

AIR & SCREEN CLEANER

MODEL: AS4 | PRODUCT MANUAL



Shown With Optional Air System Kit

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WARNING

While the AS4 machine is in operation make sure all guards are in place and properly fastened. Do not wear loose clothing near any moving parts. Keep hands and fingers away from any moving part while in operation. Disconnect from power source before any service work is performed. Keep children and animals away from machine while in operation.

Failure to follow these precautions could result in serious bodily harm!

DESCRIPTION

The model AS4 air and screen cleaner is a two deck four screen seed cleaner which is designed for close separation of seed/chaff/debris. The model AS4 is equipped with top air aspiration and bottom air. Operated with a 1 ½ HP single phase 50/60HZ motor.

Affordable on farm cleaning

- ↑ Close separation of weed and good seed
- ↑ Pre and final aspiration
- ↑ Ball rack cleaning system
- ↑ Fully adjustable, full width air aspirator
- ↑ Roll feed inlet hopper with rack and pinion flow control

AS 4	Cleaner
CAPACITY	100 - 150 BU/HR
HORSEPOWER	(1) 1 1/2 HP MOTOR (1) 1/2 HP MOTOR ON FAN
SCREENS	36" X 48"
WIDTH	54" 65" WITH AIR SYSTEM
HEIGHT	110"
LENGTH	79" 94" WITH AIR SYSTEM
WEIGHT	1630 LBS 1720 LBS W/ AIR SYSTEM

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SETUP

The AS4 comes fully assembled ready to operate. Ensure machine is level while in operation at all times. Failure to do so would make a sideways movement also shifting your product to one side of the machine and not utilizing the whole screen area. This could also cause excessive vibration or jumping of the machine. The AS4 comes with an 18 inch machine stand that is used to give clearance for a takeaway system.

PARTS OF THE CLEANER

Hopper inlet

The hopper will hold approximately 3 cu.ft. of material. Inside the hopper is the anti-clog feed roll.

Never put your hand or fingers in the hopper while machine is in operation or while connected to a power source. The hopper flow control is located on the rear of the hopper and can be adjusted by the thumb screw. Loosen thumb screw and adjust your flow rate, then tighten thumb screw. From here your product flows through the air aspirator. The material will flow through the air chamber and the light debris will be vacuumed off and discharged before moving into the first of four screens. On the AS4 your material will flow directly onto the top scalper screen.



Hopper Inlet



Hopper Inlet (Interior) - Ant-Clog Feed Roll

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PARTS OF THE CLEANER CONTINUED

Top air aspirator

The AS4 comes with a top air aspirator which pre-cleans the light chaff from the product before the screening process. The top air is adjusted by opening the damper just enough to vacuum off dust and small particles without disturbing any seed. Remember you have the final air chamber to go through to separate out the balance that is left.



Top Air Aspirator

Top Shoe (deck)

The top shoe, or deck, contains: two screens, one top scalper screen, and a bottom fine sifting screen. The top screen will scalp off any large foreign debris away from your product and go into the side discharge chute. Your scalped product will fall through the scalper screen and onto a fine sifting screen, which will sift out any smaller debris, weed seeds, and other material away from the product you are cleaning. It is always important to use the proper size screens for the product in which you are cleaning. Enclosed there is a seed screen size chart showing suggested sizes to clean common commodities. The decks or shoe have an adjustment hanger. Always make sure decks are level in operation. The adjustment will adjust the tilt of the flow to either lengthen the time on the screen (flatten) or tilt up to shorten the length of time on the screen. Always make sure that the screen decks are level before operation to make sure there is no sideways motion on the decks. A level would work best for this.



Top Shoe (Deck)

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PARTS OF THE CLEANER CONTINUED

Bottom Shoe (Deck)

The bottom shoe deck also contains two screens, a scalper screen, which is sized one size smaller than the top deck scalper screen, and a fine sifting screen. The process is repeated to further size your product. The same design for adjustments are used on the second deck, again make sure the screen deck is level.



