

**NEW**  
**MC 110**  
MODERN & AGILE



Discover our new sub-compact  
sweeper MATHIEU MC 110  
with our mobile app.



MATHIEU S.A.

85, rue Sébastien Choulette  
B.P. 32 54202 Toul Cedex  
France  
T : +33 (0) 3 83 65 22 22  
E : [info@mathieu.fayat.com](mailto:info@mathieu.fayat.com)  
[www.mathieu.fayat.com](http://www.mathieu.fayat.com)



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## FUNCTIONAL DESIGN



Mathieu has always followed a French manufacturing tradition of quality and inventiveness. Today more than ever, Mathieu is devoting all its forces to designing cleaning vehicles with resolutely modern lines that are contributing to a feeling of well being in urban spaces.



Take a look and admire the powerful, stylish front face, embellished with two round full LED day and night headlights. We've thought through every aspect to provide better comfort and safety by making every space, contribute to visibility.





The power of this new compact sweeper is hinted at by the many features fully integrated on the rear face, such as the square LED lights, the water filling and cleaning functions and the wand hose located in the rear door compartment.

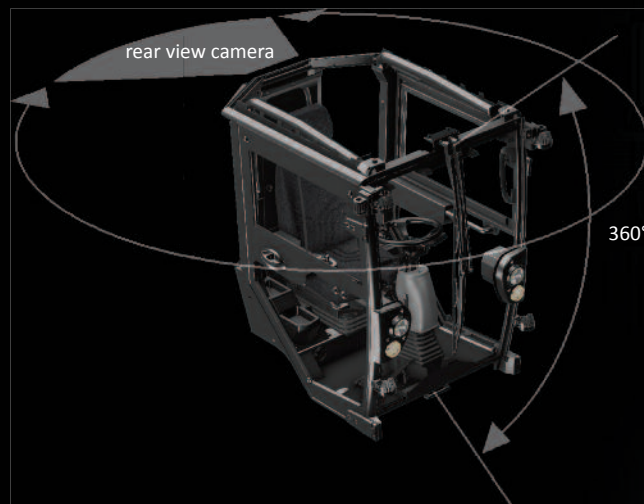
Its exclusive character is apparent in the quality of all its finishes and the choice of materials, such as the removable tank trim and anthracite grey water and fuel tanks.



From every angle, the **MC110** displays a modern temperament with a perfect balance between the cab, the waste hopper and the large 14" wheels with their black rims.

The **compact MC110 sweeper**, has been designed to offer you an ultra-compact architecture combined with great manoeuvrability for collecting waste in the narrowest parts of your public areas; pavements, pedestrian areas, car parks, retail parks, etc.





## 360° vision

At the wheel, you are in complete control of your environment, with the high up position giving unparalleled visibility through an extra-low windscreen, glass panelled doors with thin door beams, panoramic rear view mirrors, rear view quarter-panels, a nozzle camera and reversing camera.



## An all-encompassing interior

Sit down at the wheel and take in the highly ergonomic and spacious driving position, designed for all body shapes thanks to the generously proportioned cab and a wide range of seat and steering column settings together with the right handside armrest containing all the vehicle functions.

## Designed all out for on-board comfort

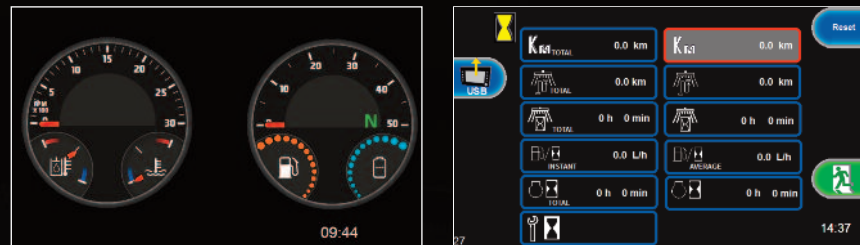
You can now perform your sweeping tasks in a first-class environment thanks to the quality of the control equipment and a 7" multi-function screen head-up display. Standard features include climate control air conditioning, a reversing camera and a nozzle camera, a suspended driver seat with multiple settings and 2-point seatbelts and headrest, an MP3-SD-USB Bluetooth radio with hands-free kit, a 12V socket with smartphone compartment and a drink holder.



