

FerroECOBlast®
EUROPE

since 1964



INNOVATIVE AND
CUSTOM MADE SOLUTION FOR

SANDBLASTING TECHNOLOGY

FerroECOBlast Europe® is a leading company in development **solutions** and **production machinery** based on our 60 years of experience in the field of surface treatment technologies with a jet of abrasive medium through a nozzle, we are a **trusted partner** across a wide range of industries worldwide.

Our philosophy is tracking the novelties and constant development through innovations and research, which enables us to put ourselves on the top of the suppliers of **technological solutions in air blasting, shot peening and industrial surface cleaning technologies**. We are present on all important exhibitions in the world and we attend and held lectures about surface treatment technologies and solutions, to be as close as possible with our clients.

Reshaping the surface treatment industry with constant R&D

Smart solution provider

Dedicated to a superior customer experience



- Over 60 years of know-how, tradition of innovation and excellence
- More than 10,000 successfully installed custom-made solutions worldwide
- Highly motivated, educated and experienced team
- Our own production of complete machines
- On-site laboratory and modern research center
- Excellent after-sales activities 24/7
- Satisfied customers in the most demanding global companies



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BLAST INJECTOR BLASTING CABINETS

Injector blasting cabinets blast for surface treatment of small-sized object.

Blast Injector Cabinets are our standard blasting cabinets. These cabinets are ergonomically designed for day-to-day sand blasting in maintenance and production workshops. The cabinets are constructed from powder-painted sheet metal and have either a right-side wing door or a front lifting door with air springs for easy loading.

They also feature a tilt-out window for quick, tool-free glass changes and are equipped with fluorescent lighting for optimal visibility.



Ergonomic Use

Designed for regular operation with rubber-sealed hand ports.



Flexible Access

Available with a side door (SL) or air-assisted front lifting door (DV) for easier loading.



Durable Construction

Powder-coated steel body, galvanized floor grating supports up to 300 kg.



Configurable Performance

Choose from three injector options for blasting control and intensity.

Operation & Blasting Options

The operator inserts hands through sealed rubber arm ports and controls the blasting with a foot pedal. A dedicated injector blasting gun mixes compressed air and abrasive via a venturi effect and delivers it through a high-durability nozzle. Blasting stops automatically when the cabinet door is opened for safety. Three blasting configurations are available depending on application needs:



LT Option

ANI-style gun with INJ mix valve and 6 mm Wolfram carbide nozzle; simple and efficient for general use.



K1 Option

INJ-1 K injector with 6 mm Wolfram nozzle, pedal control, safety switch, and regulator for consistent blasting.



POWER Option

Heavy-duty setup with boron carbide nozzle (7–8 mm), pre-nozzle, regulator, safety switch, and foot control.

Compact models come with an integrated filter unit and cyclone separator, making them perfect for space-limited workshops that require clean and continuous operation.

Specification BLAST

* Please note: A filter unit is required for optimal performance for BLAST machines. Please consult for appropriate filter unit options.

	BLAST 0.5	BLAST 1	BLAST 2	BLAST 3	BLAST 2 COMP	BLAST 3 COMP
External Dim. (LxWxH mm)	600x550x800	850x600x1600	1200x800x1700	1500x1050x1740	1250x1400x2250	1500x1700x2250
Working Space (LxWxH mm)	500x500x550	800x550x750	1150x750x850	1450x1000x1000	1150x750x850	1400x950x950
Blasting System	Injector	Injector	Injector	Injector	Injector	Injector
Additional Side Door	x	o	o	o	o	o
Front Lifting Door	x	o	o	o	o	o
Load Capacity (kg)	25	300	300	300	300	300
Cabinet Weight (kg)	50	100	150	190	350	390
Filter Unit	Configurable	Configurable	Configurable	Configurable	CENTRO 2/2 ECO-130	CENTRO 4/2 ECO-200
Cyclone Separator	x	x	x	x	CS 360	CS 360
Housing from epoxy	•	•	•	•	•	•
Two armholes with flaps	•	•	•	•	•	•
Window with Light	•	•	•	•	•	•
Plexi glass + normal glass	•	•	•	•	•	•
Grounding bracelet	x	o	o	o	•	•

• - standard | o - optional | x - not available

DRUMBLAST INJECTOR ROTARY BLASTING CABINETS

Sandblasting for variety of small parts in drum.

The DrumBlast cabinet system is an ideal solution for batch blasting of small metal or plastic parts. Designed for semi-automatic processing, it features a motorized rotating drum that exposes parts evenly to the abrasive jet, enabling consistent cleaning, deburring, or deflashing. Built with heavy-duty welded construction, these cabinets

come equipped with a powerful POWER injector gun, a boron carbide nozzle, and a pneumatic collection/recycling system that supports continuous operation. Available in two standard sizes, DrumBlast machines provide industrial-grade performance for users who need reliability, productivity, and automation.



Automatic Drum Rotation

Motor-driven drum rotates components during blasting for uniform surface treatment.



Integrated Filtration

Optional CENTRO filter unit with cyclone separator and pulse-jet cleaning system.



Durable & Precise

Powder coated steel body and boron carbide nozzle for long-lasting performance.



Smart Operation

Timer, foot pedal, filter regulator, and electrical controls for streamlined use.

Operation & Blasting Options

DrumBlast cabinets are semi-automatic injection blasting systems. Operators load parts into a motorized drum with adjustable angle control. Once the cabinet is closed, the operator starts the blasting process using a foot pedal, while the rotation speed and blasting time are controlled via an electro-pneumatic control box and timer.

The drum allows even blasting on all sides, minimizing handling time. The POWER blast gun delivers abrasive through a boron carbide nozzle (typically Ø10 mm), while an optional cyclone + filter unit continuously recycles used abrasive and removes dust via PULSE-JET cartridge cleaning.

Standard safety features include door interlock switches, pressure regulation, grounding bracelets, and a sealed work chamber with integrated lighting and inspection window.

Specification DRUMBLAST

	DRUMBLAST 1	DRUMBLAST 2
Outer Dimensions (L x W x H mm)	1200 x 800 x 1650	1450 x 1310 x 2100
Working Space (L x W x H mm)	800 x 750 x 550	1150 x 950 x 850
Drum size (mm)	Ø300 x 250	Ø500 x 400 (or Ø300 x 250)
Load Capacity (kg)	5-15	5-15
Unit Weight (kg)	150	190
Door Type	Front lifting	Front lifting or side
Filter Unit	o	o

• - standard | o - optional | x - not available

PRESSOBLAST PRESSURE BLASTING CABINETS

Manual pressure blasting cabinets for surface treatment of parts of various sizes and shapes.

PressoBlast cabinets are robust pressure blasting systems, developed for professional use in surface treatment of metal, alloy, and other industrial parts. These machines offer exceptional durability through internal anti-abrasive linings, ergonomic operation, and flexible loading via side or front lifting doors.

Depending on the model, they are compatible with optional pressure pots and turntables, while compact versions integrate filtration systems for standalone functionality.



Heavy-Duty Construction

All-steel body with protective lining for extended durability.



Manual Pressure Blasting

Powerful and precise blasting using foot-pedal control and pressure pot system.



Flexible Access

Available with side (SL) or front lifting doors (DV), depending on workflow.



Modular Options

Compatible with turntables, pressure pots, and external or integrated filter units.

Operation & Blasting Options

PressoBlast machines are operated manually from outside the cabinet, where the operator controls the blasting through sealed glove armholes. Parts are loaded via a side door (SL) or front lifting door (DV) depending on the model, and placed on a steel grating or optional turntable inside the cabinet. Once the part is inside:

- The operator uses a foot pedal to activate the pressure blasting system.
- Blasting media is pushed through a 5–7 mm boron carbide nozzle, powered by compressed air from the TZIP 10/20 or 33 SX-P pressure pot.
- The high-energy stream provides aggressive surface treatment, ideal for paint removal, rust cleaning, or preparation for coating.

The **blasting generator** and **filter unit** is **not included** by default, giving users full control to select the most suitable configuration for their needs. It is compatible with the complete range of TZIP pressure blasting generators, including TZIP 10, TZIP 20, TZIP 33, and others. This modular setup allows easy integration of additional systems such as media recovery units, dust collectors, and abrasive regulators

Inside the cabinet, a fluorescent-lit window provides visual control, while double-glass (plexi + safety) ensures durability and visibility. A dust extraction hose (Ø120 mm) connects to an external filter unit and cyclone separator, either integrated (COMP models) or external (standard models), to maintain clear visibility and recover blasting media efficiently.

Compact models come with an integrated filter unit and cyclone separator, making them perfect for space-limited workshops that require clean and continuous operation.

Specification PRESSOBLAST

* Please note: A filter unit is required for optimal performance for PRESSOBLAST machines. Please consult for appropriate filter unit options.

	PRESSOBLAST 2	PRESSOBLAST 3	PRESSOBLAST 15-14	PRESSOBLAST 2 COMP	PRESSOBLAST 3 COMP
External Dim. (LxWxH mm)	1450x1310x2100	1500x1050x1740	1500x1400x1800	1250x1400x2250	1500x1700x2250
Working Space (LxWxH mm)	950x850x1150	1000x1000x1450	1350x1200x1450	1150x750x850	1400x950x950
Blasting System	Pressure	Pressure	Pressure	Pressure	Pressure
Additional Side Door	o	o	o	o	o
Front Lifting Door	o	o	x	o	o
Load Capacity (kg)	300	300	500	300	300
Cabinet Weight (kg)	150	190	250	450	520
Filter Unit	Configurable	Configurable	Configurable	CENTRO 2/2 ECO-130	CENTRO 4/2 ECO-200
Cyclone Separator	x	x	x	CS 360	CS 480
Pressure Pot	Configurable	Configurable	Configurable	TZIP 33 SX-P	TZIP 33 SX-P
Turntable option (mm)	500/800/700	500/800/700	1000/300/1000	x	x
Window with Light	•	•	•	•	•
Plexi glass + normal glass	•	•	•	•	•
Grounding bracelet	•	•	•	•	•

• - standard | o - optional | x - not available

BOY BLASTING CABINETS

Pressure or injector blasting cabinet for less demanding users

BOY Blast Cabinets are designed for reliable surface preparation, cleaning, and finishing of small to mid-sized components. With durable construction, dual side doors, and clear LED lighting, they're ideal for maintenance, repair, and production workshops.

