Equipment

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A
 appreciated and preserved.

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1
Resin Handling Bins

Ideal for Storage and Transfer of Material
From Grinders, Surge Bins, Bags, Drums or Gaylords

Resin Bins Features:

• Mobile
• Self-emptying
• Durable
  One piece reinforced lid suitable for mounting equipment
• Lightweight
  Easily view contents-polyethylene construction
• Stackable
  RB90L, RB175L and RB400L only
• Stainless steel slidegate
• Vacuum wand access tube
  4” diameter opening
  (exception: RB90L has a 2.75” dia. opening)
• Heavy-duty welded steel frame
• Forklift channel
  RB1200L and RB1200LC
• Locking casters
  Standard and included with RB90L, RB175L and RB400L

Resin Handling Bins$

QUANTITY

DISCOUNT

Discount applies to current net prices - six or more less 8%

On the following pages are listed the finest tilters, mixers, dumpers and storage bins in the industry today. Our equipment is constructed of high-grade steel and covered with a durable epoxy blue coating. The overall superior designs stem from many years in the manufacturing field, with frequent design refinements along the way to incorporate the changing needs of the industry.

We steadfastly stand behind all of our equipment with one of the most comprehensive guarantees in the industry - a FULL TWO-YEAR WARRANTY. We can also customize any of these items to suit whatever application you need.

Tilters, Dumpers, Mixers & Bins

Warranty

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!
Pneumatic Gaylord Tilter is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight. This unit will lift 1,400 lbs. with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. Tilt tables are durable and easy to maintain. We use heavy-duty pillow block bearings to ensure smooth controlled pivoting. Our 10 gauge top deck is reinforced with structural steel to make it durable enough to withstand years of abuse. These units will reduce labor costs by freeing your operator from tending his raw material flow. They also reduce material waste with the effortless, complete emptying of your container.

**Standard Features:**
- 1" pillow block pivot bearings
- Double convoluted industrial air bag - set up so bag cannot get overstressed!
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust operating speed
- 10 gauge steel deck
- Adjustable height vacuum wand holder
- 45° tilt angle
- Painted blue epoxy

**Optional Features:**
- Foot pedal control valve
- Pneumatic turbine vibrator with controls
- 110 volt electric vibrator with controls
- Custom paints and matching colors

**Part Number TT1**
**Low Price**

---

Ground Entry Pneumatic Gaylord Tilter is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight; this unit will lift 800 lbs with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. Tilt tables are durable and easy to maintain. We use heavy-duty pillow block bearings to ensure smooth controlled pivoting. Our seven gauge top deck is reinforced with structural steel to make it durable enough to withstand years of abuse. These units will reduce labor costs by freeing your operator from tending to raw material flow. They also reduce material waste with the effortless, complete emptying of your container.

**Standard Features:**
- 1" pillow block pivot bearings
- Double convoluted industrial air bag - set up so bag cannot get overstressed!
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust operating speed
- 7 gauge steel deck
- Adjustable height vacuum wand holder
- 45° tilt angle
- Painted blue epoxy

**Optional Features:**
- Foot pedal control valve
- Pneumatic turbine vibrator with controls
- 110 volt electric vibrator with controls
- Custom paints and matching colors

**Part Number TT2**
**Low Price**

---

These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!
The **Premier Ground Entry Gaylord Tilt Table** is designed to assist in the vacuum unloading of gaylord containers. The automatic tilting feature allows complete removal of material from the container with little or no assistance from your operator. The adjustable regulator permits setting initial lift at any desired weight; this unit will lift 1000 lbs. with only 80 psi. air pressure! Normal operation is to begin tilting action when the box is around half empty. These tilt tables are durable and easy to maintain. We use heavy duty 1” flange bearings to ensure smooth controlled pivoting. Our seven gauge deck along with its sound structural design make it durable enough to withstand years of abuse. These units will reduce labor cost by freeing your operator from tending to raw material flow. They also reduce material waste with the effortless, complete emptying of your container!

**Standard Features:**
- Automatic or manual tilt action
- Hand level controlled
- Flow control to adjust down cycle speed
- 7 gauge steel deck
- Adjustable height vacuum wand holder
- 1” flanged pivot bearing
- Double convoluted industrial air bag
- 45˚ tilt angle
  - Painted blue epoxy

**Optional Features:**
- Foot pedal control valve
- Pneumatic turbine vibrator w/controls
  - Special paint colors

**Part Number TT3**

**Low Price**

---

**Premier Hydraulic Dumper**

The **Premier Hydraulic Box Dumper** is designed and built for continuous operation. It features 2” piloted roller bearings at the main pivot and bronze sleeve bearings at the top cylinder mounts. We use a proven 1.5 h.p. hydraulic package with easy to service components and a separate oil reservoir.

Designed for increased safety, this unit has solid side panels on the frame and a wider clearance between the frame and bucket to eliminate pinch points. The unit can be stopped anywhere in the up and down cycle simply by releasing the push button control.

Our standard units all have 2,500 lbs. lift capacity and a gravity return. Units are powered by a pair of 2” bore, 2” rod, ram-style cylinder. Special dust control and other hooded units use cylinders with a 3” bore and are powered on both the up and down cycles.

