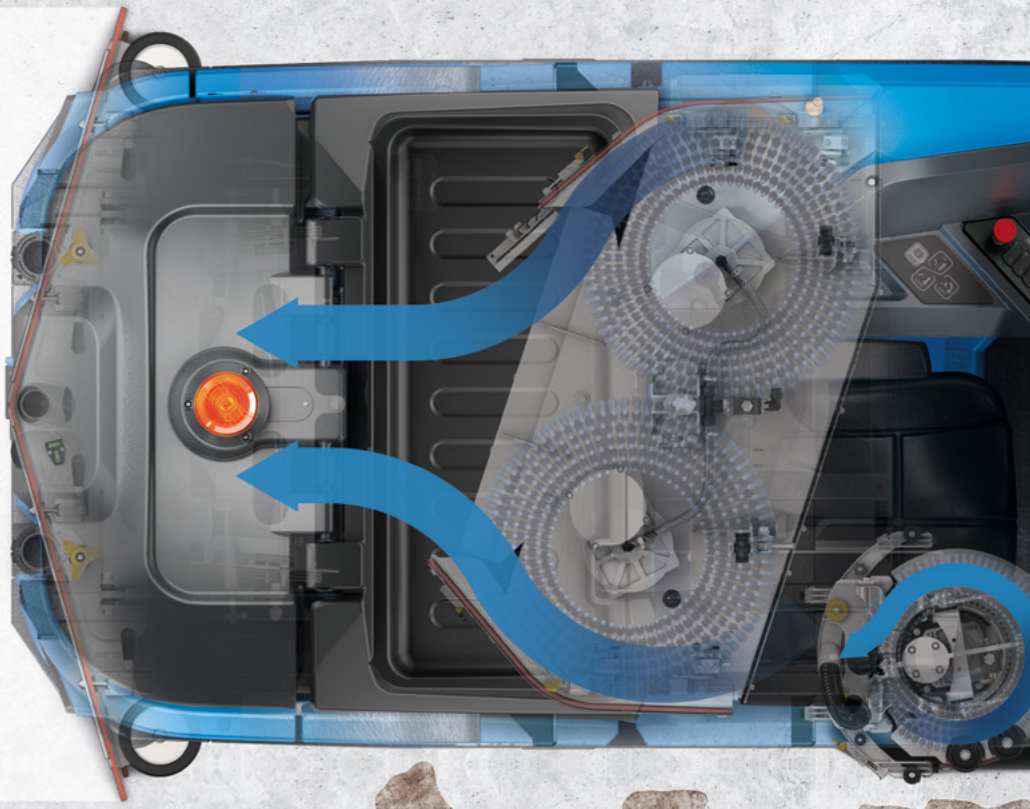


When the most powerful scrubbing machine is also the most efficient sweeping machine

FIMAP®

GMG Combinata

The strength of a real sweeping machine combined with the power of a large scrubbing machine

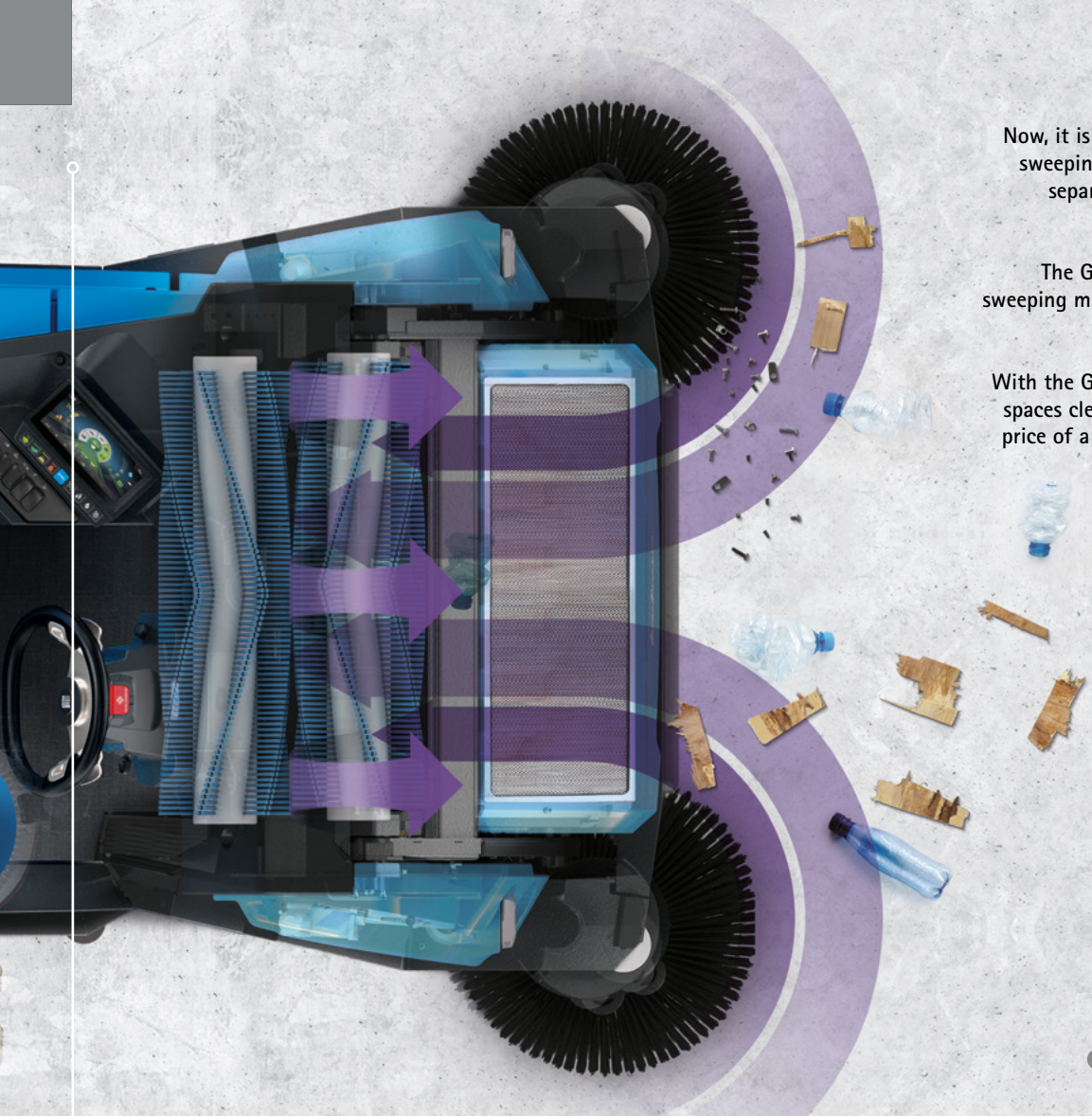


2

SCRUBBING MACHINE

For the scrubbing and immediate drying of floors

With a single machine, you can do the work of two, halving the time and costs of each cleaning operation, labour and management



Now, it is no longer necessary to waste time sweeping before scrubbing, or to have two separate machines to carry out the two actions separately.

The GMG Combinata does the work of a sweeping machine and a scrubbing machine in just one pass.

With the GMG Combinata, you can keep your spaces clean and ensure productivity for the price of a single machine, a single operation, and a single operator.

