

A Diverse Line of Blasting Machines

SAND BLASTING



FOUNDRY

OIL
& GAS
INDUSTRY



SHOT BLASTING



AVIATION
INDUSTRY



SHOT PEENING

SHIPPING
INDUSTRY



STEEL INDUSTRY



RAILWAY
INDUSTRY



ABOUT US...

WELCOME TO THE DIVERSE ARENA OF SHOT BLASTING SYSTEMS.....

ADL Blastek Industries is a privately owned and indigenous manufacturing company, which manufactures High Quality "Sand/Shot Blasting & Shot Peening Machines, Blast Room Systems, Paint Spray booths, Surface Preparation Equipments, Industrial Dust Collectors etc.

We manufacture wide range of Shot Blasting/Peening systems in India for various applications to meet the requirements of different sectors in India and abroad i.e. Steel, Power, Construction, Railway, Casting, Foundry & Forgings, Automobile, Aviation, Stone-Marble, Shipyard, Agriculture and Petrochemical, Heavy & General Engineering, Medical.

"Our knack to provide improved customer services, engineering support services, close and immediate attention, and prompt after Sales Service as and when required, has created a vibrant work environment and relations between us and our customers."

Our main priority is to manufacture Best Quality trouble free machines and this is a key feature of our company. Our specialized & experienced team with honed abilities makes ADL Blastek Industries, the ideal choice of customer.

OUR VISION & OUR MISSION

We share the VISION and belief to produce best quality & high performance equipments with anxiety for safety and environment, by continuous technological development and up-gradation. We aim to maintain dignity and equity in relationships with customers through excellent communication and services.

OUR MISSION

Our MISSION is to professionally customize & proactively create diverse products to accomplish Industry & Customer needs.

QUALITY POLICY

We are committed to deliver quality product & services by continuously improving our work process and periodically reviewing effectiveness of our quality management system to meet or exceed customer's expectation.

BRIEF INTRODUCTION TO SHOT BLASTING

Blasting is mainly a process of cleaning & Strengthening (i.e. Peening) the metal surface. In general blasting process, one of many types of abrasive is used to clean a surface and it is used for various purposes such as preventing metal fatigue or stress cracking, as well as for surface hardening and cleaning. The materials commonly used in shot blasting include small steel balls, sand, ceramic balls etc. This process produces the highest bonding character of any other known surface preparation method.

Blasting process is carryout by two types of technologies (machines worldwide) which are as under-

TYPES OF SHOT BLASTING...

AIRLESS SHOT BLASTING/PEENING MACHINES

In these types of machines abrasive media is directly feed to the continuously moving rotor (coupled with Electric Motor) having blades, which fires this abrasive at high velocity on the component to clean them. It is categorized as an airless blasting operation because there is no propellant i.e gas, compressed air or liquid used.

PNEUMATIC OR AIR-OPERATED SHOT BLASTING/PEENING MACHINES

In these types of machines Abrasive media is pushed by the compressed air at sufficient velocity, this abrasive media then strikes the surface of the component under process to clean them. It is categorized as an air-operated blasting operation because there is use of compressed air.

SURFACE CLEANNESS LEVEL

	Unblasted	Class SA-1	Class SA-2	Class SA-2 1/2	Class SA-3
Rust Grade A		<i>No photo supplied.</i> <small>The effort required to remove mill scale on Grade A steel typically results in less cleaning than the minimum JIS allowed for.</small>			
Rust Grade B					
Rust Grade C					
Rust Grade D					

TYPE OF ABRASIVE MEDIA



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Types of SBM

STANDARD AIRLESS SHOT BLASTING MACHINE

ROTARY BARREL TYPE SBM



These types of machines are widely used in small or medium size iron, steel, alloy and non-ferrous castings, forgings, heat treated parts, pressings and fabrications at the lowest possible cost. It is ideal to use in applications requiring the blasting of small, flat, and light components.

TUMBLAST TYPE SBM



These machines are basically designed for batch type operation. This type of machine consist of a tumble cupped shaped rubber belt work conveyor. Tumbling action of the rubber belt conveyor ensures that each and every portion of the component which is under process, will get exposed to the blast stream for through cleaning.

TABLE TYPE SBM

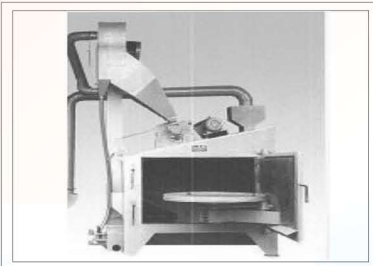


Table type shot blast machines are designed and built as fully integrated blast cleaning systems to handle larger and/or more fragile castings than barrel /tumble machines. Machine consists of door with a work table for handling job/component. Rotational mechanism of table ensures that the upper portion of the component under process will get exposed to the blast stream for through cleaning.