**Premier Hydraulic Dumper**

**Standard Features:**
- Bucket rotation 135˚
- Motor 1.5 h.p.
- NEMA 12 electrical enclosure
- Hydraulic cylinders w/24” stroke, 2” bore, 2” rod
- Adjustable retaining bar 32” to 48”
- Up cycle completion, limit switch
- Down cycle flow control valve
- Cycle time - 30 sec. up, 15 sec. down
- Replaceable pivot bearings
  - Painted blue epoxy

**Optional Features:**
- Velocity fuse, (catches bucket in case of hydraulic rupture)
- Double-acting hydraulics
- Explosion-proof electrical
- Gaylord entry guides
- Stainless steel chute liner
- Custom sized and shaped buckets
- Stainless steel construction
- Dust hood with discharge hatch
- Custom paints and matching colors
- Dust containment doors on bucket
- Dumper stands 12” to 72”
- Floor grate in bucket

**Part Number Phase Bucket**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Bucket</th>
</tr>
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<tbody>
<tr>
<td>35-2500</td>
<td>3 48” Wide</td>
</tr>
<tr>
<td>35-2550</td>
<td>1 48” Wide</td>
</tr>
</tbody>
</table>

**Warranty**

These products carry a **full two-year warranty** covering defects in materials, manufacture and workmanship. Also, all **STANDARD products** are covered by a 30-day trial period guaranteeing customer satisfaction!
Hydraulic Box Dumper

This Hydraulic Dumper is built to handle the tough unloading jobs! Standard unit capacity is 2,500 lbs.; larger capacities are available. This unit features a full 7 gauge body, a field-proven hydraulics system, and a microswitch controlled cycle completion to prevent premature cylinder packing failure. The 48" width body has room for most containers, but special widths are available as well. The box retainer is adjustable from 32" to 48", plus there’s also a permanent safety retainer bar! Abrasion-resistant epoxy painted blue. Push button controls permit stopping the unit at any point in the cycle for added control and safety. This Hydraulic Dumper turns a tough, time-consuming job into a 30 second breeze!

Hydraulic Box Dumper Specifications:
- Lift capacity: 2,500 lbs.
- Total rotation: 135°
- Standard motor size: 1 1/2 HP
- Electrical enclosures: NEMA 12
- Control buttons: 110V
- Hydraulic cylinders: 2" bore, 24" stroke

Major Options:
- 52" Wide Bucket available!
- Stands - to change dump height
- Custom width body - for large or awkward containers
- Increased lift capacity
- Custom discharge chutes
  - Enclosed units - for dusty materials

Portable Batch Mixer

The Portable Batch Mixer is solidly built for years of trouble-free service. This direct-driven, timer controlled mixer features a 14 gauge body, sidewall construction, industrial weight vertical auger, and safety disconnect switches on both covers. Its 44-inch square leg pattern is designed to fit on portable storage bins, auger discharge bins, or just standalone! Several styles of discharge stands are available to aid unloading. Eight inch discharge gate at the base of the unit ensures rapid emptying! Tough, abrasion-resistant epoxy painted exterior blue. Standard capacities of 10 through 60 cubic feet available, or we can custom build to match your ideal batch size! Units can easily be adapted with special intake chutes, vacuum discharge boxes, or auger take-aways. This practical, durable unit can handle most of your mixing needs!

Portable Batch Mixer Specifications:
- Timer controlled, direct-drive vertical auger mixers
- 10 through 60 cubic foot capacities
- Eight-inch diameter discharge for fast unloading
- 14 gauge body and industrial weight auger for durability
- steep-sided conical body handles most materials

Options:
- Gaylord discharge stand
- Powered auger take-away stands
- Vacuum box adapter stand
- Special intake chutes
- Epoxy painted interior
- Custom capacities

Portable Batch Mixer Specifications:

<table>
<thead>
<tr>
<th>Model No. Capacity (cu. ft.)</th>
<th>&quot;A&quot; Dim. Overall Height</th>
<th>&quot;B&quot; Dim. Height to Covers</th>
<th>Drive MTR (hp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-1000 10 40.5&quot; 60&quot;</td>
<td>.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-2000 20 46.5&quot; 66&quot;</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-3000 30 56.5&quot; 76&quot;</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-4000 40 66.5&quot; 86&quot;</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-5000 50 76.5&quot; 96&quot;</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60-6000 60 86.5&quot; 106&quot;</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!
The Portable Storage Bin is an inexpensive, versatile shop performer. Strongly built with full 14 gauge sidewalls and 1/4" thick legs, these bins are constructed to withstand the abuse of a busy shop! Special flared pads help make stacking (up to three high!) simpler and safer. Durable abrasion-resistant epoxy painted blue inside and out. Units may be ordered with or without covers or vacuum entry ports for maximum economy tailored to your needs. The 4" discharge features an adjustable tension slide gate. Four-way fork channels, pallet jack rails, casters, and product view windows are some of the available options. Standard 44-inch square design in capacities of 20, 30, 40, 50, or 60 cubic feet, or can be custom designed to fit your particular requirements! Watch these bins save your operation both time and space!

Options
- Fork Jack channels
- 4" casters (2 rigid, 2 swivel)
- 4-way fork entry
- Foot pads
- 3" x 5" card holders
- Vacuum port covers (set)
- Other options available - or will custom design to fit your needs!

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction! 

