

Owner's Manual
Meyer Machine & Equipment
Blast Insulation Blowing Machine



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Warranty

Meyer Machine & Equipment Insulation Blowing machines are warranted to be free from defects in workmanship and materials for a period of one year from date of purchase.

The following restrictions apply:

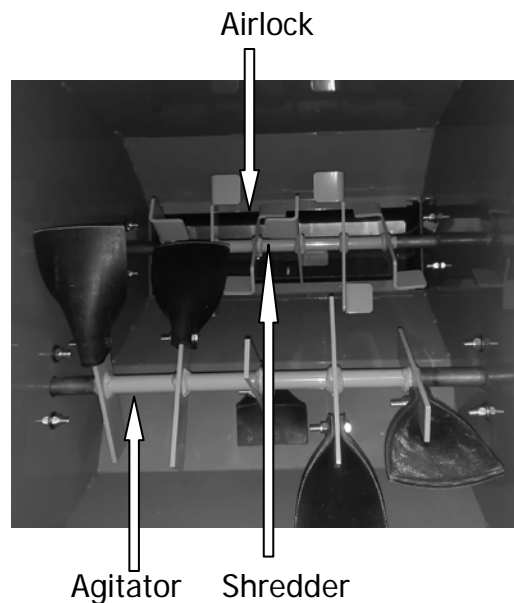
- 1) The warranty applies to products in normal use only. The product must be serviced and maintained as described therein.
- 2) If the product fails it will be repaired or replaced at the option of Meyer Machine & Equipment.
- 3) All shipment / delivery charges are the responsibility of the purchaser.
- 4) Warranty service claims are subject to factory inspection for product defect(s). If during the warranty evaluation it is determined that the machine has been used in any way other than the purpose for which it was designed as described in the Principle of Operations (page 4), Meyer Machine & Equipment reserves the right to void the warranty.
- 5) All warranty claims must be made within the warranty period. This warranty is non-transferable.
- 6) Note that the warranty does not apply if it has been determined after inspection by Meyer Machine & Equipment that the product or product part was damaged by accident, misuse, has been tampered with or modified in any way.
- 7) Normal wear items (seals, filters, belts, paddles, and relays) are specifically excluded from warranty unless found to be defective by Meyer Machine & Equipment.
- 8) Blowers, gear boxes, motors, and engines are covered under the warranty of the manufacturers of those products.
- 9) This warranty is exclusive to Meyer Machine & Equipment Insulation Blowing Machines and shall be in lieu of any other warranty, expressed or implied , which may be available to the purchaser.
- 10) All returned good must be accompanied by a Return Goods Authorization number (RGA). Contact our factory to obtain the RGA number.

Principles of Operation: Blast Insulation Blowing Machine

The Blast insulation blowing machine moves insulation material to specified areas by:

Conditioning insulation materials via agitator / auger shafts so that it can be moved by pressurized air through hoses to the desired uninsulated spaces.

Insulation bales are loaded into the machine hopper. The agitator arms break up the compressed insulation while the auger or shredder moves the material to the air lock opening.



In the airlock, rotating vanes carry conditioned material to the air stream at the bottom of the airlock. As the insulation passes by the air stream it is pushed through the air lock exhaust tube and into the attached blowing hose. Further conditioning of the material occurs as the insulation tumbles through the blowing hose until it exits the hose end.

Maintenance

Check for the following:

Daily:

- 1) Clogged filters (Figure 1, right)

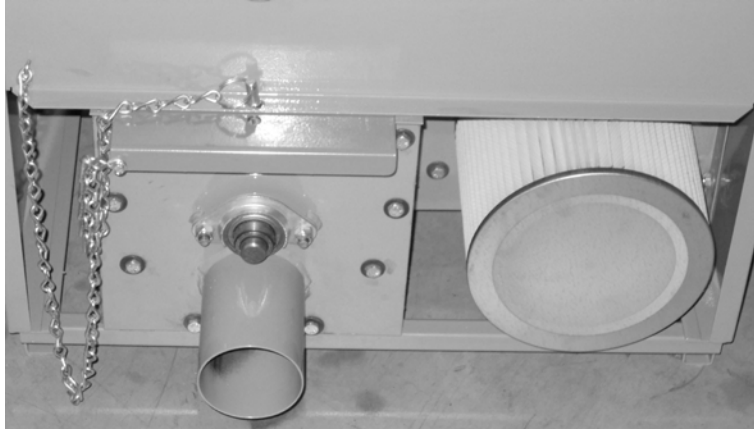


Figure 1

- 2) Insulation build up on motors and electrical components.