Each unit supports up to 200 kg of workpiece weight and features ergonomic hand access, foot pedal control, and tool-free maintenance features. Multiple blasting setups allow you to tailor performance to your application.



Dual Access Doors

Left and right door entry and flexible loading of various components.



Injector or Pressure Blasting

Suitable for cleaning, derusting, and deburring of components.



Compact Design

Sturdy steel build with 200 kg load capacity and LED interior lighting.



Configurable Setup

Multiple blast gun types, turntables, glove upgrades, and optional filter units.

Operation & Blasting Options

The operator places their hands through two rubber-sealed glove ports and controls the blasting process from outside the cabinet. Blasting is foot-pedal activated and automatically stops when either of the side doors is opened. A dedicated injector blasting gun delivers abrasive mixed with compressed air using a venturi effect through a high-performance nozzle. BOY cabinets are offered with three configurable blasting setups:



LT Option

ANI-style gun with INJ mix valve and 6 mm Wolfram carbide nozzle; simple and efficient for general use.



K1 Option

INJ-1 K injector with 6 mm Wolfram nozzle, pedal control, safety switch, and regulator for consistent blasting.



POWER Option

Heavy-duty setup with boron carbide nozzle (7-8 mm), pre-nozzle, regulator, safety switch, and foot control.

All configurations are compatible with VF-70 filter units. Optional upgrades include boron carbide nozzles (up to 10 mm), blast gun holders, interior rubber lining, manual turntables, and glove accessories.

Specification BOY

	BOY 70 + VF-70	BOY 100 + VF-70
Outer Dimensions (L x W x H mm)	800 x 1020 x 1700	1100 x 1120 x 1700
Working Space (L x W x H mm)	690 x 690 x 750	990 x 790 x 750
Side Door	•	•
Load Capacity (kg)	200	200
Cabinet Weight (kg)	151	180
Blasting Generator Type	Injector/Pressure	Injector/Pressure
Filter Unit	VF-70	VF-70

• - standard | o - optional | x - not available

MB01 BLASTING CABINETS

Ergonomic pressure and injector blasting cabinet.

The MB01 Blasting Cabinet is an advanced manual surface treatment system built for durability, ergonomics, and precision. With a compact footprint and stainless steel construction, it's ideal for laboratories, R&D centers, prototyping workshops, and small-scale production of 3D components or delicate parts.

Designed for flexibility, it supports both injection and pressure blasting, with integrated recycling and minimal maintenance needs.



Ergonomic Design
Electronically adjustable working height, suitable for seated or standing operation



Dual Blasting System
Integrated injection and pressure blasting capabilities



Integrated Media Recycling
Cyclonic recovery system with vacuum filter allows efficient re-use of media



High-Visibility Work Area
Large observation window and adjustable LED lighting offer clear visual

Operation & Blasting Options

The MB01 is designed for intuitive, efficient manual blasting, making it ideal for both high-precision tasks and general surface finishing. The operator activates the blasting process using a foot pedal, leaving hands free to control the part or nozzle as needed. The cabinet features dual blasting capability injector for general work and pressure blasting for more demanding applications or harder materials.

The blasting nozzle is fitted with a Boron Carbide or pressure nozzle (Ø2 mm), ensuring durability even with aggressive media. A 1.5-liter abrasive reservoir ensures consistent flow, while automatic refill maintains uninterrupted blasting.

An integrated media recycling unit continuously collects and filters used abrasive, returning clean media back into the system. This not only reduces media consumption but also minimizes airborne dust inside the cabinet, supported by a vacuum and cyclone separator system.

Thanks to ergonomic controls, adjustable work height, and a large viewing window with bright LED lighting, the operator maintains full visibility and comfort throughout the process ensuring accuracy, repeatability, and safety in every task.

Specification MB01

	MB01
Outer dimensions (L x W x H mm)	800 x 800 x 1700
Workspace size (L x W x H mm)	650 x 500 x 500
Blasting system	injector/pressure
Load capacity (kg)	30
Height adjustment (mm)	33
Compressed air (min-max bar @ PSI)	1/14,5 , 8/116
Air Consumption (l/min)	600
Power Supply (VAC @ Hz)	110/230 @ 60/50

ZP & TZP MOBILE BLASTING MACHINES

Portable solutions for mobile surface cleaning & restoration

Mobile sandblasting machines are ideal for on-site cleaning, rust removal, surface preparation, and restoration across a wide variety of materials from metal and stone to wood and glass. Available in two configurations, ZP injector-based and TZP pressure-based, these machines offer flexibility for both hobbyists and industrial users.

Whether you need precision detail or high-powered blasting, the mobile units deliver performance, portability, and adaptability. Optional upgrades include soda blasting kits, cyclone separators, or extended hoses for expanded functionality.



Mobile & Versatile

Lightweight and easy to maneuver with wheeled or compact frames.



Pressure or Injector System

Choose between efficiency-focused pressure blasting or simple injector delivery.



Wide Application Range

Perfect for restoration, paint stripping, cleaning of concrete, boats, metal, etc.



Accessory-Ready

Supports optional soda kits, cyclone units, and advanced nozzle options.

Operation & Blasting Options

Both blasting systems are manually operated. The operator fills the pot with abrasive and connects to compressed air.

ZP models use an injector system:

A venturi-style gun draws in the abrasive, mixes it with air, and delivers it through a Wolfram nozzle. These are ideal for detailed cleaning jobs and lower media consumption.

TZP models operate via a pressure pot:

A pressurized vessel forces abrasive through the hose, delivering higher velocity and cleaning power. Suitable for intensive tasks like rust or graffiti removal. Pressure blasting can increase productivity up to 300% compared to injector systems.

Each system includes a blasting gun, hoses, media regulation valve, and is compatible with soda blasting kits for sensitive surfaces.

Specification ZP

	ZP 25 ECO	ZP 25	ZP 50
Outer Dimensions (L x W x H mm)	710 x 530 x 1020	620 x 620 x 890	710 x 530 x 1020
Blasting Generator Type	Injector	Injector	Injector
System Weight (kg)	42	17	35
Media Capacity (l)	25	25	50
Nozzle (Ø, mm)	5-10	5-10	5-10
Air Consumption (Nm³/min @ bar)	0.2-1.2 @ 3-8	0.2-1.2 @ 3-8	0.2-1.2 @ 3-8
Frame Type	Trolley	Legs (fixed)	Legs with wheels
Blasting hose	3m sand hose, 5m air hose	3m sand hose, 5m air hose	3m sand hose, 5m air hose

Specification TZP

	TZP 33 SX	TZP 100 SX	TZP 200 SX
Outer Dimensions (L x W x H mm)	450 x 540 x 1070	610 x 1250 x 1650	610 x 1250 x 1650
Blasting Generator Type	Pressure	Pressure	Pressure
Sytem Weight (kg)	45	150	180
Media Capacity (l)	33	100	200
Nozzle (Ø, mm)	13	19	32
Air Consumption (Nm³/min @ bar)	0.8-4.2 @ 1.5-6	0.8-6 @ 3-8	0.8-6 @ 3-8
Frame Type	Wheeled trolley	Wheeled trolley	Wheeled trolley
Blasting hose	10m hose	10m hose	10m hose

VACUUPRESS DUSTLESS MOBILE BLASTING MACHINE

Pneumatic blasting for flat surfaces with built-in recovery

Vacuupress 60 SG-PNEUM is a fully pneumatic mobile sandblasting unit designed for dust-free operation and on-site treatment of flat and edge surfaces. Equipped with a vacuum recovery system, the machine instantly reclaims both abrasive and dust, providing a clean, closed-loop blasting process.

With its pressure pot system, advanced suction regulation, and interchangeable blasting brushes, the machine handles heavy-duty blasting jobs using abrasives like steel grit, corundum, or ceramic media without contaminating the environment. A perfect solution for indoor blasting or environmentally sensitive areas.



Pneumatic & Electrical-Free

Fully air-powered, with no need for electric connection.



Dust-Free & Ecological

Abrasive and dust are immediately recovered for clean surroundings.



3-Way Surface Coverage

Equipped with brushes for flat surfaces, inside edges, and outside edges.



Mobile & Operator-Friendly

Large wheels and ergonomic support arm ensure easy movement and control.

Operation & Blasting

The Vacuupress SG-PNEUM system features a pressure blasting pot and a vacuum recovery unit in one mobile solution. The operator controls blasting with a Start/Stop pneumatic trigger, while an integrated regulator ensures optimal abrasive dosing and suction power.

A lightweight aluminum blasting head is connected via a 10-meter blast/suction hose, with instant abrasive recovery for uninterrupted visibility. The machine comes with three brush attachments to adapt to various surfaces:

- Flat Surface Brush – for standard cleaning
- Inside Edge Brush – for internal angles and seams
- Outside Edge Brush – for external corners and curves

No electrical connections are needed, making the machine ideal for industrial and remote site use. Safety equipment such as gloves, face shield, and hearing protection is included, with optional protective overalls.

Specification VACUUPRESS

	VACUUPRESS 60 SG-PNEUM
Outer Dimensions (L x W x H mm)	1900 x 900 x 2080
Application	All abrasive types
System Weight (kg)	320
Media Capacity (l)	33
Nozzle (Ø, mm)	6-8
Air Consumption (Nm³/min @ bar)	5-10 @ 3-8
Hose length (m)	10
Recovery system	Integrated vacuum + filter

BLASTOMAT BLASTING SYSTEM

Semi-Automatic Sandblasting Systems for Versatile Surface Treatment

The Blastomat systems are designed for cleaning of medium to heavy-duty components. These machines are built from our BLAST cabinet systems and upgraded with automatic manipulators, motor-driven turntables, and automated process cycles. Whether cleaning wheels, moulds, aluminum castings, or steel components,

Blastomat machines offer excellent media control, reliable separation and recycling, and precise nozzle movement.