Portable Storage Bins

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-2000</td>
<td>PSB-20 cu. ft. base unit</td>
</tr>
<tr>
<td>40-2100</td>
<td>PSB-20 cu. ft. with 2-way cont. hinged covers</td>
</tr>
<tr>
<td>40-2110</td>
<td>PSB-20 cu. ft. with vacuum ports AND covers</td>
</tr>
<tr>
<td>40-3000</td>
<td>PSB-30 cu. ft. base unit</td>
</tr>
<tr>
<td>40-3010</td>
<td>PSB-30 cu. ft. with 2-way cont. hinged covers</td>
</tr>
<tr>
<td>40-3100</td>
<td>PSB-30 cu. ft. with vacuum ports AND covers</td>
</tr>
<tr>
<td>40-4000</td>
<td>PSB-40 cu. ft. base unit</td>
</tr>
<tr>
<td>40-4100</td>
<td>PSB-40 cu. ft. with 2-way cont. hinged covers</td>
</tr>
<tr>
<td>40-4110</td>
<td>PSB-40 cu. ft. with vacuum ports AND covers</td>
</tr>
<tr>
<td>40-5000</td>
<td>PSB-50 cu. ft. base unit</td>
</tr>
<tr>
<td>40-5100</td>
<td>PSB-50 cu. ft. with 2-way vacuum ports</td>
</tr>
<tr>
<td>40-5010</td>
<td>PSB-50 cu. ft. with 2-way cont. hinged covers</td>
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<tr>
<td>40-5110</td>
<td>PSB-50 cu. ft. with vacuum ports AND covers</td>
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<tr>
<td>40-6000</td>
<td>PSB-60 cu. ft. base unit</td>
</tr>
<tr>
<td>40-6100</td>
<td>PSB-60 cu. ft. with 2-way vacuum ports</td>
</tr>
<tr>
<td>40-6010</td>
<td>PSB-60 cu. ft. with 2-way cont. hinged covers</td>
</tr>
<tr>
<td>40-6110</td>
<td>PSB-60 cu. ft. with vacuum ports AND covers</td>
</tr>
</tbody>
</table>

Surge Bin Standard Features:
- 2 x 2 x 3/4 angle legs (48 sq. bins)
- 3 x 3 x 3/4 angle legs (60 x 72" sq. bins)
- 14 ga. hopper (48" sq. bins)
- 12 ga. hopper (60" x 72" sq. bins)
- Bolt-down foot pads
- Loader-mounting cutout (250 lbs max)
- 1/2 hinged cover
- Air box discharge flange (16 x 16")
- Blue epoxy (outside only)

Surge Bins

Economical in plant bulk storage, surge bins are available in sizes ranging from 36 cu. ft. to 234 cu. ft. Large quantities of material can be stored using very little floor space. They can be filled or discharged using pneumatic or screw-conveying equipment. There are many options available to adapt these bins to almost any material handling system. Check with us to see just how affordable bulk storage can be!

Optional Features:
- 12" x 12" slide gate
- 6" x 6" discharge adapter
- 6" slide gate
- 4" discharge spout w/slide gate
- Filter in cover
- 1-1/8" pipe stub in hopper
- Level control
- 4" window
- Platform w/ladder
- Epoxy paint inside

Standard Surge Bins

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>44-4500</td>
<td>48&quot; x 48&quot; 45° Hopper, 21&quot; Sidewall</td>
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<tr>
<td>44-4600</td>
<td>48&quot; x 48&quot; 45° Hopper, 22&quot; Sidewall</td>
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<td>44-4700</td>
<td>48&quot; x 48&quot; 45° Hopper, 23&quot; Sidewall</td>
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<td>46-4900</td>
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Standard Surge Bins with Discharge for Screw Conveyor or Air Box

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Standard Surge Bins

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<td>45-4600</td>
<td>48&quot; x 48&quot; 45° Hopper, 26&quot; Sidewall</td>
</tr>
<tr>
<td>45-4700</td>
<td>48&quot; x 48&quot; 45° Hopper, 27&quot; Sidewall</td>
</tr>
<tr>
<td>45-4800</td>
<td>48&quot; x 48&quot; 45° Hopper, 28&quot; Sidewall</td>
</tr>
<tr>
<td>46-4500</td>
<td>48&quot; x 48&quot; 45° Hopper, 29&quot; Sidewall</td>
</tr>
<tr>
<td>46-4600</td>
<td>48&quot; x 48&quot; 45° Hopper, 30&quot; Sidewall</td>
</tr>
<tr>
<td>46-4700</td>
<td>48&quot; x 48&quot; 45° Hopper, 31&quot; Sidewall</td>
</tr>
</tbody>
</table>

There are many options available - or will custom design to fit your needs!
Power Hopper

The Power Hopper is designed to feed pellets, granules, and free-flowing powders into an overhead hopper or storage vessel. It often works in conjunction with our Hydraulic Dumper to deliver material fast and efficiently from gaylord to point of use. Power Hoppers are built with a variety of auger sizes and types and can deliver from 10 to 500 cu. ft. of material per hour.

Standard Features:
- Direct gear drive for lower maintenance
- Motor controls with start-stop
- 20 cu. ft. hopper capacity
- Hopper dimension 44” × 44” × 46” high
- Quick-disconnect auger for easy cleaning
- Compressible dust seal
- Two-way fork channels for easy portability
- Stacking pads for portable storage bin or portable batch mixer
- Foot pads to secure unit to floor
- 12 gauge hopper with 1/8” bent angle legs
- 45° or 60° auger slope
- Epoxy painted, blue

Options:
- 30 cu. ft. capacity hopper, 56” high
- Bag breaker grate “continuous hinged cover”
- Vibrator
- Casters (2 swivel, 2 rigid locking)
- Variable speed drive
- Level control switch
- Special paint

Warranty
These products carry a full two-year warranty. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Live Bottom Power Hopper

The Live Bottom Power Hopper is designed to feed sluggish powders, flakes, and other hard-to-move materials into an overhead hopper or storage vessel. It is often used in conjunction with our Hydraulic Dumper to deliver material fast and efficiently from gaylord to point-of-use. If higher delivery rates are required, you may need a High Capacity Live Bottom Bin with a Tubular Screw Conveyor.

