

Universal cleaning and ionizing MOS AIRBOX

- perfect solution for parts cleaning, including static charge removal
- strong air curtain and effective ionization
- 3 in 1 – blows efficiently, rids the product of static charge, sucks dirt
- automatic operation, choice of time modes



- effective ionization
- great variability
- simple installation, operation, maintenance
- universal, complex and mobile device
- dynamic nozzles
- control unit with 15 different timing functions

MOS AIRBOX was developed as a universal comprehensive solution for cleaning parts, including removal of static charge on their surface.

How it works

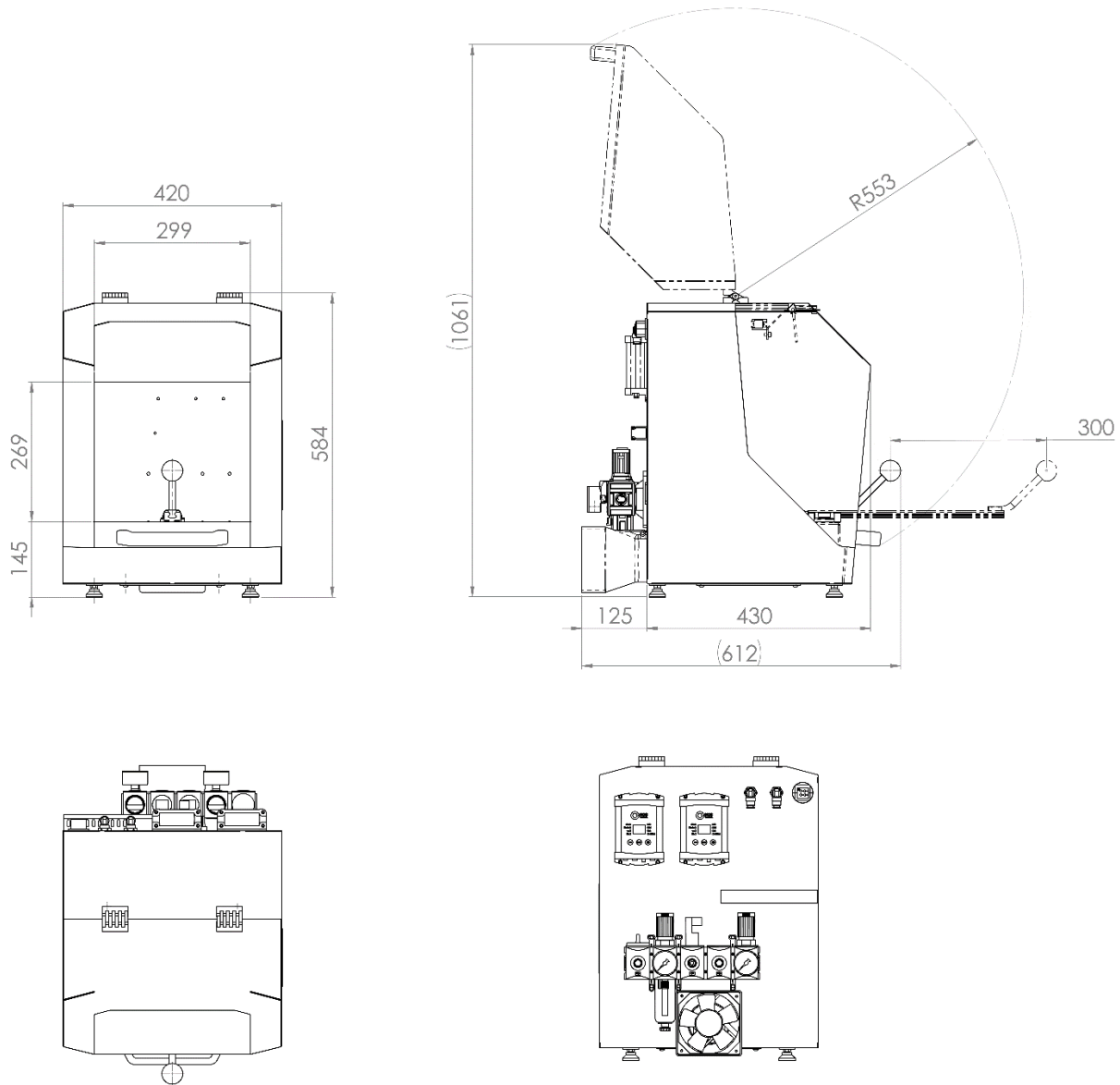
The operator, or the robot, places the part in the box space. Blowing and ionization are started automatically by an optical sensor, possibly by a superior signal, a button, or perhaps by a foot valve. The integrated MOS air knife ensures an effective blow and at the same time creates an air curtain of the inlet hole. In the box area, it is also possible to use rotating dynamic nozzles for perfect cleaning of the part. A strong DC ionization rod ensures an effective discharge of the static charge on the surface of the part.

