

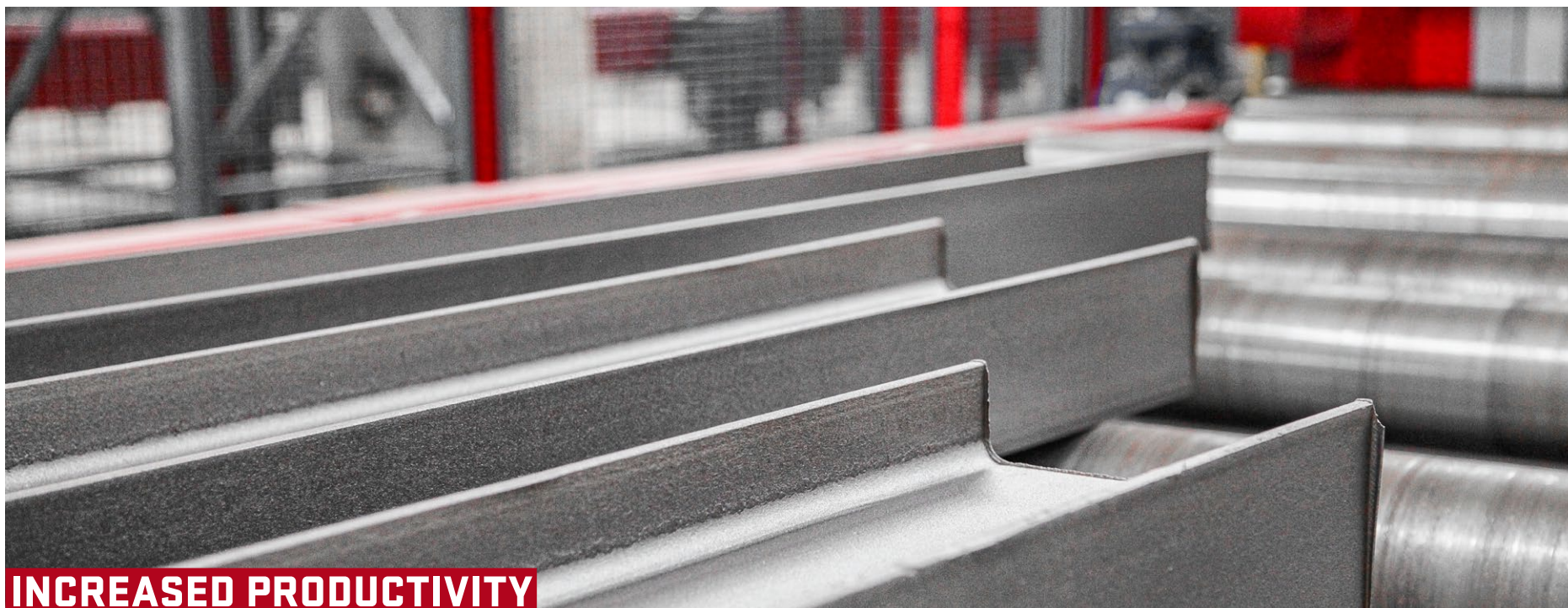
A large industrial shotblasting machine with a grey body and red structural elements. The machine is positioned in a spacious industrial facility with a high ceiling and steel beams. A long metal beam is being processed by the machine. The Voortman logo is visible on the side of the machine.

VOORTMAN VSB RANGE AUTOMATIC SHOTBLASTING MACHINE

INCREASED PRODUCTIVITY AND REDUCED LABOUR COSTS

The Voortman VSB Range automatic shotblasting machine is designed using the highest quality components for shotblasting plates and profiles for an optimally finished surface.

- Pre-installed blasting programs.
- Automatic functions.
- Easy to learn how to operate the machine.
- Compact design reduces floor space requirements.
- Minimal floor space is required when combining the shotblasting process with spraying, preheating, drying and a blow-off unit.



INCREASED PRODUCTIVITY AND REDUCED LABOUR COSTS

AUTOMATIC SHOTBLASTING

The Voortman VSB range is one of the most highly automated shotblasting machines on the market.

