

Technical Safety Data Sheet

Equipment Name: Automated High Pressure Blast Equipment

Manufacturer: Abrasive Blast Systems, Inc.

Address

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Equipment Description: This equipment is designed to strip paint and corrosion from cylindrical exercise mines (non-explosive). The system consists of a blast cabinet, intensifier pump, and filtration system. The blast cabinet is an all-welded, stainless steel-constructed enclosure with four viewing windows. The left side of the cabinet has an adjustable end roller which prevents the mine from shifting position during blasting. Hydraulic hoses are fed into the right side of a cabinet using a movable chain. The cabinet is equipped with two incandescent lights with protective globes. The cabinet access is through a hydraulically-activated clamshell-type door. The cabinet is equipped with variable speed rollers on which the mines rotate. Two blast nozzles direct a high pressure water jet across the outside surface of the mine while moving horizontally across the carriage. A sump pump with float switch is mounted at the bottom of a hopper that activates at a preset water level to empty the blast waste water into a filtration system. The high pressure water is generated by an intensifier pump.

Precautions for Safe Handling and Use:

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NEVER USE THIS EQUIPMENT ON LIVE ORDNANCE.

Operate equipment in accordance with manufacturer's instructions:

Operation and Maintenance Manual for Intensifier Pump, Model 36-100
Instruction and Maintenance Manual for High Pressure Water
Depainting/Cleaning Clamshell Cabinet

Perform an equipment safety inspection prior to each blasting operation to ensure all connections are tight and hoses are not deteriorated or damaged.

Use rubber matting or non-skid surface in operating area to prevent slipping from water dripping from the blast cabinet during the equipment operation.

Shield electrical components from moisture to prevent shock hazard.

Place a drain pan beneath the intensifier pump to collect any lubricant that may leak during the equipment operation.

Do not use a hand to check for high pressure fluid leaks. Hold a piece of paper or cardboard in the vicinity of suspected leaks.

Do not check for overheating of components by placing hand directly on intensifier components. Heat can be detected by holding hand near a component without physically touching it.

Rinse interior of cabinet after each blasting operation to wash paint chips and other residue into the filtration system.

After each blasting operation use a HEPA vacuum to collect dried, potentially toxic dust resulting from blasting operations. Sweeping could cause the dust to become airborne, creating a respiratory hazard.

Verify all pressure is relieved from the system before disconnecting any hydraulic line from the intensifier.

Prior to performing any maintenance work, contact the manufacturer to obtain lockout/tagout procedures.

Do not use flammable materials such as engine fuel to clean parts during equipment maintenance. Always use non-flammable solvents.

Wear personal protective equipment during equipment operation. See Control Measures section.

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Health Hazard Data:

Chemical Hazard: Particulate matter from the blasting operation may contain toxic contaminants. This blasting residue could become a respiratory hazard if it dries and becomes airborne.

Physical Hazard: Noise. Manufacture stated that the equipment generates noise levels between 80 and 90 dB during operation.

Biological Hazard: None observed

Ergonomic Hazard: None observed

Control Measures

Hearing Protection: Required.

Posting Requirements: The operating area should be posted as follows: “No Unauthorized Personnel Allowed” and “Personal Protective Equipment Required”.