



Siapro 800×400 Mesh Belt Shot Blasting Machine in ATEX Design for Blasting Aluminum Castings

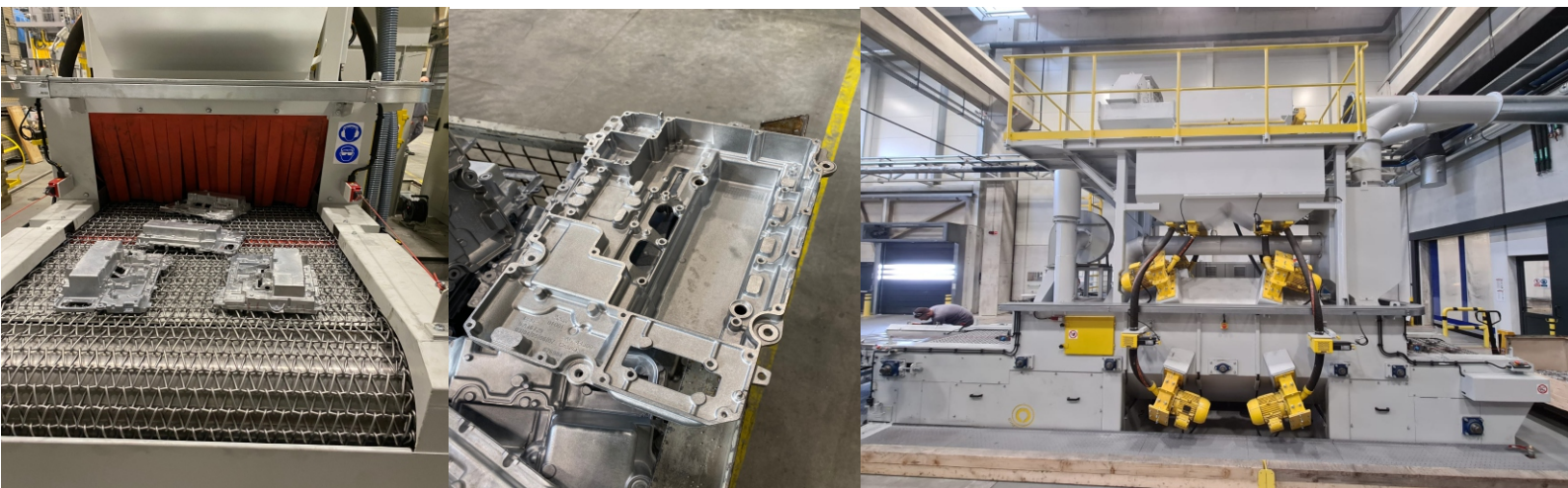


Shot blasting machine is in operation in Croatia and allows customers to use either standard or aluminum abrasive. This requires larger recuperation systems due to the higher flow rate of aluminum. Buyers can choose the abrasive type best suited to their needs.

Cleaning speed: This machine is designed for shot blasting aluminum parts, delivering high production speeds of around 5 m/min or more. We customized the shot blasting machine for adjustable speeds based on workpiece type. Machine is equipped with 8 E.ECO Siapro turbines, each with a power rating of 7.5 kW.

Options: An optional rubber conveyor is available at the exit, followed by a pneumatic system that returns the abrasive back into the machine. Additional options include a rotary screen in the sand cleaner, which automatically filters out larger particles from the abrasive. A frequency converter is recommended to control turbine power and adjust surface roughness based on workpiece shape and weight.

The machine's dimensions are 6.2 m in height, 7.2 m in length, and 3.6 m in width. The machine has a 1-meter loading area at the entrance and a 1.5-meter unloading area at the exit.





The machine is currently operational at a customer's facility in Norway specifically designed for the foundry industry to blast large castings. It is equipped with 8 E.ECO turbines, each with 22 kW of power for shotblasting. A vibrating sieve is installed beneath the machine to efficiently remove larger sand particles and broken fragments from the recuperation system.

Special applications: One special feature is a pulsed blow-off system with high-flow nozzles and pressurized air, providing a strong airflow for thorough post-blast cleaning. While highly effective in these environments, this system consumes significant air volume. The machine has a capacity of approximately 12 t/h for castings, with a dedusting system supplying around 24,000 m³/h of airflow. Machine has 8.1 m in length, 4.5 m in width, and 7.4 m in height.

Additional applications: Additionally, a robust lamellar conveyor, 18 m long and 1.2 m wide, accompanies the machine to efficiently transport pieces to the blast chamber. Machine is housed also within a chamber for noise reduction.