Each machine in the Blastomat line is individually configured around the customer's workpiece type, size, production volume, and blasting goals.



Motorized Turntables

Ø1000–1600 mm, up to 5000 kg, PLC-speed controlled with loading trolleys.

Manipulator Systems

1–2 axes, servo-driven with optional tilt up to 40° for part coverage.

Manual & Auto Blasting

Switch between programmable cycles and manual touch-up.

Advanced Media Recovery

CENTRO ECO filter unit with cyclone separation and noise-dampening silencers.

How it works

- 1. Loading & Positioning**
- The operator loads parts manually (or by crane/forklift) onto a motorized turntable positioned on a loading trolley. A clamping device ensures stable placement.
- 2. Cabinet Entry & Door Locking**
- Once loaded, the trolley is driven into the cabinet and the automatic pneumatic doors close, creating a sealed blasting environment.
- 3. Blasting Process**
- Depending on the machine model, 1–2 manipulators with multiple blasting nozzles (PowerGun or Venturi) perform programmed cleaning patterns. Nozzles move horizontally or vertically (X/Y), with optional oscillation or tilting (up to 40°) for maximum surface coverage.
- 4. Media Collection & Recovery**
- Abrasive media and debris are collected below the working grid and fed via cyclone and silo systems to the filtration unit. Only clean, reusable media is recycled back to the blasting generator.
- 5. Unloading or Manual Touch-Up**
- After blasting and optional blow-off, the part is removed or manually finished using an integrated manual nozzle, accessible through front openings. A manual air blow gun is included.

Specification BLASTOMAT

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	BLASTOMAT 15-14 HD	BLASTOMAT 15-14 ECO	BLASTOMAT 20-20 SL PR
Outer Dimensions (L × W × H mm)	3400 × 4000 × 3700	3400 × 4700 × 3700	2300 × 2300 × 4000
Blast Chamber (L × W × H mm)	1450 × 1350 × 1200	1450 × 1350 × 1200	2000 × 2000 × 1500
Max. Workpiece Size (mm)	Ø 1000	Ø 1000	Ø 1600
Max. Workpiece Weight (kg)	1000	1000	5000
Turntable Configuration	Single, motorized trolley	Dual motorized trolley	Single, motorized trolley
No. of Blast Nozzles	6 auto	1 auto + 1 manual	2 auto
Manipulator Axes	1 (horizontal)	2 (X/Y)	2 (X/Y)
Blasting Generator Type (Boron carbide)	Suction	Pressure	Pressure
Blast Nozzle Diameter (mm)	Ø 8	Ø 8-10	Ø 10
Manual Blasting Capability	•	•	x
Internal Blast Lance	x	o	o
Control System	PLC	PLC	PLC
Air Consumption (Nm³/min @ bar)	6 @ 6.0	7 @ 4.5	6 @ 5.0
Filter Unit Type	CENTRO 4/4–500 ECO	CENTRO 4/4–500 ECO	CENTRO 4/4–500 ECO
Air Volume – Dust Collector (m³/h)	5000	5000	5000
Power Supply (kW)	6.0	5.0	5.0

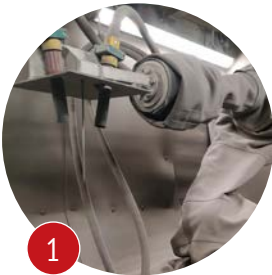
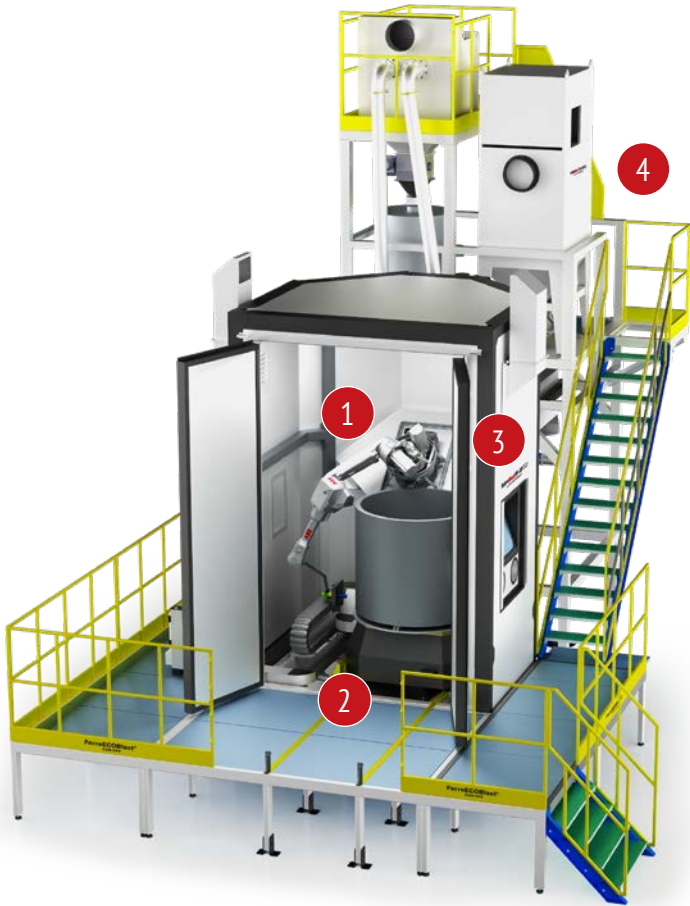
• - standard | o - optional | x - not available

ROBOBLAST BLASTING SYSTEM

Fully programmable robotic blasting for flexible surface preparation.

The RoboBlast is a modular, fully automatic pressure blasting system designed for precise and repeatable cleaning of blades, vanes, landing gear, and other high-spec components. It features robotic manipulators, indexing turntables, and programmable recipes for consistent surface treatment across a wide variety of part geometries.

Ideal for aerospace, energy, and industrial use, the RoboBlast delivers uniform results using programmable robotic arms and integrated blow-off and media recycling systems, supporting diverse abrasive types and part sizes.



Robotic Manipulation

Up to 4 manipulators, each programmable on X, Y, and Z axes.



Motorized Indexing Turntable

Rotary table with 2–8 satellites and 180° in/out access.



Recipe Control

Touchscreen interface with diagnostics, media control, pressure, timing, and motion.



Closed-Loop Media Recovery

Cyclone, dust filtration, and vibration sieves for clean and continuous recirculation.

How it works

1. Loading
- A part is loaded manually with a crane or automatically via robot. The part is mounted onto a rotary satellite with custom clamping fixtures that ensure consistent positioning and orientation.
2. Program Selection
- Operators select a blasting recipe through the FerroSmartPanel. Each recipe includes parameters for nozzle movement, media flow, pressure, and cycle time. Access levels control who can change what.
3. Blasting Process
- The satellite indexes into the blasting chamber. Robotic manipulators, equipped with adjustable tungsten or boron carbide nozzles, clean the internal surfaces using high-velocity abrasive streams. Depending on the geometry, internal rotary lances are also used to access narrow or curved cavities. Manipulators can move vertically and horizontally in programmable steps.
4. Cleaning and Finishing
- After blasting, internal and external blow-off stations remove all residual media using compressed air. Collected abrasive is recycled and is automatically returned to the blasting generator.
5. Unloading
- Once finished, the part rotates to the unloading station and a new part can enter with each rotation initiating a new tact in the process.

Specification ROBOBLAST

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	ROBOBLAST 20-20	ROBOBLAST 500-2	ROBOBLAST 1200/2
Working space (L x W x H mm)	1900 x 1900 x 1400	1400 x 1700 x 2200	1700 x 2200 x 2200
Max part size (mm)	Ø1000	400 x 250 x 1000	500 x 700
Robotic payload	20 kg	20 kg	7 kg
Robotic reach	1.65 m	1.65 m	0.7 m
Indexing turntable	x	180° swivel, 2 satellites	180° swivel, 2 satellites
Satellite rotation (7th axis)	x	Synchronous with robot	Synchronous with robot
Robotic arm	6-axis ABB IRB2600	6-axis ABB IRB2600	6-axis ABB IRB1200
Pressure vessel	TZP 200 SX	TZP 200 x2	TZP 60
Media compatibility	AlOx #36 / #80	AlOx	AlOx
Manual blasting	Armholes + foot pedals	x	x
FerroSmartPanel interface	x	•	x
Closed-loop pressure regulation	•	•	•
Automatic blow-off	(robot or manual)	(via robot)	•
Filter unit	CENTRO 4/4-500	CENTRO 4/4-500	CENTRO 4/4-500
Electric power supply (kW)	5.0	22.0	7.0

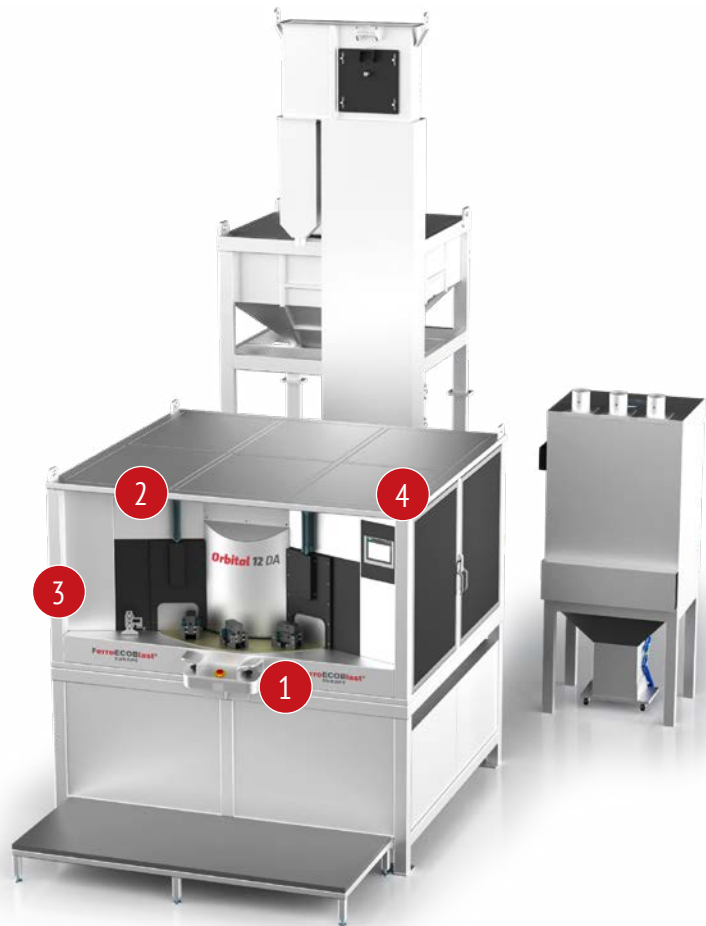
• - standard | o - optional | x - not available

ORBITAL BLASTING SYSTEM

Automatic sandblasting systems for cylindrical, tubular and cast workpieces.

