multibot
One robot for multiple tasks

This multitask robot will allow you to carry out multiple applications, coupling different modules for cleaning, disinfection and sealing 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**

Built with the most resistant materials, such as stainless steel in the structure 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.

**Modular design**

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 sealing settings.

**It reaches the top**

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.

**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.

**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 seal 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.

**TECHNICAL CHARACTERISTICS**

- **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 360º

**360º adaptive brushing application module**

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**Compact design**

With the robotised **MICRO** platform, it is possible to clean, disinfect and seal 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

Removable box for storage the application modules

Removable box to store the robotised platform

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

Control screen

7" 800 x 480 px HDMI - Touch control

Technical Characteristics

Display monitor
10" 2048 x 1546 screen, Intel X7, 8GB RAM

Control screen
7" 800 x 480 px HDMI - Touch control

Structural material
Oven-painted steel and HDPE

Power supply
230V - 50 Hz // 110V - 60 Hz

Empty weight and dimensions

L x A x H: 486 x 416 x 1070 mm / 53 kg
L x W x H: 19 x 16.3 x 42 inch/ 116.8 lb

Rotation on the robot shaft

Speed-adjustable rotation, forward and reverse functions using joystick control

Activation switch of the control unit

Rotation on the robot shaft

Speed-adjustable rotation, forward and reverse functions using joystick control

Activation switch of the control unit
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).
B360° COD. AC3120609

**BRUSH EXTENSION RODS**

For adjustable perimetral brush made of coated fibreglass and a nylon brush (0.5 mm)

Fast connection to module B360°

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**360° ADAPTIVE BRUSH MODULE**

App. rotary brush with perimetral movement duct cleaning application module. It moves through the duct adapting to its shape and size. It is very effective for square ducts for deep cleaning of the corners.

**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

**INCLUDED ACCESSORIES**

- **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

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**CLEANING MODULE**

**B360° 360° ADAPTIVE BRUSH MODULE**

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**B360° COD. AC3120609**
B100 COD. AC3120608

OPTIONAL ACCESSORIES

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

PACK 5 BRUSHES

Nylon brushes for circular duct

Measurements: Ø300, 400, 500, 600 y 700 mm

COD: CP2201016

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.

DOUBLE DIRECTION

SPEED REGULATION

OF BRUSH ROTATION

OF ROTATION

FASTEST CLEANING IN CIRCULAR AIR DUCTS
**A100 COD. AC3120627**

**AIR INJECTION 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
- **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

<table>
<thead>
<tr>
<th>ACCESSORIES INCLUDED</th>
<th>OPTIONAL ACCESSORIES</th>
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<tr>
<td>20 m hose for pressurised air</td>
<td>AIR COMPRESSOR AR16</td>
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<td>300 mm, 400 mm and 500 mm silicone tubes</td>
<td>Air compressor</td>
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<td>AIR INJECTOR A16</td>
<td>Maximum working pressure: 10 bar - 145 psi</td>
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<td>Air inlet: 400 l/min - 706 cfm</td>
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D360º COD. AC3120628
INJECTION SYSTEM BOX
Integrates the pump for nebulising chemical products. Compartment for module transportation. 20 m hose.

ACCESSORIES INCLUDED CONSUMABLES

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
BOX DIMENSIONS AND WEIGHT: (L x W x H): 600 x 400 x 270 mm - 12 kg // 23.6 x 15.7 x 10.6 inch - 26.5 lb
INJECTION PUMP: Flow 5.4 l/min Pressure 7 bar
INJECTION NOZZLE: Opening angle 160º. Droplet size 20 microns.

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

D360º 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.

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

TOTAL AREA OF AIR DUCT TO DISINFECT
ULTRAFINE 20 MICRON PARTICLES

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

COD. PQ8400113
DISINFECTION MODULE
360º 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.

TECHNICAL CHARACTERISTICS

DIMENSIONS AND WEIGHT (L x W x H): 600 x 400 x 270 mm - 12 kg // 23.6 x 15.7 x 10.6 inch - 26.5 lb
INJECTION NOZZLE: Opening angle 160º. Droplet size 20 microns.
S360º

360º SEALANT MODULE
App. Module application for sealing the interior of ducts with a double injection nozzle and a 360º 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

S360º COD. AC3120626

OPTIONAL ACCESSORIES
AIRLESS PUMP
High pressure pumping system of 220 bar and flow of 15 l/min.
ELASBIO: chemical sealant
19 litre cylinder
COD. PQ840030

COD. AC3120605