

amt
postpro[®]



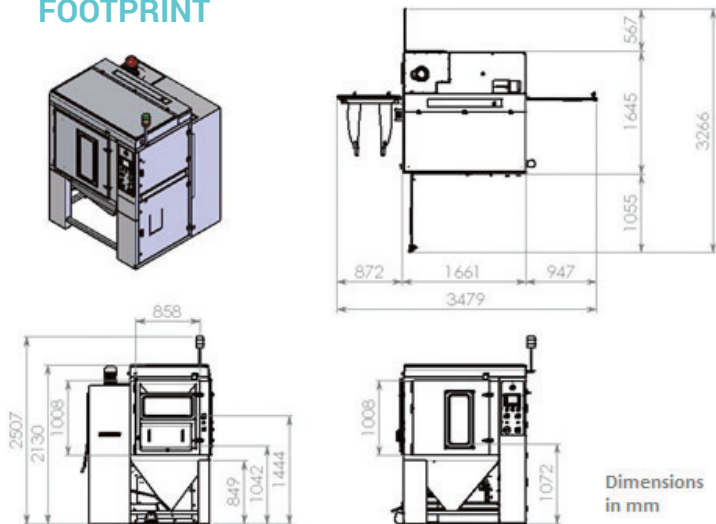
postpro[®] DP PRO
AUTOMATED
INDUSTRIAL
DE-POWDERING
SYSTEM

*SPECIFICATIONS SUBJECT TO CHANGE

CERTIFICATIONS

The POSTPRODP PRO is CE certified. The POSTPRODP PRO is designed to be used in processes where the consumable media and dust are combustible. There are safety components in the machine to reduce the risk of fire or explosion. Atex class is Class II 3/-D T257F°.

FOOTPRINT



TECHNICAL SPECIFICATIONS

Description	EU
External dimensions (w x d x h):	1.700 x 1.800 x 2.500 mm
Door opening front door:	1.100 x 970 mm
Door opening manual blasting:	875 x 970 mm
Basket with lining: •Dimensions •Approx. volume (depends on size and form of products) • Maximum load	Ø 500 x 320 mm 20 liter 20 kg
Blast guns basket (2 pieces):	Hardened blast guns with boron carbide nozzles (Ø 8mm)
Filter cartridges (polyester, M-class):	2 filter cartridges of 4 m ² each
Door opening front door:	1.100 x 970 mm
Capacity ventilator:	900 m ³ /h (1,1 kW)
Dust emission:	< 1,8 mg/Nm ³
Option: HEPA filter with dust emission of:	< 0,1 mg/ Nm ³
Atex classification:	class II 3/-D T125°C
Lighting:	LED light 50 Watt
Electrical connection:	3 x 400V, 50hz, earth and zero, 25A
Total power consumption:	3,0 kW
Min. Pneumatic flow rate:	Minimum 2.02m ³ /min
Cabin weight (complete):	ca. 1.000 kg
Pneumatic connection/pressure:	3/4 inch air supply hose, 6 bar

SYSTEM DESCRIPTION

Construction: All components are assembled into one compact unit. Cabinet has an ergonomic working height.

BASKET:

The dimensions of the stainless-steel basket are 500 x 320 mm with an effective volume of 20 liter. The basket has a plastic lining.

ANGLE ADJUSTMENT:

The basket tipping angle is electrically actuated and can be adjusted for different geometries and loads.

NOZZLE HOLDER:

After the cleaning cycle the nozzle assembly is automatically lifted allowing the operator to easily unload the machine.

DOORS:

Both doors are designed with a sandwich construction to obtain a perfect seal.

Safety switches prevent the use of the machine when the doors are open. During the process the doors are automatically locked.

IONISATION:

The combination of blast media and material of the product can cause static electricity which makes dust "stick" to the surface. The POSTPRODP PRO is equipped with an ionisation unit which reduces this static electricity and therefore results in a "dust-free" product.

This ionisation unit also is Atex certified.

CYCLONE:

The cyclone ensures perfect blast media cleaning and a constant operating mixture (= constant blasting result). An additional coarse screen also has been installed to prevent clogging of the mixing chamber.

EXTRACTION:

A ventilator system with a high extraction rate has been installed to prevent the windows from getting dusty. Cleaning of the filters is fully automatic. Cleaning pressure is adjustable via an additional pressure regulator.

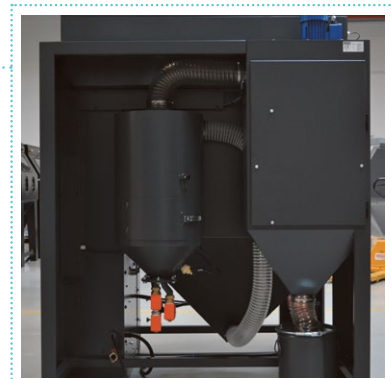
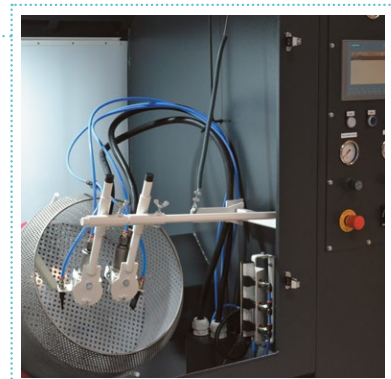
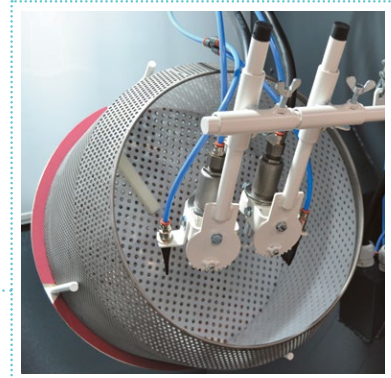
DUST BIN:

The dust from the filter unit is collected in a sealed dust bin.