Standard Features:
- Direct gear drive for low maintenance
- Motor controls with start-stop
- 12 cu. ft. Hopper, 44° × 44” × 46” high
- Quick-disconnect auger for easy cleaning
- Compressible dust seal
- Two-way fork channels for easy portability
- Foot pads to secure unit to floor
- Stacking pads for portable storage bins or a portable batch mixer
- 12 gauge hopper with 1/8” bent-angle legs
- 15, 30, 45 or 60° auger slope
- Epoxy painted blue

Options:
- 22 cu. ft. capacity hopper, 56” high
- Bag breaker grate
- Continuous hinged cover
- Vibrator
- Agitator
- Casters (2 swivel, 2 rigid locking)
- Variable speed drive
- Level control switch
- Special paint

Warranty
These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Power Hopper

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Screw Dia.</th>
<th>Tube Dia.</th>
<th>RPM</th>
<th>STD. Dschg. Height</th>
<th>HP</th>
<th>Max. Length</th>
<th>Slope</th>
<th>Delivery Per Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-1100</td>
<td>2.7&quot;</td>
<td>3.5&quot;</td>
<td>345.00</td>
<td>11&quot;</td>
<td>1.5 or 3.0</td>
<td>50°</td>
<td>60°</td>
<td>50 c.f.</td>
</tr>
<tr>
<td>20-2100</td>
<td>2.7&quot;</td>
<td>3.5&quot;</td>
<td>345.00</td>
<td>9&quot;</td>
<td>1.5 or 3.0</td>
<td>50°</td>
<td>45°</td>
<td>60 c.f.</td>
</tr>
<tr>
<td>20-5100</td>
<td>4&quot;</td>
<td>5&quot;</td>
<td>232.00</td>
<td>11&quot;</td>
<td>2.0 or 3.0</td>
<td>20°</td>
<td>60°</td>
<td>150 c.f.</td>
</tr>
<tr>
<td>20-6100</td>
<td>4&quot;</td>
<td>5&quot;</td>
<td>232.00</td>
<td>9&quot;</td>
<td>2.0 or 3.0</td>
<td>20°</td>
<td>45°</td>
<td>180 c.f.</td>
</tr>
</tbody>
</table>

* Coreless Augers - need no hanger bearings and can incorporate a 40” radius elbow.

NOTE: Delivery rates on this table are approximations based on average materials under average conditions. Check with us before ordering to make sure the model you have selected will meet your requirements.

Live Bottom Power Hopper

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Screw Dia.</th>
<th>Tube Dia.</th>
<th>RPM</th>
<th>HP</th>
<th>Max. Length</th>
<th>Slope</th>
<th>Delivery Per Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-1200</td>
<td>2.70</td>
<td>3.5&quot;</td>
<td>345.00</td>
<td>1.5 or 2.0</td>
<td>30’ to 60’</td>
<td>50 c.f.</td>
<td></td>
</tr>
</tbody>
</table>
Screw Conveyors are most effective when moving large amounts of material over short distances. We have developed a standard line of tubular screw conveyors that range in capacity from 50 cu. ft. to 700 cu. ft. per hour. These Screw Conveyors are particularly good for moving dusty material because they can be completely sealed. Our direct-drive system is more compact and easier to maintain than other commonly used drives.

We offer a complete line of screw-conveying equipment including: discharge adapters, support stands, suspension brackets, level control switches, and motor control packages. We can also custom design screw conveyors to fit your particular material handling needs!

Options:
- Variable-speed control
- Explosion-proof electrical
- ½ bolt down, ½ hinged cover
- View windows
- Level switches
- Vibrator
- Agitator
- Stainless steel construction
- Custom paint and matching colors
- 2 HP 110V/1PH

Standard Features:
- Bin size: 48” wide x 86” high, 48” or 60” long
- Bin capacity: 50 or 62 cu. ft.
- Bolt-down foot pads
- Shaft seal: PTFE packing
- Safety shut-off switch
- Motor controls with start-stop
- Screw conveyor: 6” or 9”
- Direct gear drive: 20:1
- Delivery: 6” Screw – 200 cf./hr. 9” Screw – 600 cf./hr.
- Painted blue epoxy
- 2 HP 230/460/3 PH

Warranty: These products carry a full two-year warranty covering defects in materials, manufacture and workmanship. Also, all STANDARD products are covered by a 30-day trial period guaranteeing customer satisfaction!

Part Number Description Flow Rate
21-1200 H.C. Live Bottom Bin, 48” x 60” x 86” high, 6” screw 200 cu. ft./hr
21-1300 H.C. Live Bottom Bin, 48” x 48” x 86” high, 6” screw 200 cu. ft./hr
21-2200 H.C. Live Bottom Bin, 48” x 60” x 86” high, 9” screw 600 cu. ft./hr
21-2300 H.C. Live Bottom Bin, 48” x 48” x 86” high, 9” screw 600 cu. ft./hr

Packaging Clips™ Streamline Your Packaging with Quality Clips™

- Completely Removable and Reusable. Better than tape, it won’t mark your boxes or leave residue.
- Prevents tipped or spilled boxes due to loose box flaps.
- Great for bulk packaging. Parts will not hang up on the smooth, flat surfaces or the tapered end.
- Maximize your workspace. Workers can stand closer to the box creating space in assembly line and manufacturing areas. No more leaping or reaching.