Cleaning parts in the MOS AIRBOX will ensure an increase in the final cleanliness of the product, which is increasingly emphasized not only in the automotive industry.

Basic technical parameters of MOS AIRBOX

Compressed air connection	G 3/8"
Input voltage	24 V DC
Working pressure	3 - 8 bar
Ionization	DC ionizing bar 7 kV
Compressed air filtration	25 µm
Type of control timer unit	ACU - 24 V DC - 1

Dimensions



Optional accessories

The basis of the MOS AIRBOX is an air knife that creates an effective air curtain and also the ability to extract all blown dirt.

However, the box can include a variety of accessories, thanks to which you can adapt it exactly to your needs.

Below you will find a table of box variants according to its equipment.

BOX VARIANT	COMPRESSED AIR BLOW			IONIZATION	STARTUP				EXTRACTION			INSERTING		box lighting
	MOS air knife	additional nozzles	ionizing bar		optical sensor	hand valve	foot valve	superior signal	external	fan with filter	manual / robotic	on a fixture with a linear guide		
MAB-A	X	V			X			X			X			
MAB-B	X	V				X		X				X		
MAB-C	X	V			X			X					X	
MAB-D	X	V				X		X					X	
MAB-24-E	X	V		X				X			X			X
MAB-24-F	X	V			X						X			X
MAB-24-G	X	V				X		X				X		X
MAB-24-H	X	V			X		X	X				X		X
MAB-24-I	X	V		X						X		X		X
MAB-24-J	X	V			X						X		X	X
MAB-24-K	X	V			X		X				X		X	X
MAB-24-L	X	V		X			X			X		X		X
MAB-24-M	X	V			X						X		X	X
MAB-24-N	X	V			X		X				X		X	X
MAB-24-O	X	V		X		X					X		X	X
MAB-24-P	X	V			X					X			X	X
MAB-24-Q	X	V			X		X				X		X	X
MAB-24-R	X	V			X						X		X	X
MAB-24-S	X	V			X		X				X		X	X
MAB-24-T	X	V		X						X			X	X

purely pneumatic boxes

boxes with electrical equipment

X contains

V equipped with nozzles according to additional specifications

Additional nozzles

The MOS air knife creates an effective blowing curtain of the box. However, the MOS AIRBOX is structurally adapted to make it very easy to supplement it with additional blowing nozzles.

This variant is intended for blowing off parts with greater contamination or a more complex shape, where it is necessary to blow dirt out, for example, from grooves, holes, or other corners.

In this case, we are able to discuss the specific application with you and fit the box with exactly the nozzles that suit you best. We most often choose from these nozzles:

a) Coanda nozzles type CT-R



- nozzle with adjustable power, strong volume amplification effect and effective air flow

b) Rotating dynamic nozzles of the RRH "HURRICANE" type



- rotary nozzle with optimal speed regulation to achieve a strong dynamic blowing effect
- the nozzle has an adjustable blowing angle and thus easily reaches the necessary places

The nozzles are placed in the box using a tube system, spherical fittings and flexible MOS hoses so that the cleaning of your part is as efficient as possible.