# USEFUL TECHNOLOGY



The Mathieu MC110 offers you onboard technology to make life simpler



A 7" head-up colour screen with quality and intuitive graphics offering numerous services:

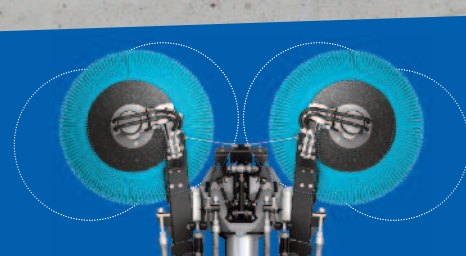
- Real-time monitoring of active functions,
- Log book to access useful operational data (hours worked, distances travelled, average consumption, etc.),
- An integrated diagnostic help tool,
- A function to extract operational data and to update via USB stick,
- A PDF-file reader.

Work controls combined into a single point

On the right armrest you'll find the intuitive work controls managed by CANbus. A keypad with short press backlit buttons, each one dedicated to a function, symbolised by an icon and colour code, together with a joystick for controlling the brushes with precision and freedom.



# **AGILITY**



The Mathieu MC110 sweeper offers many attributes. Nimble and compact, it can negotiate narrow streets with great agility. Articulated and with a tiny 1.80 m approx. turning radius, it can virtually turn on the spot. And with a height of less than 2 m, it's the ideal sweeper for underground car parks. Its two-brush pushed sweeping system with wide side and front swing gives it even greater agility for cleaning 90° corners and around urban amenities.





# PERFORMANCE

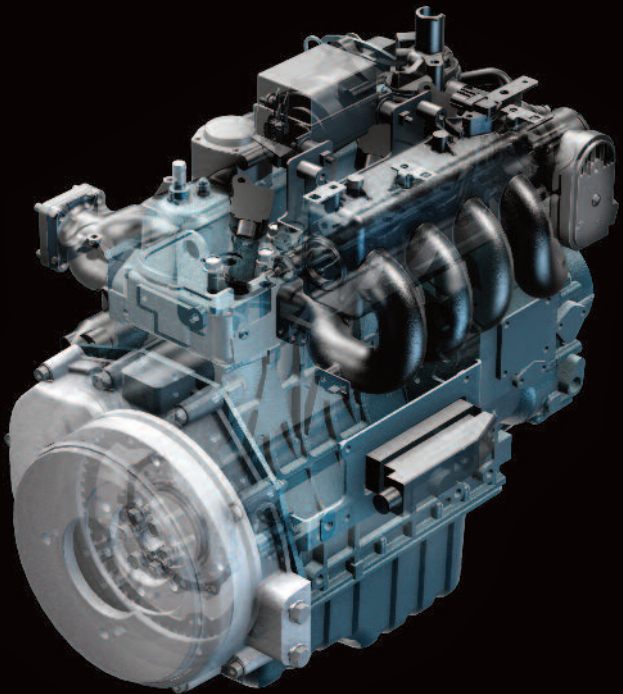
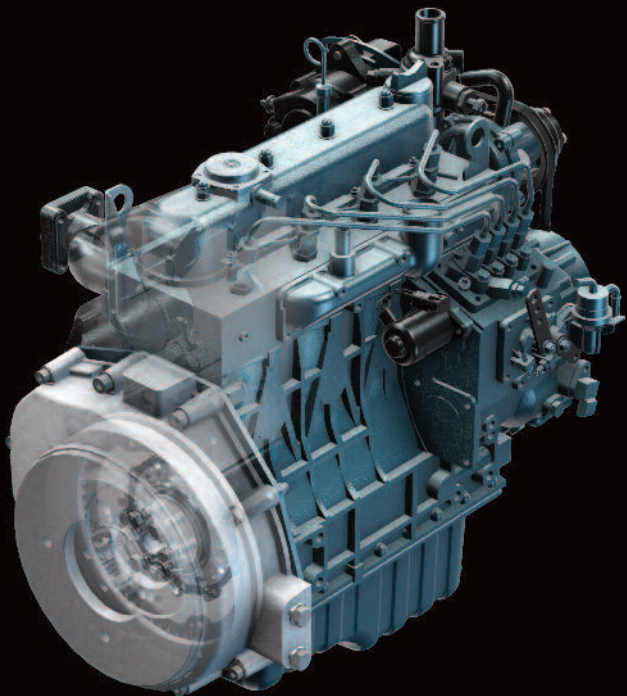