Quality Clips®

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>QC01</td>
<td>101-499 less 4%</td>
<td></td>
</tr>
<tr>
<td>QC02</td>
<td>101-499 less 5%</td>
<td></td>
</tr>
<tr>
<td>QC03</td>
<td>500+ less 12%</td>
<td></td>
</tr>
</tbody>
</table>

New Discount Program: Discount applies to current list price:
- 51-100 4%
- 101-499 5%
- 500+ 12%

The High Capacity Live Bottom Bin is designed to deliver sluggish powders, flakes and other hard-to-move materials in high volume to your processing equipment. It can be used as a dump station or as a surge hopper. The High Capacity Live Bottom is available with a 6” screw capable of delivering up to 200 cu. ft. of material per hour or a 9” screw that can deliver up to 600 cu. ft. per hour. Let us help you design a custom system to suit your needs.
Perfect for tough materials and applications

- Minimum, constant dewpoints of –40°, with dewpoints down to –100°F.
- relative humidities). Minimum, constant dewpoints in difficult environmental conditions (high relative humidity).
- Exact for fast drying of difficult materials and applications
- ISOPLAST® dries effectively in any ambient condition
- Ideal for medical and automotive molding facilities
- Fast, easy service of desiccant and heaters
- Durable, sturdy construction
- Easy access, quick-clamp enclosures
- Electric dryer valve eliminates the need for compressed air

**Options for HP4-X:**
- Alarm light
- UDC control
- Clogged filter indicator
- Temp setback
- High-temp hose
- After-cooler
- Plasticizer trap

**Options for ARID-X:**
- Alarm light
- UDC control
- Micro options:
  - Clogged filter indicator
  - Temp setback
- High-temp hose
- After-cooler
- Plasticizer trap

**ARID-X®-10 Mini-Dryer**
- Ideal for lab, insert and micro-part molding
- ELC control - no compressed air required
- Space-saving, compact design, only 21 inches (54 cm) high and weighs only 20 lbs (23 kg)
- Fast drying with the industry’s smallest 2-bed dryer
- Processing rates up to 10 lbs/hr (5 kg/hr)
- PID microprocessor control for accurate temperatures
- Dimensions 11 × 18 × 21 inches (23 × 36 × 41 cm)
**Drying Hoppers**

**Dri-Air®**

**Dri-Air® Drying Hoppers**

**RH Series Hoppers**

- Fully insulated, modular, stainless steel construction
- DRI-AIR's Modular Hoppers ensure uniform material flow with:
  - NO channeling
  - NO feedout problems
  - NO mixing problems
  - NO thru-put problems
- Standard capacity hoppers range from 5 to 1500 lbs (2 to 680 kg). Larger hoppers available, consult factory
- Dries less than a full hopper of material so there is no scrap or feedout
- Dries material to the bottom of the slide gate

**Easy-to-clean diffuser cone directs and optimizes air/material flow (no slugs of undried resin)**

**Hoppers include:**

- Slide gate
- Blank-mounting adapter
- Access door (RH60 and over)
- Insulation
- Laser-cut access doors provide a smooth, tight fit and eliminate troublesome gaskets
- Latch-held covers provide complete sealing; internal ring controls fill height and prevents possible damage to loader
- RH400 & RH600 hoppers include full-length sight glass and Bunting™ no-spill slide gate

**Options for RH**

- Floor Stand
- Take Off Box (NA on 5)
- Adjustable Fill Sensor

**Call for A Quote!**

**Mini Hopper-Mounted Dryer**

**AHM1 Mini-Dryer**

Complete with 30 lb (14 kg) insulated stainless steel hopper and 18 CFM blower, the AHM1 is an ideal match for small presses processing under 10 lbs/hr (4.5 kg/hr).

- Available in 110 and 220 volts
- Weighs only 98 lbs (45 kg)
- Compact 22 x 21 x 28 inches (56 x 53 x 71 cm)
- Electric dryer valve eliminates the need for compressed air
- Affordable

**Hopper-Mounted Dryers**

**Dri-Air®**

**HM Series Hopper-Mounted Dryers**

HM dryers save valuable floor space by combining the dryer with the hopper. Available with high-performance, 4-bed or with industry-standard, 2-bed dryers.

- Easy-to-operate, standard ELC (for AHM1) or UDC (for AHM2 - AHM4) based control with high-temperature alarm standard
- Unique design distributes weight throughout the hopper base
- Electric dryer valve eliminates the need for compressed air

**Options for HM Series**

- Portable Stand
- After Cooler
- Plasticizer Trap
- Magnet Drawer MD7500

**Call for A Quote!**

**AMH Series Hopper-Mounted Dryers**

- Easy-to-operate, standard ELC (for AHM1) or UDC (for AHM2 - AHM4) based control with high-temperature alarm standard
- Unique design distributes weight throughout the hopper base
- Electric dryer valve eliminates the need for compressed air

**Options for RH Series**

- Floor Stand
- Take Off Box (NA on 5)
- Adjustable Fill Sensor

**Call for A Quote!**

**Dimensions:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AHM1</td>
<td>Two Bed</td>
<td>A: 22 in</td>
</tr>
<tr>
<td>AHM2</td>
<td>Two Bed</td>
<td>A: 30 in</td>
</tr>
<tr>
<td>AHM3</td>
<td>Two Bed</td>
<td>A: 30 in</td>
</tr>
<tr>
<td>AHM4</td>
<td>Two Bed</td>
<td>A: 30 in</td>
</tr>
<tr>
<td>N/A</td>
<td>Four Bed</td>
<td>A: 30 in</td>
</tr>
<tr>
<td>HPHM2</td>
<td>Four Bed</td>
<td>A: 30 in</td>
</tr>
<tr>
<td>HPHM3</td>
<td>Four Bed</td>
<td>A: 30 in</td>
</tr>
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<td>HPHM4</td>
<td>Four Bed</td>
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**Dimensions:**

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<td>A: 30 in</td>
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</tr>
<tr>
<td>HPHM4</td>
<td>Four Bed</td>
<td>A: 30 in</td>
</tr>
</tbody>
</table>
**Mobile Drying Systems**

Dri-Air®

Eliminate press-mounted drying equipment for faster, easier and safer material changeovers. A compact package using our hopper-mount dryer; simply add our DAC compressed air loader and take-off box for a complete off-the-press drying system.

