multibot
One robot for multiple tasks

This multitask robot will allow you to carry out multiple applications, coupling different modules for cleaning, disinfection and coating inside the air ducts. It incorporates the latest technologies such as FullHD cameras, automatic module elevation system, HMI touch screen control panel, and HD recording system.
Robust and reliable

Multibot makes use of robotised platforms where different modules can be connected, making it suitable for any air duct cleaning task, as well as modules with different cleaning, disinfection and coating settings.

Robust and reliable

Built with the most resistant materials, such as stainless steel in the structure and and the dense polyamide in the casing. The heart of Multibot are its powerful engines of last generation, which assures us a long duration and reliability.

Versatile

The Multibot’s powerful traction crawler allows you to move over any surface and climb slopes of 30º inclination. The robot and the application modules are designed to clean any size of circular or square duct and for any size.

Modular design

Thanks to the automated elevation system offered by the robotised Max platform, it is possible to clean large air ducts of up to 1000mm. The height regulation adapts itself from the control unit as the robot moves.

Nicely-sharp images

The last technology in visualization and recording of the images collected by Multibot in Full HD 1080P. It has a high resolution monitor for recording and storage of videos and photographs, with a touch screen resistant to dust and water.
Reach the furthest

With the robotised MAX platform, it is possible to clean, disinfect and coat air ducts between 400 mm and 1000 mm. This is because, thanks to the modules’ automated elevation system, the height regulation adapts itself to the air ducts size from the control unit as the robot moves.

MAX ROBOT

Dimensions and weight (excluding modules)
L x A x H: 320 x 200 x 250 mm / 11 kg
L x W x H: 12.6 x 7.8 x 9.8 inch / 24.2 lb

Structural material
Stainless steel and polyamide (PA12)

Cameras (front and back)
Full Colour HD 1080P

Lighting
High intensity LED 4000 K 360°

TECHNICAL CHARACTERISTICS

Reach the furthest

With the robotised MAX platform, it is possible to clean, disinfect and coat air ducts between 400 mm and 1000 mm. This is because, thanks to the modules’ automated elevation system, the height regulation adapts itself to the air ducts size from the control unit as the robot moves.

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Full Colour HD 1080P

Lighting
High intensity LED 4000 K 360°

TECHNICAL CHARACTERISTICS
Compact design

With the robotised MICRO platform, it is possible to clean, disinfect and coat the smallest air ducts between 250 mm and 500 mm, small outside and large inside. It integrates all the same advanced technology as its big brother, the MAX robot, in order to carry out any task using the Multibot system’s available modules.
**Activation switch** of the control unit

**Joystick for control the direction and speed of the tractor unit**

**MMI touch screen monitor for control all robot functions and application modules**

**Touch screen display and HD video recording**

**Reel for storing 20 m of cable from the communication cable between robot and control panel**

**Removable box for storage the application modules**

**Removable box to store the robotised platform**

**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Display monitor</td>
<td>10&quot; 2048 x 1546 screen, Intel X7, 8GB RAM</td>
</tr>
<tr>
<td>Control screen</td>
<td>7&quot; 800 x 480 px HDMI - Touch control</td>
</tr>
<tr>
<td>Structural material</td>
<td>Oven-painted steel and HDPE</td>
</tr>
<tr>
<td>Power supply</td>
<td>230V - 50 Hz // 110V - 60 Hz</td>
</tr>
<tr>
<td>Empty weight and dimensions</td>
<td>486 x 416 x 1070 mm / 53 kg&lt;br&gt;19 x 16.3 x 42 inch / 116.8 lb</td>
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</table>
The Multibot's modular concept is made up of different modules which carry out different tasks inside air ducts, and all are compatible with the MAX and MICRO robotised platforms, with fast and easy connection.

**Quick Connect**

Easy and fast connection between the robot's modules without the need for tools, fast connection between cable and plug.

**Hose protector**

Protect the robot hose when accessing the duct (Accessory included).
BRUSH EXTENSION RODS
For adjustable perimetral brush made of coated fibreglass and a nylon brush (0.5 mm)
Fast connection to module B360°

INCLUDED ACCESSORIES

BRUSH EXTENSION RODS
For adjustable perimetral brush made of coated fibreglass and a nylon brush (0.5 mm)
Fast connection to module B360°

LONG EXTENSION - 800 mm for air ducts between 700 mm and 1000 mm
SHORT EXTENSION - 500 mm for air ducts between 400 mm and 700 mm

TECHNICAL CHARACTERISTICS

DIMENSIONS AND WEIGHT (L x W x H) 280 x 140 x 75 mm - 3 kg // 11 x 5.5 x 2.95 inch - 6.6 lb
BRUSHING MACHINE 75 W output, 555 rpm speed
The PERIMETRAL MOVEMENT features a two-way rotation and 3 speeds (4, 8 and 12 rpm).

