

STRUCTURAL BLASTERS

Setting A New Standard for
Excellence in Metal Finishing.



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Structural Blasters

LS Industries Structural Blasters were designed to add a profile and remove rust, dust, and scale from I-beams, Weldaments, and steel plates. It is an automated pass through shot blaster to blast clean the surfaces of a continuous flow of structural steel, channel, and angle iron using steel shot or grit as an abrasive media for cleaning. The machine line has an opening to accommodate parts with various sizes.



Before



After



Features

• Blast Cabinet

The standard LS blast cabinet is constructed from 1/4" 13% manganese alloy for superior resistance to abrasive wear. The blast cabinet is lined with 1/4" manganese alloy wear plate liner material to protect it from direct impact by the abrasive stream.

• Roller Bearing Seals

LS roller bearings are located outside the machine to allow for trouble free operation without abrasive wear. To further protect the bearings, LS offers the most complete bearing protection on the market with an initial metal internal shield, and a labyrinth closure sealed in by multiple felt and a rubber seal. The labyrinth will divert the shot even when seals are worn out, protecting the bearings on multiple levels.

• Parts Sensor

Don't blast an empty chamber. Our parts sensor saves the life of you machine and reduces maintenance.

• Abrasive Air Wash

To ensure a consistent blast profile, shot is run through an air wash separator. The shot is run down a flat baffle causing it to spread into a thin even cascade of shot. The air is run through shot removing the lighter dirt, rust, and abrasive particles, and depositing them in a trash container.

• Abrasive Feed System

To ensure a consistent blast profile, a precise amount of abrasive is continuously fed to each impeller wheel. The LS blaster uses shot stored in the elevator; lower impeller wheels and shot return vee trays to maintain the proper load.

More features

• Material Handling

The blaster includes as standard equipment a chain-driven live roller conveyor system. Also included in this system is a variable-speed drive controller allowing the operator to select the appropriate throughput speed for the finish desired. Heavy duty to handle your heaviest of parts.

• Electrical

All LS blasters are wired to accept any 440V / 220V / 575V electrical needs. All hand controls are reduced to 24V. All components are UL and CSA registered and all electrical enclosures are rated NEMA 12. A single point electrical connection is required.

• Pneumatic Shot Adder

Write a description

• Media

Arrives with a full load of media (customers choice).

• Colored Amp Meters

Giving you a visual. Easy to read from across the room.

• Dust Collection

All LS Blasters offer a dust collector system sized right for proper balance. The dust collector filters air pulled from the dust cabinet throughout a series of cartridges to remove particulate of contamination and spent shot.



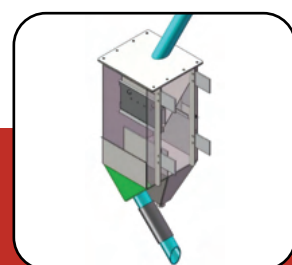
Built in
Wear Liners



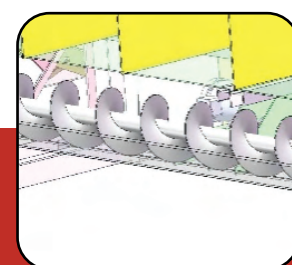
Roller Bearing
Seals



Parts
Sensor



Abrasive
Air Wash



Abrasive Feed
System



Material
Handling



Electrical



Shot Adder



Dust
Collection

Options

More Options

- **Heavy-duty construction**

3/8" blast cabinet walls, 3/8" manganese wear liners, 1/2 and 1/2 cast chrome. Material changes to match your needs.

- **Parts blow off and plow**

Removes shot that builds up on the material as it passes through the blast chamber and returns it to the abrasive reclaim system. Eliminates the need for a secondary manual process.

- **Variable frequency drive (VFDs)**

VFDs allow the operator to adjust the intensity of the blast for optimal cleaning of parts as well as to reduce or prevent warps of thin parts.

- **Magnetic valves**

Magnetic valves allow for precise control of the flow of carbon steel shot to the blast wheels. They allow for a more uniform blast and control of the shot blasting and/or peening process. Magnetic valves have no moving parts to wear out or break and are sealed to prevent media dust from entering the valve.