- Fast material changes by drying offline, wheel into position where needed
- Sturdy stand with swivel and locking casters
- Available with industry-standard, two-bed or high-performance, four-bed dryer

A great desiccant-type hopper dryer for use throughout the plant! This compact and portable unit has all the features you need and expect from a high-quality dryer:

- Single blower design will save up to 50% in energy costs
- Stainless steel, fully insulated hopper
- Two desiccant beds which automatically regenerate
- PLC-based control for 2-bed dryers and ADC-based control for 4-bed dryers
- Sturdy stand with locking swivel casters

**DAC Loader**

Dri-Air®

Eliminates press-mounted hoppers;

Improves operator safety;

Replaces noisy vacuum motors;

Ideal for quick material changes.

- A simple, effective material loader powered by normal shop air.
- Ideal for use with drying hoppers and injection molding machines.
- Excellent for material transfer applications such as:
  - Loading 5- to 150-ton presses
  - As a standalone unit to load undried resins from bags, etc.
  - Material loading from DRI-AIR PD Systems
- Supplied as a complete unit with:
  - Transvector pickup tube
  - Compressed air regulator
  - Stainless steel receiver with filter
  - Electric controls

<table>
<thead>
<tr>
<th>DRI-AIR Model</th>
<th>Loading Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAC1</td>
<td>DRI-AIR PD Systems &amp; Molding Machines</td>
</tr>
<tr>
<td>DAC2</td>
<td>Hoppers</td>
</tr>
</tbody>
</table>

**Portable Hopper Banks**

One dryer connects to multiple hoppers for a centralized drying system. Dry different materials, each at different temperatures, simultaneously!

DRI-AIR Hopper Banks are built on a compact, castered floor frame connected to one DRI-AIR dryer (not shown).

- Each hopper has its own separate temperature controller and heater
- Air manifolds with shutoff valves isolate hoppers not in use or while being cleaned
- No contamination problems, and far lower operating costs than drying ovens
- Ideal for pre-drying resins for fast changeovers
- Downtime reduced significantly because of faster, cleaner changeovers with pre-dried material
- Partial hopper loads dried as thoroughly as full loads
- Perfect for research & development applications
- Processors making one or two material changes daily can justify the cost of a hopper bank within six months

**Dri-Air® Portable Hopper Banks**

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- Processors making one or two material changes daily can justify the cost of a hopper bank within six months

**Pricing includes:**

- hoppers, frame, boosters heaters, temperature controllers, casters, supply and return air manifolds with shut-off valves.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Loading Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Bed</td>
<td></td>
</tr>
<tr>
<td>APD1</td>
<td></td>
</tr>
<tr>
<td>APD2</td>
<td></td>
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<tr>
<td>APD3</td>
<td></td>
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<td>APD4</td>
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<tr>
<td>Four Bed</td>
<td></td>
</tr>
<tr>
<td>HPD1</td>
<td></td>
</tr>
<tr>
<td>HPD2</td>
<td></td>
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<tr>
<td>HPD3</td>
<td></td>
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<td>HPD4</td>
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<tr>
<td>Process Rate (lbs/hr):</td>
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</tr>
<tr>
<td>Two Bed</td>
<td>7.5 15 25 35</td>
</tr>
<tr>
<td>Four Bed</td>
<td>10 20 30 40</td>
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<tr>
<td>Process Rate (kg/hr):</td>
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<tr>
<td>Two Bed</td>
<td>5 7 12 16</td>
</tr>
<tr>
<td>Four Bed</td>
<td>6 10 14 18</td>
</tr>
<tr>
<td>Hopper Capacity:</td>
<td></td>
</tr>
<tr>
<td>lbs</td>
<td>30 60 100 150</td>
</tr>
<tr>
<td>kg</td>
<td>14 27 45 68</td>
</tr>
<tr>
<td>Stand:</td>
<td>Included Included Included Included</td>
</tr>
<tr>
<td>Power:</td>
<td>208, 230, 400, 480, 600 VAC; 50/60 Hz</td>
</tr>
<tr>
<td>cm (l/w/h)</td>
<td>64/99/145 64/99/169 64/99/152 64/99/185</td>
</tr>
</tbody>
</table>

**Pricing includes:**

- hoppers, frame, boosters heaters, temperature controllers, casters, supply and return air manifolds with shut-off valves.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Loading Applications</th>
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<tbody>
<tr>
<td>Three Bank</td>
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<tr>
<td>RH5-3</td>
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</tr>
<tr>
<td>RH15-3</td>
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<td>RH30-3</td>
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<tr>
<td>RH100-3</td>
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<td>RH150-3</td>
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<td>RH5-5</td>
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<td>RH15-5</td>
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<td>RH30-5</td>
<td></td>
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<tr>
<td>RH60-5</td>
<td></td>
</tr>
</tbody>
</table>
CAHB series are complete with a built-in compressed air Dri-Pack dryer that provides the hoppers with dry –40°F air!

