CREDO BLAST

Solutions Catalogue

Visit the online shop



CREDO BLAST automatic shot blasting machines

Roller conveyor tunnel, hanger type or in-line under conveyor: machines sized to your parts, installed and supported in France.

Shot blasting comes first

Coating quality is decided before any paint is applied. Shot blasting removes mill scale, rust and old coatings, and creates the anchor profile that makes powder and liquid paint adhere. Automated, surface preparation becomes consistent, fast and free of dedicated labour.



CREDO BLAST roller conveyor shot blasting machine: profiles and plates loaded, continuous throughfeed, blow-off at the outlet.

70 m/s
shot velocity at the blast wheel outlet

120 kg/min
of shot thrown per blast wheel, continuously recycled

0.8–3 m/min
inverter-controlled travel speed, matched to the required preparation grade

Sa 2½
achievable cleanliness grade, depending on initial condition and travel speed

One configuration per type of part

Roller conveyor tunnel

Continuous throughfeed for plates, profiles, beams and long parts. Powered roller tables at the inlet and outlet, blast wheels arranged around the tunnel to treat every face in a single pass.

- Passage openings from 1,000 × 500 to 2,500 × 1,200 mm and beyond
- Roller tables from 3 to 15 m at inlet and outlet
- 4 to 12 blast wheels, depending on cross-section and throughput
- Installation with or without pit, engineered case by case

Hanger type

Batch treatment for suspended parts: welded assemblies, castings, frames. The load rotates in front of the blast wheels for even cleaning on every face.

- Loads up to 10 t, heights up to 5 m
- Manual loading or overhead rail
- Integrates with an existing overhead conveyor



Under the hopper, one abrasive valve per blast wheel: shot feed is controlled individually.

In-line under an overhead conveyor

For high-throughput lines: the blast cabin fits directly under your overhead conveyor, upstream of pretreatment and application. This is CREDO's core business: integration into the complete line.

4 to 12
blast wheels, depending on cross-section and target throughput

10 t
per load on hanger-type machines

2,500 mm
passage width and more, engineered to order

CE
declaration of conformity and full user documentation

The heart of the machine: the blast wheel



Direct-coupled blast wheel: motor, 8-blade wheel and armoured housing.

A shot flow you control

Each blast wheel has its own frequency inverter and an abrasive valve driven by an electric actuator: throwing speed and shot flow are set from the PLC, recipe by recipe, with no mechanical intervention.

CREDO BLAST blast wheel	
Wheel diameter	320 mm
Motor	11 kW · 3,000 rpm, per wheel
Blades	8, Ni-Hard 4, **reversible**: two wear faces, service life doubled
Rear counter plate	**Curved**, not flat: wear spreads over the whole surface for a longer service life
Shot velocity	70 m/s
Shot flow rate	120 kg/min per blast wheel
Control	Frequency inverter + electrically actuated abrasive valve
Contact parts	Blade, distributor and feeding funnel in Ni-Hard 4



The CREDO BLAST signature: every abrasive valve is driven by an electric actuator; shot flow is set from the PLC, recipe by recipe.

Built to last



Blast wheel seen from inside the chamber.



Walls lined with X120Mn12 manganese steel plates.



Dust collector with automatic cleaning and rotary airlock valve.

X120Mn12 armoured chamber

10 mm steel casing lined with 10 mm of X120Mn12 Hadfield steel (12 % manganese): under shot impact its surface hardens up to 500 HB while the core stays tough. The chamber gets stronger as it works. 20 mm of steel around the chamber, 5 mm on the rest of the housing.

Abrasive recycling

Screw conveyors under the machine and under the tables (Hardox 500 protection), with recovery screws in front of the inlet vestibule and in front of the outlet vestibule: no shot leaves the machine. Bucket elevator and rotary-screen separator: the abrasive is cleaned and returned to circulation continuously.

Integrated dust collection

Automatic compressed-air cleaning (7 bar), flame arrestor, rotary airlock valve. The fan runs on a frequency inverter: ventilation speed adjusts to the shot flow being thrown, so the machine only draws the energy it needs. Capacity sized to each machine, several filtration configurations to suit your site.

Abrasive

Steel shot S170 to S780, depending on parts and target finish. The initial charge (2 to 3 t) is supplied by the customer at commissioning; shot size is selected together with our partner suppliers, and shot is available on our online shop.

10 + 10 mm
plate + X120Mn12 lining around the chamber, 5 mm everywhere else

Hardox 500
protecting the recovery screw conveyors

kWh under control
ventilation matched to the shot flow

Technical specifications

Three example configurations of the roller conveyor machine. Each machine is sized to your parts, with 4 to 12 blast wheels.

Roller conveyor tunnel	R 1706	R 2107	R 2512
Passage opening (w × h)	1,700 × 600 mm	2,100 × 700 mm	2,500 × 1,200 mm
Effective blasting width	1,500 mm	2,000 mm	engineered to order
Effective height	400 mm	600 mm	engineered to order
Blast wheels 11 kW · Ø 320 mm	4 to 6	8	10 to 12
Total shot flow	480 to 720 kg/min	960 kg/min	up to 1,440 kg/min
Part length	0.1 to 6 m	0.1 to 9 m	per roller tables
Roller tables (inlet + outlet)	6 + 6 m	9 + 9 m	up to 15 + 15 m
Dust collector	6,000 m³/h	12,000 m³/h	engineered to order
Installed power	≈ 75 to 97 kW	≈ 124 kW	engineered to order

Common to the whole range

Travel speed 0.8 to 3 m/min, inverter-controlled · Ø 133 mm rollers, 750 mm pitch, FAG bearings · one electrically actuated abrasive valve and one frequency inverter per blast wheel · 10 mm chamber + 10 mm X120Mn12 lining, 5 mm housing · Hardox 500 protected screw conveyors · rotary-screen separator · Siemens PLC (TIA Portal), Schneider IP 54 cabinet, remote access · 380 V / 50 Hz, compressed air 7 bar · steel shot S170 to S780, initial charge of 2 to 3 t supplied by the customer at commissioning (available on the CREDO online shop).

