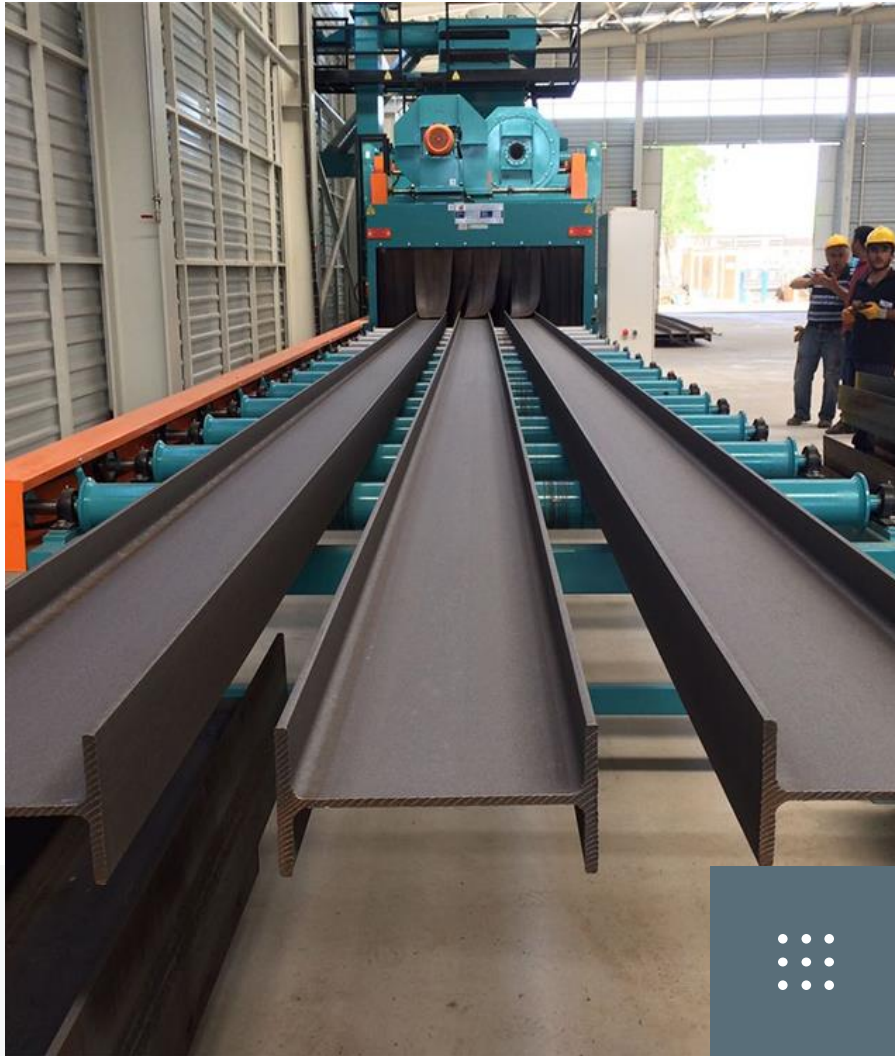




BPBLINE Sheet Metal and Profile Shot Blasting Machine



proton
MASCHINENBAU GMBH



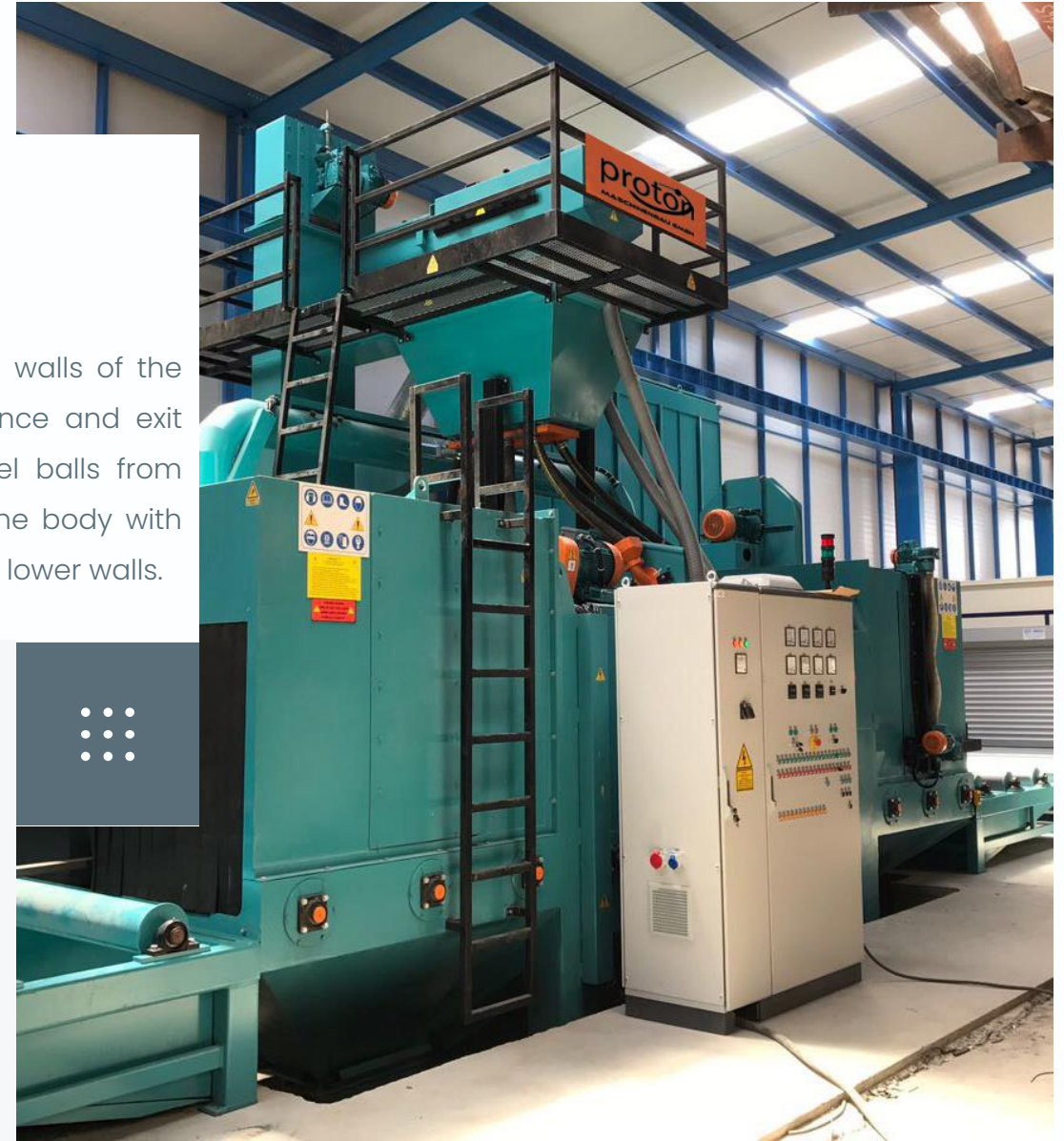
We offer you that best workmanship

Continuous blasting machines are manufactured with the best available materials with a long service life and high productivity in mind for use in the metal industry. Since the steel balls used in the cleaning operations in the machine abrade the material being cleaned, they will of course also abrade the machine itself. In order to keep this abrasion as low as possible, specially manufactured materials are used in the manufacture of the machines.



Robust and Durable Main Cabinet

The main cabin is made from 10 mm. made of thick sheet metal. The walls of the blasting room are completely covered with 10 mm Hardox-500. Entrance and exit tunnels