Bottom Shoe (Deck)

Bottom Air Chamber

The screened grain then goes through the bottom air chamber in which the product will go through a stream of air to blow out any lighter foreign material. This air system is adjustable through a damper control on the fan discharge chamber. This is to be checked to make sure just enough air is used to separate the light foreign material from the good product. It is typical to lose a small amount of good product material in the process. Remember, if you don't lose some good product, there will be foreign material staying with your product. Air is adjusted by controlling the air damper and locking it in position.



Bottom Air Chamber



Bottom Air Chamber Adjustment Cable

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PARTS OF THE CLEANER CONTINUED

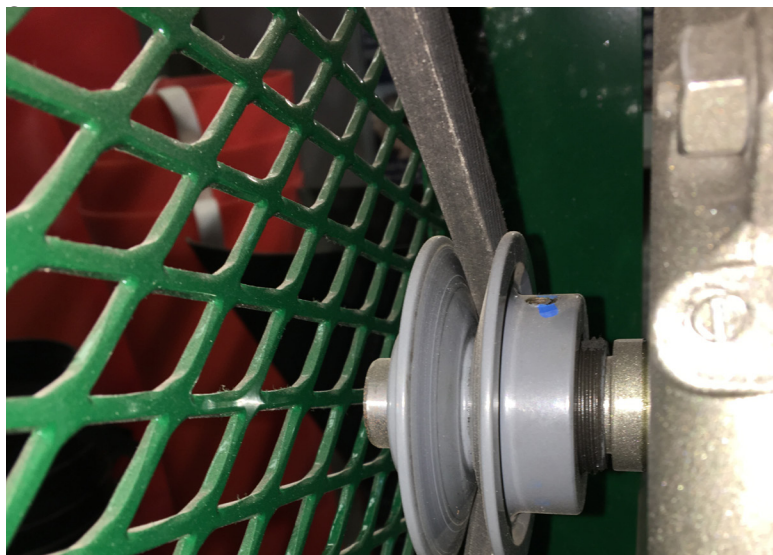
Cleaned Product Discharge

The cleaned product discharge is located to the front behind the heavy air separation discharge.



Cleaned Product Discharge Chute

Adjustable Pulley



Manual Speed Adjustment for Machine

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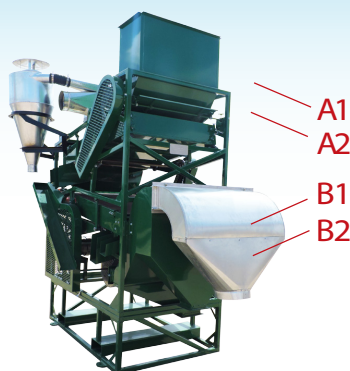


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SCREEN SELECTION

Please see below for a starting point on selecting screens for different common commodities. Remember this is a starting point depending on the growing conditions, crop sizes can vary. The size can vary up to 3 sizes in any particular year.

AS4Cleaner-RecommendedScreenSizes



Commodity	A1	A2	B1	B2
Spring Wheat	16 Round	5 Slot	13 Round	5.5 Slot
Barley & Durum	18 Round	5.5 Slot	16 Round	6 Slot
Oats	18-20 Round	4.5-5 Slot	9-10 Slot	5 Slot
Eston Lentils	16 Round	8 Round	15 Round	9-10 Round
Laird Lentils	22 Round	12 Round	18-20 Round	12-13 Round
Flax	5 Slot	4.5 Round	4.5 Slot	5.5 Round
Canary Seed	5.5 Slot	4.5 Round	5 Slot	4.5 Round
Peas	24 Round	10-11 Slot	22 Round	11-12 Slot
Chickpeas	28-32 Round	12 Slot	26-30 Round	14-16 Slot
Pinto Beans	22 Round	9 Slot	20 Round	10 Slot
Canola	7-8 Round	3 Slot	6.5-7 Round	3.5 Slot
Yellow Mustard	8-9 Round	3 Slot	8 Round	3.5-4 Slot
Soybean	24 Round	11 Slot	22 Round	12 Slot

A1 Rough Scalp (Top Shoe)

B1 Tight Scalp (Bottom Shoe)

A2 Extra Fine Sift (Top Shoe)

B2 Tight Sift (Bottom Shoe)

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