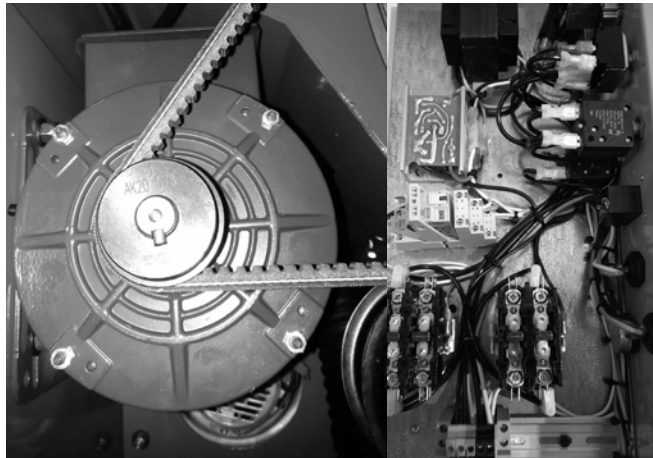


Figure 2

Weekly:

1) *Belt tension and condition* (Figure 2). The belt should not be frayed or slipping on the pulleys. Replace the belt if it is damaged. Raise the belt tensioner to remove any slack in the belt.

Monthly:

1) *Airlock seals*. Check airlock seals using a pressure gauge. A minimum outlet tube pressure of 3.0 psi must be maintained for proper operation. Replace when pressure drops below the minimum per the instructions in this manual.

2) *Chain tension*. Move chain tensioner(s) to remove any slack in the chain.

Note: **Do not lubricate chain** (Figure 2). Lubricants may attract foreign materials to the chain and shorten it's life.

Warnings

- 1) Do not attempt to service machine while running.
- 2) Guards and doors must be in place at all times during operation.
- 4) Do not wear loose fitting clothing or jewelry while using this machine.
- 5) Keep hands, and arms out of the hopper (Figure 3) and away from any moving parts

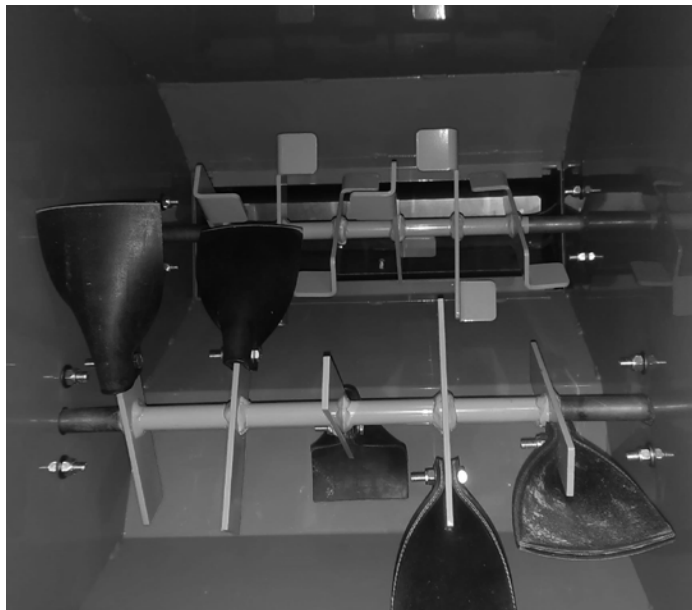


Figure 3

- 6) Do not leave the machine unattended while running.
- 7) Keep hands and face away from hose end while machine is operating.
- 8) Only trained personnel who have read this manual should be authorized to operate this machine.
- 9) Do not use objects to push material in the hopper.
- 10) Keep cutting tools (utility knives for example) away from the hopper opening to avoid having these items fall into the hopper and damage the machine.