## Excellence is apparent in the details

With a 25 km/h forward speed, dynamic brake system, an authorized gross vehicle weight of 2400 kg, a payload of 500 kg, a 700 l stainless steel waste hopper, large diameter 14" wheels, oscillating suspension on each wheel, a voracious appetite for waste, a water recycling and suction fan grid cleaning system as standard, the MATHIEU MC 110 leaves nothing to chance and offers you optimum performance for optimum satisfaction.

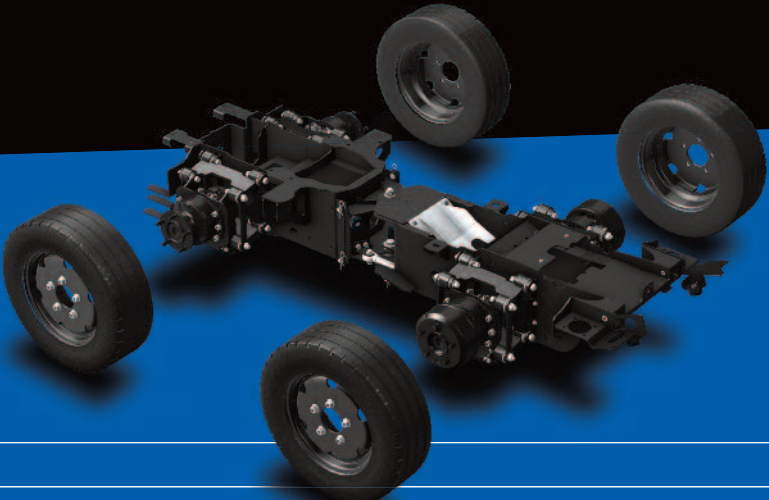
## 1.5 L Diesel KUBOTA

Power (kW at rpm)	26.2 at 3000
Number of cylinders	4
Emission level	Stage IIIA / Tier 4 Interim



## 1.6 L Petrol KUBOTA

Power (kW at rpm)	35 at 3000
Number of cylinders	4
Emission level	EPA Tier 2 / Carb Tier 3



## Last generation clean engines

The new MC 110 offers two engines, diesel or petrol, powerful at low speed and respectful to the environment.



# ECO-RESPONSIBILITY

The Mathieu MC 110 is designed for today with tomorrow in mind.

## An eco-efficient working mode

The MC 110 has three pre-defined working speeds that handle the different sweeping tasks which the operator encounters daily: an **EcoMode**, a standard mode and a **BoostMode** limited to 10 minutes of use. 80% of common sweeping tasks are handled with EcoMode. Preferring to use this working mode gives you up to 50% fuel savings, less noise pollution and preserves the lifetime of your sweeper.



**A reduction in clean water consumption**

Achieved by a water recycling system that re-injects used water from the hopper into the suction nozzle added to a precise amount of clean water sprayed on to the brushes and on to the nozzle.