HANGER TYPE SBM



Machine is mostly used for the components having the complicated geometry or the components which cannot be tumbled for quality reasons. Job handling arrangement consists of one/two Rotational Hanger Hooks holding the fixtures for loading components, mounted on the door of the machine. Rotational Hanger Hooks assembly rotates Bi-directionally ensuring that each and every portion of the loaded component will get exposed to the blast stream for through cleaning.

Types of SBM

NON-STANDARD OR CUSTOMIZED RANGE OF SHOT BLASTING/PEENING MACHINES

STONE TEXTURING MACHINE



In stone and marble industry shot blasting process is used for preparing roughness on the outer surface of components, so that bonding with the cement or any holding chemical remain sturdy & also, to make them non-slippery.

·Machine comes with 1/2/3 Wheel (i.e. Rotor) Options, selection mainly depends upon the Component size, Production Output & surfaces to be blasted.

ROLLER CONVEYOR TYPE SBM



The roller conveyor shot blasting machine is best suitable for the shot blasting of round/square/hex bars/rods/plates/ H or I beams/channels/angles/flats/strips/structural sections and supports etc.

It consists of inlet and outlet side Roller conveyors as material handling systems. The components to be blasted are placed on inlet side of the roller conveyor, from where it travels forward and enters into the inlet tunnel and experiences the shot blasting operations. After required blasting operation, blasted material moves forward over the outlet conveyor and come out for unloading purpose.

*Machine comes with 2/4/6/8/10/12 Wheel (i.e. Rotor) Options, selection mainly depends upon the Component size, Production Output & surfaces to be blasted.

DIABOLA TYPE SBM



These types of machines are best suitable for blasting round objects which includes, Pipes, Tubes, solid Bars, Shafts etc. It consists of Diabola Type/Skew Type Material handling system, which helps the components to move forward along with rotational movement. Both movement ensure that the component under process experience the complete blast stream exposure.

Special Diabola Type SBM for LPG/CNG Cylinder.

Machine is specially used for shot blasting of LPG/CNG Cylinders, it comes with 1 / 2 wheel option depends upon the Component size, Production Output.

LEAF SPRING & COIL SPRING SHOT PEENING MACHINE



For increasing the fatigue properties/strengthening of Leaf Springs/Coil Springs, which result in better life of springs and reliable operation shot peening machine are used.

·We special design machine having the special fixtures for holding the leaf springs, so that shot peening effect will be proper in each and every manner

For coil spring machine, special arrangements are provided in machine for rotational & Transverse movement of the coil spring, which ensure complete exposure of the shot peening.

INDEXING/SATELLITE TABLE TYPE SHOT PEENING MACHINE



Indexing table type SPM are used to cater the gears and shafts of the different industries, for inducing a residual compressive stress in its surface thereby improving its resistance to fatigue failure.

·Machine comes with 2/4/6/8 satellite Table option with 1/2/3 Wheel (i.e. Rotor) option, selection mainly depends upon the Component size, Production Output & surfaces to be blasted.

Non-Standard OR Customized Range of Shot Blasting/Peening Machines

CUSTOMIZED HANGER TYPE MACHINE

Customize hanger type machines are best suitable for the shot blasting of many type of components like Wheel Rims, fabricated components, casting forgings, motor body covers, rail coach rims, gears, Heavy industrial component i.e. JCB components, Automobile chasis, silencers, gears, shafts etc just to mention a few.

Y-TYPE HANGER SBM



In this machine Job Handling system consists of Y-type Monorail overhead Conveyor with manual/ motorized Push-Pull trolley mounted hangers.

CLOSE LOOP HANGER TYPE SBM



In this machine Job Handling system consists of Close Loop overhead Monorail I-beam type Conveyor with manual/ motorized Push-Pull trolley mounted hangers.

IN-OUT (I/O) HANGER TYPE SBM



In this machine Job Handling system consists of In-out type overhead Monorail I-beam type Conveyor with manual/ motorized Push-Pull trolley mounted hangers.

*Machine comes with 2/4/6/8/10/12 Wheel (i.e. Rotor) Options, selection mainly depends upon the Component size, Production Output & surfaces to be blasted.

PLATE PRESERVATION LINE



This type of system provides complete surface treatment for plates. A typical plate preservation line consists of ---Inlet Roller Conveyor ----Pre Heater----Shot Blasting machine ----Automatic Spray Painting Line ----Slat Conveyor----Baking or Drying Oven-----Outlet Conveyor.

