

**Operation Manual
The DeStoner DSP**

AAE



Operation Manual The DeStoner DSP

AAE

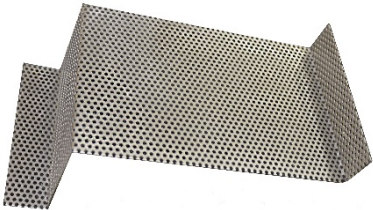
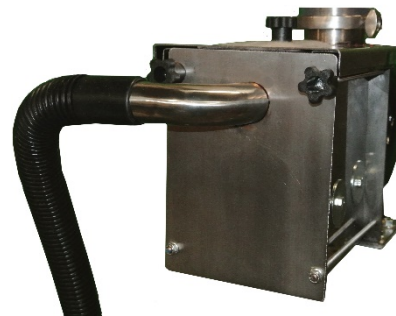
Standard Funnel



Funnel Extension



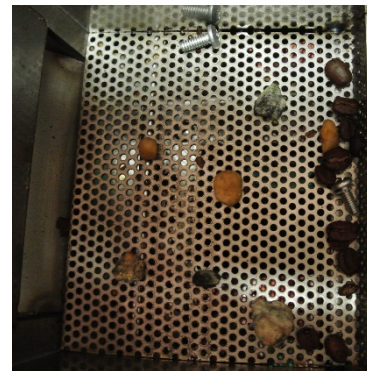
ShopVac attached to vent



Z Screen prevent beans from getting sucked into ShopVac.



Blower with restrictor plate



Fluid bed screen with objects

Operation Manual The DeStoner DSP

AAE

Operating principle

The DeStoner separates stones and other objects that are denser than the beans using fluidization. The beans float across a bed of air that is not strong enough to lift objects that are denser than the beans. Adjusting the airflow can fine tune the separation and change the rate which the beans flow over the bed. In general less air will slow the rate of the beans and separate out smaller stones and other objects that are close to the density of the beans. The DeStoner can be adjusted to remove green beans and quakers. As a general rule is better to run the Destoner as slow as it will convey the beans or finish the roast in the time provided.

Installation

The blower for the DeStoner is in a separate box. Remove the blower from the box and attach it to the DeStoner with the four ¼-20 machine screws provided.

Attached the power cord connector to the blower and tighten with the screw provided.

Place the clear plastic sleeve on to the feed tube mounted on the top of the DeStoner.

The funnel will slide in and out of the plastic sleeve for easy access.

If you have purchased the funnel extension place in the top of the DeStoner funnel.

If you are going to run a ShopVac to collect dust attach the hose to the vent outlet on the back side of the machine. When you run a ShopVac you must have the Z shaped screen in place to prevent beans from getting sucked into the ShopVac. The ShopVac need to have a 1.5" ID hose.

Mounting the Destoner

The Destoner can be placed on a board or similar support laid across the container you wish to fill. You can also mount it on a table or make a stand to avoid lifting the DeStoner. A mounting plate is available or the Destoner can be attached using the base plate on the bottom of the DeStoner.

Operational Adjustments

Bean restrictor plate

The bean restrictor plate control the rate bean can enter the fluid bed. The restrictor plate is mounted inside the DeStoner on the bean entry side. It is held in place by a nut. In most cases it should be open only enough to allow the beans to flow into the bed without stopping or jamming.

Blower air restrictor plate

The blower air restrictor plate is used to control the amount of air flowing to the bed to lift the beans. If there is not enough air to float the beans the beans will not flow over the bed. Too much air will float the beans and small light objects failing to remove small stones similar in density to the beans. The blower restrictor plate can be adjusted by turning the DeStoner on with a full funnel of beans with the restrictor plate fully blocking the blower inlet. Move the restrictor plate down out of the entry until the beans start to flow or you get the minimum acceptable flow rate.

Operation of the DeStoner

The funnel of the Destoner can be filled with the blower on or off. With most beans it will be better to start with the blower off. If the beans jam with the blower off you may need to increase the opening of the bean restrictor plate.

If the blower is adjusted correctly the beans will flow across the bed and exit the bottom of the DeStoner. After the roast has been de-stoned check to see if there is any debris or stones left on the bed. If there are any stones or objects remove them. Never let stones build up on the bed. If you find stones you may run the roast through the DeStoner again to be sure there are no other stones. It is normal for some beans to be left on the screen after running a roast. This can be reduced by running the blower longer or increasing the air flow.

Removing the fluid bed Screen

The fluid bed screen is held in place by the two holding bolts with black nobs. Loosen the knobs to remove the screen. Do not over tighten the holding bolts when replacing the screen.