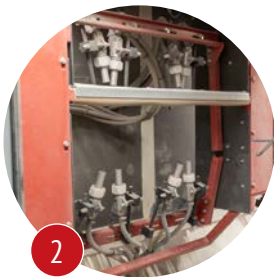
The ORBITALBLAST is a semi to fully automatic sandblasting system designed for high-throughput surface treatment of cylindrical, tubular, or symmetrical components such as water heaters, hydraulic cylinders, and pump housings.

Using an indexing satellite turntable, oscillating nozzles, and programmable recipes, it enables consistent external and internal blasting, even on complex shapes, with minimal operator intervention and high repeatability.



Indexed Satellite Table

6–16 station orbital table with automated rotation and positioning.



Oscillating Nozzle Arms

Up to 10 nozzles per system with adjustable angles and oscillation.



Flexible Loading Options

Manual fixture loading or robotic arms for full automation.



FerroSmartPanel

Integrated PLC/HMI with recipe selection, diagnostics, and remote access.

How it works

1. Loading
- The operator (or robot) loads parts manually onto motorized satellites positioned on an indexing turntable. Custom nests ensure accurate positioning for each part type.
2. Program Selection
- From the FerroSmartPanel, the operator selects a pre-set blasting recipe tailored to the part geometry. Parameters include nozzle angles, oscillation speed, and cycle time.
3. Blasting
- The turntable indexes parts into the blasting chamber. Each station is equipped with oscillating nozzles (internal and/or external) that clean surfaces thoroughly from multiple angles. Satellite rotation ensures complete and uniform treatment.
4. Blow-Off & Recycling
- After blasting, parts pass through a dedicated blow-off zone, where compressed air removes residual abrasive. Media is collected and separated via cyclone, returning clean media to the blasting generator.
5. Unloading
- Finished parts rotate to the loading/unloading zone. Operators (or robots) remove completed components while new ones are simultaneously loaded, allowing continuous production.

Specification ORBITAL

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	ORBITAL 2/6	ORBITAL 12	ORBITAL 16
Blast Chamber Size (L × W × H mm)	1200 × 1200 × 2500	1700 × 1700 × 2000	2000 × 2000 × 2200
Turntable Stations	6	12	16
Turntable Type	Indexing (3x120°)	Indexing (12x30°)	Continuous rotation
Satellite Drive	Motorized	Motorized	Motorized
Blast Nozzles (pcs)	8	8	10
Nozzle Manipulators	2 oscillating	5 X/Y, 6 single-axis	2-axis servo
Nozzle Angle/Position Adjust.	Manual	Manual	Manual
Blow-Off System	2 knife-type nozzles	6 fixed nozzles	5 fixed nozzles
Cycle Time (sec/tact)	~90	~25–40	~60
Robotic Loading Method	o	Manual / o robotic	•
Nozzle Control System	PLC	PLC	Siemens PLC
Media Recovery Type	Cyclone + hopper	Screw + air wash	Cyclone + filter
Filter Unit	CENTRO 4/6–500 ECO	CENTRO 4/2–300 ECO	CENTRO 4/6–500 ECO
Air Consumption (Nm³/min @ bar)	10–12 @ 6.0	~15 @ 6.0	~20 @ 6.0
Power Supply (kW)	4.0	7.5	up to 15.0

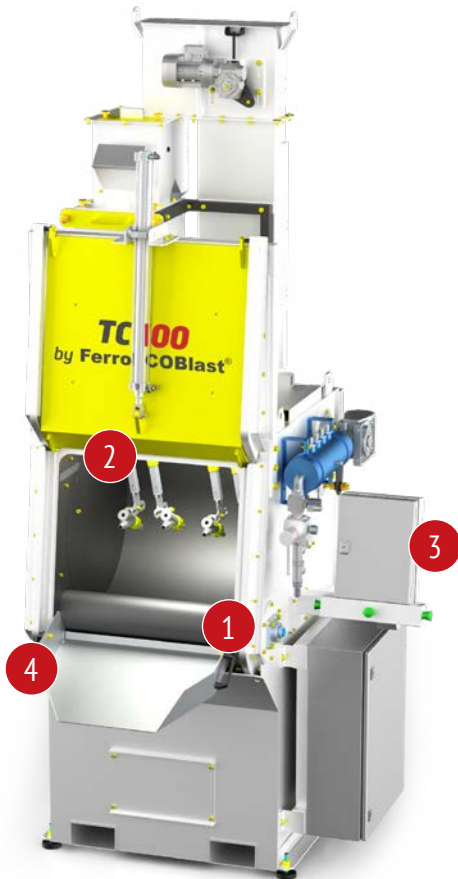
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AUTOMATIC TUMBLE BELT MACHINES TC

Compact, automatic systems for blasting small bulk components with high throughput.

The TC Series machines are compact, automatic tumble belt sandblasters designed for efficient surface treatment of small bulk components made of steel, aluminum, titanium, and other metals. They feature a rubberized rotating belt, oscillating blast guns, and optional pressure or suction blasting modes.

Available in multiple capacities, the TC 60 and TC 100 are engineered for durable operation, precise control, and excellent repeatability even with aggressive abrasives.



Rotating Tumble Belt

Rubber belt gently rolls parts for uniform blasting.



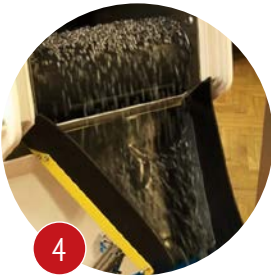
Oscillating Blast Guns

Three to four nozzles sweep across the batch using programmable oscillation.



Touchscreen Control

Simple HMI with selector buttons for speed and cycle control.



Flexible Loading

Optional manual tray or pneumatic door with optional automation.

How it works

- 1. Loading**
Parts are placed manually into the chamber via a front tray or hopper. Optional pneumatic doors assist with safer, ergonomic access.
- 2. Program Setup**
Operators select blasting parameters (belt speed, cycle time, pressure) using intuitive buttons or touchscreen HMI.
- 3. Blasting Cycle**
The rubber tumble belt rotates the parts while oscillating nozzles provide even, multi-angle surface coverage.
- 4. Media Collection & Recovery**
Abrasive is automatically collected and filtered through the recovery system for re-use.
- 5. Unloading**
After the cycle, the chamber opens for quick part retrieval. Optional automation available for loading/unloading.

For more demanding blasting tasks or tougher materials, the **HD version** offers pressure blasting and a reinforced recovery system with elevator lift ideal for heavy-duty industrial applications.

Specification TC

	TC 60	TC 100
Outer Dimensions (L x W x H mm)	720 x 1100 x 2900	1550 x 1060 x 3200
Max. Load Volume (L)	50	100
Max. Loading Weight (kg)	60	140
Working Area (mm)	600 x 500	700 x 700
No. of Blast Nozzles	3	4
Blasting Generator Type	Injector	Injector/Pressure
Nozzle Diameter (mm)	Ø 3/8	Ø 8
Oscillation System	•	•
Unloading Tray	o	o
Air Consumption (Nm³/min @ bar)	1.2 – 2.5 @ 4–8	4 – 5 @ 5
Power Supply (kW)	2.5	7.0
Filter Unit	CENTRO 4/2–200	CENTRO 4/4–500 ECO
Sound Level (dBA)	<85	<85
HD Upgrade	x	o
Control System	Simple PLC + HMI	Simple PLC + HMI

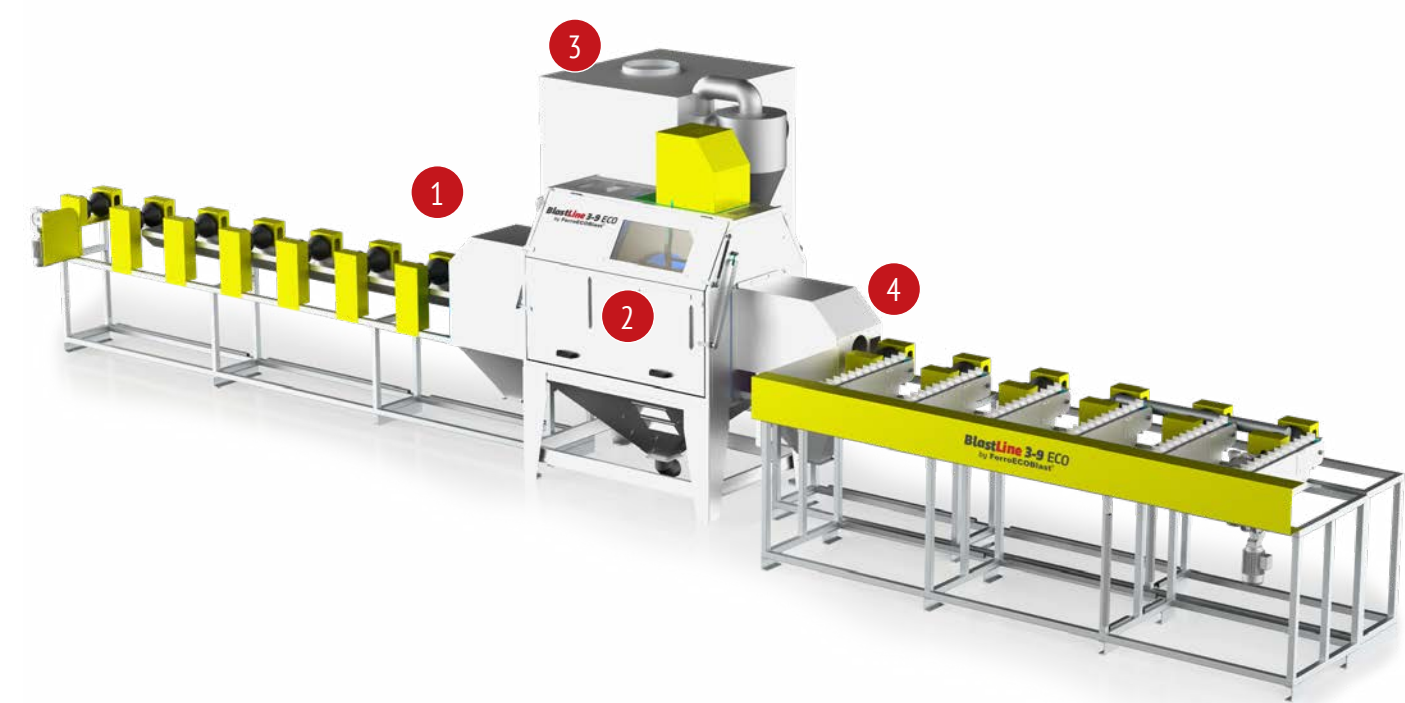
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BLASTLINE THROUGH-FEED BLASTING SYSTEM