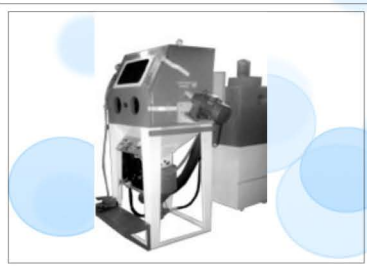
Standard Pneumatic OR Air-operated Shot Blasting/Peening Machines

PORTABLE ABRASIVE BLASTER



Portable Abrasive Blaster is mostly used sand/shot blasting machine in industry because of its easy to handle technique and easy portability. This blaster is equipped with wheels, so that it can be taken from place to another without any hustle.

PRESSURE BLASTER



Pressure blaster mainly works on the direct pressure principle of blasting. The pressure blaster produces high abrasive velocity which results in completing the job at a faster rate. In this type of unit, the abrasive is held in a pressurized vessel and is pushed from behind, out of the nozzle and onto the target.

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Standard Pneumatic OR Air-operated Shot Blasting/Peening Machines

SUCTION BLASTER



Suction Blaster works on induction-suction principle of abrasive delivery. The suction machine, also known as a siphon, is most commonly used for light production and general-purpose cleanup. In this type of unit, air passes through the gun, creating a siphon action that sucks up abrasive and delivers it to the nozzle where it is propelled out to the target.

WET BLASTER



Wet blasting, also known as slurry blasting is similar to a dry blasting. However, unlike dry blasting, wet blasting uses a third element – liquid – to enhance the levels of surface finish that can be achieved. It works as well removing oily scale and corrosion from engines as it does etching aviation composites or adding precision textured finishes to delicate medical instruments.

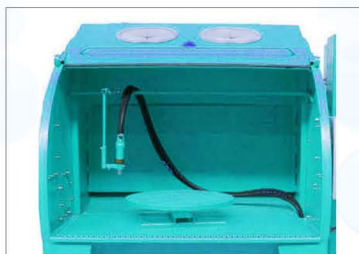
Optional Accessories for above standard Pneumatic OR Air-operated Shot Blasting Machines

TUMBLE BASKET



This accessory is generally used for catering the small jobs, so that they can be blasted in a one lot. Continuous tumbling action ensures complete exposure of blast stream. Thus batch production is possible with this accessory.

INSIDE MANUAL TURN TABLE



This accessory is opted, so that operator can rotate the job inside the blast cabinet to blast the other side of the components. This save the time of getting out the component and again placing them with other face in front position.

TRACK EXTENSION WITH WORK CAR



Track with Manual work car is used, so that loading and unloading of the heavy job can be done easily inside and outside the blast cabinet.

Non-Standard OR Customized Range of Pneumatic OR Air-operated Shot Blasting/Peening Machines

INDEXING TABLE TYPE SHOT PEENING MACHINE



Pneumatic Indexing table type SPM are used to cater the gears and shafts of the different industries, for inducing a residual compressive stress in its surface thereby improving its resistance to fatigue failure.

·Machine comes with 2/4/6/8 satellite Table option with 1/2/3 Blast Nozzles option, selection mainly depends upon the Component size, Production Output & surfaces to be blasted.

ROLL ETCHING MACHINE



We design special Pneumatic Roll Etching Machines for specifically shot blasting/Etching Steel Rolls of the steel strip production process, so that stringent tolerance of the roll can be maintained over the time.

ROBOTIC SHOT PEENING MACHINE



Robotic Shot blasting machine are specially designed and programmed to shot blast or shot peen components in which preciseness is mandatory for the quality and effective working of the components. For examples blades of aircrafts Engines, Aerospace components, Automobile components of super cars etc.

MOULD CLEANING MACHINE



Now a day's shot blasting process is also used to remove the impurities and foreign particles, which get deposit on the inner surface of the casting Moulds used in various industries like, Tyre Manufacturing, Shoes Manufacturing industries etc.

ADL BLASTTEK INDUSTRIES

Reg. Office- 3-A, Subhash Nagar, Pal Road Jodhpur-01

Head Office & Works- H-353, Phase-II, Sangaria Industrial Area, Jodhpur-13

Phone No-+91-291-2764848 Contact Person- Mr. Devendra Gahlot (Director Marketing)

Mob No. -+91-9116000959 E-Mail- adlblastek@gmail.com / admin@adlblastek.com

Website- www.adlblastek.com

Gujarat - Delhi - Pune - Chennai

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