SWEEPING MACHINE

1

For sweeping and collecting solid waste

GMG Combinata

Reduce cleaning costs and get the greatest return on your investment in the short term



POWER

- Increase productivity, by cleaning with greater power and 30% faster than a conventional model of the same category
- Double productivity, by carrying out the work of a sweeping machine and a scrubbing machine in just one pass
- Increase productivity, by cleaning ramps with slopes up to 20% at full load
- Increase productivity, with the possibility to install batteries of different technologies, from lead acid batteries to advanced lithium-ion ones, which provide up to 7 hours of run time on a single charge
- Increase operator productivity, with enhanced control over tasks provided by the touch screen display and the rear view camera
- Increase operator productivity, providing up to 9 pre-set cleaning programs according to different applications
- Halve costs: by purchasing just one machine that can carry out two types of cleaning in a single operation, you can halve your investment and labour costs

SPEED

up to **9** km/h

at work

PRODUCTIVITY

+30%

GRADEABILITY

slopes up to **20%**
on duty at full load

RUN TIME

up to **7** hours

Li-ion TECHNOLOGY



SIMPLICITY

- Reduce operator training, with on-board video tutorials which show how to perform common operation and maintenance activities
- Increase uptime, with easy and intuitive access to key features through the iD – Intelligent Drive system
- Halve operation time: now, you can collect solid waste and scrub the floor in a single operation
- Enhance control over cleaning results, with pre-set work programs and supervisor controls that ensure proper machine setting and use by the operator
- Reduce service time and cost, with fully accessible design that enables easy and quick servicing
- Reduce emissions by constantly monitoring the CO_2 produced*
- Reduce water use up to 66% with FLR - Fimap Long Range technology, that allows you to clean more sq.m with the same amount of resources**

DURABILITY

- Protect the machine and the facility in which it works, with steel wrap-around bumper and roller bumpers at the 4 corners

SAFETY

- Increase operator and facility safety, thanks to the array of active and passive safety technologies provided as standard

CONNECTIVITY

- Increase productivity by tracking performance with Fimap FFM app

CUSTOMIZATION

- Increase productivity, with the GMG Combinata tailored to your specific needs

* ISO 14067:2018 CFP SYSTEMATIC APPROACH

** Saving calculated on a triple recycling cycle - Compared with use without the FLR device

GMG *combinata*





Why choose an electric machine?

Unlike many models in its class, the GMG Combinata is not powered by an endothermic engine, but rather by batteries. This is a much more efficient solution, due to the fact that there is no energy loss. Combustion engines, which generate heat through the combustion of fuel, inevitably lose much of the energy produced. The energy which remains – the kinetic energy, which makes the machine run and the engine components move – is much less.

In an electric motor, meanwhile, which does not need to warm up to reach maximum revs, the energy generated can all be used immediately, without any dispersion.
The use of an electrical power supply offers unique benefits such as:

- no fuel costs
- zero exhaust emissions
- silent operation
- vibrations reduced to a minimum
- greater safety for the operator
- the versatility of being able to use the machine indoors

The GMG Combinata is also available with lithium batteries, which ensure excellent power deliver and long operating autonomy, for up to 7 hours of continuous work.

GMG Combinata

A machine designed to exceed expectations in the most demanding industries



INDUSTRY

LARGE-SCALE RETAIL

PARKING LOTS

TRANSPORTATION

EXHIBITION CENTERS

In warehouses, logistics centers and production areas, the formation of dust, processing residues and fragments of packaging and pallets is inevitable. It is essential to remove these in order to ensure a healthy and safe working environment, and to enable the productivity of the plant to be maintained.

Normally, any dust and solid dirt must first be removed with a sweeping machine, before scrubbing and drying with a scrubbing machine.

Now, you no longer need two separate machines and two separate cleaning operations in order to achieve the same result: simply use the GMG Combinata. It carries out the same work as a sweeping machine and a scrubbing machine, but as part of a single operation, thus halving cleaning times and costs.
It also enables staff to go about their normal working activities in complete safety, without any delays or interruptions.

The technology of the GMG Combinata enables optimum ease of use, which is similar to that experienced when interacting with any of today's digital devices.
This ensures that it is easy to use, even in the instance of frequent changes in staff.



LOGISTICS

GMG Combinata

Accurate details highlight the robustness of its design

It stands out for the strength of its design that enhances the sense of protection

PROTECTION

- FOR ENVIRONMENTS
  It blends in perfectly, has no protruding parts
- FOR THE USER
  It has a comfortable and safe operator position which enhances visibility and control
- FOR THE MACHINE ITSELF
  Long-lasting, rotationally-moulded plastic tanks and a wrap-around steel bumper keep the mechanical components safe.

The front and rear sensors prevent collisions, by alerting the operator when approaching an obstacle



BRUSHLESS MOTORS

Motors without brushes bring several advantages:

- MORE POWER,
  which is entirely used avoiding the dispersion that is normally caused by the friction of the brushes
- GREATER DURABILITY OVER TIME,
  as they do not generate heat, there is no need for ventilation which can cause damaging seepages
- COMPACT DESIGN,
  they leave more space to the volume of the tanks, thus increasing the working autonomy
- GREATER CONTROL,
  which being electronic, and not electromechanical, automatically adjusts to the required performance, improving efficiency
- NO MAINTENANCE
  and extremely longer life cycle

ENDURANCE OVER TIME

x4 times

brushless motors

conventional motors



GMG Combinata

A comfortable space enables the operator to better focus on the cleaning task

Every single detail of the driving position is designed to provide the perfect working conditions:
a roomy seat, easy access to the controls, full control of activities, smooth manoeuvres and total visibility of the surrounding space



ECO mode

The Eco Mode device reduces the noise level up to 25% to clean without disturbing the other people around*



* Compared with use without Eco mode device

A convenient step helps to sit in the driver's seat

Side paddles integrated into the steering wheel help the operator keep his attention and eyes on the driving direction



Comfort driver's seat

The seat, with armrests and headrest, is sprung and adjustable, to suit the operator's needs, thus improving driving comfort

The digital touch screen display creates a modern, high-tech environment where valuable information is shown in high resolution

The side control panel provides easy access to the functions, allowing the operator to adjust the settings without getting distracted

Membrane control panel for manoeuvring the solid debris hopper

Integrated USB ports for charging mobile devices

GMG Combinata

Learning how to take care of the GMG Combinata is easy, because the machine itself guides you





OPERATOR TRAINING VIDEO TUTORIALS

They provide essential instructions to perform routine activities and to support the operator when a quick reminder is needed on proper operation and maintenance procedures

MAINTENANCE DUE WARNING

When the deadline for the periodic inspection established in the maintenance plan is approaching, a warning appears on the display, giving you plenty of time to arrange your appointment.



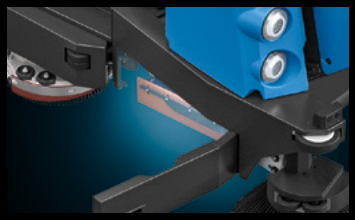
USE AND MAINTENANCE MANUAL AND SPARE PARTS CATALOGUE

It is possible to read directly from the display the Spare Parts Catalogue and the Use and Maintenance Manual, available in 24 languages. Any doubts concerning the machine can be resolved immediately, thanks to the easy-to-read touch screen display

SIMPLE ROUTINE MAINTENANCE

SERVICE LIGHTS

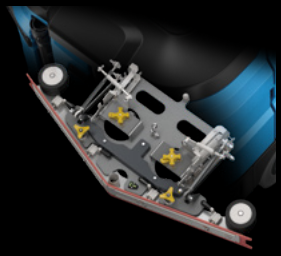
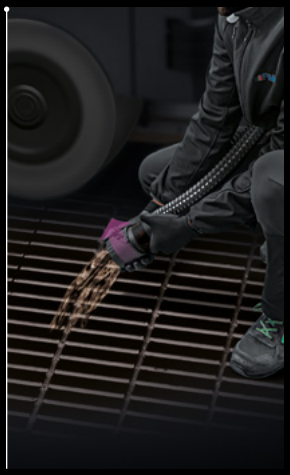


The exclusive lights pack offers increased visibility of the parts which could require operator inspection, illuminating the relative zones with LED lights




MAINTENANCE TOUCH POINT

FFF–FIMAP FAST FILL

It enables the solution tank to be filled up quickly without the presence of the operator

SPRAY GUN

The spray gun enables the cleaning of the recovery tank anywhere, even when there is no available tap nearby, reducing maintenance downtime

REAR FOOTBOARD

A convenient pull-down footboard at the rear of the machine provides easy access to the tanks and a better view for maintenance activities

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 machine remains in perfect condition at all times

LARGE DIAMETER HOSES

The large diameter of the drain hoses allows the tanks to be emptied quickly, reducing downtime.
The hoses feature a flow adjustment system that enables to choose up to 5 opening sizes in order to adapt the diameter to the flow when emptying the tanks

GMG Combinata

Maximum accessibility to the solution tank for complete cleaning and sanitisation

REPLACEMENT OF THE RUBBER BLADES

All parts where rubber blades are installed are designed to enable quick, easy replacement.

