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High Strength, Anodized Extruded Aluminum Products

SFAI Series
Small Frame Aluminum Incline Conveyor
supported by powder coated T style leg sets with leveling pads

Features
- Unit comes completely assembled, wired and tested prior to shipping
- Cross Members — steel cross members for exceptional torsion rigidity
- Castings — supports bearings and pulleys featuring a unique take-up design tracking adjustments at the four corners
- Bearing assemblies — set in castings with covers, no exposed rotating parts
- Soft drop zone or full length slider bed
- Stainless steel wear strip to minimize generation of particulates
- Bearings — sealed, self-aligning bearings set in solid aluminum castings
- Warranty — Five Year Limited

MAC precision machined trapezoidal crowned steel pulleys provide improved belt tracking and less contamination compared to aluminum pulleys
Features

- Unit comes completely assembled, wired and tested prior to shipping
- Cross Members — steel cross members for exceptional torsion rigidity
- Castings — supports bearings and pulleys featuring a unique take-up design tracking adjustments at the four corners
- Pulleys — 2.125″(54mm) drive and idle pulleys both machined with trapezoidal crowns, with machined V-Guided grooves, drive pulley is fully lagged, shafts are 3/4″ (19mm) diameter and bearings are sealed self aligning type. Drive pulley is lagged with ruff top material
- Bearing assemblies — set in castings with covers, no exposed rotating parts
- Soft drop zone or full length slider bed
- Stainless steel wear strip to minimize generation of particulates
- Bearings — sealed, self-aligning bearings set in solid aluminum castings
- Warranty — Five Year Limited

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MAC CONVEYORS—WELDED STEEL CONSTRUCTION

MAC Track Steel Series
- Fully welded construction of this model produces a solid, square frame for industrial use
- Powder coated or stainless steel frame
- Wide selection of various belt materials and surface textures

Heavy Duty Steel Series
- Formed C-channel steel frame with welded cross members
- Ideally suited for industrial use

Horizontal To Incline Steel Series
- Wide selection of various belt materials and surface textures
- Incline angles are up to 60 degrees. In-feed flaps to contain product are standard
- Machined V-Guided grooves, drive pulley is fully lagged, shafts are 3/4" (19mm) diameter
- Bearings are sealed
- self-aligning type

Heavy Duty Incline Steel Series
- Angles available up to 60°
- High cleats are recommended for steep inclines
- Stainless Steel formed hopper from 1 to 20 cubic feet are available at your request

MAC precision machined trapezoidal crowned steel pulleys provide improved belt tracking and less contamination compared to aluminum pulleys
MAC Conveyors—Welded Steel Construction

Large Frame Steel Series
- Used for medium weight applications
- Bearing housings and pulleys feature a unique design for easy service and belt tracking adjustments

Horizontal To Incline To Horizontal Steel Series
- Wide selection of various belt materials and surface textures
- Incline angles up to 60 degrees. In-feed flaps to contain product are standard
- Machined V-Guided grooves, drive pulley is fully lagged, shafts are 3/4"(19mm) diameter
- Bearings are sealed self aligning type

Horizontal To Decline & Incline To Horizontal Steel Series
- Wide selection of various belt materials and surface textures
- Incline angle is adjustable up to 45 degrees
- Machined V-Guided grooves, drive pulley is fully lagged, shafts are 3/4"(19mm) diameter
- Bearings are sealed self aligning type

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Units are constructed from powder coated welded steel frame or aluminum extrusion. These hopper conveyors can receive parts from production operations and convey them into a tote, grinder or feeder bowl. Hopper angles are available up to 60 degrees with standard 2 ply TPU belt material with 1 1/2"(40mm) cleats on 15"(380mm) centers. Higher cleats are recommended for steep inclines. Hoppers can be fabricated from 1 to 20 cubic feet. They are constructed of powder coated steel or stainless steel.
MAC HOPPER CONVEYORS

SFAI-Series with Foot Hopper

MTS-Series with 1.5 Cubic Foot Hopper

HD-Series with 15 Cubic Foot Hopper

SFAI-Series with 3 Cubic Foot Hopper

HD-Series Double Conveyor Hopper

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INLINE FILL SYSTEMS

ILSS or ILSA—In-Line System Steel or In-Line System Aluminum

The most economical type of system found on the market. The system size is determined by the size and number of containers required for a certain amount of unattended run time. Systems for cycle count controls consist of an indexing conveyor, a gravity type accumulation conveyor, a control panel and leg supports with an end stop at end of gravity conveyor. Systems by weight scale control also include a powered roller style weigh scale conveyor with single point load cell with weigh scale controls. These systems are usually positioned along either side of the press with an under the press or multiple under the press conveyors feeding the container indexing and loading system. This may also be combined with other conveyors or equipment to create a custom system.

