



Blast cleaning fabricated steel



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Cleaning applications



Preblast plate and structural machine cleans plate and structural shapes prior to fabrication, includes an abrasive removal blow-off, spill hopper and external roll conveyors.



Plate and structural steel preservation line with automated blast and paint equipment.



Work car machine: For cleaning bridge girders and large fabricated shapes that are best suited for conveying with work car on rails.

Features & benefits



Postblast structural machine: For cleaning fabricated structural steel. Includes a spill hopper and external roll conveyors.



Steel strip descaling systems



Monorail machine includes a roof slot for overhead conveying system, extended vestibules for improved abrasive retention and lighted blow-off enclosure

Wheelabrator offers the industry's greatest selection of standard machines. To meet the needs of non-standard applications, we offer custom designed AutoBlast® systems with the needs of the specific customer in mind. Wheelabrator is committed to finding solutions to all surface preparation requirements.

Wheelabrator designs and manufactures automated surface treatment lines for descaling and coating steel plate and structural shapes. These lines include roll conveyor work handling systems, preheaters, blast cabinets with dust collectors, paint cabinets with ventilation systems, drying ovens and integrated control systems. AutoBlast systems are ideally suited for a multitude of steel descaling and surface preparation requirements.

These applications are found in many sectors of the fabrication industry, including:

- Bridge girders
- Construction equipment
- Light poles
- Military
- Shipbuilding
- Structural and plate
- Tank plates
- Transformers
- Truck and trailer

Designed for use with recyclable steel blast media, Wheelabrator® systems are the environmentally preferred alternative to sandblasting or chemical descaling. The total wheelblast operating cost, including blast media, machine maintenance, electricity and labor, is significantly less per ton of steel cleaned. For ease of installation and convenience, we wire and assemble machines before they ship.

The EZEFIT® Wheel Assembly

A family of blast wheels to satisfy the wide variety of steel descaling requirements:

- 11", 13", 14", 15.5", 16", 17.5", 18", 20", 24", 24.5", 26", & 27" wheel diameters "We have a blast wheel for any application"
- 1800 and 3600 rpm
- Direct drive "D" flange motors
- Cast manganese wheel housings
- 1" thick premium cast alloy housing liners
- Single- and Double-sided bare wheel with integral hub
- 8 and 12 blade wheel assemblies
- TargetLok® control cage positioner



Surface finish specifications

Wheelabrator® equipment is used to prepare steel surfaces to the various degrees of cleaning as illustrated in the SSPC/NACE joint surface preparation standard SSPC-VIS-01. These include: SSPC-SP5 white metal, SSPC-SP10 near white, SSPC-SP6 commercial and SSPC-SP7 brush-off.

The type and thickness of coating applied after blast cleaning determines the desired surface profile. Common profile requirements range from 2 mils to 4 mils and can be achieved by using the proper size steel abrasive. Steel shot sizes from S-170 to S-330 satisfy the majority of steel descaling requirements. Occasionally, a steel shot/grit mixture is used to provide more aggressive cleaning. The most critical coating requirements may specify a grit blasted finish.

Features & benefits

- Wear resistant component parts
- Manganese cabinet construction
- Precision balanced wheel design
- Direct drive wheel motors
- 100% automation integration
- Top quality drives and reducers
- Efficient material handling systems
- Standard and custom electrical and mechanical engineering
- Dedicated customer service
- Global commitment

Options available for Wheelabrator steel descaling systems:

- Vestibule extensions & blow-off enclosures
- Spill hoppers
- Automatic abrasive adders
- Air cannon abrasive removal components
- Wheelabrator abrasive vacuum assemblies
- External entrance and exit roll conveyor
- Monorail conveyors
- Dust collectors designed for blast applications
- HMI Touch Screen controls
- Spreader bars
- After filter for dust collector

Wheelabrator technical centre

Test machines in LaGrange, Georgia are used for customer demonstrations as well as for developing new designs and confirming blast wheel locations and horsepower requirements.