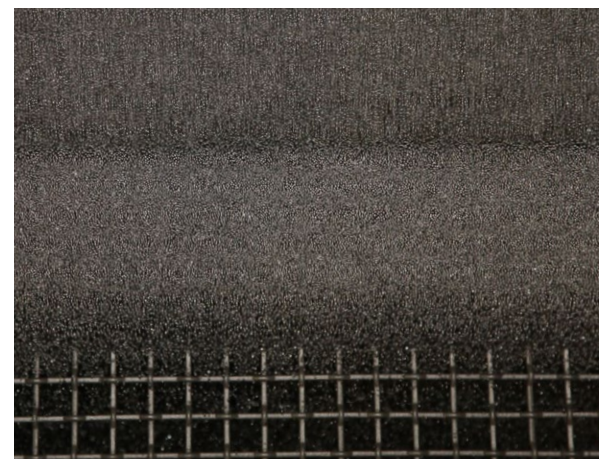
- Reduces labour costs.
- Increases your productivity with automatic functions in the turbines.
- Batch processing of products and profiles.
- Adjustment of brush height and outfeed for further distribution over the production line.
- Automated infeed and outfeed requires very little manual intervention or supervision from your operator.

LONGER LIFESPAN

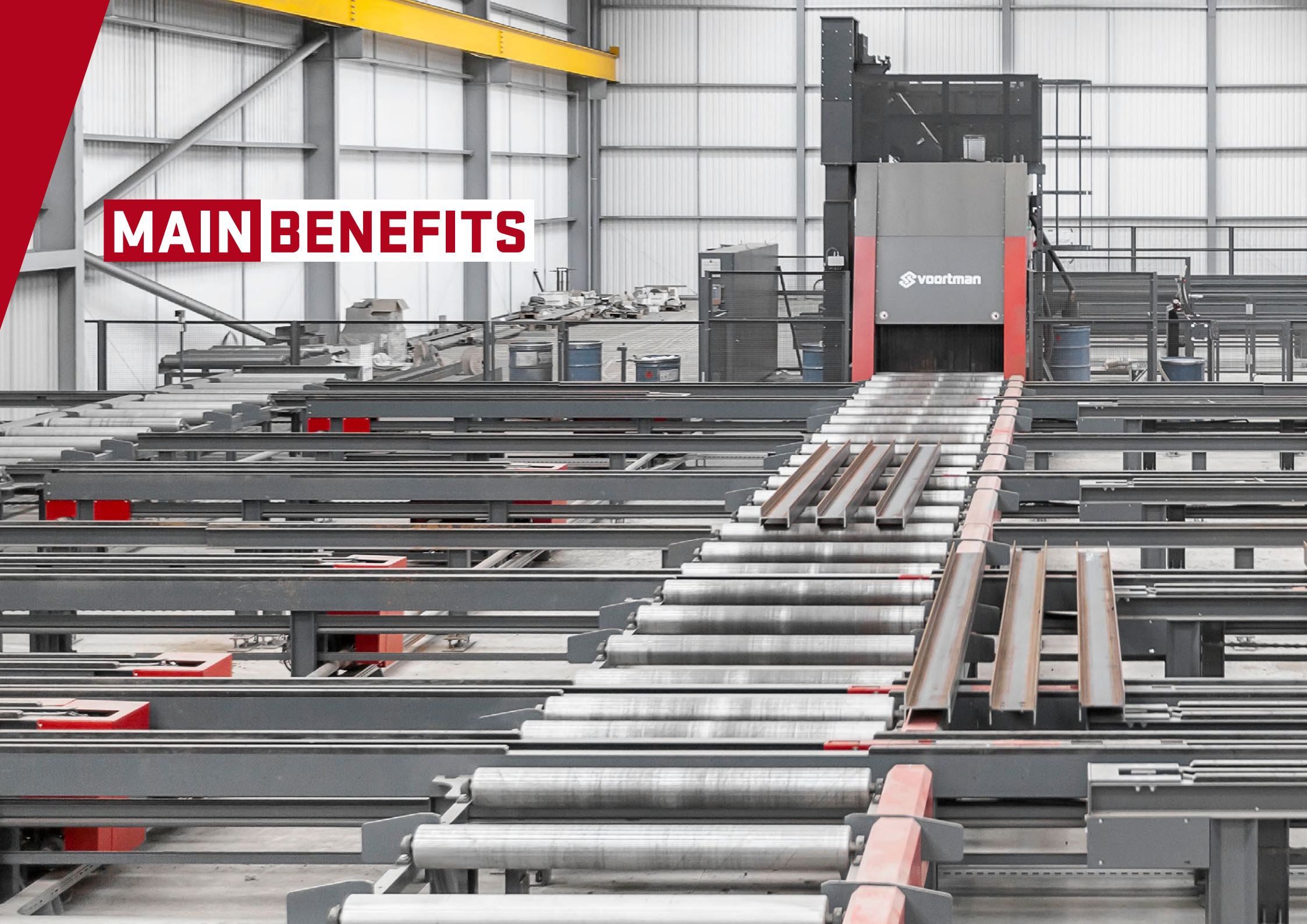
The Voortman VSB shotblasting machine is built with superior quality and proven reliability.