The squeegee can be removed and installed very rapidly

The coupling/uncoupling function for the disc brushes is automatic, and is operated via the controls on the instrument panel. It prevents the user from having to carry out this operation manually, increasing safety.

Access to the cylindrical brushes is quick and easy, as is removal



EVEN EASIER EXTRAORDINARY MAINTENANCE

The battery compartment opens fully, enabling easy inspection and topping up of the liquid

The functional design of the machine enables full access to the parts that require maintenance, thus reducing operation times and costs.



Once the cover has been lifted, the filter is fully exposed, and can be removed in a few seconds without tools



The sweeping side brushes can be uncoupled easily without tools

MAINTENANCE TOUCH POINT

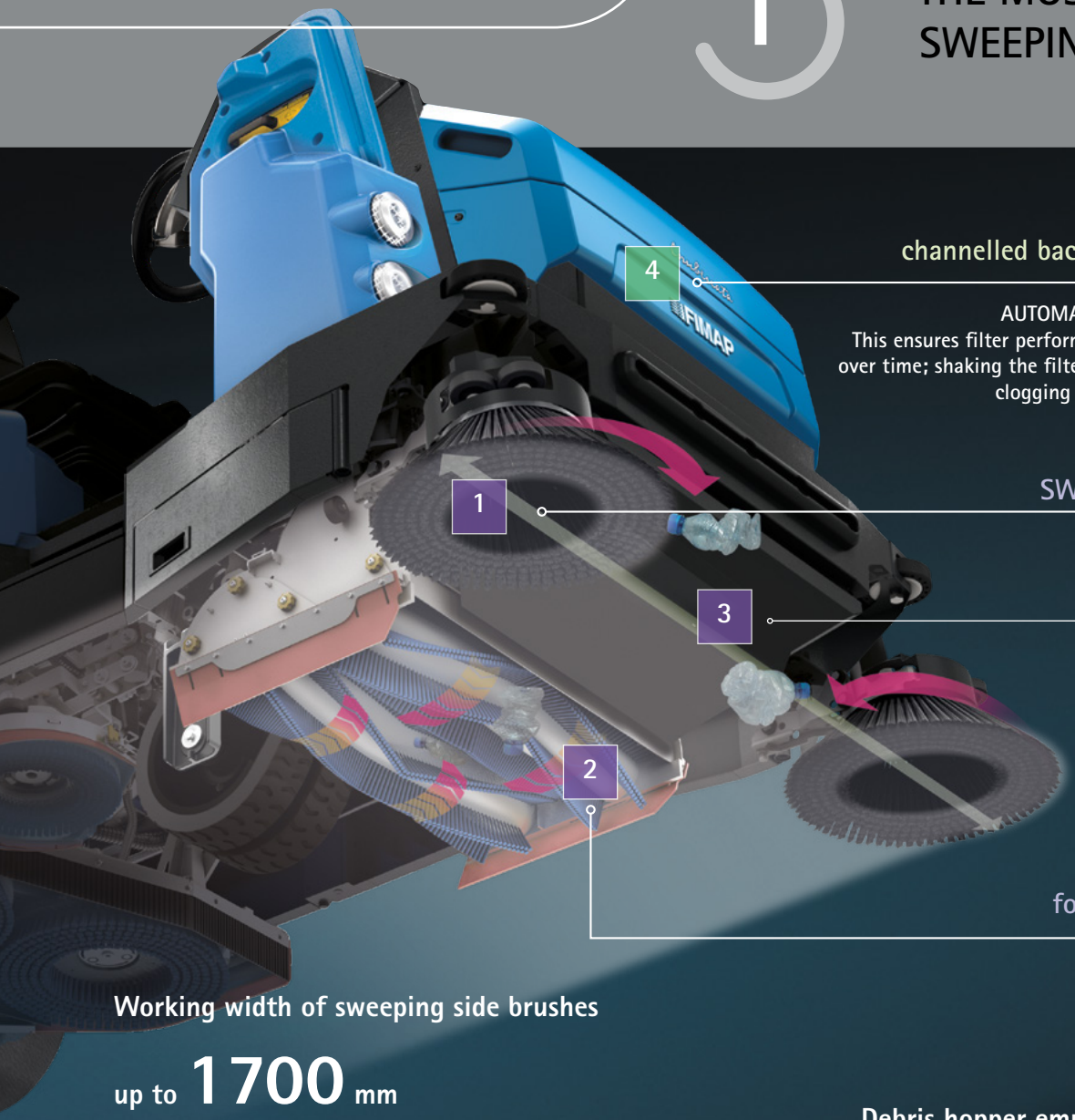
Handle for locking the hopper in place when it is lifted. This increases the safety of the operator while he/she is working on the machine.

Lower maintenance costs

Compared to conventional combustion-powered machines, electric machines do not require an oil tank or a transmission system. Consequently, maintenance is easier and costs are significantly lower.

GMG *Combinata*

1 THE MOST EFFECTIVE SWEEPING MACHINE



AIR FILTRATION
channelled back into the environment

AUTOMATIC FILTER SHAKER
This ensures filter performance is maintained over time; shaking the filter regularly prevents clogging and extends its life.

SWEEPING SIDE BRUSHES
to channel dirt into the central area

CONTAINER VOLUME
up to **90** litres

SWEEPING UNIT
for collecting solid waste

Working width of sweeping side brushes
up to **1700** mm

Brush rpm up to 610

Debris hopper emptying height
up to **1540** mm



PANEL FILTER | CLOTH POCKET FILTER | POCKET FILTER IN Tetratex

LIGHT — MEDIUM — HEAVY — TYPE OF DIRT

The GMG Combinata is available with a PANEL FILTER for standard applications, or can be ordered with a CLOTH POCKET FILTER for optimal filtration results, even in environments where the presence of fine dust is very high.

Even higher filtration performance can be achieved with the Tetratex® POCKET FILTER. This is made with a microporous expanded PTFE membrane, a highly efficient material that is ideal for particularly difficult applications, such as in areas where minerals, chemical products, pharmaceutical substances and fertilisers are processed, as well as in the food industry.

The Tetratex® membrane has an excellent release capacity, courtesy of its surface filtration technology: once it reaches the surface, dust – even the most adherent – falls down, leaving the filter free and preventing clogging.

ELECTRICAL HOPPER EMPTYING AT HEIGHT

Hopper emptying takes place automatically without any effort for the operator, who can manoeuvre the waste hopper from the workstation via the instrument panel. The operation is electric, which offers a host of advantages in terms of performance, time and costs over a hydraulic system. Indeed, hydraulic circuits are subject to much more mechanical stress, are also more prone to malfunctions and breakages. They need to be inspected regularly, as do the oils that they contain, which need to be checked and replaced to prevent clogging. Any leaks can compromise the work and damage the environment.



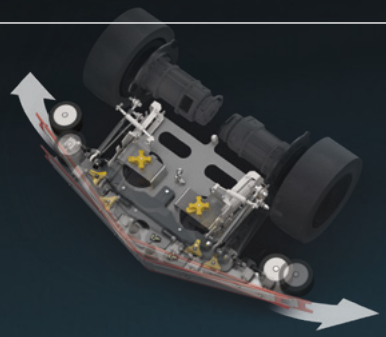
GMG Combinata

2

THE MOST POWERFUL SCRUBBING MACHINE

DUAL 3-STAGE VACUUM MOTOR

Effective vacuum system which leaves the floor dry with no risk of slipping



The layout of the squeegees helps to collect water and direct it towards the suction point, thus ensuring better drying.

