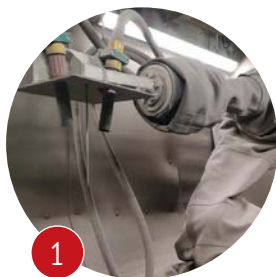
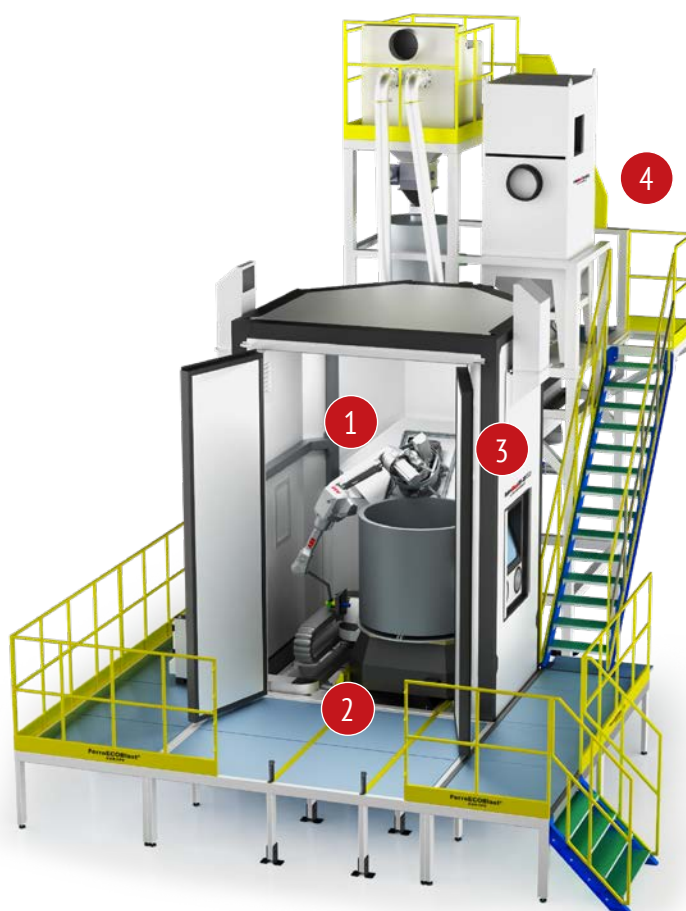


ROBOBLAST BLASTING SYSTEM

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.

**1**

Robotic Manipulation

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

**2**

Motorized Indexing Turntable

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

**3**

Recipe Control

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

**4**

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