

RB-3000 Roller-path type shot-blasting machine



Application

The RB-3000 shot-blasting machine is mainly suitable for the de-rusting, de-scaling and cleaning of

- steel plates
- bar and sectional steel, pipes, profiles
- welded steel constructions.

Description

The machine is equipped with 8 pieces of ABR 500 type blasting turbines. Four of these turbines are situated above the roller-path top level and the other four ones are placed under it to ensure the optimal covering of the through-pass cross section. Blasting is done in a perpendicular angle to the direction of advancement.

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. Rollers in the machine house are also protected from the abrasive media by rubber cover that ensures quiet, slip-free conveying.

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

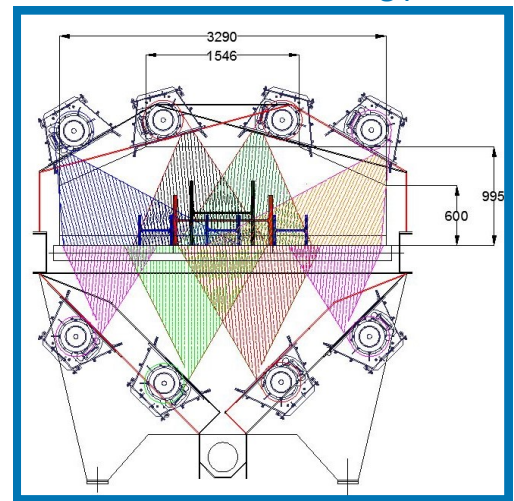
The closed and continuous circulation of the shot-blasting material is ensured by a screw conveyor, bucket elevator, abrasive cleaning wind-sifter unit and a feeding unit.

The clean work-piece is de-dusted by a brush cleaning aggregate built on the exit section and a blower fan.

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.



Blasting pattern

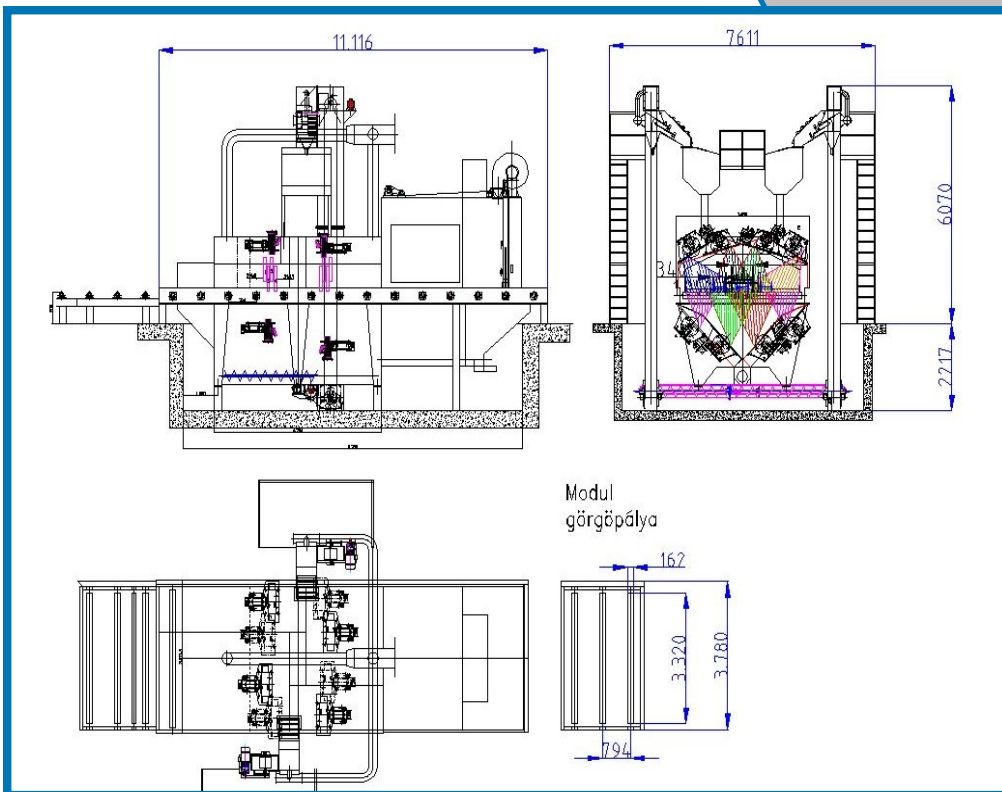


RB-3000





Measure print /RB-3000/



Technical data

Through-pass width	mm	3000
Min. work-piece length (shorter pieces can be cleaned by means of a so-called auxiliary frame)	mm	about 1500
Max. height of work-piece	mm	995x1540 600x3000
Turbines		
Number	piece	6
Type	ABR-500	
Diameter	mm	500
Wheel speed	1/min	2600
Abrasive capacity / per turbine	kg/min	150-300
Rollerpath		
Loadability	kg/m	2500
Speed range	m/min	0-4
Energy demand		
Electrical		
Basic machine min./max.	kW	107/160
Dust aspiration	kW	15
Compressed air		
Pressure	bar	min.6
Quantity (filter)	m ³ /h	15
Abrasive charge	kg	3000
Proposed abrasive particle size	mm	0,4-1,2
Air to be aspirated	m ³ /h	15000
Electrical data		
Mains voltage	V	3 x 400
Control voltage	V	230
Frequency	Hz	50