

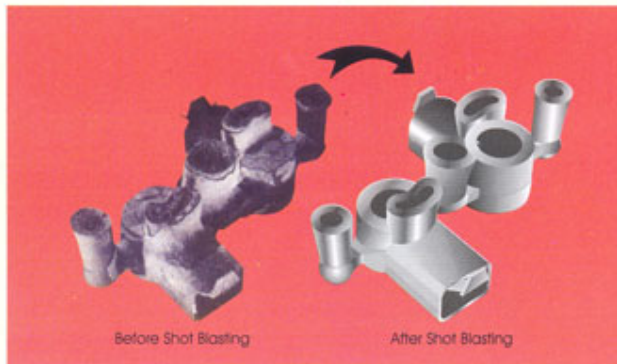
# Surfex

**SURFACE FINISHING EQUIPMENT COMPANY**

**SMOOTH  
COMPLEXION FOR YOUR  
METAL SURFACE**



An ISO 9001:2000 Company



SHOT-BLASTING



**SURFACE FINISHING EQUIPMENT COMPANY**

**What is Airless Shot Blasting Process?**

This is a process of impacting metal shots at high velocity using centrifugal wheel. The work piece which is subjected to blast impact of shot is cleaned of foreign material within seconds. There is automatic device of conveying work piece, recirculation of spent shot and collection of waste particles and dust.

**What is Airless Shot Blasting Machine?**

This is a machine in which shot blast cleaning/peening of the component is done. It entails blasting Chamber and centrifugal blast wheel unit and a Dust Collector. It also incorporates job handling system.

**What is Shot Peening Process ?**

It is controlled shot blasting process which increases fatigue and stress corrosion resistance of material by creating beneficial residual surface stresses. The shots are blasted in controlled condition i.e. shape, size, speed, angle of blast, exposure time and coverage (see table below about increase in fatigue life of parts) are controlled to achieve desired results.

Name of Part	Crank shafts	Leaf springs	Connecting rods	Coil Springs	Gears	Steering Knuckles	Rocker Arms
Life Increased	900%	600%	1000%	1370%	1500%	475%	1400%

**What is difference between Airless and Air Operating shot blasting process?**

Airless Shot Blasting machines employs centrifugal wheel for throwing of shots while air operated blast machine uses compressed air at high pressure for the same purpose. Since blast Pattern of wheel is large, airless machine covers more area and achieve greater production rate, thus they are power efficient. They are automatic in operation and produces homogeneous quality of cleaning, finishing and peening. Metallic shots and grits are used as media in Airless machine. In pneumatic Shot Blasting Machine the costly compressed air is used as a driving force for media. The compressed air is obtained from air compressor. These machines are recommended when output is small and the surface profile of the component is complicate. The shots are thrown by nozzle on to the component. The cost of compressed air is very high. As such, the application of this process is limited.

**Do we need compressed air to operate Airless Shot Blasting Machine ?**

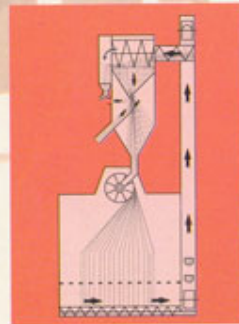
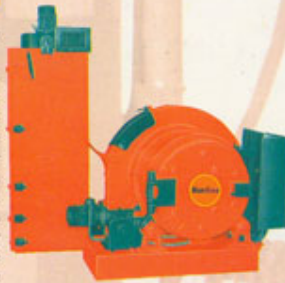
No compressed air is required to operate Airless Shot Blasting machine. However, a small quantum of compressed air may be required for operating shots regulator.

**When airless shot Blasting/Peening should be adopted ?**

When blast cleaning/peening output requirement is high and jobs are of repetitive type needing automation and high quality of cleaning, warrants the use of Airless Shot Blasting system.

**How to select blast media ?**

Mostly chilled iron or steel shots, cutwire shots or grit are used as media for cleaning or peening. The grade and size is selected to meet surface requirement. Consult us for advice on selection.



YEAR OF INCORPORATION : 1977  
 QUALITY CERTIFICATION : ISO-9001:2000  
 ANNUAL TURNOVER : 20 MILLION  
 (Rs. 2,00,00,000/-)  
 IN 2002-2003  
 CONTACT PERSON : Shri K.K. MODI  
 B.Sc., MBA  
 Shri YOGESH MAHESHWARI  
 B.Sc Egg (Hon.) Mech.  
 PLANT AREA : 4000 Sq. Meter  
 COVERED AREA : 2000 Sq. Meter  
 UNCOVERED AREA : 2000 Sq. Meter  
 MAN POWER :  
 WORKSHOP : Design Engineer - 2 Nos.  
 Production Engineers - 3 Nos.  
 Quality Control Engineer - 1 No.  
 Skilled - 10 Nos.  
 Semi Skilled - 20 Nos.  
 Unskilled - 30 Nos.  
 Administrative Staff : Accountants - 2 Nos.  
 Materials Manager - 1 No.  
 Asst. Manager materials - 1 No.  
 Computer Operator - 1 No.  
 Marketing : Sales Engineers - 2 Nos.  
 Agents : MUMBAI, DELHI, CHENNAI,  
 BANGALORE, KOLKATA,  
 AHMEDABAD, ANDHRA PRADESH.

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SURFACE FINISHING EQUIPMENT COMPANY



**always top quality.....**

**SHOT  
PEENING  
MACHINES**



MODERN FABRICATION SHOP

**PRODUCT RANGE**

**Shot Blasting & Peening**

**Machines like :-**

1. Tumbblast type
2. Swing Table type
3. Indexing Table type
4. Rotary Barrel type
5. Hanger type
6. Spinner Hanger type
7. Continuous Loop type
8. Monorail Hanger type
9. Special Purpose Conveyor type Machine for :-
  - i. LPG Cylinders
  - ii. Plate Cleaning Machine
  - iii. Shot Peening Machine for Leaf Spring / Coil Spring
  - iv. Stone Texturing Machine
10. Custom Built Machine as per customer's requirement

**SMOOTH** finish



**Surfex**

**SURFACE FINISHING EQUIPMENT COMPANY**

E-100, MIA, PHASE-II, BASNI  
JODHPUR-342 005,  
RAJASTHAN (INDIA)

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