ILSS Series

In-Line Fill System Steel
- In-line and L-shaped fill system
- Net weight, weight count or cycle count
- Standard MAC powder coated finish

ILSA Series

In-Line Fill System Aluminum
- In-line and L-shaped fill system
- Net weight, weight count or cycle count
PBSS or PBSA—Parallel Box System Steel or Parallel Box System Aluminum

The second most economical type of system found on the market. The system size is determined by the size and number of containers required for a certain amount of unattended run time. Systems for cycle count controls consist of an indexing conveyor, a gravity type accumulation conveyor, an equipment sub-frame, a pneumatic sweep arm, a control panel and leg supports with an end stop at end of gravity conveyor. Systems by weight scale control also include a powered roller style weigh scale conveyor with single point load cell with weigh scale controls. These systems are usually positioned along either side of the press with an under the press or multiple under the press conveyors feeding the container indexing and loading system. This may also be combined with other conveyors or equipment to create a custom system.

**PBSS Series**
Parallel Box Filling System Steel
- Net weight, weight count or cycle count
- Custom sizes and options available
- Standard MAC powder coated finish

**PBSA Series**
Parallel Box System Aluminum
MULTI-LEVEL FILL SYSTEMS

HSS/HSSA–Horizontal System Powder Coated welded Steel or Horizontal Stack System Aluminum MAC Stack

This type of system provides the most efficient use of space both in the linear direction as well as a usable width dimension. The system size is determined by the size and number of containers required for a certain amount of unattended run time. Systems for cycle count controls consist of an indexing conveyor, a gravity type accumulation conveyor, an equipment sub-frame, a pneumatic or electric belt elevator type of lift, a control panel and leg supports with an end stop at the end of the gravity conveyor.

Systems by weight scale control also include a powered roller style weigh scale conveyor with a single point load cell with weigh scale controls, which can be positioned either before the elevator or on the elevator, depending on space requirements. The orientation of the conveyor is normally belt conveyor on bottom and gravity on top, but may be reversed depending upon application. These systems are usually positioned along either side or the end of the press with an under the press or multiple under the press conveyors feeding the container indexing and loading system. This may also be combined with other conveyors or equipment to create a custom system.

Available Models HSS & HSSA

Horizontal System Steel or Aluminum

- Available in 2, 3 or 4-tier
- Net weight, weight count or cycle count
- Standard MAC powder coated finish
MULTI-LEVEL FILL SYSTEMS

HSS Series–MAC Stack Box Fill System
Auto Fill with Optional In-feed Conveyor

HSS Series–MAC Stack
Fed by a Conveyor System

HSSA Series–MAC Stack
Pictured with a HIA Conveyor

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RIT Systems
Rotary Index Tables are designed as a cost effective method of filling bags or boxes. The indexing tables can be sized to provide many hours of unattended run-time. The robust design, which is engineered to take demanding punishment from an industrial environment, is far superior to competitive designs. Our control panel has a NEMA 1 cabinet with hinged front door, no screws to remove for panel access. You can see the quality in the panel design and component layout. A state of the art operation interface equipment to controller sequence of operations, this provides reliable no hassle functionality. Included in the basic package is our CT8 control package. This standardized control is a cycle count based system, which receives cycle signals from the IMM and is entered into the programmable operator interface.

Features

- Fast – Molding machine does not stop, the feed conveyor momentarily stops
- Programmable — Interlocks either with IMM and/or signals operator for service
- Control — CT8 (Cycle Count Control), CT11 (Weigh Scale Hopper-Option)
- Industrial, welded structural steel heavy wall tube frame with 1/4” thick plate steel table surface
- Standard MAC powder coated finish

Rotary Index Table

- With stainless steel bag rings
- In-feed conveyor option

Rotary Index Table

- In-feed conveyor option
**Rotary Fill Systems**

**Rotary Index Table**
- With stainless steel bag rings
- Raised up bottom platform
- In-feed conveyor option

**Rotary Index Table**
- With tall powder coated steel bag Frames
- Many sizes or options available

**Rotary Index Table**
- With SS box dividers
- With Stainless Steel Top

**Rotary Index Table**
- With 4 tall powder coated steel bag dividers
- Stop positions can be programmed in the following increments 2,3,4,6,8,12 and 24