- The VSB housing consists of:
 - Three layers of steel.
 - Sequential blast pattern.
 - Optional modules for preheating and spraying.

Steel is cleaned faster in a shorter time. Energy is saved and the need for spare parts is reduced.



MAIN BENEFITS



MAIN BENEFITS

AUTOMATIC BATCHING AND SPACING ADJUSTMENTS

The Voortman VSB automatically groups profiles and/or products to achieve optimal blast results.

- Automatic infeed and batching.
- Operator does not need to intervene with spacing the profiles before shotblasting.
- The system automatically moves the profiles to their proper position and spacing.

AUTOMATIC BRUSH HEIGHT POSITIONING

- Abrasive is removed after shotblasting by a brush automatically positioned to the correct height above the material.
- The Voortman VSB automatically detects the height based on the profiles.
- Positions the brush at the correct height for better removal of blasting grit.

MAXIMUM SURFACE CLEANING RESULTS

- After shotblasting, clean material surface with noticeable results.
- The Voortman VSB turbines are placed sequentially and the beam angles are adjusted according to the profile dimensions.
- Grit from one turbine does not interfere with the other turbines.
- Shotblasting is efficient.



SEAMLESS INTEGRATION IN FULLY AUTOMATED PRODUCTION LINE

When the Voortman VSB is part of a larger layout (MSI), profiles are automatically distributed efficiently across the machines with the required operations. Your product is fabricated without manual operator intervention. If the Voortman VSB shotblasting machine is at the end of an MSI line, the system automatically recognises the profiles that need to be blasted when the system detects them.

ONLY BLAST WHEN MATERIAL IS PRESENT

- Voortman VSB automatically detects the material dimensions.
- Grit is only blasted when material is present.
- Reduces wear on the blasting system.
- Saves cost of shotblasting consumables.
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MAIN BENEFITS

PREHEATER AND SPRAY PAINTING LINE

- A preheater can be installed to create a complete surface treatment line for blasting and spray painting.
- Moisture is removed from the nested profiles, maximising surface cleaning effects with the Voortman VSB.
- In a complete blasting and paint spray line, gas consumption is reduced.
- Excess heat from the preheater is used in the drying tunnel of the painting system.
- Operating costs are saved.

AUTOMATIC ADJUSTABLE TURBINES FOR MAXIMUM BLASTING POWER

- When blasting wide plates, the outer turbine angles are automatically adjusted to provide maximum blasting power over the entire width.
- When blasting profiles, which are placed centrally on the roller conveyor, the outer turbine angles are adjusted to direct more blast power towards the centre of the roller conveyor.
- Big advantage: higher speed due to smaller width and less wear and tear on the machine.



DURABLE MACHINE FOR EXTENDED LIFE

The Voortman VSB shotblasting machine is built for long life with multiple features integrated into the machine to minimize wear and tear.

- The Voortman VSB housing consists of a triple-steel layer.
 - A sequential blast pattern.
 - Optional modules for preheating and spraying.
 - Steel gets cleaner in less time.
- Energy is saved and the need for spare parts is reduced.

OPTIMAL BLAST PATTERN

The right combination of profile position, conveyor speed and turbine direction is important for an optimal blast pattern and maximum blast results.

- The Voortman VSB controls the parameters automatically.
 - Manual labour costs are reduced.
 - Because of this automation, operators do not have to monitor an optimal mix of settings during shotblasting.

MAIN BENEFITS

USER-FRIENDLY MACHINE

The Voortman VSB is easy to maintain with openings on the outside of the machine and several access doors for inspecting specific parts of the machine.

- Integrated panels.
- Damper on the ventilation system dampens the noise around the machine.
- More user-friendly environment for your operators.