SWITCH BOX:

A control cabinet with Siemens S7-1200 PLC has been installed to control the machine.

In addition to the correct completion of the process, the automatic filter cleaning is also controlled and the various safety devices such as door closures and emergency stop are monitored, as well as the abrasive level, blasting pressure, dedusting time, etc. are checked.



SYSTEM DESCRIPTION

HMI / TOUCHSCREEN:

All parameters and recipes can be programmed here and the number of operating hours, messages, etc. can also be read.

BLAST PRESSURE AUTOMATIC BLASTING PROCESS:

This is adjustable via the pressure regulator. Optionally this can be done via the HMI so that different presets can be used for each recipe.

MANUAL BLASTING:

If larger parts need to be blasted, the POSTPRODP PRO has an extra provision for this.

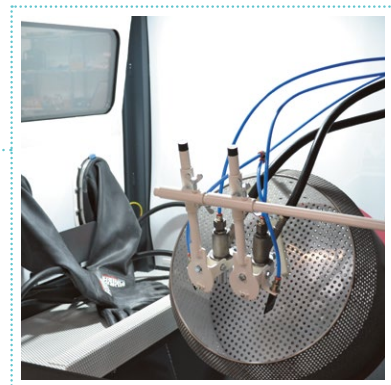
You can blast manually via the side door. An additional blasting gun has been placed for this purpose, so that no gun needs to be dismantled above the turning basket.

The blasting pressure is adjustable independently of the blasting pressure of the automatic process.

Products can be cleaned with the extra blow off gun.

The oval arm holes ensure optimum freedom of movement for the operator. Gloves are available in different sizes and are tricot-lined.

Noise level: Low noise level due to the installed silencer (<80dB(A) at 58 psi).



SYSTEM OPERATION

IN THE CASE OF THE **AUTOMATIC** BLASTING PROCESS (= USE OF BASKET):

- Products are placed in the large sized basket through the opened front door.
- One of the recipes is chosen on the HMI (= touchscreen). In this recipe, the various parameters such as angle of rotation, speed, blast time, blow-off time etc. can be set.
- Blast pressure is adjustable via the pressure regulator or optionally via the HMI.
- After closing the door and starting the process, the complete cycle is automatic and consists of:
 - Extraction and filter cleaning is started;
 - Basket goes to the set angle and speed to get optimum movement;
 - Holder with blasting and blowing nozzles comes in the most ideal blasting position and blasting starts;
 - An ionization unit is activated to remove the static electricity (= dust attachment);
 - The products are blown off after the blasting process;
- Subsequently, the holder with blast and blow-off nozzles goes up, so that the basket ergonomically and can be unloaded.
- Basket goes to the most ideal angle to be able to unload / load.

SYSTEM OPERATION

IN THE CASE OF THE **MANUAL** BLASTING PROCESS:

- The protective plate for the gloves is removed and placed on the bracket.
- The blast pressure can be adjusted using the pressure regulator placed next to the door.
- After closing the door and operating the foot pedal, extraction, filter cleaning and blasting starts.
- An additional blasting gun has been placed for manual blasting, so it does not have to be removed at the basket.
- Blast media, dust and contamination are sucked out of the blast chamber to the cyclone via the suction hose.
- The dust and contamination is removed from the blasting media in the cyclone.
- Dust is removed in the filter. Dust collection is in a sealed dust bin.
- The filter is cleaned automatically via reverse air pulses.

CONSUMABLES

The cabinets are suitable for all common abrasives such as corundum, glass beads, ceramics, nut shells, plastic and fine grain sizes of stainless steel and steel.

To determine which abrasive is most suitable for your process, AMT can perform tests and provide advice free of charge.

Delivery of all types of abrasive is normally out of stock.

WARRANTY

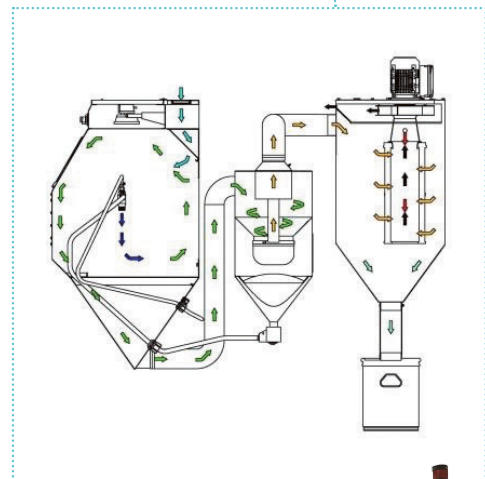
The warranty period is 12 months after delivery and applies to material and construction defects. Parts subject to normal wear and tear are excluded from this.

In the event of a warranty case, the parts will be sent free of charge.

During the warranty period, only blast media and parts from AMT may be used without permission.

The compressed air must be clean and dry and must comply with ISO8573.1 Class 4.

Products to be blasted must also be dry and free of grease.





CONTACT INFORMATION

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