- Dry different materials at different temperatures, simultaneously
- Ideal for pre-drying resins for fast changeovers
- Automatic air control to hoppers for easy, trouble-free operation
- Perfect for small tonnage machines
- Eliminate downtime waiting for material to dry

This self-contained drying system is all you need for pre-drying materials for fast changeovers. Each hopper has its own booster heater and temperature controller so you can dry different materials at different temperatures simultaneously. The CAHB has a wide temperature range of 70°F to 350°F without the need of after-coolers.

To simplify operation, air flow to the hoppers is controlled automatically when the temperature controllers are turned on/off, eliminating the guesswork associated with manual air valves. The CAHB's central control panel contains the temperature controllers, control switches and high-temperature alarm status panel. Installation is also simplified with one power and air connection.

The stainless steel, insulated drying hoppers are designed for easy cleaning and include a slide gate for draining. Quick clamps secure the hopper lid for access and cleaning.

The CAHB’s built-in compressed air Dri-Pack dryer saves space by eliminating the need for an external desiccant dryer power pack. Membrane technology provides –40°F dewpoints from your plant’s compressed air, making it capable of drying all kinds of materials.

Designed for trouble-free, reliable operation, the membrane comes standard with a three-year warranty. Scheduled maintenance is a simple matter of cleaning the hopper filters, as most moving parts have been eliminated.

### Compressed Air Dryers

#### Hopper Banks

- CAHB series are complete with a built-in compressed air Dri-Pack dryer that provides the hoppers with dry –40°F air!
- Dry different materials at different temperatures, simultaneously
- Ideal for pre-drying resins for fast changeovers
- Automatic air control to hoppers for easy, trouble-free operation
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### Compressed Air Dryers

#### Hopper Mounted

- CAHM series are compact, lightweight dryers that easily fit on most presses freeing up valuable floor space. The CAHM series operates on your plant’s compressed air with our Dri-Pack for drying down to –40°F dewpoints.

- Simple, straightforward operation - simply set the drying temperature
- Compact enough to fit on most machines without special bracing or adapters
- Perfect for R & D applications
  - Standard –for drying down to 0° dewpoint
  - Standard w/Dri-Pack – for drying down to –40°F dewpoints

The CAHM is a self-contained drying system that easily mounts on most machines. Using a steady supply of clean, compressed air @ 100 psi, the CAHM unit will provide dewpoints down to –40°F dewpoint.

The easy-to-use controls include process and actual temperatures and a high-temperature alarm. The CAHM has a wide temperature range of 70°F to 360°F without the need of after-coolers.

Drying hoppers on the CAHM series are stainless steel and include insulation, blank feed throat adapter, drain port, slide gate and manual fill lid. On the CAHMH5’s 60 lb hopper, a laser-cut access door and full length sight glass are also included.

#### Dryer Model: CAHM30

- **Hopper Size:** 30 lbs
- **Heater (Kw):** 1.25
- **Dimensions:** 20” (w) x 28” (h)

#### Dryer Model: CAHM60

- **Hopper Size:** 60 lbs
- **Heater (Kw):** 2.00
- **Dimensions:** 20” (w) x 40” (h)

- **CAHM30**
  - **Hopper Size:** 30 lbs
  - **Heater (Kw):** 1.25
  - **Dimensions:** 20” (w) x 28” (h)

- **CAHM60**
  - **Hopper Size:** 60 lbs
  - **Heater (Kw):** 2.00
  - **Dimensions:** 20” (w) x 40” (h)

Available power: 110 or 220 volts, 1 phase. Compressed air requirement 100 psi of clean, 1.5-2.5 SCFM. Specifications subject to change without notice.

<table>
<thead>
<tr>
<th>Dryer Model</th>
<th>Hopper Capacity</th>
<th>Number of Hoppers</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAHM5-3</td>
<td>5 lbs/hr</td>
<td>3</td>
<td>48” (l) x 28” (w) x 43” (h)</td>
</tr>
<tr>
<td>CAHM15-3</td>
<td>15 lbs/hr</td>
<td>3</td>
<td>48” (l) x 28” (w) x 50” (h)</td>
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</tbody>
</table>

Available power: 110 or 220 volts, 1 phase. Compressed air requirement 100 psi of clean, 1.5-2.5 SCFM. Other sizes available - please call. Specifications subject to change without notice.
We carry both 13X and 4A Molecular Sieve Desiccants in stock. Due to the particular designs of the resin dryers used in the industry, it is important that the correct sieve is used with the dryer that it was designed for. Unfortunately, we cannot recommend a desiccant based on either the type of materials you are processing or the type of equipment you have. You may have two different machines from the same manufacturer that will require different desiccants. We can say with certainty that equipment manufacturers will recommend one of two types: 13X or 4A. Each have advantages when used in the drying process.

Molecular sieve type 13X has a 12% higher water capacity and a larger pore size. This larger pore allows the water to absorb faster than the 4A and will absorb larger molecules as well. Depending on the quantity and type of molecules present, these could react on the surface of the 13X during regeneration and not come off, thus reducing the sieve capacity over time. 13X is subject to contamination of the type of molecules present, these could react on the surface of the 13X during regeneration and not come off, thus reducing the sieve capacity over time. 13X is subject to contamination which renders it ineffective.