The floor is perfectly dried even in bends, thanks to the lateral movement of the rear squeegee, which always follows the course of the machine



FLR FLR-FIMAP LONG RANGE

PRODUCTIVITY IS INCREASED BY UP TO **+70%***

* Calculation carried out in-house

RUN TIME

up to **7** hours*

with Li-ion batteries

* In Eco Mode

SPEED

up to **10** km/h in transfer

up to **9** km/h at work

PRODUCTIVITY

+30% higher productivity than competing models in the same segment



300 litres
SOLUTION TANK

350 litres
RECOVERY TANK

SIDE SCRUBBING BRUSH WITH VACUUM SYSTEM

The side brush makes it easy to clean along walls and allows to reach under shelves.
It is equipped with vacuum system, a unique innovation not available in any other model in the market, which increases drying performance even on bends

IT WIDENS THE WORKING WIDTH, THUS INCREASING PRODUCTIVITY BY UP TO +20%



GREATER CLEANING POWER TO TACKLE THE MOST STUBBORN DIRT

adjustable brush pressure up to **250** kg

brush rpm up to **315**

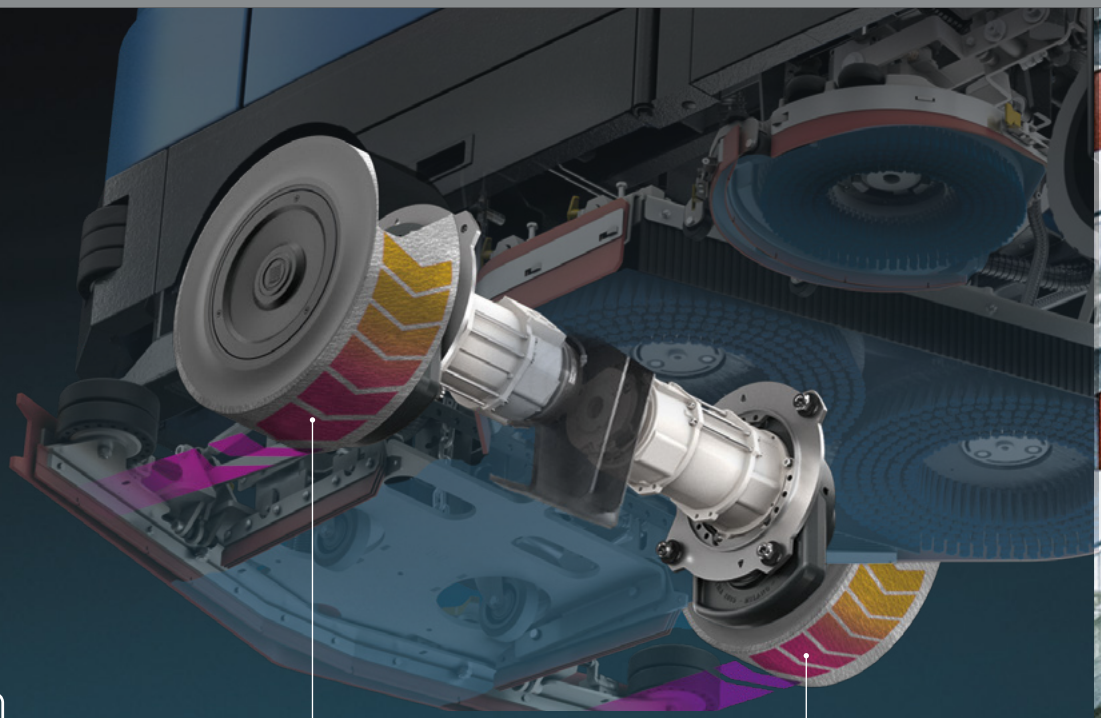
VACUUM WAND

Enables cleaning areas that are difficult to reach with the machine and completing the operation every time



GMG Combinata

Unprecedented power



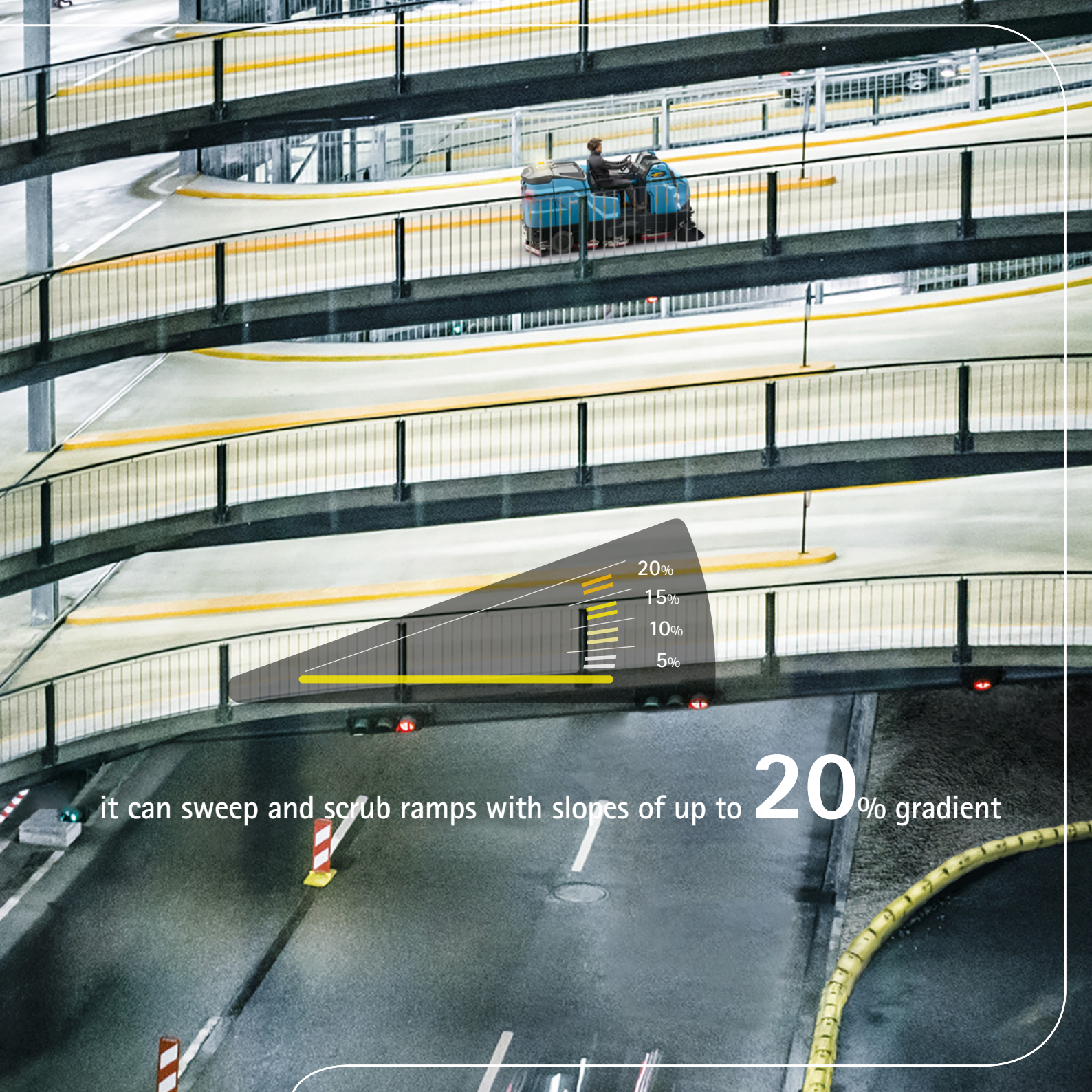
RAMP UP

REAR-WHEEL TRACTION WITH 2 INDEPENDENT MOTOR WHEELS

The rear-wheel traction with 2 electronically-controlled independent wheels provides the GMG Combinata with the necessary power to easily drive up ramps of up to 20% whilst working.