are covered with high quality rubber curtains to prevent steel balls from escaping outside. There are 4-6-8-10-12 turbines placed on the machine body with suitable angle. Half of the turbines are located in the upper half and in the lower walls.



Easy to use and optional features

According to the operating program, the control cabinet is designed to be in AUTOMATIC PROGRAM. As intended by the SCHNEIDER product control cabinet, the parts to be processed are automatically ground according to the setting of the intermittent relay. The IP level of the panel is IP54.

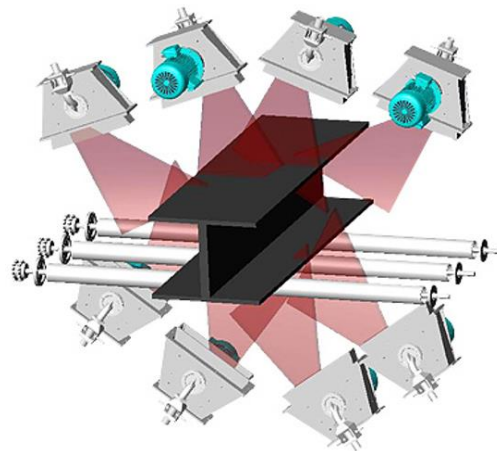
Applied standards

The standards used are IEC61439 Low-voltage switchgear and switchgear assemblies Part 1 and IEC60529 Degrees of protection through enclosures. The directives applied are the low voltage directives 2006/95/EEC and 93/68/EEC CE.