Because of 4A's smaller pore size, it is less subject to contamination. However, because of its lower capacity and smaller pore opening, the rate at which it absorbs water will be lower than with the 13X. Another factor to consider is the bead size. Small beads (8 x 12 mesh) have a faster rate of water absorption, but they also have a higher pressure drop than the larger (4 x 8) beads. If you don’t know which type of sieve your dryer was designed to use, we urge you to contact the manufacturer of your equipment for their recommendation. In either case we carry what you need at a fraction the price charged by the OEM. Our desiccant is only the most fresh and pure to ensure optimal performance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Bead Size</th>
<th>Mesh Size</th>
</tr>
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<tbody>
<tr>
<td>13 x 542</td>
<td>1/8&quot;</td>
<td>8 x 12</td>
</tr>
<tr>
<td>13 x 544</td>
<td>3/16&quot;</td>
<td>8 x 12</td>
</tr>
<tr>
<td>4A513</td>
<td>1/8&quot;</td>
<td>8 x 12</td>
</tr>
<tr>
<td>4A514</td>
<td>3/16&quot;</td>
<td>8 x 12</td>
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</table>

The Vaisala DRYCAP® Hand-Held Dewpoint Meter DM70 measures dewpoint temperature accurately over a wide measurement range. The probe may be inserted directly into pressurized processes, and it responds rapidly from ambient to process conditions. The sensor withstands condensation and fully recovers from getting wet.

The monitor also has a sensor purge feature. This Sensor Purge heats and dries the sensor, making the response from ambient to dry conditions exceptionally fast. This facilitates rapid shot-checking measurements in low dewpoints.

Low maintenance due to innovative autocalibration

The DM70 is fitted with the Vaisala DRYCAP® Sensor. The sensor provides reliable and high-performance dewpoint measurement with revolutionary long-term stability. The patented autocalibration procedure detects online possible measurement inaccuracies and automatically corrects dry-end drift in the calibration curve. These advanced features provide a long calibration interval and low maintenance cost.

The meter is calibrated in the factory against internationally traceable standards and delivered with a calibration certificate. The DM70 can also be sent to a Vaisala Service Center for a traceable recalibration.

Easy-to-use user interface

The DM70 has a versatile and easy-to-use, menu-based user interface and a clear graphical LCD display with datalogger function. It can also be used as a tool for reading the output of fixed Vaisala dewpoint transmitters like the DMT242, DMT142 and DMP248.

Various display variables

The DM70 displays one to three parameters at a time, either numerically or graphically. Several humidity units can be selected. In addition, the DM70 includes conversion from gas pressure dewpoint. An analog output is also available.
M170 Link PC Connection
The DM70 has a M170Link Windows® software program for transferring logged and real-time measurement data from the DM70 to a PC.

Lightweight Construction
The DM70 is small and rugged, and therefore an ideal choice for demanding applications. The long battery life provides convenient use in the field.

DM70 Accessories
The DM70 meter is suitable for direct dewpoint measurements in a wide temperature and pressure range. For more demanding applications, the DM70 can be used with the Vaisala sampling cell adapters, or with the Vaisala DRYCAP® Sampling System (DSS70A).

DSS70A Portable Sampling System
The DSS70A is designed to provide dewpoint sampling flexibility. For processes at atmospheric pressure, a battery-powered pump is used to extract a gas sample. For pressurized processes up to 20 bar, the sample is measured at process pressure and then reduced to atmospheric pressure for venting or re-direction, bypassing the pump. In all cases, the sample gas passes through a filter to remove particulate contamination before measurement. Flow through the system is controlled and monitored with a needle valve and flow meter.

The DSS70A is easily connected to an appropriate sample point with tubing (typically 1/4” or 6mm). The measured dewpoint must be below ambient temperature to avoid condensation in the system. Gas temperatures higher than +40°C (+104°F) should be cooled with a short PTFE or stainless steel tube prior to entering the DSS70A.

Sampling Cells for Pressurized Process
The DM70 can easily be connected to pressurized processes. In addition to direct pipeline installation, a variety of sampling cell options are available for gas sampling.

The DMT242SC is a basic sampling cell. The DMT242SC2 is a sampling cell supplied with welded Swagelok connectors for sampling in a 1/4” pipeline.

The DSC74 sampling cell has a variety of connection adapters that allow several different ways of installation. The quick connector with a leak screw allows a very fast connection for compressed air lines. Additionally, two thread adapters are available for the inlet port.

Two Kits to choose from:

**Kit A Includes:**
- DM70 Meter - rechargeable with U.S. AC adapter
- M170 Link (software with USB cable)
- Probe type DMP74B [-60 to +20°C Td]
- Sample cell DMT242SC (no fittings)
- Weatherproof light gray, hard plastic carrying case (M170CASE3)
- Instruction manual

**Part Number DM70D1B3A3B1**

**Kit B Includes:**
- DM70 Meter - rechargeable with U.S. AC adapter
- M170 Link (software with USB cable)
- Probe type DMP74B [-60 to +20°C Td]
- Portable sampling system with case (DSS70A)
- Instruction manual

**Part Number DM70D1B2A0B**
This basic model is available in many variations. See options on page 32. Please don’t hesitate to ask our salespeople for help!

**Base Model SC1250 Features**
- Spun & welded aluminum
- Di-Ac filter (pellet or granual service)
- Electrical control box with power cord (12 ft.)
- Flexible hose with pick-up lance
- High-level control of receiving hopper
- Motor and turbine (vacuum producer)

**Self-Cleaning Model SC1250VP**
- Same features as SC1250
- Vibe-Pulse filter cleaning system

**Extra Tall Model SC1250XT**
- Same features as SC1250
- Extra tall receiver - 4” taller than standard

**Stainless Steel Model SC1250SS**
- Same features as SC1250
- Spin and welded stainless steel receiver

**Integral Proportioning Model SC1250PLVP**
- Same features as SC1250
- