

RB-600 AH 4 – Wire mesh belt continuous shot blasting machine



Application

The RB-600 AH 4 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

Description

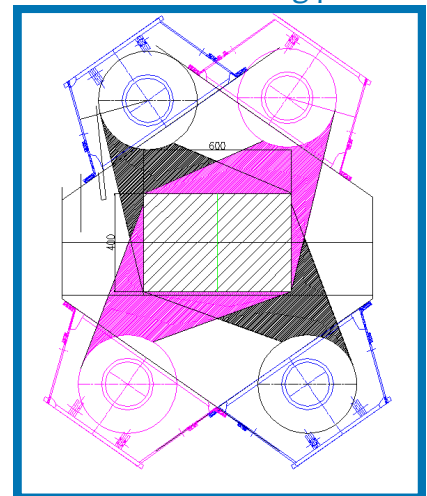
The machine is equipped with 4 pieces of ABR 380 type blasting turbines. 2 of these turbines is situated above the wire mesh conveyor top level and the rest of the turbines are placed under it to ensure the possible best covering of the through-pass cross section. Blasting is done in an angle of $\sim 70^\circ$ 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.

Blasting pattern



Due to the 4 blasting turbines this machine provides fast cleaning speed for this cross section.



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 $3\text{mg}/\text{m}^3$.



RB-600 AH 4

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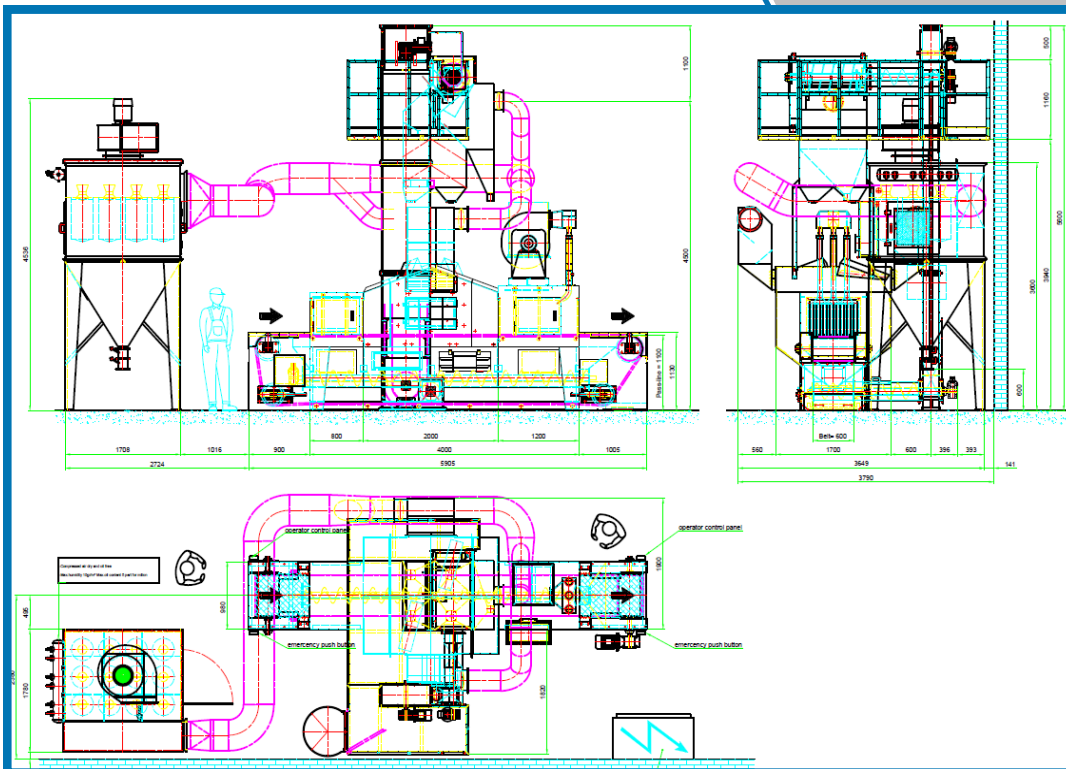
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Main dimensions /RB-600 AH 4/



Technical specifications

Through-pass width	mm	600
Height	mm	400
Min. work-piece length (shorter pieces can be cleaned by means of a so-called auxiliary frame)	mm	about 1000
Turbines		
Number	piece	4
Type		ABR-380
Diameter	mm	380
Wheel speed	1/min	2800
Abrasive capacity / per turbine	kg/min	120
Wire mesh conveyor		
Loadability	kg/m	500
Speed range	m/min	0-4
Energy demand		
Electrical		
Basic machine	kW	45,5
Dust aspiration	kW	7,5
Compressed air		
Pressure	bar	min.6
Quantity (filter)	m3/h	12,5
Abrasive charge	kg	~1000
Proposed abrasive particle size	mm	0,4-1,2
Air to be aspirated	m3/h	10500
Filtering surface	m2	252
Electrical data		
Mains voltage	V	3 x 400
Control voltage	V	220
Frequency	Hz	50