Operating Instructions

1) Starting the Blast:

- Plug the (2) power inlets (Figure 4, black cords) into (2) dedicated 15 amp, 120 volt, grounded circuits using 10/3 AWG cords. A third dedicated, 15 amp, 120 volt, grounded circuits using a 10/3 AWG cord is required for the two blower versions.



Figure 4

(Note: When using generators, make sure they are commercial grade and have a minimum wattage of 7500 watts for single blower units and 10,000 watts for two blower machines).

- Attach hardwired remote to Blast remote inlet (Figure 5, orange cord) machine using remote cord. Make sure the remote switch is in the "Off" position.

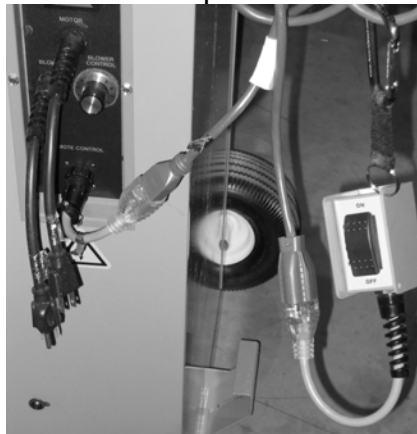


Figure 5

- Emergency Stop should be in the "Off" (out) position (Figure 6, red switch).



Figure 6 (Blast electrical panel shown)

- Open Slide Gate to the appropriate position and secure with pin (Figure 6).
- Depress Start Switch (Figure 6, green) and release. The control circuit and remote are now actuated .
- Set remote switch to "On" for air & material and "Blower Only" for just air.

2) Hoses:

- Attach 2.5" x 50' hose to the Airlock Exhaust Pipe (Figure 7, left) using a hose clamp. Attach additional hose as required using the appropriate connectors / reducers using hose clamps.

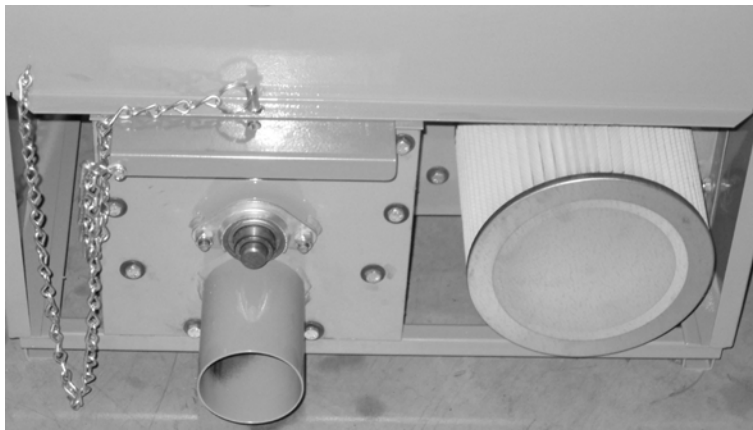


Figure 7

2) Stopping:

- Close the slide gate.
- Set the remote switch to "Blower Only" or "Air" depending on the remote until the hose is clear.
- Turn remote to the "Off" position.
- Push Stop Switch (red). Note: This switch must be pulled out for the controls to function.

3) Override Switch (use only when control circuit has failed):

- Flip up protective cover (Figure 6).
- Actuate toggle switch. Red Indicator Light, blower, and agitator motor should come on. Remote will not affect the function of the override switch.
- To Stop: flip toggle or protective cover down.

Machine Settings

Open Blow:

Slide gate fully open.

Air Speed: 8 - 10

Hose: As much 2.5"x 50' blowing hose as you need to reach all the way to the attic.

Wall Spray (all fibers):

Set material gate 1/2 open.

Air Speed: 6 - 8

Hose: 2.5"x 50' to 2.5"x50' to 2.5"x50' to spray nozzle.

Dense Packing:

Set slide gate open to 1/4 to 1/3.