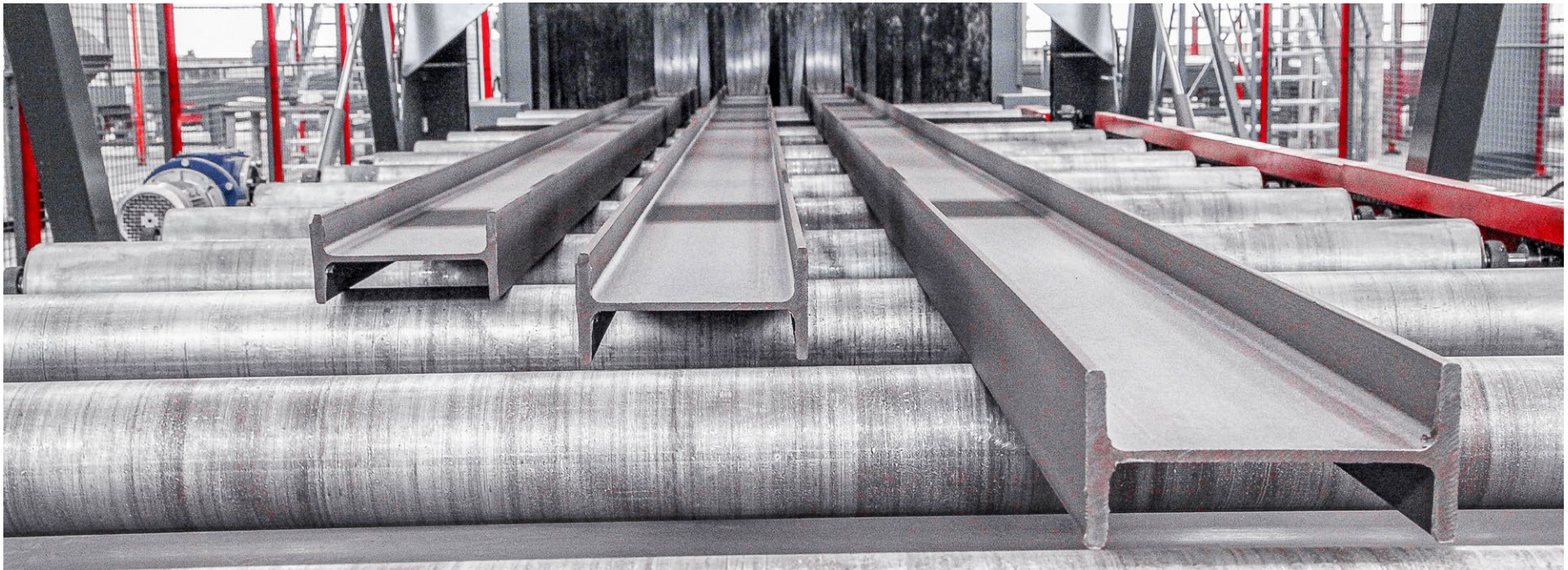
AUTOMATIC ABRASIVE REFILL

To avoid shutting down the shotblasting machine to refill the abrasive container, a separate abrasive container can be placed next to the shotblasting machine. It can be refilled automatically without disturbing the blasting process. A sensor in the main container gives a signal to start the transfer of blasting grit between the containers, saving your operator a lot of time.

FREQUENCY-CONTROLLED TURBINES AND BLASTING GRIT FOR BLASTING THIN PLATES

When blasting plates down to a thickness of 4 mm, some adjustments to the machines must be made to avoid bending the thin plate in the machine.

- Blasting grit supply valve is controlled.
- Amount of blasting grit is reduced.
- Turbines are fitted with frequency controllers to lower the speed of the turbines.



A photograph of an industrial facility, likely a steel mill or warehouse. In the foreground, several long, rectangular metal beams are stacked horizontally. The beams have a dark, slightly rusted surface. In the background, there is a complex structure of metal frames and scaffolding, with red vertical supports. A person is visible in the distance, working near the equipment. The overall scene is industrial and well-lit.

FEATURES AND PROCESSES

FEATURES AND PROCESSES

SHOTBLASTING

- Shotblasting is the process of cleaning the surface of profiles and plates before they are painted or welded.
- Shotblasting removes metal oxide, mill scale and other surface contaminants.
 - Blasting is necessary to ensure reliable adhesion of primer or paint to the steel.

FULLY AUTOMATIC PROFILE TRANSPORTATION

Fully automatic profile transportation makes it possible to integrate the machine into a fully automatic MSI beam processing line.

- VACAM software controls the sensed drag-dogs or liftables, transporting profiles onto the infeed roller conveyor and from the outfeed roller conveyor.
- Selected products are automatically produced from the trade length.
- Cross transports are able to transport several profiles.
- The machine can operate autonomously for a long time.

RECYCLING AND SEPARATING BLASTING GRIT

The blasting grit is transported to the separator by an elevator.