High-performance surface treatment for tubes, bars & profiles.

The BlastLine series machines are designed for continuous, unattended blasting of long profiles, tubes, bars, or structural parts. These systems are built for high-volume industrial production, integrating precision-controlled blasting with automated transport, ensuring uniform surface preparation with minimal labor requirements.

Whether used for aluminum extrusion prep, coating removal, or industrial part finishing, these machines provide repeatable quality, high blasting efficiency, and low abrasive consumption thanks to their advanced media recycling and filtration system.



1 Full Automation
Continuous blasting without operator presence via motorized conveyor and PLC.

2 Multi-Nozzle Manipulation
Top and side blasting with nozzle movement across multiple axes.

3 Media Recycling & Filtration
Air-wash and sieving systems separate reusable abrasive for low-cost operation.

4 Durable Construction
Heavy-duty steel build with manganese liners and anti-abrasive rubber protection.

- ### How it works

 - 1. Loading**
Workpieces such as tubes, profiles, or bars are loaded onto a motorized conveyor system. This can be done manually or with automation. Safety sensors monitor the position and status of incoming parts.
 - 2. Program Selection**
Operators select pre-defined blasting programs. Each program controls conveyor speed, nozzle movement, media flow rate, and cycle duration. Multiple parameter sets can be saved and recalled for different parts.
 - 3. Blasting Process**
As the part enters the cabinet, it passes through one or more rings of injector blast nozzles positioned on servo-driven manipulators. These nozzles blast from the top and sides, automatically adjusting to the geometry of the part. Oscillating rings ensure full 360° coverage for tubular workpieces.
 - 4. Cleaning and Media Recycling**
Upon exiting the blasting chamber, integrated blow-off nozzles clean residual abrasive from the part. The abrasive is collected in a waffle-type hopper, cleaned via cyclone and sieving system, and then returned to the generator for reuse.
 - 5. Unloading**
Blasted parts exit the machine via the conveyor. Depending on configuration, finished parts may be returned to the operator's position for one-side operation or forwarded to the next production step.

Specification BLASTLINE

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	BLASTLINE 3-9 ECO	BLASTLINE 10 INJ ECO	BLASTLINE 12 INJ ECO
Chamber Size (LxWxH mm)	1800 × 1800 × 1500	2500 × 2500 × 2200	1500 × 1500 × 2200
Workpiece Type	Tubes & Profiles	Tubes & Profiles	Tubes & Profiles
No. of Blasting Guns	9	10	12
Nozzle Manipulators	2 rings (oscillating)	1-axis manipulator	2-axis + 1-axis
Nozzle Manipulators	Oscillating ring	Horizontal X-axis	Dual-axis (X, Y)
Conveyor Type	Motorized rollers, 2x4m	Motorized rollers	Motorized rollers
Control Interface	FerroSmartPanel (PLC HMI)	FerroSmartPanel (PLC HMI)	FerroSmartPanel (PLC HMI)
Abrasive Type	AlOx F100 / F120	Glass Grits	AlOx F180
Media Recovery	Cyclone + Vibratory Sieving	Cyclone + Vibratory Sieving	Cyclone + Vibratory Sieving
Filter Unit	CENTRO 4/6 ECO-500	CENTRO 4/6-700	CENTRO 4/6-700
Air Consumption (Nm³/min @ bar)	~12 @ 6.0	9.5–11 @ 6.0	15–18 @ 6.0
Power Supply (kW)	6.0	14.0	14.0
Pressure Supply Conn.	1 ¼"	2"	2"
Operation Mode	Fully Automatic	Fully Automatic	Fully Automatic
Optional Manual Station	•	o	•

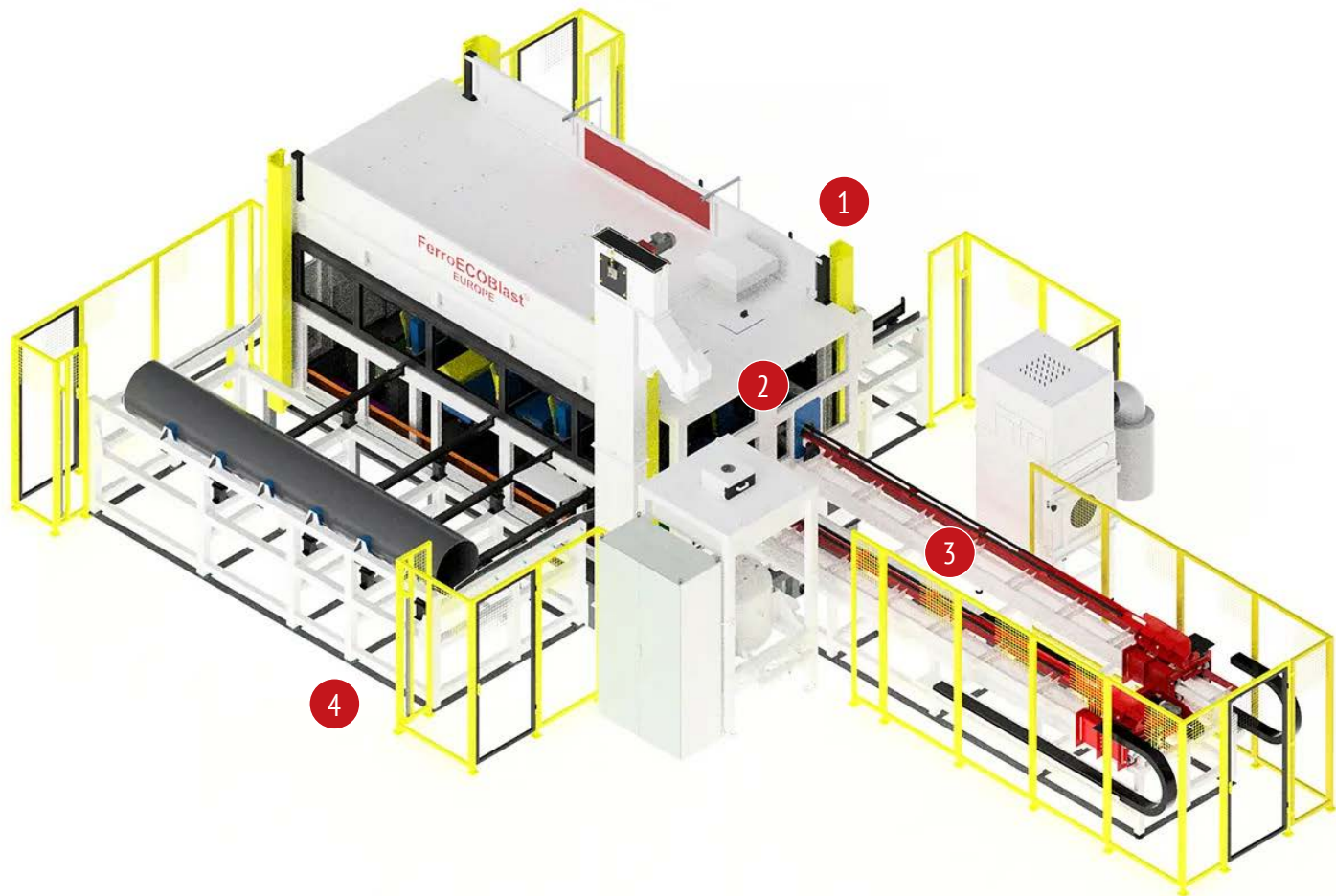
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PIPEBLAST BLASTING SYSTEM

For internal and external surface preparation of pipes and tubes.

The Pipeblast series offers fully automated and semi-automated blasting systems for the internal treatment of industrial pipes, delivering consistent SA 2.5–3 cleaning grades. Each solution ensures thorough internal surface preparation essential for high-performance coatings and industrial longevity.

Machines are designed for pipe diameters from Ø40 to Ø640 mm and lengths from 300 mm to 12 meters or more if requested. Integrated PLC control, automated nozzle drives, and synchronized loading/unloading systems ensure 24/7 operation with minimal manual input.



Automated Pipe Loading Ramp
Pipes loaded from forklift or conveyor and load them onto support fixtures.



Servo-Driven Manipulator
Precise internal lance moves axially through the pipe for full 360° internal coverage.



Adjustable Roller Fixtures
Pipes are clamped and rotated to match diameter and blasting pattern.



Automated Unloading Station
finished pipes are ejected to a soft-end ramp or exit track, ready for next operations.