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PART ORIENTATION SYSTEM

GAYLORD FILLING SYSTEM

Standard MAC powder coated finish
Automatic Part Sorting

Part Sorting Equipment

Automatic

- Quality Control Sampling
- Part/Runner Separation
- Reject Sorting
- Diverting of Start up Shots

S1 Sorter Free Standing with Blowing System

Front/Rear Free Standing Diverter

Custom Two Gaylord Filling System

Separator Bar mounted on HIHSS Discharge End

Standard MAC powder coated finish
PART SORTING EQUIPMENT

Screw Type Part/Runner Separator

STS Available lengths
- 24 inches
- 30 inches
- 36 inches
- 42 inches
- 48 inches

Gap Roller Separators

SH Separator with Pin or Textured Belt

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INSPECTION TABLES

Portable Inspection and Sorting Tables

**Ergonomic – Efficient – Cost Effective**

The Inspection Tables are generally used to provide a work surface to complete an inspection or assembly process. The units are constructed of a powder coated welded steel or an extruded aluminum frame structure. Steel structures feature an adjustable height work surface. The work surface features a perimeter rail. Included with a overhead light and discharge chute the entire unit is mounted on locking casters for portability.

**Standard or Custom Styles Available**

**Available Options**
- Adjustable Shelves
- Power Outlets
- Scales
- Integrated conveyor
- Integrated bottom light
- Table tops available in stainless steel, laminate and hard wood

Standard MAC powder coated finish
**ROTARY WORK TABLE**

**Rotary Work Table Series**

Rotary Tables are designed to accept product flow from discharging belt or other general material handling systems. In typical applications, the product is conveyed on to the table to allow multiple operators. They also efficiently handle tasks and allow products to be conveyed from multiple machines to one location and have one operator handle multiple tasks without added effort or ergonomic strain.

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**Rotary Accumulation Table**

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PORTABLE HEPA CLEANROOMS

Cost Effective Products to Help Molders
Consistently Produce Clean Quality Parts

Beside Press HEPA Enclosure
With Cleanroom Conveyor
Over the Press HEPA Enclosures
Includes moving portion of molding machine. Enclosures of this type can also be used to control humidity levels to minimize mold and condensation.

Free Standing Hard Wall HEPA Enclosures
Available in many sizes and configurations

Portable Cleanrooms
MAC's controlled environment enclosures maximize efficiency of cleanroom molding for a fraction of the cost of a cleanroom facility. They can enable a molder to quickly and inexpensively enter the growing medical market, add to existing cleanroom capacity, or further enhance contamination control by further isolating parts within an existing cleanroom.
Guideskirts

- Guideskirts replace the need for expensive fabricated sheet metal or hastily rigged cardboard chutes
- Improve quality of parts by preventing part loss or contamination
- Soft, pliable material allows easy cleaning
- Withstands temperature up to 200 degrees
- Custom sizes and high temperature material also available

Detachable Chute & Soft Chute Guideskirt
Specifically designed to transfer molded parts from under the machine to a conveyor or container

Tapered and Straight Guideskirt
Allows parts to funnel or align below the mold for ease of packaging or secondary processing

Delayed Drop Guideskirt
Mounts directly to the mold and is actuated by the opening and closing of the molding machine

Split Leg (left) and Walking Split Leg (right)
Guideskirts off-set legs permit directing parts into separate lanes on conveyors

Standard Guideskirt color is gray, yellow is optional
CHUTES, TIE BAR SLEEVES & MOLD SIDE CURTAINS

SBS Style Side by Side Detachable Chute Guideskirt (left) & COS Style Dual Soft Chute (not pictured)

Unique design allows parts already separated in the mold to remain apart while directing them to the front of the machine.

FR Style Front and Rear Dual Soft Chute Guideskirt is used when clearance between the machine frame and the base is limited offering the solution to part separation.

**Tie Bar Sleeves** Prevents molded parts from contacting tie bar grease.

**Mold Side Curtains** Confine parts that have a tendency to fly out the sides of the mold.

MAC Automation Concepts, Inc.
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Our resin bins are designed for the storage and handling of resin material. We specifically manufacture our resin bins from heavy-duty polyethylene for toughness, durability, effortless cleaning and visibility of contents. These bulk containers have heavy-duty casters simplifying the transport and handling of bulk solids. The resin bin’s rugged powder coated steel framework provides long-term dependable service.

Using resin bins in a plastic injection molding plant can immediately help with material control and cleanliness. Resin bins are a perfect solution to health and safety regulations controlling the manual lifting of heavy loads such as bags of raw material.

Model RB75L
Capacity 75 Lbs. (based on styrene)
- Size — 18” Length x 18” Width x 30.1” Height
- Holds — Approx. 2.3 cubic feet (1+ Drum)
- Est. Shipping weight — 45 lbs.
- Max Wand Diameter — 2.75”
- Casters — 4” Diameter Toe-Locking, Full Swivel
- STACKABLE DESIGN
MAC Resin Bins

Model RB150L
Capacity 158 Lbs. (based on styrene)
- Size — 23” Length x 23” Width x 37.6” Height
- Holds — Approx. 4.5 cubic feet (3+ Bags)
- Est. Shipping weight — 90 lbs.
- Max Wand Diameter — 4”
- Casters — 4” Diameter Toe-Locking, Full Swivel
- STACKABLE DESIGN

Model RB350L
Capacity 368 Lbs. (based on styrene)
- Size — 31” Length x 31” Width x 42.8” Height
- Holds — Approx. 10.5 cubic feet (1+ Drum)
- Est. Shipping weight — 120 lbs.
- Max Wand Diameter — 4”
- Casters — 4” Diameter Toe-Locking, Full Swivel
- STACKABLE DESIGN

Model RB800C
Capacity 800 Lbs. (based on styrene)
- Size — 37.5” Length x 37.5” Width x 52.4” Height
- Holds — Approx. 22.7 cubic feet (2+ Drums)
- Est. Shipping weight — 200 lbs.
- Max Wand Diameter — 4”
- Casters — 5” Diameter (2) Fixed & (2) Toe-Locking, Full Swivel
- NON-STACKABLE

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MAC Resin Bins

Model RB1200C
Capacity 1200 Lbs. (based on styrene)
- Size 43.5” Length x 43.5” Width x 54.7” Height
- Holds Approx. 34.2 cubic feet (1+ Gaylord)
- Est. Shipping weight 290 lbs.
- Max Wand Diameter 4”
- Casters 5” Diameter (2) Fixed & (2) Toe-Locking, Full Swivel
- NON-STACKABLE

Resin bins come in different sizes
RB75L, RB150L, RB350L, RB800C & RB1200C

SELECT MODELS CAN BE STACKED UP TO 3 HIGH!

Portable & Remote Material Loading Systems
The MAC Automatic Resin Bin Loading Station is designed to work with MAC mobile resin storage bins and Drum or Gaylord Filter Covers. It is a convenient method for automatically filling these bins from Gaylord or drum containers.

RB800C & RB1200C are not stackable for safety reasons
MAC Resin Bins Options

Available Options

- Lid Pockets - Hold lid when not in use
- Handles - Make bins easier to push and maneuver
- Vacuum take off box
- Elastic Zippered Port Cover - Seals out contamination when using vacuum probes (STANDARD on 75 lb. unit)
- Material level sensor
- Lid latches
- Portable/Stationery loading station
- Dual take off configuration

Custom take offs for Air Conveying

Resin Lid Pocket for Lids
Vacuum Take Off Box
Elastic Zippered Port Cover
Material Level Sensor

Portable Loading Station
Custom Lids
Lid Latches
Handles

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**Drum & Gaylord Filter Covers**

**Drum Covers**

Covers available for 22” & 24” diameter drums. The standard access port accepts a 2” to 2.75” diameter vacuum wand. The port features an elastic band for a tight seal and a zipper to close the opening when not in use. It includes a tie cord to insure a snug fit and clear vinyl window for quick visual level check.

**Gaylord Covers**

The negative pressure standard cover features two access ports sized to accept a 2” to 2.75” diameter vacuum wand. The ports are located in opposite corners of the cover so that operators can reposition the vacuum wand as material shifts in the Gaylord. The ports include an elastic band for a tight seal and a zipper to close one or both openings when not in use. An elastic band around the skirt holds the cover in place.

The single port (positive pressure) cover has a center port and a belt with a buckle to more securely hold the cover in place around the skirt. The port size is specified by the customer within a range of 2” to 20” diameter. This cover is designed to reduce the mess associated with pneumatic loading of material into a Gaylord. Specify diameter of port when ordering.

---

**Keep Material Clean and Contaminant Free**

- Lightweight, stretchable, breathable
- Convenient see through window
- Ports are zippered with elastic
- Standard with 1 or 2 ports, other port sizes available upon request

**Optional Features**

- Custom shapes & sizes
- Custom silk screens (names or logos)

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**Tight Fitting Covers Reduce Material Spillage**
Gaylord Tilter & Dumper

MAC tilters are rugged quality units manufactured specifically for the injection molding industry. The units are designed as a low profile model, controlled either by a foot pedal or by a hand lever. The tilter is engineered to tilt the Gaylord to a corner as the container is being emptied. Tilting capability is up to a 45 degree angle from horizontal. Gaylords are loaded by fork lift truck or pallet jack. The design begins to tilt once the container has reached approximately 900lbs. All remaining material is directed to a corner effectively completing the product removal.

Available in blue or the original MAC 2 tone brown colors.
Positive Pressure Conveyor (PPC)
Positive Pressure Conveyor, which uses high pressure ambient air to effectively blow the parts and is recommended when compressed air is not consistently available.

Vacuum Pressure Conveyor (VPC)
This style of air conveying utilizes a compressed air line attached to the supplied line vacuum. The line vacuum creates a forward moving air stream. This type of accelerating device can also be used in series to move fairly long distances.

Airveyor integrated weigh scale table
Custom dual take off vacuum pressure system
Custom two Gaylord filling system with airveying system
RB150L with custom dual take offs
Custom integrated take-off chute
These systems are designed specifically for the plastics industry and are typically used in cellular manufacturing applications. Sizing of systems is directly related to part weight, shape, total distance of the run, etc. In order to provide a specific quote, MAC will require parts for testing, a schematic of the proposed run, detailing, horizontal sections and vertical rises, as well as required or desired radii for turns.

MAC Automation Concepts, Inc.
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Auxiliary MAC Products That Maximize Robotic Efficiency

- Maintain Cavity Separation
- Automatically Places Parts in Containers
- Delivers Parts to Convenient Operator Height
- Diverts Rejects
- Reduces Required Cycle Time of Parts Removal Robot

4 container cavity separation conveyor system

Automatic cavity separation shuttle system

Cavity Separation units with static eliminator and integrated reject chutes
Short Stroke VTP
Table top or under press applications

Vertical Transfer Platform (VTP)
Available in steel or aluminum construction

VTP Robot Guarding available

Custom robot filling system

MAC Automation Concepts, Inc.
1760 Kilkenny Court Woodstock, Illinois 60098
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High Strength, Anodized Extruded Aluminum or Powder Coated Welded Steel Robot Guards

Portable & Stationary Robot Guards
Features

- Mount to conveyor units are available
- Stand alone units are available to customers specifications
- Panels install horizontally between posts
- Hinged, double hinged, sliding, and vertical rise gates available
- Simple bolt up assembly, easy to remove for maintenance access
- Lift out panel openings available
- Slider doors, hinged with interlock available
- Custom sizes, heavy duty options available
- Electrical interlock available per your specification
- Panels may be ordered with mesh, expanded metal, sheet metal or clear Lexan
- Permanent or portable

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Part Conditioning Units

- Chilled Water Air Conditioning Units
- Static Eliminator Units
- Portable Air Conditioning Units
- HEPA Filtered Blowers
- Ambient Blowers
- Water Injection Units
Chilled Water Air Conditioning Unit

Water bath Conditioning Conveyor Unit

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MAC Quick Change Rail System

Simple Low Cost Automation with Interchangeable Components

Versatile – Superior Quality - Economical

- Indexing & Reversing Packages
- Reject Sorting
- Automatic Filling
- Quick Install of Chutes/Trays, Conveyors, Blowing or Vacuum Systems

Quick Change Conveyor

Quick Change Conveyor with Pneumatic part chute

Quick Change Front to Rear Sorter

Quick Change Parts Blowing System
Complete Automation System with Quick Change Conveyor
Custom Systems

CNC Feed Conveyor System  Conveyor Integration System

Bar Feeder  CNC Part Handling System  Part Orientation System

Rope Belt Conveyor with tray  Pneumatic Gripper  Rope Belt Conveyor
Custom 4 Bin Filling System

Automatic Shuttle Box Fill System

Custom Plastic Gaylord Filling System

Arm fill conveyor system

Custom 3 position diverter

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MAC Automation Concepts, Inc. has earned a solid reputation for quality, innovative products and conscientious service. Staffed with experienced and dedicated personnel and supported by state of the art design and fabrication equipment, MAC has the resources to insure consistent quality and support.

Our Mission

is to provide superior quality and economic value to our customers with the best possible solution for each parts handling application.

Products

Conveyors
Automatic Fill Systems
Plantwide Systems
Automatic Part Sorting
Inspection/Work Tables
Portable Clean-rooms
Part Containment Products
Resin Bins
Filter Covers
Air-Veying Systems
Robotic Interface Equipment

Visit our new website
WWW.MACAUTOMATION.COM

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Providing Parts Handling Solutions Since 1980