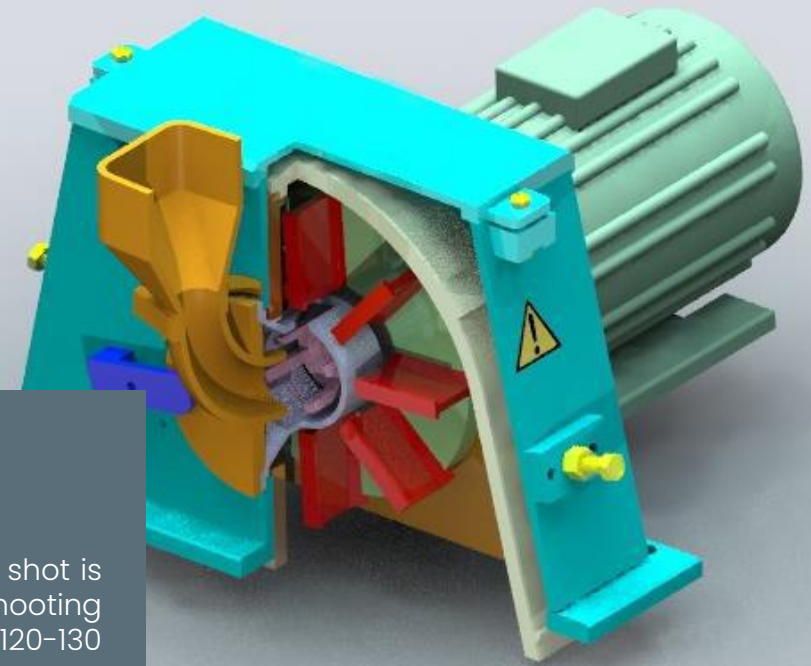
Powerful Turbines

Turbines are of coupled type. They can pulverize 7,000 kg of steel shot in one hour. The internal coating is covered with 12-14 and 16-18 Mn plates and cast with a conformal prescription with the abrasion times in Western standards. Similarly, the blades, hoppers and shot distributors that directly pulverize the steel balls are manufactured to NI-HART 4 quality. The turbine engine output is 11 kW / 3000 n.



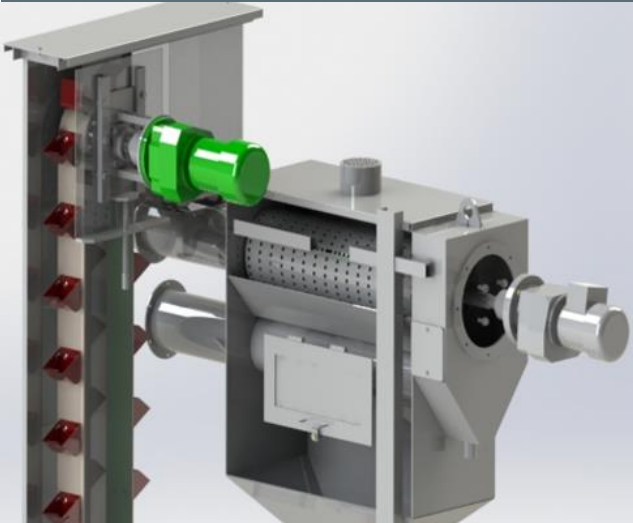
8 Blades

The throwing speed of steel shot is 70-80 m/sec. The shooting performance is (approx.) 120-130 kg/min.



Separator

There is a separator that separates dust and foreign parts. When the dust is removed from the system, the clean steel granules are collected in the separation container. It is of the rotary screen type.



BUCKET ELEVATOR

The elevator channel is made of 5 mm thick sheet metal. The buckets are made from 3 mm thick sheet metal.

The elevator band has 5 layers of Cort fabric. The belt adjustment can be easily done with a tensioner. There is a maintenance door on the elevator channel.

SCREW CONVEYOR



The screw conveyor is designed with a spiral made of structural steel and transports the steel granules. There is a Hardox-500 steel plate on top to prevent large parts from falling into the screw conveyor. And this steel plate also protects the screw conveyor from rapid wear.

ROLLER TABLES



They will be 1-6 m./min. moves with adjustable speed inverter. The speed is adjusted according to the desired jet depth. There is a screw conveyor under the exit roller table. This collects emerging granules at the exit and transports them to the main screw conveyor. The roller tables are 80 cm above the ground.



Dust-Free Working Environment

The filter type is a JET filter with dust bags. Dust bags are used in the filter. The bag size is 160x2000 mm. and is made of polyester needle felt bags.

The air requirement is 7 bar/1500 lt/min. The height of the filter is 6.00 meters. Galvanized bag bodies, solenoid valves, collectors, water separators, pre-buckling hoppers, hoppers, support legs, maintenance covers, maintenance platform, check-in check-out pipes are fully assembled.

The filters feature the latest technology and automatically clean the bags with compressed air at 7 ATM.

Output Cleaning System

We have a special brushing system. The brush can easily eject all steel balls. There is also a blower fan. It blows out all the granules at the outlet. The engine power is 18.5 kW.