How it works

- 1. Pipe Loading**
Pipes are manually or automatically loaded onto a V-shaped support ramp or roller bed. Pneumatic or motorized levers guide them into position within the blast cabinet. The pipe is then clamped between rotating supports, which are height-adjustable to ensure coaxial alignment with the blasting lance.
- 2. Program Selection**
The operator selects a pre-set blasting recipe from the HMI touchscreen, depending on pipe diameter, length, and coating requirements. This automatically adjusts the lance position, blasting pressure, pipe rotation speed, and lance travel stroke. Parameters are stored and can be recalled for repeatable cycles.
- 3. Blasting Cycle**
Once initiated, the internal lance (fitted with a 360° or rotary nozzle) moves axially through the pipe. Simultaneously, the pipe rotates to ensure even abrasive coverage across its entire inner circumference. In advanced systems, external nozzles also operate concurrently for full OD cleaning. Blasting speed and lance return rate are servo-controlled for consistent finish.
- 4. Blow-Off and Unloading**
After blasting, the lance activates a high-pressure air blow-off cycle to remove residual abrasive and dust. The pipe is then released from its clamps and automatically guided to the unloading ramp or roller track for easy removal and reloading.

Specification PIPEBLAST

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	PIPEBLAST 40/85 ECO	PIPEBLAST 1500 ECO	PIPEBLAST 80/500 ECO
Pipe Ø Range (L × W × H mm)	40–85	80–150	80–500
Max. Pipe Length (mm)	2000	1500	4000
Nozzle Type	1x Lance + 1x Manual	1x Horizontal Axis	2x Internal + 2x External
Pipe Rotation	•	•	•
Nozzle Travel (Auto)	•	•	•
Manual Blasting Mode	•	•	×
Filter Unit	CENTRO 4/4 ECO 500	CENTRO 4/4 ECO 500	CENTRO 4/4 ECO 500
Loading/Unloading Ramp	o	x	•
Control Interface (HMI)	•	•	•
Program Memory	•	•	•
Pneumatic Doors	•	•	•
Full Recycling System	•	•	•
Air Consumption (Nm³/min)	6–8	2.5	6–8
Electric Power Supply (kW)	7.6	5.0	7.6
Pressure Connection	2"	1¼"	2"

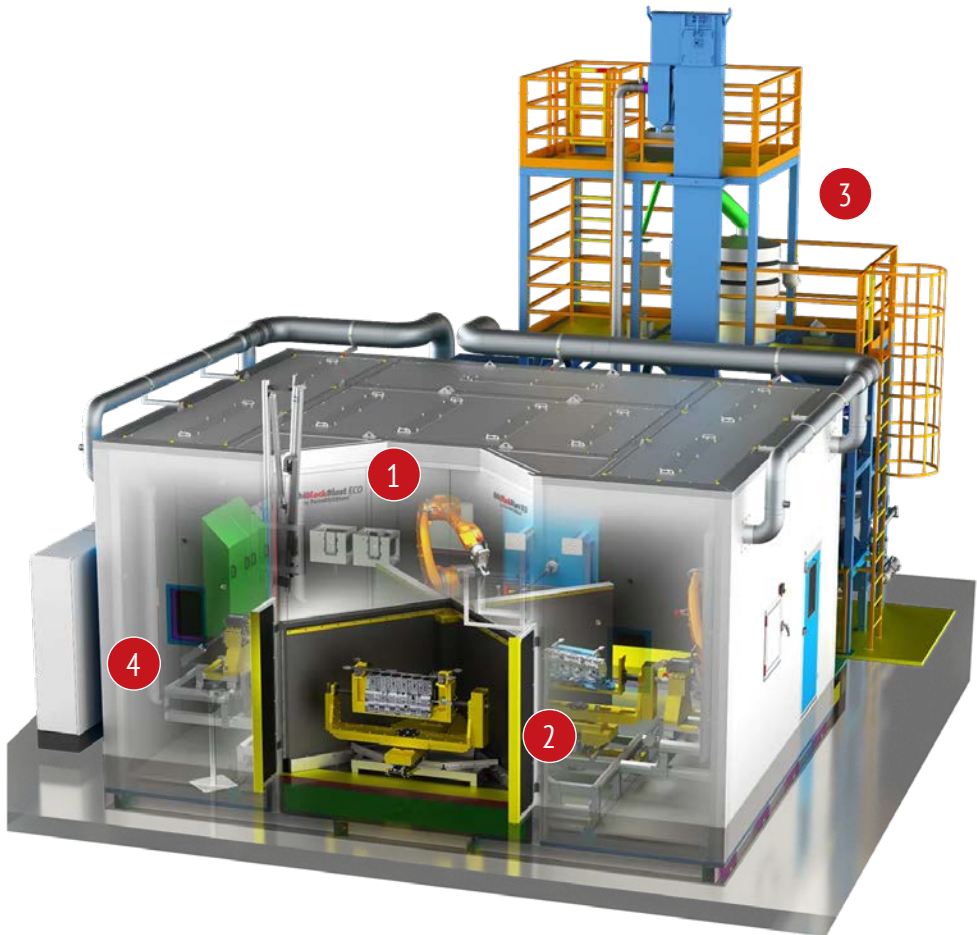
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ORBITBLOCKBLAST BLASTING SYSTEM

Automatic internal sandblasting systems for engine blocks and cylinder heads

The OrbiBlockBlast is a modular, fully automatic internal sandblasting system engineered for the precise cleaning of complex internal geometries in engine blocks, cylinder heads, and similar castings. It is **custom-built** for automotive and heavy-industry applications where reliability, flexibility, and process consistency are essential.

With multiple stations, robotic manipulators, and programmable blasting recipes, removing casting sand, rust, scale, and other impurities from water jackets, air channels, and combustion pockets.





Robotic nozzle manipulation
Up to 4 manipulators, programmable on X, Y, Z axes.



Rotary Satellite Table
Indexing system supports 4–8 fixtures, up to 2500 kg capacity.



Automatic Media Recover
Closed-loop system with cyclone separator and classifiers.



FerroSmartPanel Interface
Easy programming of blast cycles and media flow.

How it works

- 1. Loading**
A part is loaded manually with a crane or automatically via robot. The part is mounted onto a rotary satellite with custom clamping fixtures that ensure consistent positioning and orientation.
- 2. Program Selection**
Operators select a blasting recipe through the FerroSmartPanel. Each recipe includes parameters for nozzle movement, media flow, pressure, and cycle time. Access levels control who can change what.
- 3. Blasting Process**
The satellite indexes into the blasting chamber. Robotic manipulators, equipped with adjustable tungsten or boron carbide nozzles, clean the internal surfaces using high-velocity abrasive streams. Depending on the geometry, internal rotary lances are also used to access narrow or curved cavities. Manipulators can move vertically and horizontally in programmable steps.
- 4. Cleaning and Finishing**
After blasting, internal and external blow-off stations remove all residual media using compressed air. Collected abrasive is recycled and is automatically returned to the blasting generator.
- 5. Unloading**
Once finished, the part rotates to the unloading station and a new part can enter with each rotation initiating a new tact in the process.

Specification ORBITBLOCKBLAST

* **Please note:** This is a sample specification. Each machine is **custom-made**, so the data may vary based on specific requirements and purposes.

	ORBITBLOCKBLAST 4/2 ECO	ORBITBLOCKBLAST 8 ECO	ORBI-BLOCKBLAST
Blast Chamber Dimensions (L × W × H mm)	2000 × 2000 × 2400	6000 × 6000 × 3500	6000 × 6000 × 3500
Workpiece Types	4 engine blocks	4- 6 cylinder heads	blocks and heads
Turntable Configuration	4 (2 blast, 2 load)	8 (6 blast, 2 load)	4 (2 blast, 1 load, 1 blow-off)
No. of Manipulators	2	4	2
Nozzles per Manipulator	2	2 dual, 2 single	1 dual, 1 single
Internal Rotary Lance	o	•	•
Cycle Time (min)	4	3-6	4
Satellite Payload (kg)	500	500	500
Blasting Generator	TZP 100/60 x2	TZP 500/200	TZP 500/6
Abrasive Type	Steel shot S170–S230	Steel shot S170–S230	Steel shot S170–S230
Media Recovery System	Conveyor + elevator	Seperator + elevator	Cyclone + elevator
Filter Unit	CENTRO 4/4-500	CENTRO 4/6-500	CENTRO 4/6-500
Air Consumption (Nm³/min @ bar)	22 @ 6.0	12-16 @ 6.5	16 @ 6.0
Power Supply (kW)	11.5	10	35
Tool Changer for Lance	o	•	•