Other important features of the MOS AIRBOX

- The box is equipped with high-quality pneumatic elements for controlling the blower. The input assembly is adapted to the selected variant of the box.



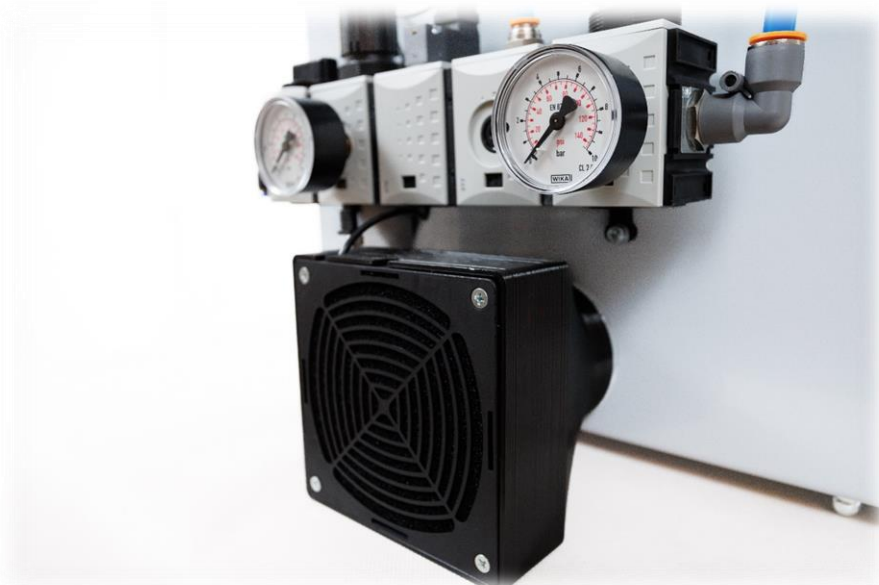
- ACU control unit. The unit allows for different settings and timings of the blow and ionization depending on their activation. This makes the **MOS AIRBOX** an even more versatile device.



- The possibility to open the box ensures simple access for cleaning the interior of the box and also for cleaning the pins of the ionization rod:

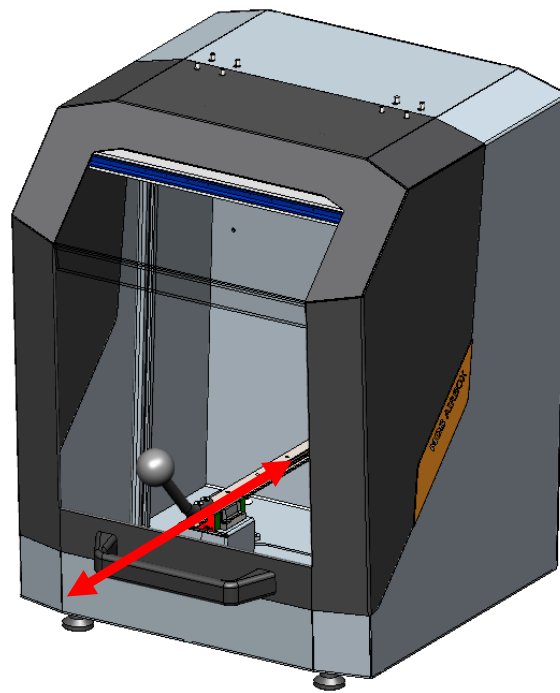


- The box is ready for simple connection to the customer's central extraction. In some variants, however, it is delivered with its own fan and filter that can be easily cleaned.



Loading the product into the box

- The design of the box is ergonomically adapted to make it possible to easily insert products into the box manually or by robot.
- MOS AIRBOX can also be used for applications where it is necessary to clean parts of greater weight or more complex shapes.
- In such a case, the box can be supplemented with a customizing fixture for the specific product. The operator then moves the fixture and the product into the box using a linear guide. This ensures that the product is always in the same position in the box and the correctly adjusted nozzles clean it perfectly!



Do you have questions? Do you want to
discuss Your specific application?

Please call +420 739 227 771. We'll listen, we'll figure it out.