

# RB-600 AH 2 – Wire mesh belt continuous shot-blasting machine



## Application

The RB-600 AH 2 wire mesh shot-blasting machine is mainly suitable for the low investment cost de-rusting, de-scaling and cleaning of

- Small castings made of aluminium or steel
- Small forged parts made of aluminium or steel
- All smaller parts that cannot be bulk blasted
- Marble and granite rocks and bricks for decoration purposes

## Description

The machine is equipped with 2 pieces of ABR 380 type blasting turbines. These turbines are situated above the wire mesh conveyor top level to ensure the possible best covering of the top surface of through-pass cross section. Blasting is done in an angle of  $\sim 70^\circ$  to the direction of proceeding to reach lengthened covering.

The turbines are gravity fed with abrasive material, they have eight blasting blades and a pre-accelerator and they allow precise blasting direction adjustment.

The inner surfaces of the machine in the active zone are covered with highly wear-resistant manganese steel, other inner parts are protected by wear-resistant rubber sheet. This rubber cover has noise-reducing effect as well. wires in the machine house are made of highly wear resistant spring steel to provide suitable lifetime for the conveyor.

The three-layer rubber curtains at the inlet and outlet sluice prevent the high velocity abrasive particles from shooting out.

The closed and continuous circulation of the shot-blasting media is ensured by a screw conveyor, bucket elevator, abrasive cleaning air classifier unit and a feeding unit. In foundries an additional magnetic drum separator is built in the machine to separate forming sand from the circulation.

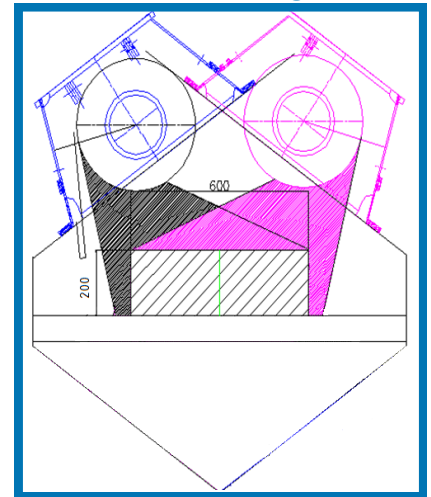
The clean work-piece is de-dusted by a high pressure blow-off fan built on the exit section of the machine with adjustable height.

The dust-aspirating and separating system of the equipment consists of galvanized steel air-ducts, form-elements, aspiration fan and filter cartridge inserted dust-separator.

Dust emission after the filter is not more than  $3\text{mg}/\text{m}^3$ .

All functions of the machine can be controlled from the central control box. Besides the normal mode of operation (automatic mode) manual mode is also available for maintenance purposes.

## Blasting pattern



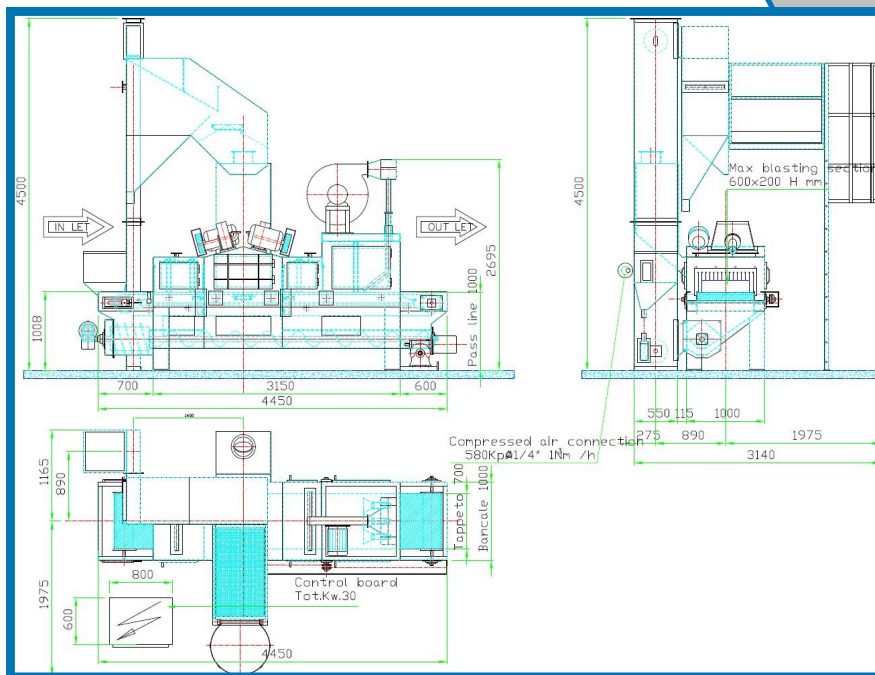
Due to the 2 blasting turbines on the top this machine provides fast cleaning speed for this cross section on one side.

## RB-600 AH 2





## Dimensions /RB-600 AH 2/



## Technical specifications

Through-pass width	mm	600
Height	mm	200
Min. work-piece length (shorter pieces can be cleaned by means of a so-	mm	about 1000
<b>Turbines</b>		
Number	piece	2
Type		ABR-380
Diameter	mm	380
Revolution speed	1/min	2800
Abrasive flow rate/ turbine	kg/min	120
<b>Wire mesh conveyor</b>		
Loadability	kg/m	500
Speed range	m/min	0-4
<b>Energy demand</b>		
<b>Electrical</b>		
Basic machine	kW	25,8
Dust aspiration	kW	5,5
<b>Compressed air</b>		
Pressure	bar	min.6
Quantity (filter)	m <sup>3</sup> /h	10
<b>Abrasive load</b>		
Proposed abrasive particle size	mm	0,4-1,2
Aspiration air flow	m <sup>3</sup> /h	8000
Filtration surface	m <sup>2</sup>	168
<b>Electrical data</b>		
Mains voltage	V	3 x 400
Control voltage	V	220
Frequency	Hz	50