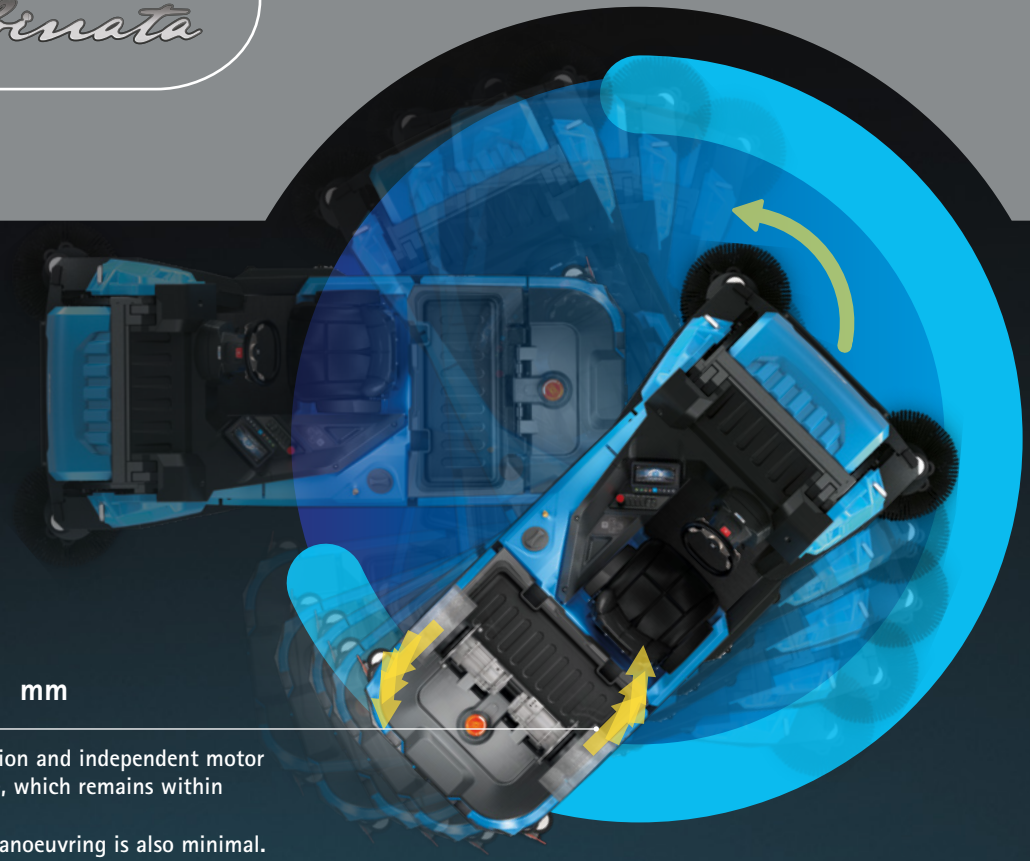
In a multistorey car park, the GMG Combinata is therefore able to move easily from one level to another, guaranteeing high-level grip when climbing, along with reliability and maximum control when manoeuvring.





it can sweep and scrub ramps with slopes of up to **20**% gradient

GMG Combinata



MINIMUM AISLE TURN

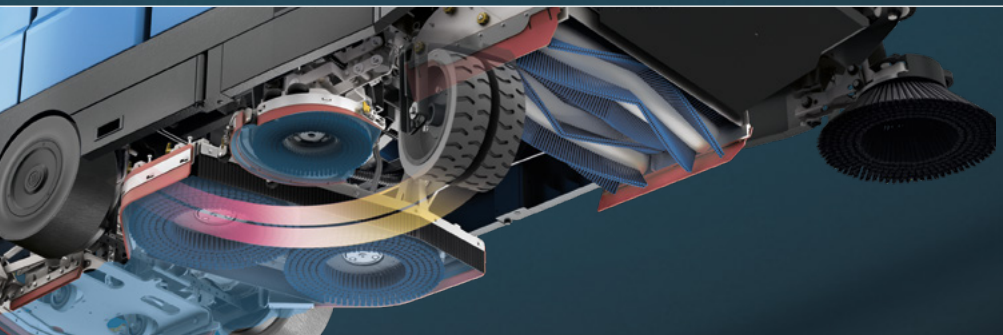
3135 mm

The combination of rear-wheel traction and independent motor wheels enables a small turning circle, which remains within the machine diagonal of 3135 mm.
As a result, the space required for manoeuvring is also minimal.

The friction that is usually generated in reversing leads to significant energy consumption, which negatively affects the working autonomy.

The action of the independent rear motor wheels together with the double front wheel on the GMG Combinata considerably reduces the friction produced when steering. This avoids unnecessary energy dispersion, extends battery run time and increases productivity.

Power steering improves comfort



The power steering makes the steering wheel lighter, increases manoeuvrability and reduces operator fatigue while driving.





REAR VIEW CAMERA

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

FUNCTIONS TO INCREASE POWER

The Power Mode and Heavy Mode functions allow you to get the maximum cleaning power instantly, by activating just one control. Vacuuming power, brush pressure and detergent solution flow rate are raised to the highest level.

POWER MODE

A simple touch of the side paddle raises the cleaning functions to the maximum for 120 seconds.
This function is effective when the operator finds a small area with adherent dirt during the cleaning operation. In this case, it is useful to temporarily leave the cleaning configuration in use in order to benefit from the maximum cleaning power to remove localised dirt.

Maximum cleaning power for **120** seconds

HEAVY MODE

Maximum activation of cleaning functions has no time limits. It is a working mode, suitable for very dirty environments. The operator simply presses the Heavy Mode button to start working at maximum performance for as long as it is needed.

Maximum cleaning power with no time limits!

GMG Combinata

Get access to more information to improve performance, enter the digital world of GMG Combinata

ON-BOARD COMPUTER

With the touch screen display you have access to information that is essential to make more efficient choices and enhance the professionalism of interventions, thus increasing productivity and reducing costs.

Display at any time:



- telemetry to track the energy consumption of the functions



- report of usage time, sq.m. cleaned and liters of water used



- remaining autonomy of batteries and tank, and projection of savings that can be achieved in Eco Mode



iD–intelligent Drive

TOUCH SCREEN DISPLAY
LOG-IN WITH PASSWORD
ZONE PROGRAMS
CRUISE CONTROL
ECO mode
MAINTENANCE CLEANING
FAST CLEANING
HEAVY-DUTY CLEANING
TIMED CLEANING POWER
REAR VIEW CAMERA
ANTI-COLLISION SYSTEM
OPERATOR TRAINING VIDEO TUTORIALS
USER MANUALS IN 24 LANGUAGES

INTELLIGENT DRIVE

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 customizable features to satisfy all types of requirements with extreme simplicity.

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

Touch screen Display



LOG-IN WITH PASSWORD
Protects your investment from unauthorized or improper use



REAR VIEW CAMERA
Increases safety during manoeuvres and helps control cleaning performance



OPERATOR TRAINING VIDEO TUTORIALS
Reduce training costs, providing quick instructions on how to perform ordinary maintenance operations

GMG Combinata

9 working programs to achieve the best results with the maximum efficiency

iD INTELLIGENT DRIVE

Set your goals: with zone and working programs, you reduce the risk of error, make cleaning operations effective on the first pass and achieve desired results without any uncertainty



4 ZONE PROGRAMS

Set up to 4 zones that are frequent on your cleaning sites to help the operator carry out the task properly.

Save the cleaning settings you consider suitable for each zone; once the zone has been selected, the GMG Combinata will start working with the configuration you set

Working programs guide the operator through an intuitive selection of the most suitable cleaning configuration



5. ECO MODE

When carrying out routine or frequent cleaning of surfaces, that is, when a high level of cleaning power is not required, it reduces the use of cleaning solution by up to 50%* and energy consumption by up to 10%*.