Options and beyond the standard

Optional: blow-off and brushing at the chamber outlet, walk-on outlet rollers with gratings for manual blow-off of the parts. And beyond: passage openings up to 2,500 × 1,200 mm and more, hanger-type machines up to 10 t, installation with or without pit, custom roller tables: every project gets a CREDO layout study.

Brand-name components, service based in France

Sub-assembly	Components
Internal lining	X120Mn12 manganese steel (Germany)
Blast wheel wear parts	Ni-Hard 4 cast iron
Screw protection	Hardox 500
PLC / cabinet	Siemens / Schneider
Bearings	FAG
Machine paint	Anti-rust primer + two-pack acrylic topcoat, RAL colour of your choice

Warranty and parts

12-month warranty from commissioning, extension on request. Wear and spare parts available for at least 10 years, in stock and on boutique.credo-engi.com: blades, liners, filter sleeves, shot.

Maintenance and local service, managed by CREDO BLAST in France

- Layout study (pit or pit-free) and technical file
- Transport, assembly and connections
- Commissioning and operator training
- CE declaration of conformity and user manual
- Preventive and corrective maintenance, responsive service team based in Aoste, France
- Remote PLC access: remote maintenance, diagnostics and setting assistance
- Wear parts and consumables stocked in France

48 h
service response time from your call

10 years
minimum parts availability

12 months
warranty from commissioning

72 h
wear parts and consumables delivered from our stock in France

A complete line? One single contract.

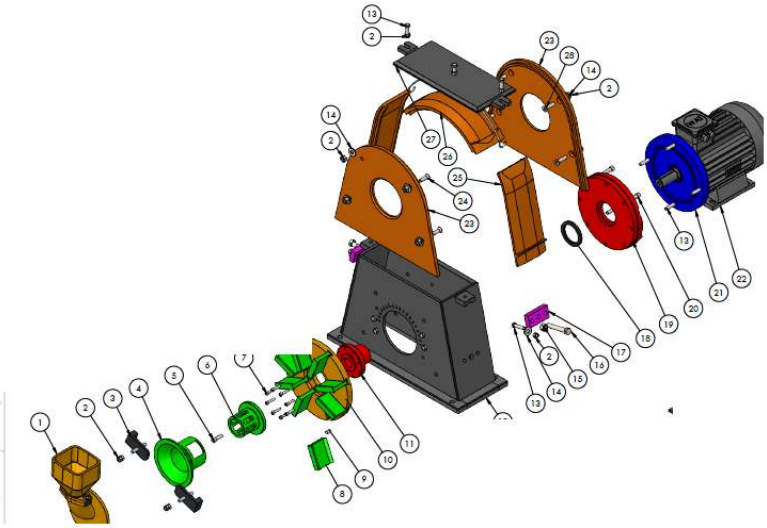
CREDO BLAST integrates with CREDO COAT solutions (application booths and ovens): CREDO designs, supplies and commissions the complete surface treatment line.

Let's talk about your project

A typical part, a throughput, a workshop drawing: that is all we need to size your shot blasting machine and quote its installation.

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Wear parts: TRB 320 blast wheel



No.	Description	Qty / wheel	Service life*	Price excl. VAT
8	Reversible blast wheel blade (Ni-Hard 4) ↗	8	1,000 – 1,200 h	**€ 50.00**
6	Shot distributor ↗	1	400 – 500 h	**€ 175.00**
4	Feeding funnel ↗	1	400 – 500 h	**€ 175.00**
26	Upper protection plate ↗	1	700 – 800 h	**€ 230.00**
25	Side protection plate ↗	2	700 – 800 h	**€ 180.00**
23	Front / rear counter plate (curved) ↗	2	700 – 800 h	**€ 395.00**
10	Blade carrier disc ↗	1	1,400 – 1,500 h	**€ 1,020.00**
–	Filter sleeve 160 × 2,000 mm ↗	per filter	≈ 6 months	**€ 32.00**

* Indicative service lives in continuous operation: they depend on the shot used, the fines content and the throughput. Reversible blades: two wear faces. A quality abrasive and a well-adjusted separator extend these lives significantly. Prices excl. VAT, excl. fitting. Each description links to its page on the online shop.

Available on boutique.credo-engi.com

All CREDO BLAST wear parts and consumables are stocked in France and can be ordered online, reference by reference: 72 h delivery from Aoste, France. Unsure about a reference? Send us a photo of the machine nameplate and we will take care of the rest.

CREDO BLAST

Automatic shot blasting machines sized to your parts, installed, commissioned and supported in France by CREDO ENGINEERING.





At the heart of France's leading logistics crossroads: based in Aoste (38), with direct access to the A43 motorway between Lyon and Chambéry.

CREDO ENGINEERING FRANCE

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