Siapro RWB 1000×400 Mesh Belt Shot Blasting Machine with Energy-Saving E.ECO Turbines Operating in the Slovenian Market

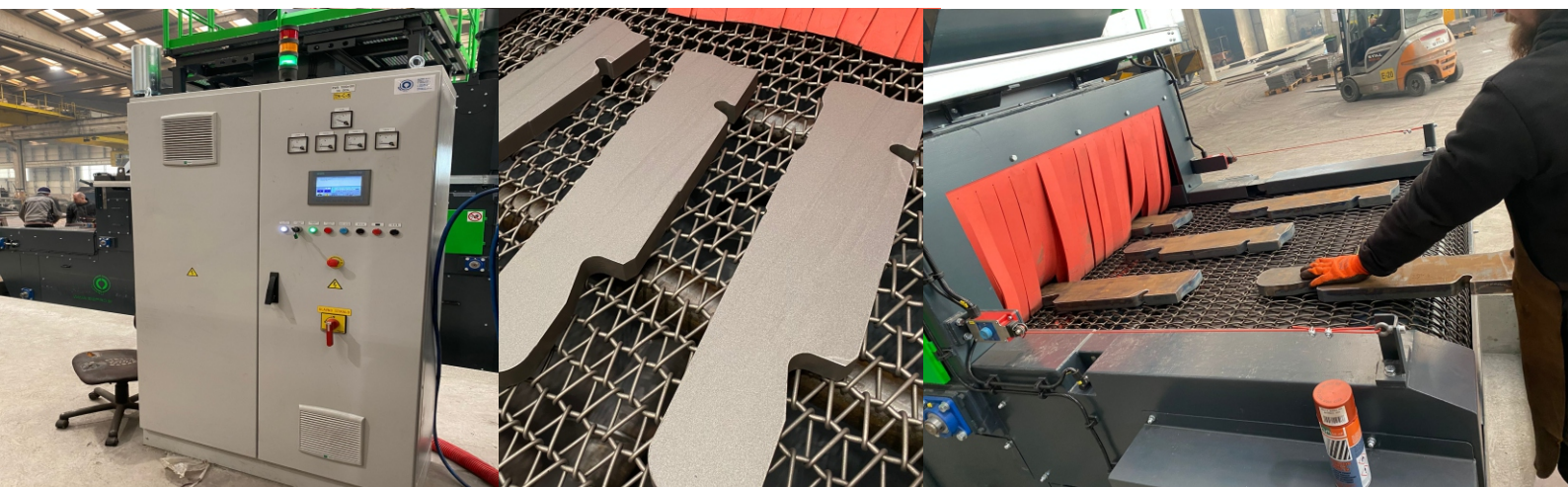


The machine is operational in Slovenia's domestic market. Machine is equipped with 4 Siapro E.ECO turbines, each with a 7.5 kW power output, and a filter capacity of 7,000 m³/h. It is designed for shotblasting steel plates with standard steel shot abrasives, effectively removing plasma embrittlement from plate edges after plasma cutting.

Standard model: This model is a standard in our product line. It is offering fast delivery, high production speeds, and low maintenance requirements. Thanks to our modular technology and standardized parts, installation time is significantly reduced. Our precisely calibrated turbines also ensure reduced noise emissions.

E.ECO turbines Siapro: E.ECO turbines offer the following advantages:

- Blade lifespan that is 8 -10 times longer than other standard turbines on the market
- Approximately 20% increase in blasting capacity
- 10% lower abrasive consumption per machine
- Vibration-free operation, with turbines precisely balanced to within 1 gram for optimal performance.





The shot blasting machine is located at a customer site in Slovenia. It is a wire mesh belt shot blasting machine, equipped with 8 E.ECO turbines, each with a 320 mm diameter and a 7.5 kW power output, achieving a cleaning speed of approximately 5 m/min. This machine is designed to clean aluminum workpieces using aluminum blasting media. This requires an ATEX certification due to the environment's explosive potential, specifically for the filter.

Working in ATEX environment: The filter, designed for ATEX compliance, is constructed with thicker sheet metal and equipped with additional pressure-release hatches near the cartridges to manage pressure in the event of an explosion caused by aluminum dust. We offer optional ATEX or standard filter upgrades, including non-return valves in the filter ducting, an automatic fire suppression system in case of explosion or fire within the filter, and a system to monitor filter cartridge clogging.