6. COMFORT MODE

For ordinary, not heavy-duty cleaning, suitable for daily tasks



7. DYNAMIC MODE

For routine cleaning where greater productivity is required, it allows tasks to be done quickly



8. HEAVY MODE

For heavy-duty operations, to clean very dirty floors that require high cleaning power



9. POWER MODE

For 120 seconds of maximum power, enabling localized dirt to be removed with ease

Some working programs can be selected from either the touch screen display or the membrane keyboard below



* Compared with use without Eco mode device

GMG Combinata



Connect to your fleet, increase productivity with the Fimap FFM app

FIMAP FLEET MANAGEMENT

Track the performance of your fleet easily, through your smartphone, with the Fimap FFM app. You can see where the machines are located, whether the planned cleaning schedule is being followed, and whether something unexpected has occurred. Enter the profile of the GMG Combinata and check the list of maintenance activities performed and any issues that have occurred, in order to remain in full control of the situation and keep productivity high.

Manage your fleet remotely with the FFM – Fimap Fleet Management system, use the Fimap FFM app to access data at any time and don't miss a single detail of the status of your machines

Watch the video



INDOOR TRACKING

Tracking of cleaning activities inside buildings, to see which areas have already been cleaned and which are still to be completed.

MISSION CONTROL PART PROGRAM

The supervisor can set a weekly cleaning schedule and send it to the machine.
This enables the operator to follow the set schedule, ensuring the desired cleaning standards are maintained, and keeping costs low.

GEOLOCALISATION

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

It is possible to monitor the condition of both machines and batteries at any time, to have a clear view of the fleet availability and optimize its coordination.

NOTIFICATIONS

Receive real-time notifications about SOS alerts and anomalies on your devices.
The service is available for all iOS and Android systems.

ENVIRONMENTAL IMPACT

You can see the amount of CO_2 produced by the machine since the beginning of its working life*

* ISO 14067:2018
CFP SYSTEMATIC APPROACH

ALARMS

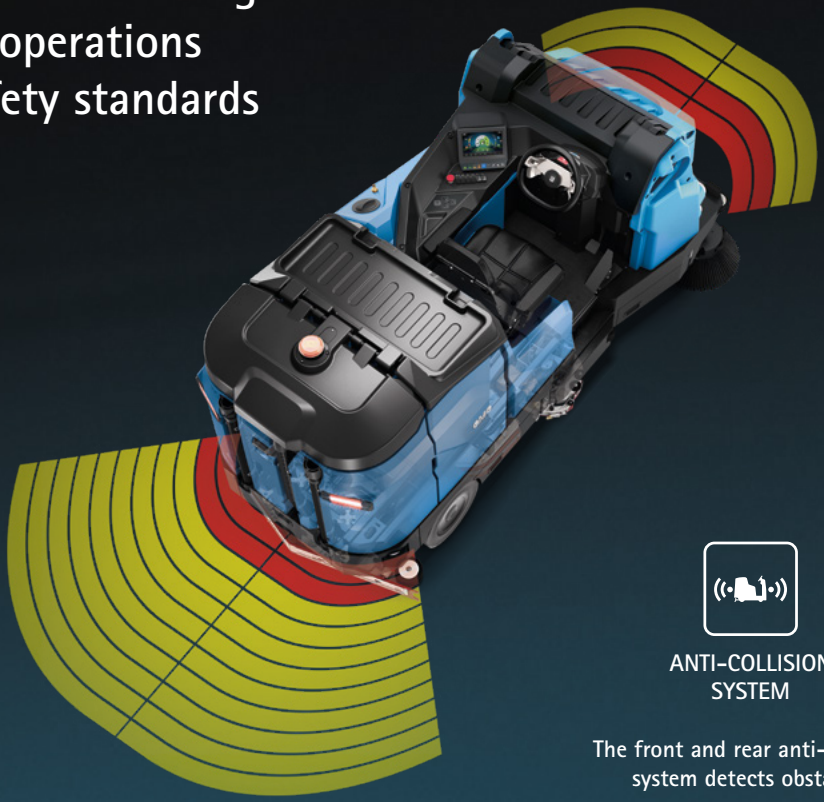
The anomalies occurred are summarised in a list which includes a description of the type of issue, and the date and time of the event. It helps you to have an overview of the improper uses that need to be corrected.

MAINTENANCE

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

GMG *Combinata*

Greater control during cleaning operations raises safety standards



ANTI-COLLISION SYSTEM

The front and rear anti-collision system detects obstacles

The front and rear sensors make two different sounds.
While the machine is moving the operator can recognise by the sound whether the obstacle is in the front or in the rear of the machine.

In the Plus versions, in addition to the sound, the level of approach to the obstacle can also be viewed on the display.
The front sensors are automatically activated when the machine drops below a certain speed during forward travel.



ACTIVE TECHNOLOGIES to prevent accidents

In large spaces where there can be obstacles such as machinery or shelves, the GMG Combinata always ensures full control of the surrounding space, so that the necessary manoeuvres can be carried out in the utmost safety.

REAR VIEW CAMERA

Increases the safety of reverse manoeuvres



GMG Combinata

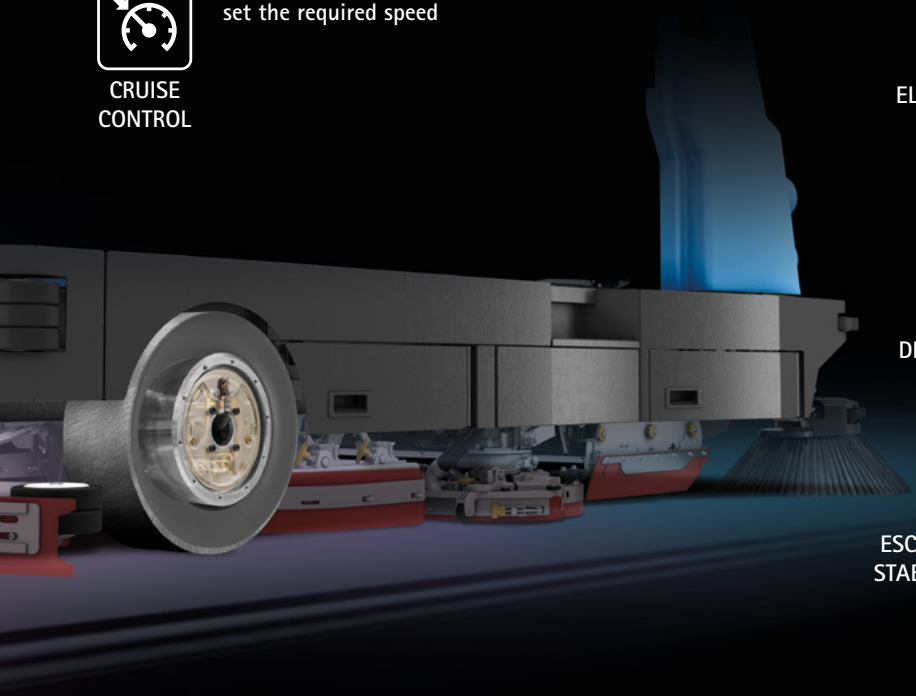
Greater control during cleaning operations raises safety standards

ACTIVE TECHNOLOGIES to prevent accidents

TOUCH SCREEN DISPLAY
Enhances visibility in dim light

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

CRUISE CONTROL
Control device letting the operator set the required speed



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

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

ELECTROBRAKE
Is automatically operated when the machine stops.
It works as a safety parking brake

HYDRAULIC DRUM BRAKES
Self-adjusting, guaranteeing the best braking performance

ESC - ELECTRONIC STABILITY CONTROL
Automatically reduces speed when steering without the operator using the brake

SAFETY BELTS

Protect the operator holding him/her in case of impact

OVERHEAD GUARD

To protect operators working in warehouses and logistics centres

BLUE SAFETY SPOTLIGHT

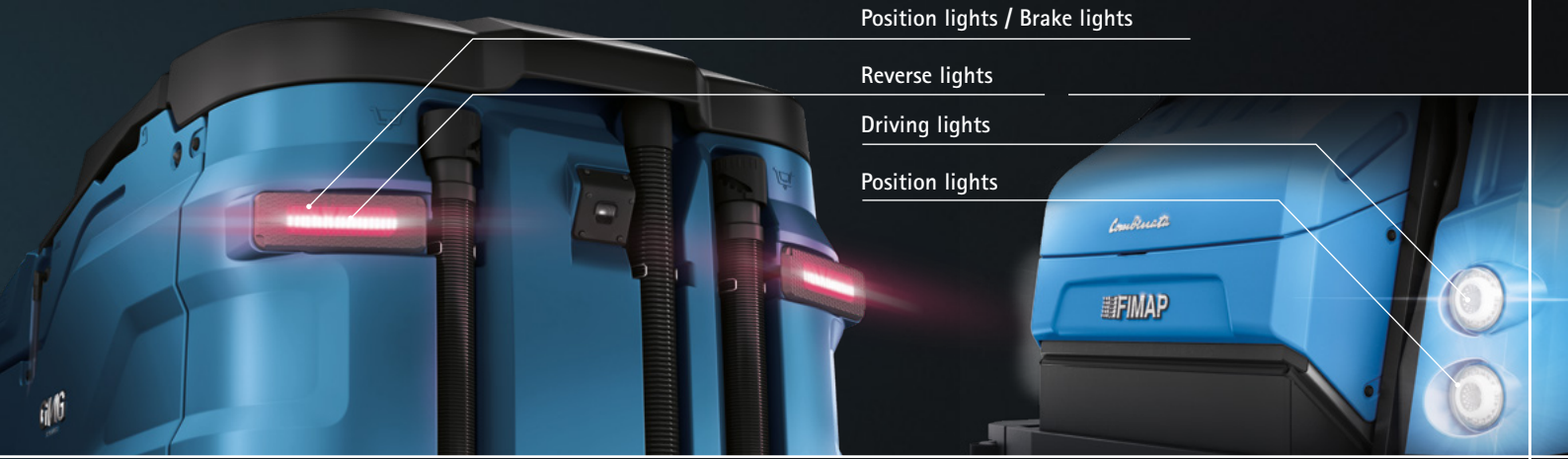
Warns about the presence of the GMG Combinata when visibility is obstructed by shelves or other equipment, avoiding accidents

LED HEADLIGHTS

Front and rear LED headlights maximize work safety in all conditions

OPERATOR TRAINING VIDEO TUTORIALS

Any questions?
The GMG Combinata has all the answers: the video tutorials help the operator in every phase of the job



PASSIVE SYSTEMS to help the operator in case of emergency

SOS DEVICE

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

EMERGENCY STOP

By pressing a single button the machine stops immediately

GMG Combinata



ECO

During the cleaning operation, a prediction of how many resources could be saved by activating Eco Mode is shown on the display.

Eco mode is a quiet work configuration with low consumption. When carrying out routine or frequent cleaning of surfaces – that is, when a high level of cleaning power is not required – it reduces the use of cleaning solution by up to 50%* and energy consumption by up to 10%*.

* Compared with use without Eco mode device

POCKET FILTER IN Tetratex

START&STOP

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.

Even higher filtration performance can be achieved with the Tetratex® POCKET FILTER. This is made with a microporous expanded PTFE membrane, a highly efficient material that is ideal for particularly difficult applications, such as in areas where minerals, chemical products, pharmaceutical substances and fertilisers are processed, as well as in the food industry.

Fimap technologies
that optimise the use of resources

WATER

FSS

FSS-FIMAP SOLUTION SAVER
The amount of water and chemical are dosed separately. It reduces water and chemical use by up to 50%*

FLR

FLR-FIMAP LONG RANGE
System that recycles the cleaning solution, increasing the working autonomy. It reduces water and chemical use by up to 66%**

FWF

FWF-FIMAP WATER FLOW
Ensures uniform cleaning results across the entire working width on the first pass, optimising detergent solution consumption

ENERGY

FES

FES-FIMAP ENERGY SAVER
The GMG Combinata is a machine with many functions, each of which is powered by a dedicated motor. Thanks to its careful design, the various motors have been sized to optimise energy consumption, whilst offering the best performance and maximum efficiency. It reduces energy consumption by up to 35%***

* Compared with use without the FSS device
** Saving calculated on a triple recycling cycle - Compared with use without the FLR device
*** Compared with the previous model - Calculation carried out in-house

GMG Combinata

Choose the version

Membrane control panel





that meets your needs

iD INTELLIGENT DRIVE

Touch screen display





PLUS

GMG Combinata

Customize your machine with the most suitable accessories for your industry

OPTIONALS



Vacuum wand



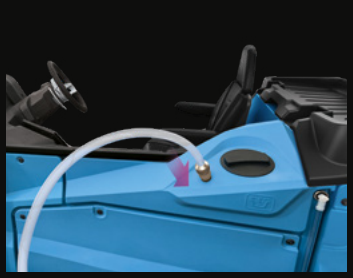
Spray gun



Adjustable Comfort seat complete with armrests and safety belt



Super elastic front and rear wheels



FFF-FIMAP FAST FILL



Side scrubbing brush with vacuum system



FFM-FIMAP FLEET MANAGEMENT



Service LED lights



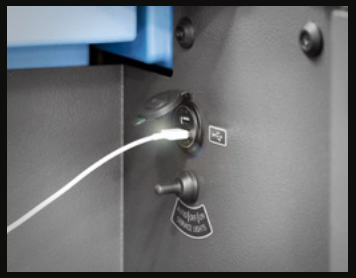
Overhead guard



BLUE SAFETY SPOTLIGHT



Anti-collision system (front - rear)



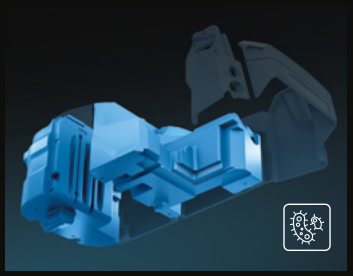
USB ports for charging mobile devices



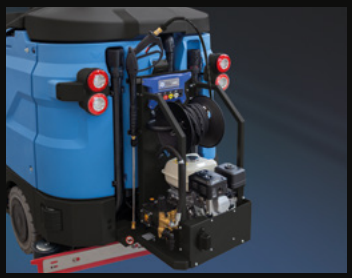
FSS-FIMAP SOLUTION SAVER



FLR-FIMAP LONG RANGE



Antibacterial tanks help inhibit the growth of bacteria and mold



High pressure cleaner kit



The cloth pocket filter increases filtering performance in dusty environments



With the Tetratex® pocket filter, high filtration efficiency is achieved, even in the most demanding environments in specific industries

ACCESSORIES



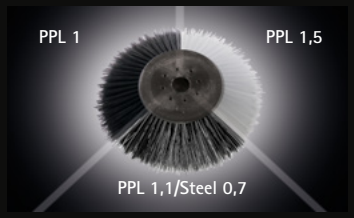
CENTRAL BRUSHES
FOR THE SCRUBBING UNIT



SIDE BRUSHES
FOR THE SCRUBBING UNIT



CENTRAL BRUSHES
FOR THE SWEEPING UNIT



SIDE BRUSHES
FOR THE SWEEPING UNIT

A selection of disc or cylindrical brushes is offered for dealing with any type of dirt on any floor
Abrasive brushes:
Suitable for heavy-duty cleaning of industrial floors
The application of a pad holder allows the use of various types of pads according to the treatment to be performed



REAR SQUEEGEE RUBBER BLADES

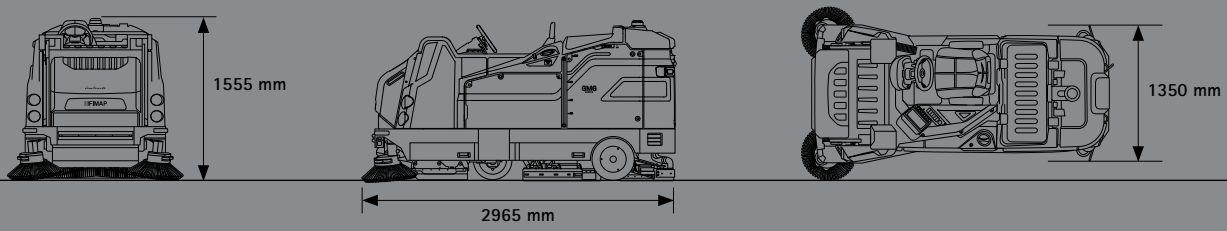
33 SHORE (PARA): For maintenance cleaning of smooth floors
40 SHORE (PARA): For stubborn dirt on floors with joints
POLYURETHANE: For heavy-duty cleaning and collecting oil on industrial floors
LINATEX™: Suitable for all surfaces from smooth to uneven, they provide excellent performance because they are more resistant to wear, temperature changes and use of aggressive chemicals

OPTIONAL AND STANDARD EQUIPMENT

USER EXPERIENCE	GMG Combinata B PRO	GMG Combinata B PLUS
iD-Intelligent Drive:	-	•
- 9 inch high resolution color touch screen	-	•
- Log-in with password	-	•
- Zone programs	•	•
- Cruise control	•	•
- Eco Mode	•	•
- Comfort Mode	-	•
- Dynamic Mode	-	•
- Heavy Mode	-	•
- Power Mode	-	•
- Power	•	-
- Digital solution level indicator	-	•
- Rear view camera	-	•
- Anti-collision system (front - rear)	•	•
- Operator training video tutorials	-	•
- User manuals in 24 languages	-	•
- On-board computer (odometer, telemetry, report of the last cleaning intervention, remaining autonomy)	-	•
- Maintenance due warning	•	•
- Membrane keyboard with work mode selector	-	•
Membrane keyboard for manoeuvring the sweeping unit debris hopper	•	•
Membrane control panel	•	-
COMFORT		
Hour meter	•	•
Cleaning solution level indicator	•	•
Fresh water empty tank light	•	•
Vacuum wand	○	○
Spray gun	○	○
Basic seat	•	-
Adjustable Comfort seat complete with armrests and safety belt	○	•
FFF (Fimap Fast Fill)	○	○
Automatic coupling/uncoupling of the central brushes in the brush head	•	•
Noiseless suction	•	•
Brush and squeegee actuator	•	•
Power steering	•	•
Super elastic wheels	○	○
Rear footboard for easy maintenance	•	•
USB ports for charging mobile devices	○	•
Electrical debris hopper emptying at height	•	•
PRODUCTIVITY		
Water flow selector	•	•
Triple pressure selector	-	•
Extra pressure	•	•
Vacuum speed selector	•	•
Side scrubbing brush with vacuum system	○	○
Sweeping side brushes	•	•
2 3-stage vacuum motors	•	•
FFM (Fimap Fleet Management) with SOS device, mission control part program and indoor tracking	○	○
Squeegee with anti-corrosion treatment	•	•
Side splash guards	•	•
Rear-wheel traction with 2 independent motor wheels	•	•
Brushless motors (traction, brushes, vacuum)	•	•
Batteries with automatic refilling system	○	○
Ramp up	•	•
Automatic filter shaker	•	•
Road type-approval (front/rear number plate holder, front/rear lights, direction indicators, rear view mirrors and blinking light)	○	○
High pressure cleaner kit	○	○
SAFETY		
Blinking light	•	•
Driving LED lights (front-rear)	•	•
Service LED lights	○	•
Stop&Go	•	•
Descent control	•	•
ESC (Electronic Stability Control)	•	•
Emergency Stop	•	•
Overhead guard	○	○
Antibacterial tanks	○	○
Blue safety spotlight	○	○
Hydraulic rear drum brakes	•	•
Electrobrake	•	•
ENVIRONMENT		
Panel filter	•	•
Cloth pocket filter	○	○
Tetratex® pocket filter	○	○
FSS (Fimap Solution Saver)	○	○
FLR (Fimap Long Range)	○	○
FWF (Fimap Water Flow)	•	•
FES (Fimap Energy Saver)	•	•
Start&Stop	•	•

• STANDARD	○ UPON REQUEST	- NOT AVAILABLE

DIMENSIONS AND TECHNICAL DATA



TECHNICAL DATA		GMG Combinata B PRO	GMG Combinata B PLUS
Productivity theoretical	up to sqm/h	17000	
Estimated coverage	up to sqm/h	15300	
SCRUBBING SYSTEM			
Working width with disc brushes	mm	1000	
Working width with side brushes	(no.) mm	(1) 1200	
Brush motors (central/side)	(no.) V/W	(2) 36/1500 - (1) 36/250	
Brush RPM (central/side)	rpm	315/140	
Brush pressure	up to kg	250	
SWEEPING SYSTEM			
Working width with cylindrical brushes	mm	850	
Working width with side brushes	(no.) mm	(2) 1700	
Brush motors (central/side)	(no.) V/W	(2) 36/1000 - (2) 36/300	
Brush rpm (central / side)	rpm	610/105	
TANK AND RECOVERY SYSTEM			
Solution tank	l	300	
Recovery tank	l	350	
Suction motor	V/W	(2) 36/600	
Vacuum water lift	mbar	200	
Detergent tank capacity (FSS)	l	32	
Maximum volume of the debris hopper	l	90	
BATTERIES			
Supply/traction	V	36/aut.	
Batteries	(no.)	(1) 36/510-625-775 WET - 38,4/720 Li-ion	
Battery run time*	up to h	6 (WET) - 7 (Li-ion) *	
PROPELLING SYSTEM			
Forward working speed	km/h	9	
Transport speed	km/h	10	
Gradeability (Working / Transport at gross weight / Trailer ramp empty)	%	20	
Traction motor	(no.) V/W	(2) 36/3300	
SPECIFICATIONS			
Machine dimensions (L x h x w)	mm	2965 1555 1525	
Squeegee width	mm	1350	
Machine weight empty without batteries	kg	1475	
Machine weight empty with batteries	kg	2250	
GVW (Gross Vehicle Weight)	kg	2745	
Sound pressure level (ISO 11201) – L_{pA} – Eco Mode	dB (A)	71,5	
Minimum aisle turn	mm	3135	

*Run times are based on continuous scrubbing run times
Machine weights are calculated on the basis of a standard reference model

SERVICES

CONSULTING AND PLANNING



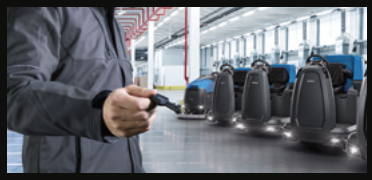
We put our experience at your service, to help you realize the cleaning project perfect you. We suggest you the best solutions to make costs decrease and service quality increase.

CONFIGURATION



Your business is unique, only a customized fleet can lead you to better results. We will help you find the configurations that best fit the specific requirements of your cleaning sites, in order to optimize processes and lower costs.

FINANCIAL SOLUTIONS



You can choose to use the fleet in different ways. We can advise you on the best financial solution for your business, so that you can get the quality of the Fimap world at the most convenient conditions for you.

SETUP



We can help you set up your machines in order to make them meet specifically the requirements of the sites of your project, allowing you to always have control over costs and results.

TRAINING COURSES



Fimap Academy offers courses for all levels, from the correct use of machines and technologies, up to the management of sites and tenders, helping you to make your service really competitive.

DIGITAL FLEET MANAGEMENT SYSTEM



With Fimap Fleet Management everything is under your control. You can have a complete overview of the service provided and find out the improvements that can be made, basing your considerations on real data, always available via the Fimap FFM app or FFM website.

AUTHORIZED WORKSHOP NETWORK



Fimap Authorized Workshop network spans the globe, so you can enjoy the peace of mind of finding a professional support wherever your business is.

MAINTENANCE AND REPAIR



For your business to run smoothly it is essential that your machines are kept always operational. Our technicians take care of monitoring the machines health status and know how to intervene quickly and effectively when needed.

GENUINE SPARE PARTS



Get the most out of your machines, choose the reliability of Fimap original spare parts. They are designed together with the machines, so they perfectly fit them thus guaranteeing the highest quality of performance.

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

FIMAP®

www.fimap.com

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