**COB INCLINE CONVEYOR AND COB BIN** - Incline belt conveyors are designed to transfer cobs into a cob bin for convenient disposal.

- Cob incline conveyor (4' and 6' discharge height)
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- 4” diameter motorized pulley drive
- 4” internal bearing steel tail pulley
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- PVC 120 COS belting with 2” molded cleats
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**Centralized Control Panel**

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- UL listed panel with emergency stop

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- Cyclone receiver(s) with stand available for multiple stations
- Bag filter system is easily maintained and cleaned out
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**Hand Screen Shaker – TSV 90**

**TSV-90** - Hand screen shakers are designed for lab and research facilities that need to separate seed by size in small tray batches (~4 pounds).

Shaker trays are filled with sample seed and placed into the TSV-90. As the trays are shaken, seed is separated within the stack of nested screens through specifically sized screen perforations. The user then opens the cabinet and removes the sized sample and screen stack. This eliminates any chance for contamination and ensures thorough clean out. The TSV-90 is built to last with heavy duty hardware and is very user friendly.

**Features**
- Table top design mounted on heavy-duty springs
- Finnish plywood cabinet assembly
- 1/2 hp, 1140 rpm motor
- 15-minute timer and switch
- Variable speed with adjustable drive pulley
- UL listed control panel
- Compact and easy to use with front tray loading
- 50 Hz motor available

**Screen Dimensions** - (screens sold separately)
- Standard screen dimensions are 12”x12”
- Optional screen dimensions are 18”x18” and 24”x24”
- Perforation shape and size must be specified by the customer
- TSV 90-12” holds 24 screens
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2003 – AEC purchased Custom Seed. Custom Seed provided custom seed equipment to the seed industry for over 21 years.

2015 – AEC has been serving global customers for over 30 years. If you are one of our many customers, we’d like to thank you for your business. Every one of our team members at AEC believes in putting you, our customer first. We appreciate and look forward to the opportunity to work with you on your next project.

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**TSV-90**

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**AEC EUROPE**
RESEARCH SEED DRYING - With industry leading UL fire control panels and controls, AEC pallet box dryers provide safe, efficient, consistent and reliable operation year after year. Precise temperature control allows our system to be used on virtually any product. Our dryers are user friendly, easy to maintain and built to last in various conditions.

AEC pallet box dryers are available in several sizes and configurations. Plenums are passive in design with adjustable air baffles for precise airflow control and balance. Pallet boxes are filled with product and stacked up to three boxes high on each base.

Specifications
- 2, 4, 6, 8, and 10-port configurations
- Bolt together plenum bases
- Adjustable baffles for air flow regulation
- 4’ x 8’ x 3’ pallet box dimension
- External pre-assembled modular fan burners complete with fire control panel and gas train
- Class II fan
- UL listed NEMA 12 enclosure and burner control interlock and fan motor interlock
- Primary and secondary adjustable high limit thermostats
- Two stage electrically operated safety shut-off valve
- Air flow and flame detection switches with alarm
- High and low gas pressure limit switches with alarm
- Flame failure lockout through flame detector relay
- Actuator and modulating valve with precise, efficient and accurate burner control with low fire limit switch
- Inlet and intermediate lever operated ball valves
- Inlet gas pressure regulator
- Direct spark ignited split burner
- Inlet wye strainer
- Built to match United States and/or international electrical requirements

Optional Equipment and Upgrades
- “T” and “Y” configuration of dryer bases
- Magnehelic air pressure gauges in dryer bases for precise dryer balance
- Three gauge gas train upgrade (inlet, outlet, intermediate gauges mounted in gas train cover)
- Automatic staged burner control
- Automatic pilot burner ignition
- Industrial risk insurers compliance
- NEMA 4 enclosure
- 50 Hz motor available
- Rain lids
- Custom paint colors

SMALL BATCH SIZER 6 & 9 SCREEN - Batch sizers are designed for lab and research facilities with the need to separate seed in batch quantities (10-15 pound samples). Batch sizer 6 and 9 are designed with dual actuation. Samples are sized by the first set of screens. The machine then processes the sample through the next sets of screens. This is typically done using a set of slotted hole screens paired with round hole screens; thus achieving the sizing of both flats and rounds in one cycle. Sized seed is then discharged into separate containers for processing.

Features
- Dual direction tilting actuator
- Rigid steel frame construction
- Sized seed assembly with six transfer containers and related hardware
- 15-minute timer and switch
- UL listed control panel
- 1 1/2 hp, 1140 rpm motor

Shaker Screen Dimensions - (screens sold separately)
- Standard size screens and spacers are 24” X 24”
- Screen perforation sizes and shapes to be specified by the customer
- Six screen capacity on Batch Sizer 6
- Nine screen capacity on Batch Sizer 9
- Screens come complete with integral ball rack

Small Batch Sizer 6 & 9 Screen
SMALL BATCH SIZER 4, 5, AND 7 SCREEN MODELS - Batch sizers are designed for lab and research facilities with the need to separate seed in batch quantities (10-15 pound samples). The shoe is loaded with the desired screens and spacers from top to bottom in decreasing screen perforation size. As the machine cycles, seed is sized and separated. Sized seed is then discharged into the appropriate sample container for further processing. Batch sizers leave no carryover between samples and clean out very easily. AEC’s batch sizers are easy to use and maintain. Samples are processed safely, quickly and quietly.

Features
- Single direction actuation
- Rigid steel frame construction
- Sized seed assembly with transfer containers
- 15-minute timer and switch
- UL listed control panel
- 1 1/2 hp, 1140 rpm motor
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CUSTOM TRAY DRYERS - AEC custom tray dryers have a compact footprint and are optimal for research and foundation seed facilities with space limitations. They are designed with research seed in mind and utilize electrical controls and gas trains to precisely control temperature and air flow to produce repeatable and efficient results. Research tray dryers are easy to operate with push button temperature control. AEC research dryers come with a preprogrammed microprocessor and have been thoroughly tested by the Applied Electronics Corporation team. The controls manufactured by AEC are UL listed.

We would be happy to design a tray dryer to meet your individual needs.

AEC Standard Tray Dryer Specifications
- Steel construction
- L 86” x W 48” x H 84”
- Gas or electric heat source
- Magnehelic air pressure gauge
- 5 hp motor
- Internal direct drive blower
- 4500 CFM, 3 WC
- 315,000 BTU per hour
- 2-5 psi gas inlet pressure required

Optional Equipment
- Industrial risk insurers compliant gas train
- 50 Hz motor available
- Custom paint color

10 - Drawer Research Dryer Standard Specifications
- Drawer size 14” x 14” x 6”
- Perforated metal drawer bottom
- Interchangeable drawers
- 1/2 hp, 300 CFM fan
- Variable speed fan control system
- 6 kw electric heating coil
- Digital temperature control system
- Plenum thermocouple
- Heater overload protection

Optional Equipment
- Magnehelic air pressure gauge
- 50 Hz motor available
- Data acquisition system
Small & Medium Batch Sheller

AEC BATCH SHELLERS - AEC research shellers are known industry wide for efficient operation and gentle ear corn shelling. Germination testing shows no significant difference between hand shelling and the AEC batch shellers. Ear corn is shelled between a large central drum and rubber rollers which gently roll the corn off the cob. Once shelled, grain falls into a discharge hopper and cobs are removed through a discharge conveyor.

The machines are very user friendly and operate quietly. Single ears and batches can be shelled quickly and efficiently by a single person. There is virtually no carryover between samples and the sheller is easily cleaned out.

Features

• Designed for research stations and foundation seed
• Small Batch Sheller capacity: Up to 60 bushels per hour or single ear capability
• Medium Batch Sheller capacity: Up to 200 bushels per hour
• Factory installed heavy duty locking caster wheels
• 10-second shelling cycle time from sample to sample (10-15 ears)
• Excellent clean out capabilities with no carryover between samples
• Adjustable shelling drum and rollers
• Easy to service; rollers are removable through the side of the sheller
• Rubber-coated rollers minimize seed damage
• UL certified control panel with emergency stop button
• Cob discharge height: 20”
• Feed height: 36”
• Heavy duty feed tray
• Hour meter

Optional Equipment

• Small Batch pneumatic seed & dust transfer system
• Medium Batch external ear feed conveyor
• Medium Batch extended shelled corn conveyor

AEC 2SC05 - AEC small batch cleaners are designed for small lot cleaning applications for research and foundation seed facilities. Seed corn, soybeans and other varieties of seed are distributed across the inlet pan and flow across the sifting screen assembly. During this process, small discard is removed from the sample and discharged. After the sifting process, the sample flows across a scalping screen assembly. Good seed falls through the screen assembly and is removed through the clean seed discharge chute. Scalpings are removed through the scalping discharge assembly.

The 2SC05 is easily used in conjunction with the AEC seed and dust transfer system. This allows seed to be moved from process to process within the research laboratory. This system also keeps a clean sample and work environment through the dust control system.

Features

• 60 bushels per hour capacity
• Adjustable flow control
• Integral ball rack sifting screen assembly included
• Integral ball rack scalping screen assembly included
• Custom screen hole sizes available
• Easily removable screen assemblies
• Excellent and simple cleanout capabilities
• No product carryover between samples
• Can be used as a seed sizer
• UL approved control panel
• Heavy-duty steel frame assembly
• Finnish plywood shoe assembly

Optional Equipment

• AC motor with variable speed control
• Centralized control panel
• Inlet and outlet aspiration port
• Sifting and scalping outlet hoppers
• AEC seed and dust transfer system
• Seed transfer cyclone and stand
• 50 Hz motor available

Small Batch Cleaner 2SC05

2SC05 shown with optional cyclone and stand.
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**Optional Equipment**

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**Optional Equipment**
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Batch Sizer 9 Set-Up Example
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