Peddinghaus | PeddiBlast

POWERED BY AGTOS

SHOT BLASTING MACHINE

A Letter from the CEO

Anton Peddinghaus

Welcome to the World of Peddinghaus - The World of "BETTER".

In the world of Peddinghaus we aim to be better. Take a look at any of our 5,000+ installations throughout the globe. These fabricators experience reduced costs and higher production using our equipment. Why? Because with Peddinghaus they receive better technology, better service and better quality than anyone else can provide. These things aren't easy to do, and not every company can guarantee what Peddinghaus does. I am proud that I can say these things because at Peddinghaus we work harder than anyone to give our customers the best. Whether they are located in Mexico City, Mumbai, or Melbourne; they all receive the very same service, spare parts and support that is second to none.

Welcome to Partnerships – From Software to Service to Sales.

At Peddinghaus we maintain strong partnerships with industry leaders to ensure your success. Whether this is our relationship with leading software providers (such as Shop Data Systems, Sigmanest, Steel Office, AceCad, Tekla, FabTrol, Design Data, and more) or our partnership with regional sales and support organizations - our goal is to work together to serve you better.

Welcome to the PeddiBlast System – Shot Blasting that Saves You Money.

Providing the best results with the least amount of abrasive is essential to any shot blasting machine. Utilizing the PeddiBlast for all blast cleaning needs, fabricators receive parts rid of surface impurities in seconds. Whether the fab shop is small or large, the PeddiBlast is completely configurable to each fabricators needs. High powered turbines, simple maintenance, a cleaner shop and simple integration into existing layouts, this blasting system is the need for any fabricator looking for cleaner welds and improved high grade paint adhesion.

Welcome to Peddinghaus Service – Unmatched Global Support.

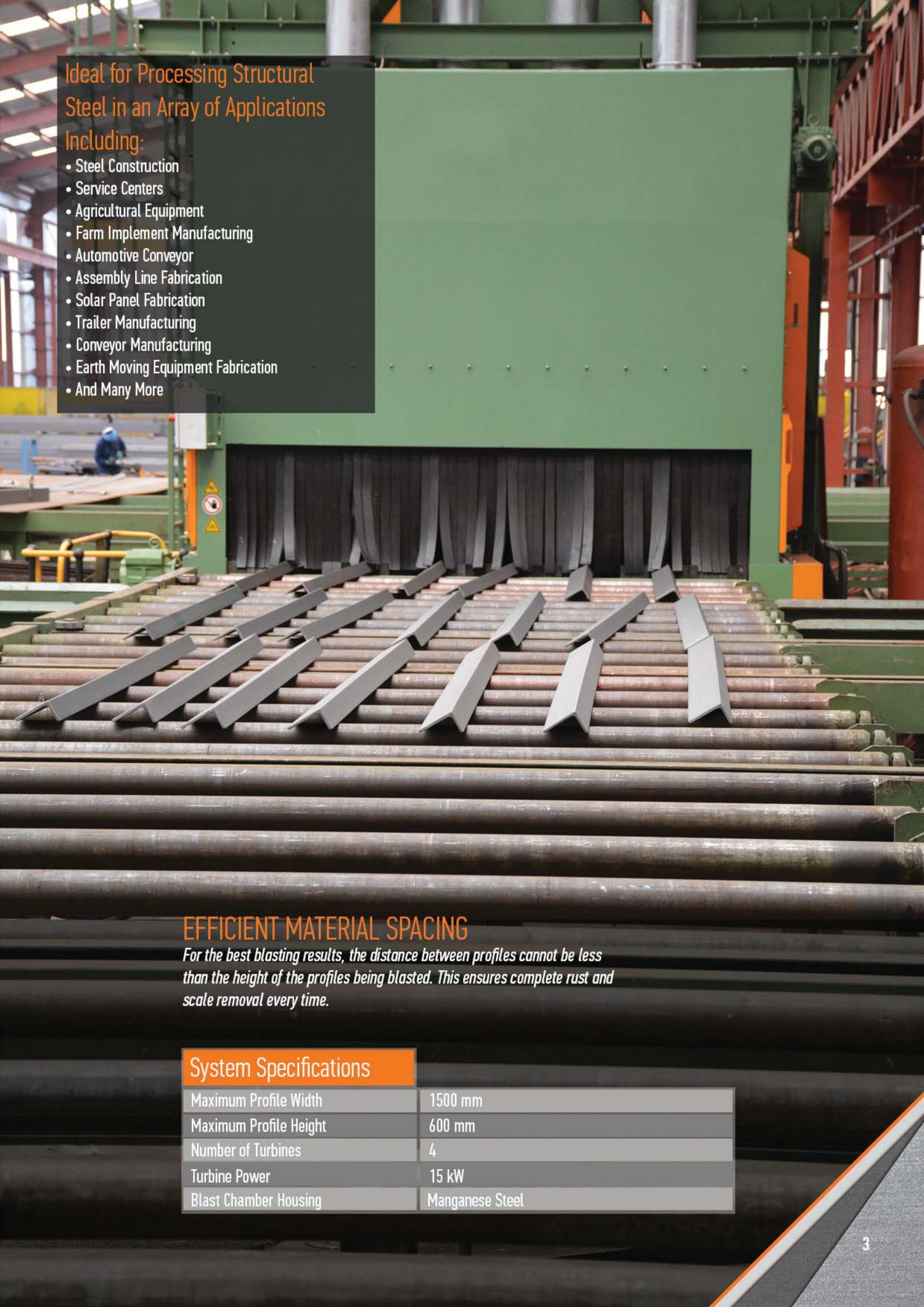
At Peddinghaus service is priority number 1. Peddinghaus' global team of customer support representatives are on duty, on call, all the time at our very own 24-hour customer support center. Combined with state-of-the-art remote diagnostic software, readily available local field support professionals, and the industry leading warranty - customer support from Peddinghaus is only a call or a click away.

Welcome to Peddinghaus – A Tradition of Innovation, a Reputation for Excellence.

My great-grandfather and grandfather perfected Ironworkers during their time with Peddinghaus; then it was my father's turn to pioneer the TDK drill line. In today's world I am proud that we at Peddinghaus continue to offer new solutions for our customers such as the PeddiBlast. This is only possible through constant innovation, and continuing investment in research and development. I invite you to see why Peddinghaus technology is the chosen provider for steel fabricators the world over.

Please visit www.peddinghaus.com for a "video test drive" and additional technical details on the PeddiBlast. Or, plan a visit to the Peddinghaus manufacturing campus at our headquarters in Bradley, IL USA. See the depth of our organization, and our commitment to your success with world class customer support.

Carl G. (Anton) Peddinghaus | Chief Executive Officer | Peddinghaus Corporation



Ideal for Processing Structural Steel in an Array of Applications Including:

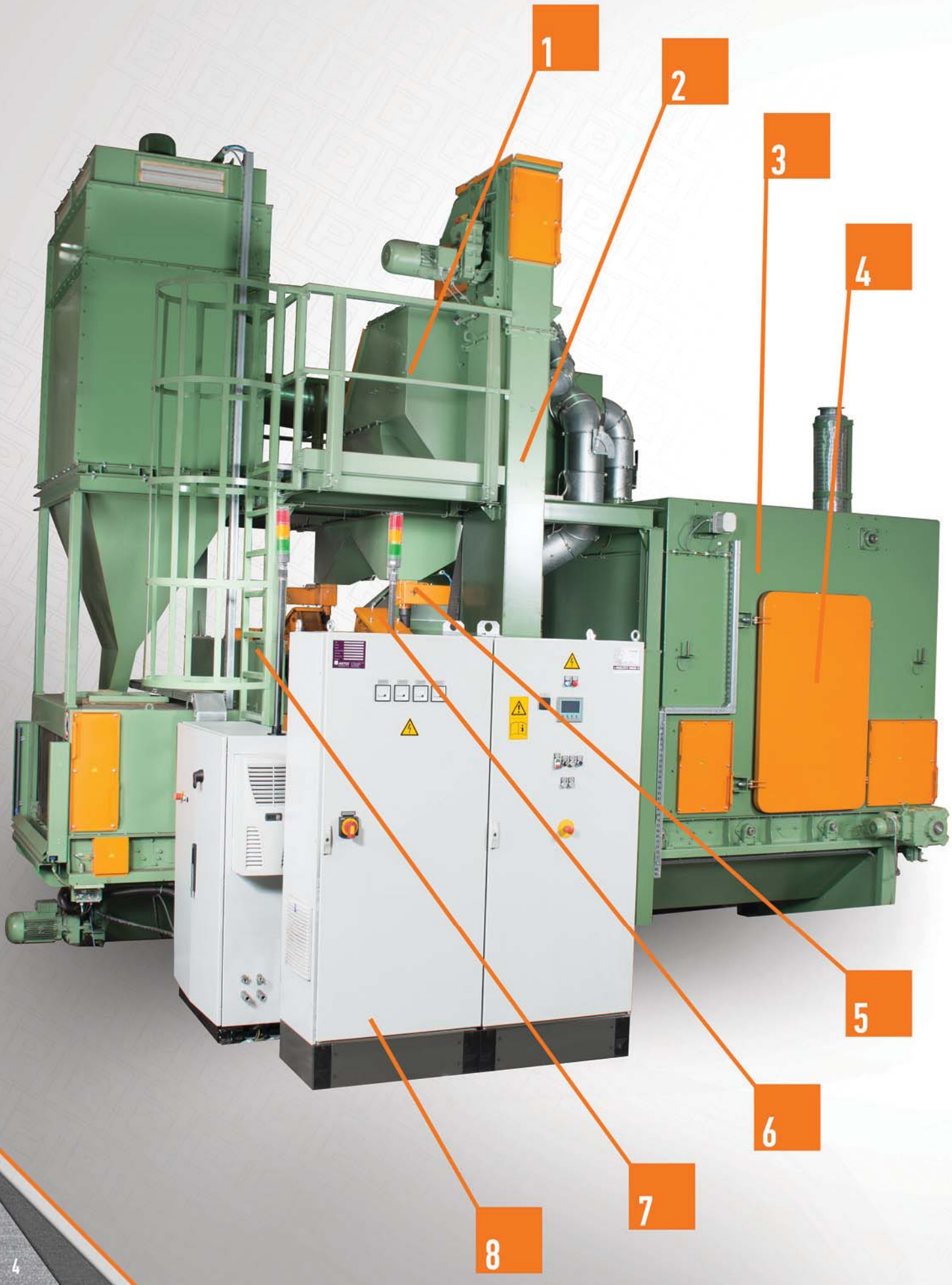
- Steel Construction
- Service Centers
- Agricultural Equipment
- Farm Implement Manufacturing
- Automotive Conveyor
- Assembly Line Fabrication
- Solar Panel Fabrication
- Trailer Manufacturing
- Conveyor Manufacturing
- Earth Moving Equipment Fabrication
- And Many More

EFFICIENT MATERIAL SPACING

For the best blasting results, the distance between profiles cannot be less than the height of the profiles being blasted. This ensures complete rust and scale removal every time.

System Specifications	
Maximum Profile Width	1500 mm
Maximum Profile Height	600 mm
Number of Turbines	4
Turbine Power	15 kW
Blast Chamber Housing	Manganese Steel

Blasting Power Haus



1 WIND SEPARATOR

- Utilizes adjustable air flow to pass through the heavy abrasive and remove any small particles
- Counterweights direct the abrasive in an even downward path to allow air flow to affect the entire process the same
- Guide sheet separates reusable abrasive from small particles

2 BUCKET ELEVATOR

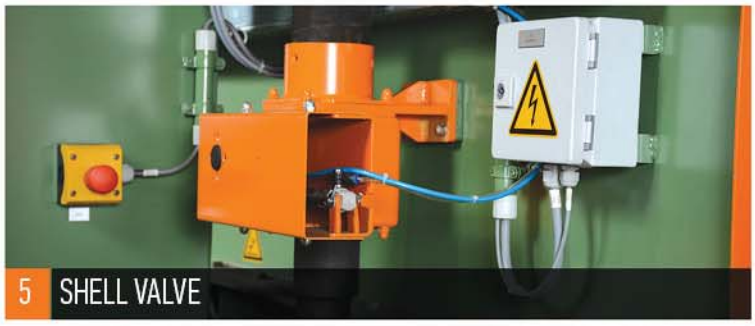
- Carries abrasive to wind separator for reintroduction into process
- Abrasive doesn't fall into the bucket elevator base due to a plate separator made from manganese steel
- Maintenance access panels allows for easy access

3 ABRASIVE REMOVAL BRUSH

- Included on every PeddiBlast machine
- Automatic height adjustment of brush to fit the material being processed creating less wear
- Large diameter brush assures excess shot remains in the machine after exiting the blast chamber

4 MAINTENANCE ACCESS PANELS

- Protected by manganese steel to keep entry points from wear
- Change out filters fast and effectively
- Oversized panels make maintenance easy



5 SHELL VALVE

- Positioned between abrasive hopper and turbine, the shell valve regulates the abrasive flow into the blast chamber
- Allows for shot blasting only when material is directly in the turbines range of operation

6 TURBINE

- Single disk design offers large blasting hotspot
- No distance bolts and 6 blades offer more free abrasive flow
- Built from tough tool steel for blasting longevity
- 15 kW motor powers turbine

7 BLAST CHAMBER + ABRASIVE CONTAINMENT CURTAINS

- Tack welded 9 mm manganese wear lining
- Less wear in direct blasting area
- Easily replaceable sections for quick maintenance

8 MACHINE CONTROL

- Complete control of blasting process from control interface
- Monitor blasting pressure to adjust abrasive flow
- Remote Maintenance

Operational Return on Investment

Total Cost per Year for Outsourced Blasted Material

Based upon an independent study, the cost for the average fabricator each year in outsourced shot blasted material is $500,000. That doesn't account for the additional cost in time lost transporting materials to and from the plant.

The Annual Cost per Hour for Operating a PeddiBlast Machine

The total cost of operating a PeddiBlast per year totals $208,000 based upon an independent study. That's $100 per hour times 2,080 hours of operating per year. This does not account for all the time saved with fabricators being able to minimize material handling and controlling their quality.

The Total Savings on Implementing a PeddiBlast Into Your Shop

At the end of a fabricator's fiscal year the average savings can total up to just under $300,000. By the second year your savings will allow for continued growth of your CNC capacity.

**Figures are based on an independent study of a 5,000 Ton per year fabricator with 2,500 Tons per year of outsourced shot blasting. Average charged to fabricator for shot blasting was $.10 per lb. Operating costs for the PeddiBlast averaged $100/hour with 2,080 working hours per year. These figures are meant as a guide to potential savings and may not reflect a specific regions actual averages.*

The Art of Blasting Steel

Blasting Overview

Peddinghaus and Agtos have partnered for the specific reason of creating the best blasting machine for a structural steel facility. Both in production and cost savings, the PeddiBlast exceeds in providing your shop with quality that cannot be matched.

Turbine Details

The PeddiBlast turbines are strong power units which are highly cost-effective due to fewer wear parts and a high abrasive flow. The blades and wear liners are built from tough tool steel and the turbine housing is built from highly wear-resistant manganese steel. This ensures the turbine unit will be able to operate for a much longer time before needing to be serviced.

Shell Valves

The shell valves are put in place to keep abrasive out of the turbine until material is present inside the blast chamber. Once the material is present in the blast chamber, the shell valve opens allowing abrasive to flow into the turbine which is then positioned directly at the material transferring through the blast chamber. Once the material exits the blast chamber the shell valves close and keep the abrasive out of the turbine. This will improve the life of the machine and the abrasive material which saves money on maintenance.

Bucket Elevator

The bucket elevator creates an effective way to transport new and used abrasive up to the filters of the machine. The buckets will not only last a long time, but has an easy access panel for simple maintenance measures.

Wind Separator

Separating dust particles and worn out shot from blasting abrasives helps reduce the wear on the blasting machine and results in a better blast quality. As the shot is poured through the wind separator, an adjustment of air speed aimed at the abrasive removes the dust from the shot.

Turbines built from tough manganese and tool grade steel

Shell valves reduce wear on turbines and blast chamber

Bucket elevator transfers abrasive to wind separator

Wind separator cleans abrasive for reuse

Keeping Abrasive Contained and Shops Clean

Blast Chamber Overview

There are several keys to successfully shot blasting steel profiles. From the power of the turbines, the filtration of the worn out abrasive, the feed rates of the material to the angle of the abrasive flow. All of this is encompassed by the blast chamber.

Designed to give the turbines unobstructed paths to the material being processed within, the chamber ensures successful blasting procedures every time.

Blast chamber protected by tack welded manganese steel plates

Abrasive Containment Curtains

The abrasive in the PeddiBlast runs at a speed of 190 meters/second. This amount of force is utilized to strip rust and scale off of your profiles allowing for cleaner welding and painting applications. The abrasive containment curtains ensure that even at the high rate of speed, all the shot is systematically kept within the machine to be purified and recycled for use.

Abrasive containment curtains keep shot inside machine

Maintenance Access Panels

The best way to understand how a machine operates is to get a look inside. With our oversized maintenance access panels, your service crews can swap out used parts, add clean filters and gain a better understanding into this machines intelligent design.

Keeping Shops as Clean as Blasted Steel

It's no secret that safety is a priority among steel fabricators world wide. When it comes to blasting machines, the PeddiBlast stands tall in keeping your employees safe. Each compartment within the PeddiBlast is fitted with abrasive containment curtains, keeping abrasive off your shop floor and your operators safe from slips and falls. Everything has been designed to keep the abrasive in and the clean steel moving out.

Maintenance access panels allow for easy access

The Best Support in the Industry

Peddinghaus strives to provide an unparalleled level of service for industry partners, no matter where in the world they are located. This is done by offering the only 24-hour technical support center in the industry and employing an expansive team of field service technicians throughout the globe.

24-Hour Technical Support Center

Located in Bradley, Illinois - USA, Peddinghaus maintains a 24-hour technical support center to assist customers with any questions or concerns that may arise in the operation of Peddinghaus machinery. Service technicians leverage remote diagnostic software as well as web cameras in order to troubleshoot questions. Over 95% of telephone calls are resolved without the need for an on-site visit from a Peddinghaus technician.

24-Hour Technical Support Center

Global Access to Spare Parts

Peddinghaus maintains vast amounts of spare parts at their North American locations and are in close proximity to major ports and shipping hubs. For international partners, local spare parts storage is maintained at our sales and service offices around the globe. In addition, local dealer representatives and dedicated parts storage facilities have been established throughout the world to expedite part shipments. This means faster delivery of parts when they are needed.

50+ Field Service Technicians

Expansive Team of Field Service Technicians

For advanced issues, over 50 field service technicians are employed by Peddinghaus throughout the world. Technicians are conveniently located geographically and may be based out of an office near your installation. These technicians operate globally and are available for on-site assistance.

World Class Training for Maintenance Staff, Operators and Programmers

Peddinghaus offers training on-site, over the internet and at their corporate headquarters for maintenance staff, operators and programmers. Training at Peddinghaus' global headquarters is free of charge for those willing to make the trip and provides staff with direct access to the masters behind the machinery.

PeddiUniversity Training Center

Peddinghaus www.peddinghaus.com

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