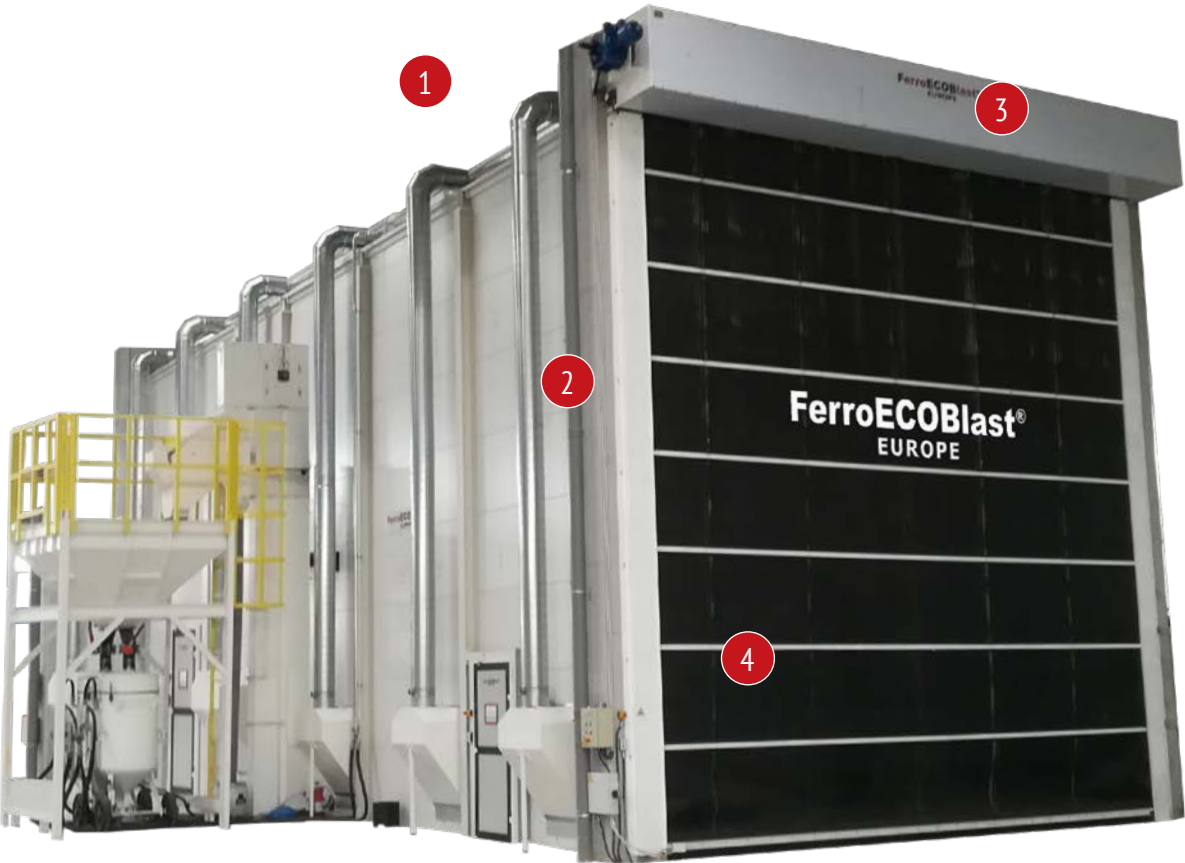
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ABRASIVE BLAST ROOMS

Surface preparation for large-scale workpieces

FerroECOBlast abrasive blast rooms are designed with modular flexibility, these systems are adaptable for manual, semi-automatic, or fully robotic configurations. Whether used in aerospace, shipbuilding, metalworking, or restoration, our blast rooms deliver energy-efficient operation, maximum operator safety, and robust abrasive recycling systems.

Each solution can be tailored to your space and production volume. From basic hopper-style recovery to advanced robotic automation and full-floor scraper systems, we ensure superior blasting performance with every application.



Custom-Tailored Construction

Modular steel or concrete rooms with abrasion protection.



Efficient Media Recovery

Hopper or scraper systems suited to abrasive type and usage.



Certified Operator Safety

Compliant with EU/OSHA, includes protective and air systems.



Flexible Automation Levels

From semi-automatic to fully automated units with PLC control and touch interface.

Operation & Blasting

FerroECOBlast Blast Rooms offer scalable solutions for high-volume surface treatment of large and complex components. Designed for heavy-duty industrial use, each system supports efficient abrasive recovery, controlled blasting environments, and safe operator conditions. From simple setups to fully integrated robotic cells, we ensure precise results and long-term reliability.



Precision Blasting

Automated/manual blast nozzles for precise and consistent surface preparation.



Lighting System

Uniform illumination across the blast room for maximum operator precision and safety.



Soundproof Wall Panels

Acoustic insulation built into the walls reduces noise levels significantly



Overhead Hoist

For safe and efficient manipulation of large or heavy parts reducing manual strain.

Specification

BLAST ROOMS

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	MANUAL	SEMI-AUTOMATIC	FULLY AUTOMATIC
Room Type	Prefab/Concrete	Prefab/Concrete	Modular or Concrete Cell
Automation Level	Manual	Manual + Assist	PLC-Controlled / Robotic
Blasting System	Pressure Pot	Pressure Pot/Multiple Guns	Multi-Nozzle / Robotic Arm
Recovery System	Hopper or Partial Scraper	Scraper System	Full Floor Scraper (Auto)
Dust Collection	Cartridge Filter	Wet/Dry Filter	ATEX Multi-Stage Filter Unit
LED Lighting	Standard LED	Flush-Mount LED Panels	High-Output LED
Soundproof Walls	Standard Panels	Acoustic Panels	Heavy-Duty Isolation
Operator Safety	Helmet, Gloves, Suit	Air Monitor + CO2 Alarm	Full Air System + Interlocks
Floor Load Capacity (kg/m²)	250–1000	Up to 2000	Up to 3000+
Overhead Hoist	o	o	• or Robot Arm
Manual Blast Option	•	o	x
Control Panel	Basic Controls	Touch Interface	Full PLC + HMI Interface
Custom Sizes	Available	Available	Available
Media Compatibility	All Abrasives	All Abrasives	All Abrasives + Shot Peen
Installation	Type Indoor/Outdoor	Indoor or Raised Floor	Custom Turnkey / Pit or Flat

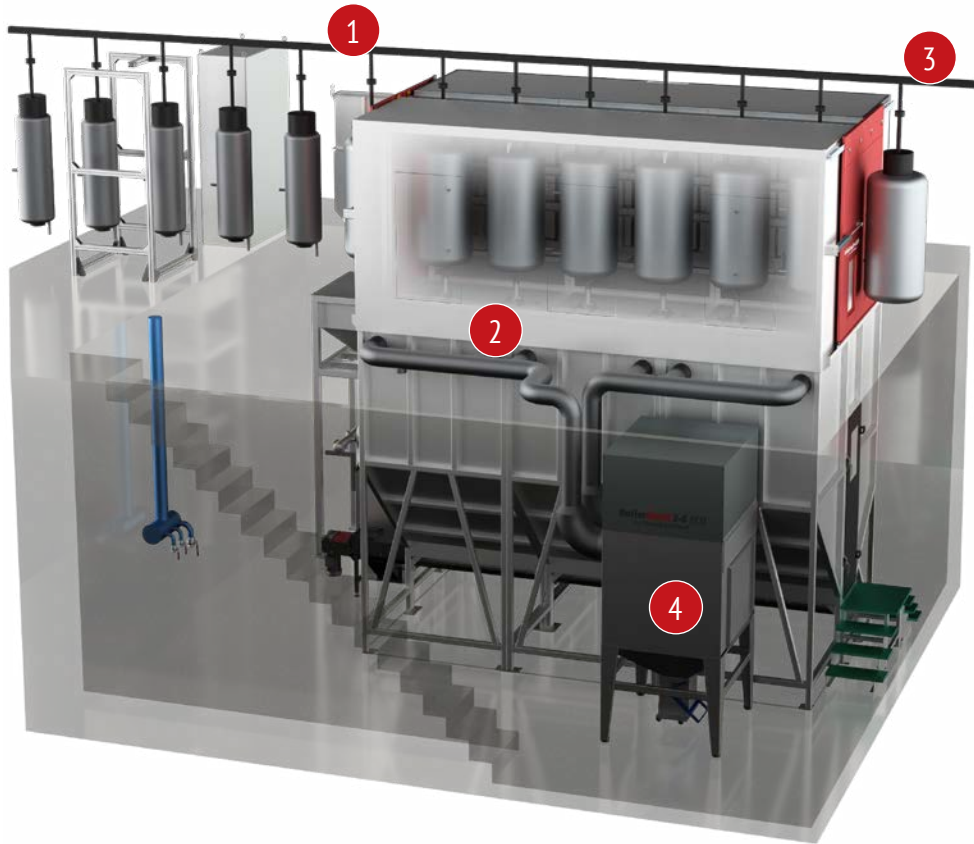
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BOILERBLAST INTERNAL SANDBLASTING SYSTEM

Internal blasting and surface preparation for boilers, tanks, and vessels

BoilerBlast is a series of specialized machines engineered for the internal sandblasting of boilers, vessels, and tanks. Designed to meet the demands of high-throughput industrial environments, it delivers consistent, thorough surface preparation using precision-controlled automation and powerful abrasive recovery systems.

Whether your needs involve fully automated, semi-automated, or orbital blasting processes, BoilerBlast offers the flexibility and efficiency required for today's manufacturing challenges. The system ensures perfect surface readiness for enameling, coating, or further processing.



High Productivity

Capable of processing up to 120 boilers per hour in continuous operation.



Precision Blasting

Blasting lances or nozzles reach all internal surfaces with 360° coverage.



Automated Systems

From semi-automated to fully automated units with PLC control and touch interface.



Media Recovery

Integrated recycling ensures reduced consumption and clean working conditions.

Operation & Blasting Options

BoilerBlast machines are designed to deliver efficient and consistent internal blasting of boilers, vessels, and tanks. Depending on production needs, several system configurations are available ranging from semi-automatic setups to fully automated high-output solutions. Below are the four blasting options offered within the BoilerBlast line:



Single Option

Automatic or semi-automatic solution for blasting one boiler at a time with rotating nest and vertical nozzle.



Orbital Option

Multi-station setup with rotating boilers and dual vertical nozzles for efficient offline operation.



Semi-Automatic Option

Manual loading with automated blasting lances; ideal for small to mid-volume operations.



Through-Feed Option

Fully automated in-line system for blasting multiple boilers per cycle with minimal operator input.

Specification BOILERBLAST

* Please note: This is a sample specification. Each machine is custom-made, so the data may vary based on specific requirements and purposes.

	BOILERBLAST SINGLE	BOILERBLAST ORBITAL	SEMI-AUTO	THROUGH-FEED
Volume Capacity (L)	110–500	200–500	5–50	12.5–500
Boiler Dimensions Min. (Ø x L mm)	Ø400 x 1050	Ø420 x 1200	Ø260 x 263	Ø220 x 300
Boiler Dimensions Max. (Ø x L mm)	Ø450 x 2950	Ø420 x 2100	Ø380 x 580	Ø650 x 1800
Max Boiler Weight (kg)	60	70	15	12–100
Processing Rate (boilers/hour)	~10	~25	~120	12–120
Working Cycle (sec)	~144	~144	~120	90–300
No. of Stations	1	Multi-station	4	Multi-phase (1–4)
Control System	PLC + Touchscreen	PLC + Touchscreen	PLC + Touchscreen	PLC + Touchscreen
Rotation of Boiler	•	•	•	•
Media Recovery System	Automatic Reclaim	Cyclone + Auto Recycle	Cyclone + Auto Recycle	Cyclone + Auto Refill
Filter Unit	CENTRO ECO Unit	CENTRO ECO Unit	CENTRO ECO Unit	CENTRO 4/6 ECO-500
Power Supply (V / Hz / kW)	380 / 50 / 10	380 / 50 / 12	380 / 50 / 11.5	380 / 50 / 11.5–15
Air Consumption (Nm³/min @ bar)	5 @ 6.0	15 @ 6.0	12–15 @ 6.0–8.5	12–25 @ 6.0
Application Type	Single Boiler	Multiple Boiler	Small Boilers	High Capacity Lines
Blasting Mode	Internal Blasting	Internal Blasting	Internal Blasting	Internal Blasting

• - standard | o - optional | x - not available

DENTALBLAST IMPLANT SANDBLASTING SYSTEM

Compact to high-throughput implant blasting solutions

The DentalBlast Series combines two automated surface treatment solutions tailored for dental implant professionals. Whether you're operating a small lab or a high-volume production facility, these systems offer precise, repeatable, and efficient implant blasting.

With scalable capacity, integrated recycling, and ergonomic control, the DentalBlast 420 and 900 deliver clean results and consistent roughness needed for superior implant integration.



1

Scalable Automation
From semi-automatic to fully automated positioning with servo manipulators.



2

Dual Nozzle System
Two nozzles ensure even, consistent blasting across all implant surfaces.



3

Media Recycling
Integrated cyclone system enables continuous abrasive reuse.



4

Compact & Ergonomic
Space-efficient design with easy access and user-friendly controls.

Operation & Blasting Options

The DentalBlast systems are engineered for automated and controlled surface treatment of dental implants, accommodating both small batch and high-volume production. Depending on the configuration, implants are loaded into specialized trays or onto rotating satellite tables. In the 420 model, a 3-axis manipulator with pneumatic gripper positions each implant precisely under dual nozzles for targeted blasting. For the 900 model, the process is fully automated servo-driven arms place implants on a rotary table, allowing for consistent alignment and increased throughput.

Both machines utilize the MiniBlast system with adjustable injection or pressure blasting modes. Dual high-performance nozzles ensure comprehensive coverage, and their positions can be fine-tuned to suit varying implant shapes and sizes. During the blasting process, abrasive media is continuously collected, filtered, and recycled via an integrated cyclone recovery unit, ensuring minimal media waste and clean operation.

Post-blasting, the units allow for automatic or manual air-cleaning of implants to remove residual particles. The entire system is PLC-controlled through an intuitive touch interface, with recipe storage and traceability options for repeatable, high-quality results.

Specification DENTALBLAST

	DENTALBLAST 420	DENTALBLAST 900
Outer Dimensions (L x W x H mm)	1140 x 1040 x 1850	2405 x 1240 x 1950
Implant Capacity (per hour)	120	240
Implant Length Range (mm)	4 – 65	4 – 65
Air Consumption (Nm³/min @ bar)	0.8 – 1.5 @ 6	1.5 – 2 @ 6
Power Supply (V, Hz)	3 x 230/400 , 50/60	3 x 230/400 , 50/60
System Power (kW)	2.5	2.5
Machine Weight (kg)	406	1087
Blasting Type	Pressure/Injection Blasting	Pressure Blasting
Abrasive Media Compatibility	All media types	All media types
Media Recycling System	Cyclone unit with vacuum	Efficient integrated recycling
Control System	PLC with touch display	PLC with touch display
Manipulator Type	3-axis manipulator with rotation	Servo-driven manipulator
Dual Nozzle Setup	Yes	Yes
Protective Cap Handling	Manual	Automatic
Footprint Efficiency	Compact for lab use	Optimized for high throughput

FILTRATION & RECYCLING UNITS

Filtration unit for ventilation and recovery of abrasive material

A comprehensive range of filtration and abrasive recycling solutions to ensure clean operation, efficient media usage, and compliance with the highest environmental and safety standards. From compact filter units to fully customized industrial systems, our technology supports both standalone blast cabinets and the largest blast rooms.

Standard Filtration Unit

The CENTRO recycling filter unit is a stand-alone equipment, which can be connected on any side of the blast machine. It is used for the ventilation and recovery of the abrasive, the cleaning of it and separation of dust. Only good, refreshed abrasive going back in the blasting system.

The separation (cleaning) is done in the cyclone integrated in the filter unit. The performance of that system will enhance the economical and ecological value of your sandblasting equipment.

Whether you're upgrading a single station or outfitting a high-volume blast room, FerroECOBlast filtration and recycling technologies provide reliable, energy-efficient, and fully customizable solutions.



Explosion Proof - ATEX version

FerroECOBlast® specializes for making Risk assessment, design, construction and installation of EX-PROOF and ATEX systems, which mini mize the danger to a minimum or they completely prevent it. In cases of sandblasting of explosively sensitive materials, such as aluminium and

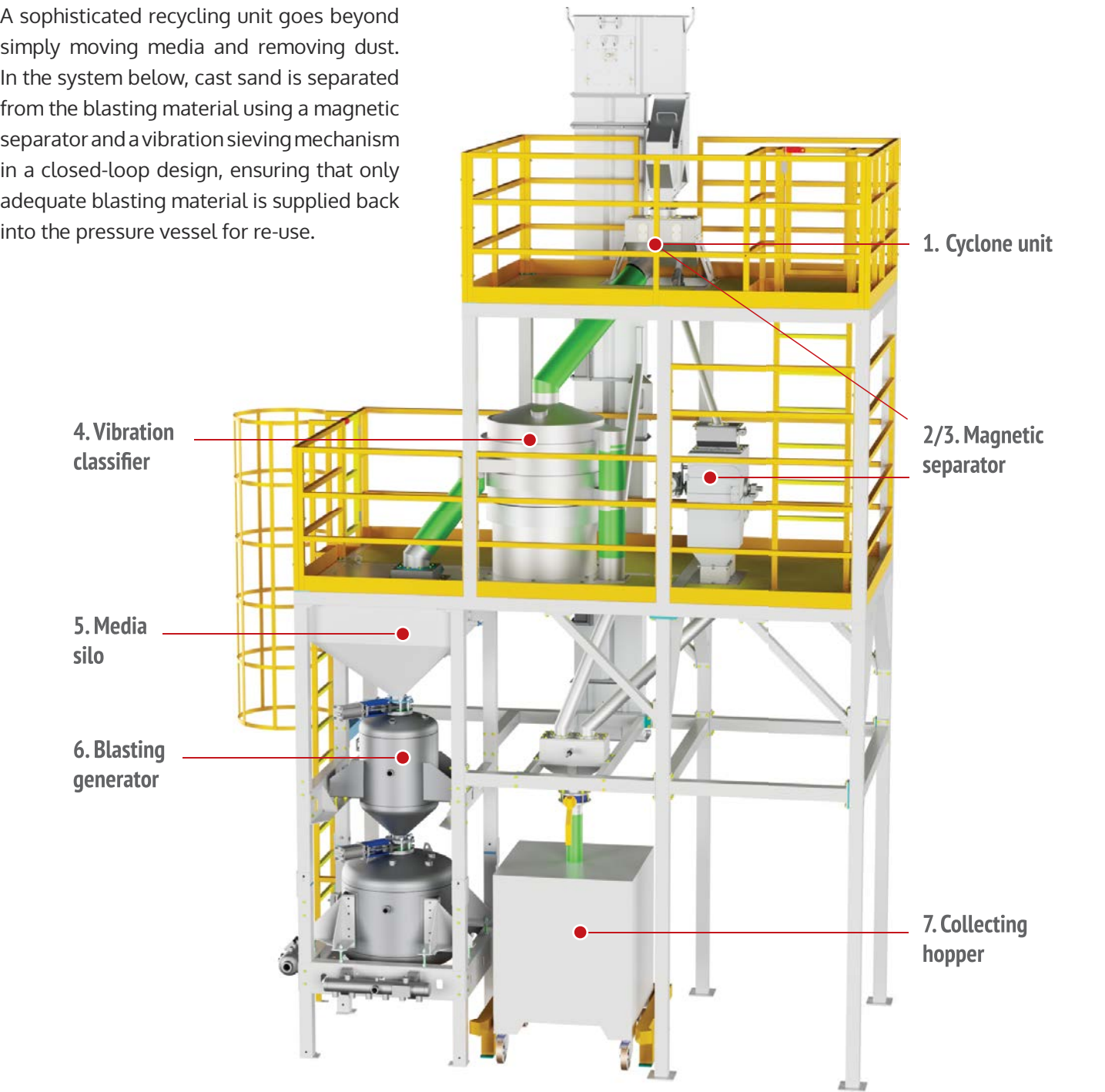
Al alloys, magnesium or titanium and similar, company FerroECOBlast Europe® design, manufacture and supply with machines explosion-tested filtration versions with all necessary certificates and proofs.



Abrasive Recycling Unit

Simple Abrasive Recycling units are always included in all our installations connected together in an environmental ecologically closed circle. For more demanding and larger blasting systems, we have complete systems for extraction, transport, complete recycling and separation of any abrasive medium.

A sophisticated recycling unit goes beyond simply moving media and removing dust. In the system below, cast sand is separated from the blasting material using a magnetic separator and a vibration sieving mechanism in a closed-loop design, ensuring that only adequate blasting material is supplied back into the pressure vessel for re-use.



1. Pneumatic or mechanical transport of used abrasive on the top intake
2. Cyclonic or Cascade course cleaning
3. Magnetic seperator (optional)
4. Vibration Classifier
5. Media silo for recycled media with dosing system
6. Blasting generator
7. Collection Station for dust and waste material

AIR BLASTING
LASER CLEANING & TEXTURING
SHOT PEENING
DENTAL & ORTHO IMPLANT SOLUTIONS
PAINT STRIPPING
3D PRINT POST-PROCESSING
WET BLASTING
ENAMELING & COATING SOLUTIONS
UHP WATER JETTING
DRY ICE & DRY SNOW CLEANING
SODA BLASTING