- **Abrasive resistant augers, elevators**

Abrasive resistant steel is a higher carbon steel that is resistant to the abrasion caused by steel shot and/or grit sliding or rubbing against the components.

- **HMI / PLC touchscreen**

HMI programming has a forced maintenance program that will ensure routine maintenance is performed at the designated schedule. Pop up messages appear on the HMI screen for routine maintenance and inspection of the various items on the machine.

- **Extension conveyors and transfer systems**

- **Slide gate and other air flow controls**



- **Gum rubber vestibule flaps**

Gum rubber is more resistant to being torn by parts as they pass through the blaster. Gum rubber has high tensile strength which allows it to return to form after being stretched.

- **Outdoor package for dust collector**

The outdoor package protects the dust collector fan and controls from moisture. In extreme environments such as cold temperatures (below 0°F or -18°C).

- **Silencer / or sound proofing**

While sound proofing lines the blasting machine to minimize noise. The silencer reduces the dBA of the dust collector to approximately 85 dBA.

- **Service platform**

The service platform allows workers to access all service points of the dust collector. Maintenance is easier and safer because the platform gives the worker space to stand and move around.

- **Service agreement**

Helping you protect your investment.

- **Install package**

Fireproofing which can include but not limited to:

- **Spark trap**

The inline spark trap captures and eliminates sparks in the air stream from the blaster to the dust collector to prevent a fire in the dust collector.

- **Deflagration panel**

The deflagration panel allows for venting of pressure inside the dust collector before an explosion can occur.

- **CO² fire suppression**

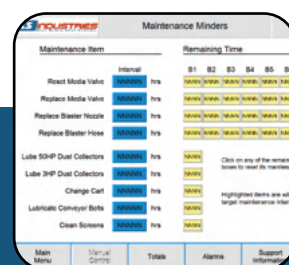
The CO² fire suppression system automatically discharges when it detects an unacceptably high temperature inside the dust collector. It prevents the dust collector from catching on fire and possibly spreading the fire to other parts of the plant.