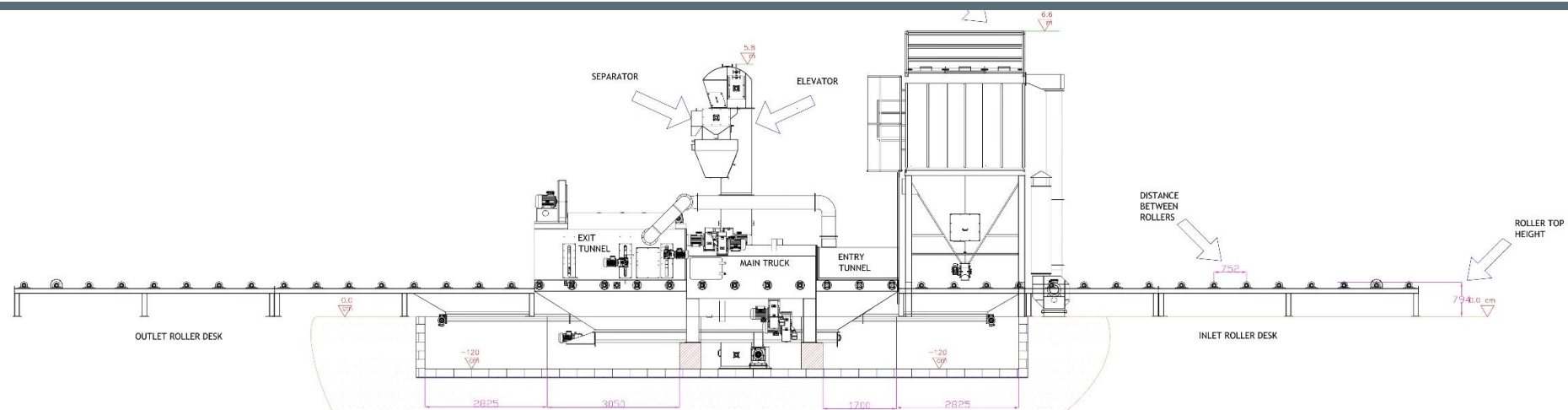
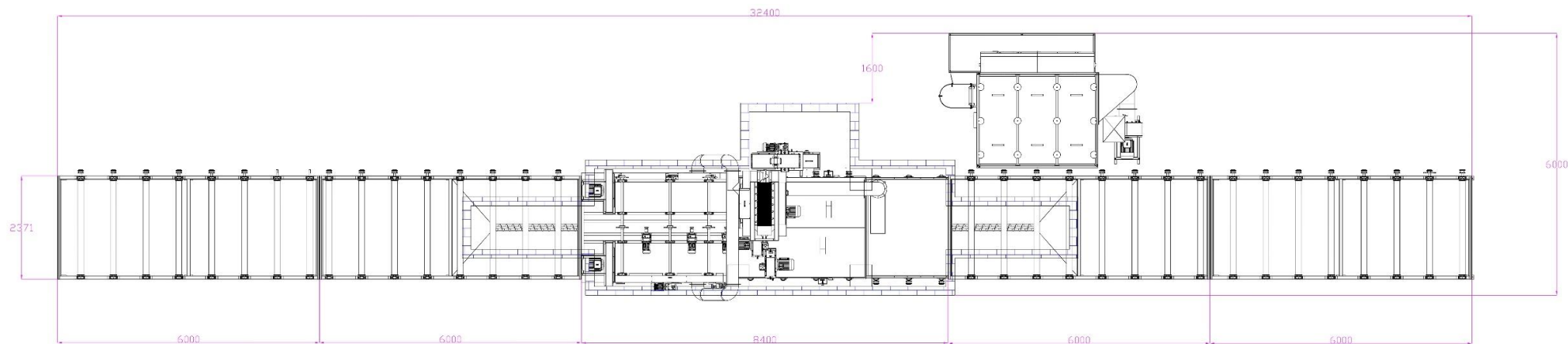


Standard Models

Model Name	Net Blasting Dimensions		Number of Turbines (Pcs.)	Turbine Performance (KW.)
	Width (mm.)	Height (mm.)		
BPB LINE 1250x500X4	1200	400	4	11
BPB LINE 1250x500X6	1200	400	6	11
BPB LINE 1500X500X4	1400	400	4	11
BPB LINE 1600X500X4	1500	400	4	11
BPB LINE 1600X800X4	1500	700	4	11
BPB LINE 1500x1000x8	1400	900	8	11
BPB LINE 2100x500X8	2000	400	8	11
BPB LINE 2100x1000X8	2000	900	8	11
BPB LINE 2600x800X8	2500	700	8	11
BPB LINE 2600x1200X10	2500	1100	10	11



EXAMPLE OF A TECHNICAL DRAWING





BEFORE



AFTER





Let Us Keep in touch

PROTON Maschinenbau GmbH is one of the leading manufacturers that, with 40 years of experience, exports sandblasting, wet paint and powder coating systems, turnkey paint shops and surface treatment systems to more than 30 countries.

Proton Maschinenbau GmbH

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