Air Speed: 8 - 10 (3.0 psi minimum)

Hose: 2.5"x 50' to 2.5"x50' to 2"x50' to reducer to wall tube.

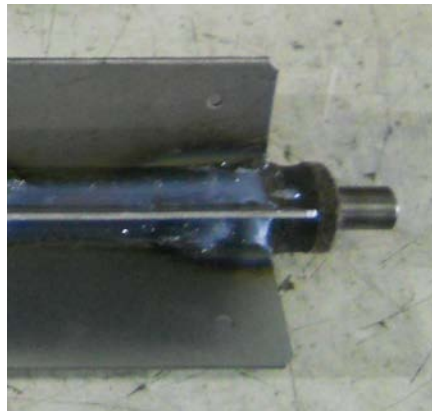
Note: All the above are suggested settings and may vary depending on operating conditions. For attics and dense packing, reduce feed slide gate opening if clogging occurs. Increase opening to maximize production if material is moving freely. For wall spray, reduce gate opening if material is too dry; increase gate opening if too wet.

AIRLOCK SEAL REPLACEMENT INSTRUCTIONS

Regular maintenance on your Blast blowing and spraying machine will extend the life of the equipment and provide better production. Replace all of your airlock seals as soon as a decrease in production occurs. Airlock seal life may vary dramatically because of such factors as type and quality of material used (the more abrasive the material, the shorter the seal life) and damaging objects like knives, hammers, or nails.

TO REPLACE SEALS:

1. Remove airlock drive chain.
2. Remove sprocket on airlock.
3. Loosen set screws on both airlock bearings.
4. Remove bearings on front and back airlock plate.
5. Remove front airlock plate (outlet tube plate).
6. Remove rotor.
7. Remove old seals.
8. Clean rotor and check for damage.
9. Slide felt and foam rings into place as shown below.



10. Put new seals into place with the thinner ply side against the plate that is welded to the rotor; tighten the bolts only slightly.
11. Square up edges and press rubber firmly against felt and foam rings; tighten bolts (bolts are too tight if rubber squeezes out between plates).
12. Check airlock housing for any damage before re-assembly.
13. Reassemble by reversing process.
14. Be sure to promptly replace worn agitator paddles, because worn paddles will also reduce machine production.

Troubleshooting

Problem	Cause	Solution
Machine will not run	1) Power cord(s) not plugged in. 2) Faulty power cord. 3) Circuit breakers not reset. 4) Start Switch (green) not depressed. 5) Faulty remote or remote cord.	1) Plug in cords. 2) Replace or repair power cord. 3) Reset circuit breakers. 4) Depress Start (green) switch. 5) Replace remote or remote cord.
Machine runs without moving material	1) Material slide gate closed. 2) Blowing hose clogged. 3) Blockage between blower and airlock (Machine run without a filter).	1) Open gate to proper setting. 2a) Remove hose clog. 2b) Reduce material feed. 3a) Remove blockage between airlock and blower . 3b) Make sure filter is in place.
Low Air Flow	1) Clogged Filter. 2) Hose too long. 3) Blower Control dial set too low. 4) Air leak into hopper (blowback). 5) Hose between blower and airlock damaged.	1) Replace filter. 2) Shorten hose length. 3) Increase Blower Control setting. 4) Replace airlock seals. 5) Replace hose between blower and airlock.
Remote will not operate	1) Start Switch not depressed. 2) Remote cord not plugged in. 3) Faulty remote or remote cord. 4) Transformer failure.	1) Depress Start Switch (green). 2) Plug in remote cord. 3) Replace remote cord. 4) Replace transformer.
Blower runs, but augers do not	1) Drive Motor thermal breaker tripped. 2) Obstruction in hopper or airlock. 3) Drive belt slipping. 4) Faulty auger relay.	1a) Use 10/3 AWG power cords. 1b) Reset breaker when motor is cool. 2 & 3a) Remove obstruction in hopper or airlock. 3b) Replace drive belt. 4) Replace relay.
Augers turn, blowers don't run	1) Faulty speed control. 2) Faulty blower relay.	1) Replace speed control. 2) Replace relay.