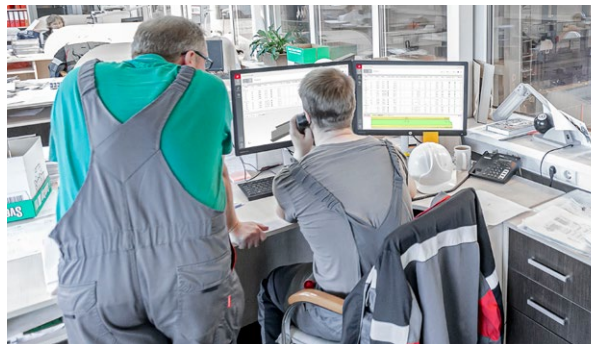
- Unusable grit is separated from usable grit and collected in the grit container for reuse.
- The next round of blasting with high-quality



blasting grit can be performed in the most efficient way.

AUTOMATIC MATERIAL HANDLING

- One touch of a button is all you need to get your production done.



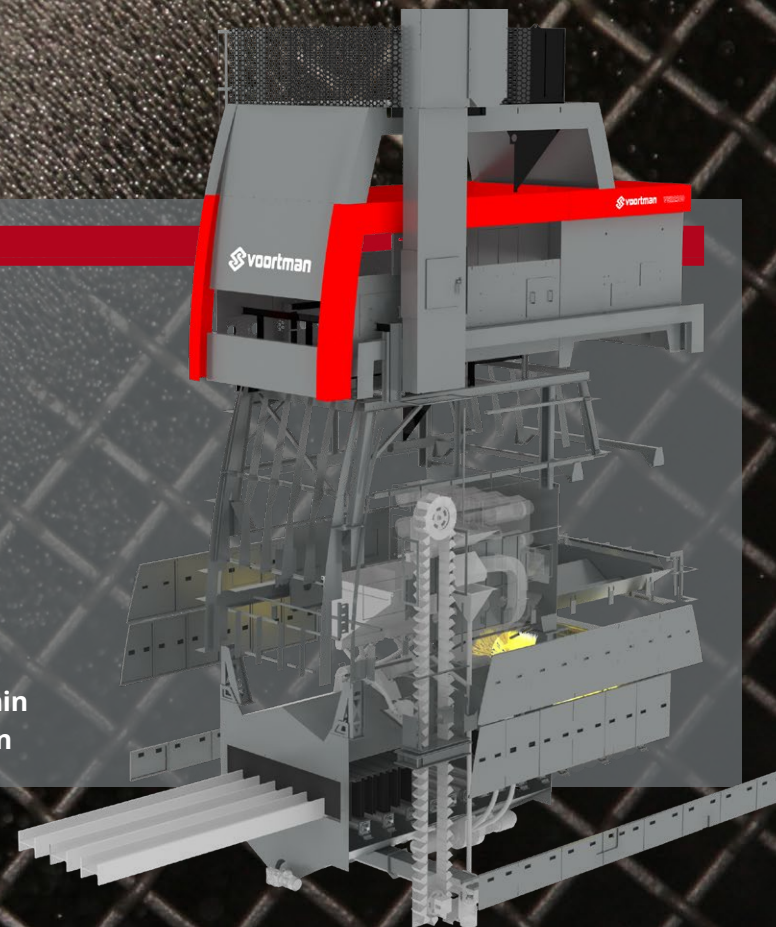
- After importing standard DSTV or DSTV+ files into VACAM's processing list, your operator can fully focus on loading and unloading the system.
- No manual intervention is needed to keep up with the production speed of the machines.

VACAM CONTROL SOFTWARE CONTROLS THE MACHINE:

- Instructing the machine to produce a workpiece.
- Scheduling nestings.
- Clustering nestings.
- Starting automatic production.
- Providing information and getting feedback.
- No additional licence fees.
- All machine functionalities are included.

SPECIFICATIONS

VOORTMAN VSB RANGE	VS1500 4/15	VS1500 6/15	VS2500 6/15	
Entrance dimensions	1.600 x 600	1.600 x 600	2.600 x 600	mm
	5-1/4 x 2	5-1/4 x 2	8-1/2 x 2	feet
Plate width	1.500	1.500	2.500	mm
	59	59	98-1/2	inch
Profiles	1.000 x 300	1.000 x 300	1.000 x 300	mm
	40 x 12	40 x 12	40 x 12	inch
Turbines	4	6	6	
Turbine diameter	380	380	380	mm
	15	15	15	inch
Power per turbine	15	15	15	kW
	20	20	20	Hp
Blasting speed	1,3 - 1,8	1,3 - 2,9	1,3 - 1,8	m/min
Blasting speed	4-1/4 - 6	6 - 9-1/2	4-1/4 - 6	f/min



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