USE IN AIR DUCTS:
Shape: Rectangular, square and circular / Material: Metal / Dimensions: from 400 to 1000 mm

B360° Code AC3120609
B100  

ROTATING BRUSH CLEANING MODULE

App. rotary brush duct cleaning application module. Total control of the speed and direction and rotation direction of the brush. The best option for the cleaning of circular ducts.

TECHNICAL CHARACTERISTICS

DIMENSIONS AND WEIGHT (L x W x H): 270 x 140 x 75 mm - 2 kg // 10.6 x 5.5 x 2.95 inch - 4.4 lb
BRUSHING MACHINE: 85 W output, 400 rpm speed

USE IN AIR DUCTS
Shape: Circular / Material: Metal / Dimensions: from 400 to 1,000 mm

OPTIONAL ACCESSORIES

PACK 5 BRUSHES
Nylon brushes for circular duct.
Measurements: Ø300, 400, 500, 600 and 700 mm.
COD: CP2201016

B100 Code AC3106918
A100 Cleaning Module

App. Silicon whips air injection duct cleaning application module. The whips spin all over sweeping the dust forward. This cleaning system is ideal for air ducts with coating made of fibre and other soft materials.

**TECHNICAL CHARACTERISTICS**

- **DIMENSIONS AND WEIGHT** (L x W x H): 270 x 140 x 75 mm - 3 kg // 10.6 x 5.5 x 2.95 inch - 6.6 lb
- **COMPRESSED AIR REQUIREMENTS**: Minimum air flow 220 l/min at 6/8 bar
- The **ROTATIVE MOVEMENT** features a two-way rotation and 3 speeds (4, 8 and 12 rpm).

**USE IN AIR DUCTS:**
- Shape: Rectangular, square and circular
- Material: Metal and fibre
- Measures: from 250 to 1,000 mm

**ACCESSORIES INCLUDED**
- 20 m hose for pressurised air
- 300 mm, 400 mm and 500 mm silicone tubes.

**OPTIONAL ACCESSORIES**
- **AIR COMPRESSOR AR16**
  - Air compressor
  - Maximum working pressure: 10 bar - 145 psi
  - Air inlet: 400 l/min - 706 cfm

A100 Code: AC3120627
AR16 Code: CO3330206
**INJECTION SYSTEM BOX**
Integrates the pump for nebulising chemical products. Compartment for module transportation. 20 m hose.

**ACCESSORIES INCLUDED**

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<tr>
<td><strong>BOX DIMENSIONS AND WEIGHT (L x W x H):</strong> 600 x 400 x 270 mm - 12 kg // 23.6 x 15.7 x 10.6 inch - 26.5 lb</td>
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<tr>
<td><strong>INJECTION PUMP:</strong> Flow 5.4 l/min Pressure 7 bar</td>
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<td><strong>INJECTION NOZZLE:</strong> Opening angle 160º. Droplet size 20 microns.</td>
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**DISINFECTION MODULE**
App. for disinfecting air duct interiors using an injection pump and perimetral nebulisation nozzle at 360º. This system applies disinfectants evenly and quickly.

**PRODUCT USE IN AIR DUCTS:**
Shape: Rectangular, square and circular / Material: Metal and fibre / Measures: from 250 to 1,000 mm

**INJECTION SYSTEM BOX**
Integrates the pump for nebulising chemical products. Compartment for module transportation. 20 m hose.

**DISINFECTING PRODUCT**
AK-GERMA 100
Concentrated liquid (anti-viral, anti-bacterial and anti-fungal) for disinfecting surfaces through nebulisation.

**ACCESSORIES INCLUDED**

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**D360º Code AC3120628**

**DISINFECTING PRODUCT**
AK-GERMA 100
Concentrated liquid (anti-viral, anti-bacterial and anti-fungal) for disinfecting surfaces through nebulisation.

**D360º Code PQ8400113**
360° COATING MODULE

App. Module application for coating the interior of ducts with a double injection nozzle and a 360° perimeter movement. This system applies the sealer homogeneously and quickly.

TECHNICAL CHARACTERISTICS

DIMENSIONS AND WEIGHT (L x W x H): 270 x 140 x 75 mm - 3 kg / 10.6 x 5.5 x 2.95 inch - 6.6 lb

HIGH PRESSURE PUMP REQUIREMENTS: Minimum flow 15 l/min at 220 bar

The ROTATIVE MOVEMENT features a two-way rotation and 3 speeds (4, 8 and 12 rpm).

USE IN AIR DUCTS:
Shape: Rectangular, square and circular / Material: Metal and fibre / Measures: from 250 to 1,000 mm

INCLUDED ACCESSORIES

- 20 m hose for pressurised air

OPTIONAL ACCESSORIES

- S360° Code AC3120626
- Code AC3120605

ELASBIO. chemical sealant.
19 litre cylinder
Code PQ8400110.