**Low particulate emission into the air**

3 stars in the PM10 test, the highest score.



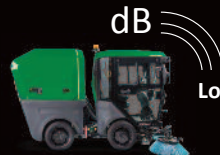
**High end of life recyclability**

The mechanical components are composed of 90% steel, cast iron, aluminium, copper and glass and are entirely recyclable. The plastic parts are processed by specialists.



**A low level of CO2 emission**

Through the use of low speed diesel and petrol power units and activation of EcoMode at the start of each work cycle.



**Low level of noise pollution**

Thanks to the use of effi-silence technology, reduced noise power units and quality soundproofing materials, the acoustic power and pressure level of the sweeper has been reduced.



**ISO 14001 certification**

This means you're sure of choosing a brand dedicated to protecting the environment.

## OPTIONS

Set the tone, choose your colour



Standard White RAL 9010

RAL 9006

RAL 1021

RAL 2011

RAL 3000

RAL 5017

AC533

And choose your comfort, safety, work or maintenance options to simplify life



Multi-adjustment seat with pneumatic suspension



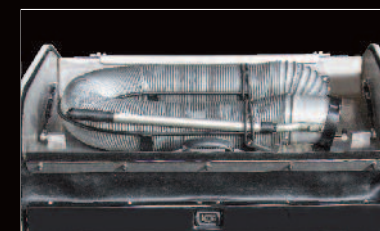
Electrical panoramic mirrors with defrosting