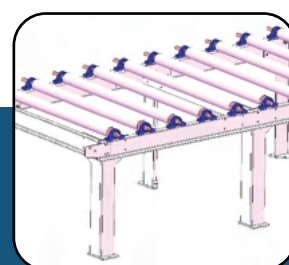
Parts blow off



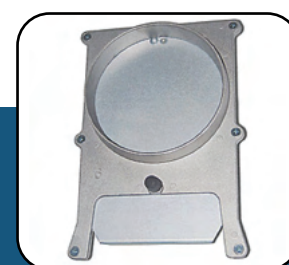
Magnetic valves



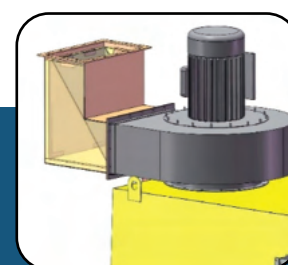
HMI touchscreen



Extension conveyors



Slide gate



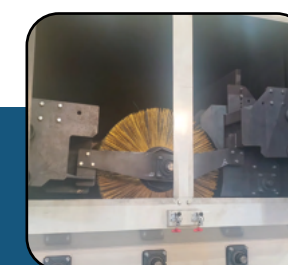
Silencer



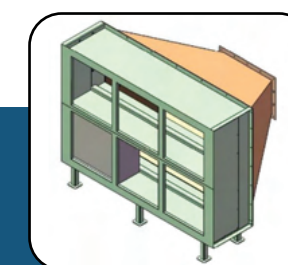
Service platform



Spark trap

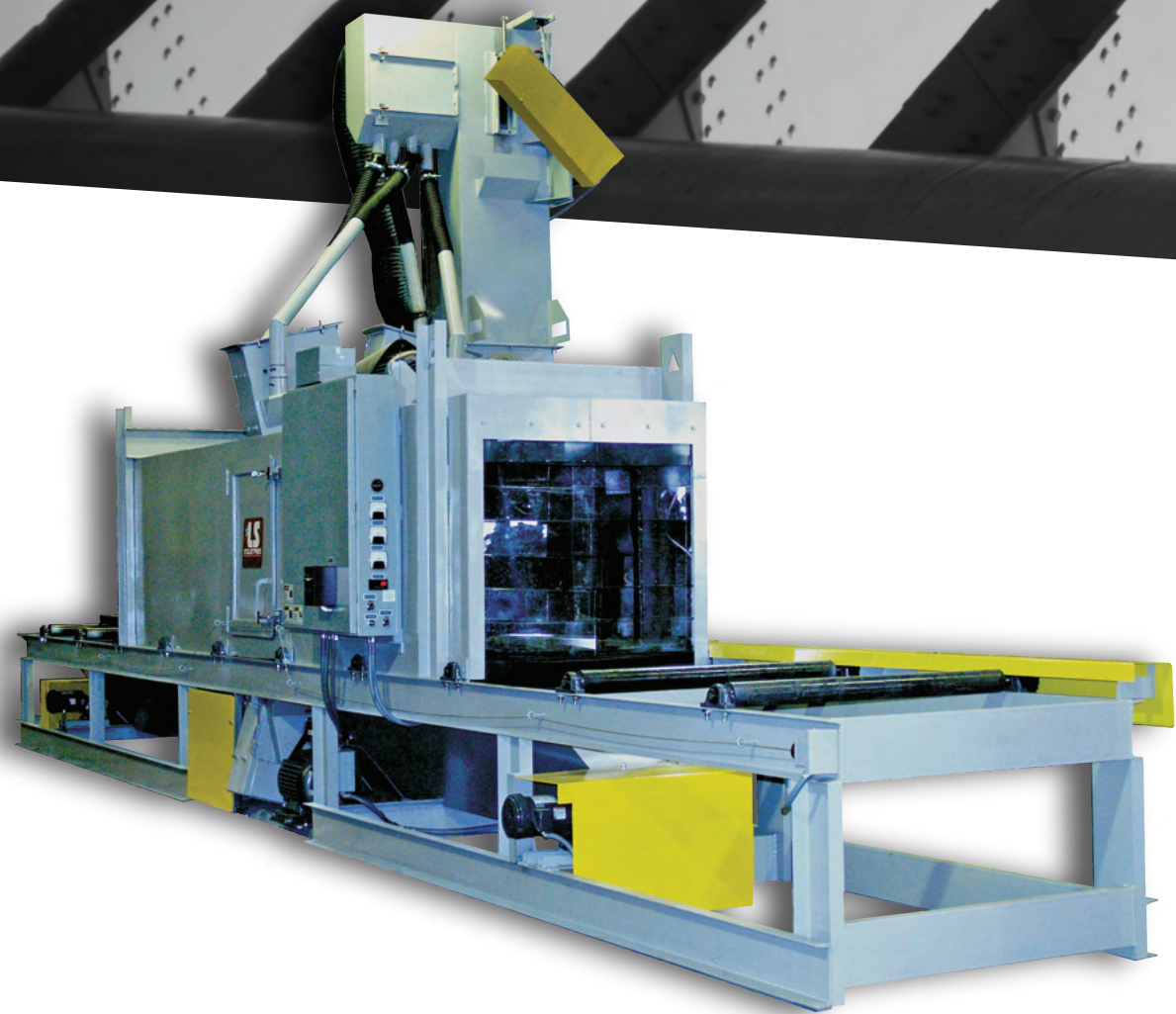


"H" formation blasting



HEPA filters

Why LS Industries?



For 48+ years, LS Industries has designed and manufactures a diverse product line of custom surface treatments and metal cleaning equipment. In addition to the ability to develop custom equipment solutions, LS Industries also provides highly responsive service for your equipment. LS Industries has a global presence as a leader in the design and manufacture of cleaning and surface preparation equipment for structural steel, pipes, and parts washing applications. While our product line has grown to include a wide diversity of cleaning solutions, our depth of experience with high-performance requirements of metal finishing has established LS as the trusted name in the industry. Family owned located in the middle of the map in Wichita, Kansas.

SPECIFICATIONS:

RANGES	MINIMUM	MAXIMUM
OPENING SIZES HEIGHT	12"	168"
OPENING SIZES WIDTH	12"	144"
NO. OF WHEELS FOR COVERAGE	4	24
HORSEPOWER	10	75
WEIGHT CAPACITY (LINER FOOT)	300	1,500
ROLLER SPACING	12"	48"

