

# The Autonomous *AutoVacC™ 6*

## *Industrial Vacuum Cleaner.*

**AutoVacC 6** is a Robotized Industrial Vacuum Cleaner which can be used in 3 different ways:

- as a teaching-by-showing device for large offices, rooms or corridors
- as a remotely operated device, for hazardous areas or white rooms
- as an autonomous robot, for big halls (airports, shopping centers...)

During operation, ultrasonic sensors allow unexpected obstacles detection and avoidance, and a laser range finder is used for absolute localization.

Several optional technical features, such as floor tool motions, electrically adjustable depression and electrical lift of vacuum cleaner motor block make AutoVacC a true innovative product, easy to use by non technical workers.



### **TECHNICAL SPECIFICATIONS**

<b>Size</b>	115 cm (46") length, 70 cm (27") width, 130 cm (51") height.
<b>Weight</b>	about 300 kg , batteries included.
<b>Speed</b>	from 5 cm/s to 0.75 m/s
<b>Batteries</b>	4 (or 8)x12 Volts 60Ah sealed batteries (power supply 48 Volts).
<b>Motors</b>	2 x 300 Watts DC Motors, 48 Volts
<b>Steering</b>	differential steering, by using relative velocities of the 2 propulsive wheels.
<b>Positioning</b>	combining dead-reckoning and passive beacons on walls

### **Motion Controller**

VME bus, 68040 processors.

### **Programming**

Teaching by showing (with joystick)  
Remote manual control from a  
workstation

### **Vacuum cleaner**

Capacity of the tank: 70 litres.  
Depression (mm H2O): adjustable  
from 900 to 2000  
Air volume: 3900 l/mn  
Wide choice of tools  
Electrical lift of motor block for tank  
removal

### **Autonomy**

from 3 to 8 h, depending on  
operating mode and number of  
batteries

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