Bi-LED headlamps and main beam



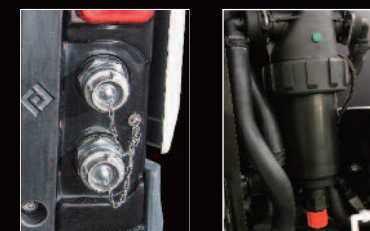
2 additional LED working lights



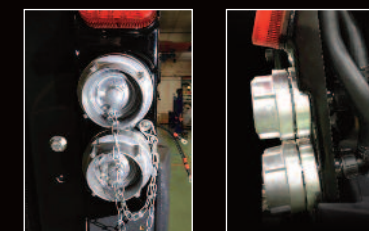
Leaf suction tube



High pressure washing



Water filling filter + Storz DN 25 water coupling



Storz DN 52 water couplings



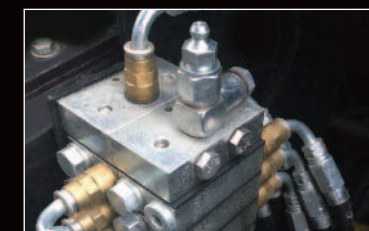
2 LED front and/or rear flashing lights



2 kg powder extinguisher



Automatic battery cut-off



Centralised lubrication

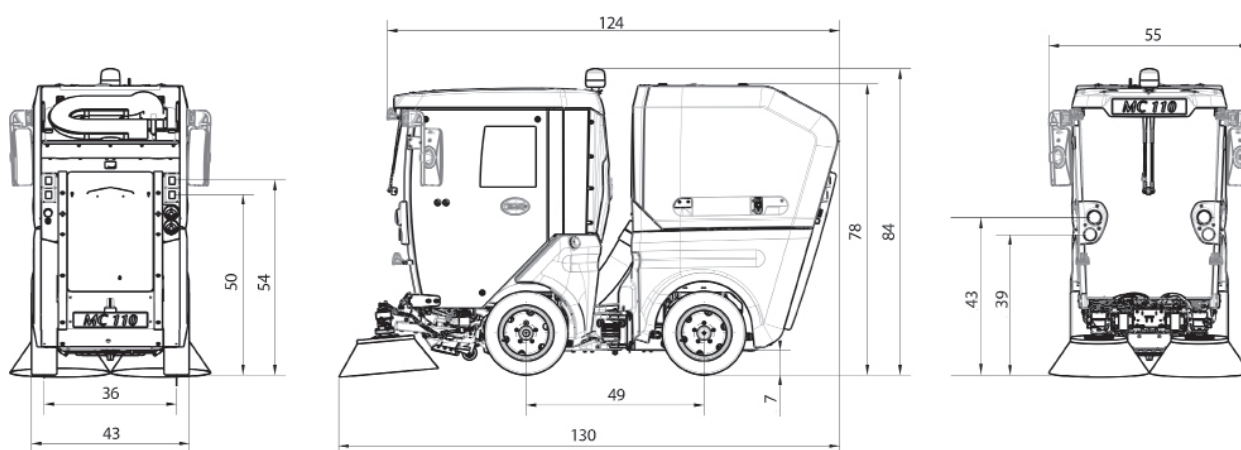


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 Subject Technical and performance datas

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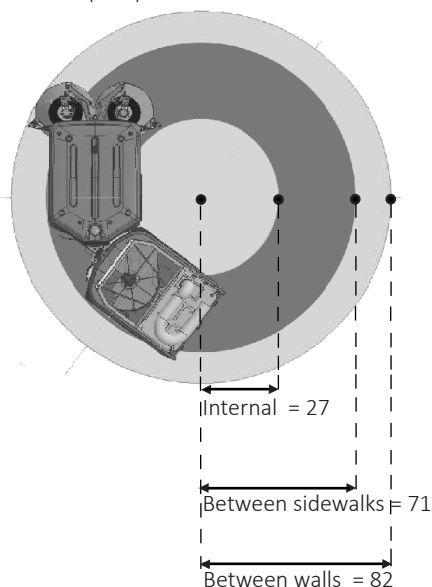
## 1\_ General characteristics

### 1.1. Dimensions



### 1.2. Steering

Steering Articulated  
 Turning radius (inch)



### 1.3. Brakes

Front Dynamic drum brakes integrated into the drive motors  
 Parking Static brakes with lack of multidisc pressure integrated into the drive motors

### 1.4. Suspension

Front and rear Independent leaf spring

### 1.5. Weight

Tare weight (depending on the option) (lbs)	4,200
GVW (lbs)	5,300
Payload (lbs)	1,100

### 1.6. Speed

Transit mode speed (mph)	0 - 15
Work speed (mph)	0 - 5

### 1.7. Tire size

Front	175/65 R14
Rear	175/65 R14

### 1.8. Transmission

Wheel drive	4
Drive	Hydrostatic
Gradeability	Up to 30%

### 1.9. Capacity

Fuel tank (gallon)	12
Clean water tank (gallon)	37
Recycling system (gallon)	26
Hydraulic tank (gallon)	12



## 02\_ Engines



Make	KUBOTA WG1605-G-E3 Gasoline Engine
Engine type	EPA TIER 2 / CARB TIER 3
After-treatment	Exhaust with catalyst
Cubic capacity (yard <sup>3</sup> )	1537
Number of cylinders	4
Maximum power	48 hp @ 3 000 rpm (35 kW)
Maximum torque	117 Nm @ 2500 rpm
Consumption (gallon/h)	0.9

## 03\_ Work performances

### 3.1. Sweeping system

Sweeping width (inch)	54 - 71
Number of brushes	2
Sweeping system type	Pushed
Control of the brushes	Joystick
Brush diameter (inch)	32
Brush rotation speed (rpm)	Adjustable up to 120
Sweep rate / output (optimal)(Ft <sup>2</sup> /h)	135 625
Dust emission	PM10

### 3.2. Waste hopper

Material	4016 stainless steel
Voided volume (yard <sup>3</sup> )	1 (DIN EN 15429-1)
Dumping height (inch)	57

### 3.3. Suction system

Suction nozzle dimension (inch)	19 x 7
Material	Stainless steel
Suction tube diameter (inch)	6
Suction tube material	Polyuréthane
Blower capacity (CFM)	2.000