

# Technical Data Sheet

## 300 Ltr Double Chamber Abrasive Blasting Machine



*Note: Read and follow the Blastline Blast machine operations manual and provide proper training for all users of the device in order to achieve a safe and effective blasting operation.*



### Description

Dual blast chambers permit continuous blasting. The 300 liter machine can be equipped with single or twin outlets allowing two operators to work without interruption. In order to avoid frequent and time-consuming filling periods a system of a double-chamber blasting pot has been developed ensuring a permanent provision of the blasting unit with abrasive.

### Technical specification

|                       |                                    |
|-----------------------|------------------------------------|
| Colour                | Hammertone blue                    |
| Capacity              | 300 ltr                            |
| Position              | Vertical                           |
| Height                | 1566 mm                            |
| Diameter              | 632 mm                             |
| Operating temperature | 10-45 degree celsius               |
| Operating pressure    | 0.7Mpa                             |
| Radiography           | No                                 |
| Empty weight          | 213 kg                             |
| Operating weight      | 563 kg                             |
| Hydro test pressure   | Min. - 1.73 Mpa<br>Max. - 1.96 Mpa |

### Features

Two pressure chambers being on top of each other enable continuous filling of the abrasive whereas the upper chamber acts as filling chamber and the bottom one as blasting pot. The volume of each chamber is 150 l. 2 mixing valves can be connected without any problems and by this 2 blasting units can also be connected which can even use jet nozzles with a nozzle diameter of up to 20 mm. Double-chamber blasting pots can be both manually operated, as well as be delivered with remote control and filling control. In case of manual control an operator has to be present at the silo for operation. This operator has to depressurize the upper chamber by opening the air vent and when the abrasive is filled in the pressurizes it again. If the chamber is under pressure again the pressure-force ratio causes the closing cone of the lower chamber to open automatically and the abrasive flows into the lower chamber. If filling is performed manually there is the risk that the bottom chamber is empty and that the abrasive to be filled in from the top enters the compressed-air flow too late; this would lead to the fact that the blaster at the nozzle only gets compressed air for a short time and no mixture of compressed-air/abrasive. This is avoided at double-chamber automatic pots because the time interval of the filling can be exactly adjusted according to the nozzle size.

## Requirements for operation

These items are required but not included with this equipment

- Clean, dry, compressed air of sufficient volume to maintain desired pressure at the nozzle.
- Minimum 12cfm at 50psi needed to close the pop-up valve and pressurize the blast machine.
- OSHA-required remote control system that interrupts blasting if the operator loses control of the nozzle when the blast machine is pressurized.
- NIOSH-approved, type CE, supplied air respirator.
- Grade D breathing-air supply as defined by Compressed Gas Association Commodity.
- Abrasive blast media specifically marketed for abrasive blasting and appropriate for your application.
- Appropriate blast suit, work boots, hearing and eye-protection.

## Applications

Dual chamber blast machine where designed for independent and simultaneous operation for 1 to 2 operators. Continuous is enabled through two working chambers (no interruption of the blast process because of abrasive refill).

## Advantages

- All pots are pressure tested and manufactured with only high quality materials ensuring safety and reliability.
- Double chamber blast pots are up to 35% faster than single chamber blast pots.
- Double chamber blast pots are an economic alternative to bulk blasters.
- Eliminates re-filling downtime.

## Parts List

Refer document 24110 for part list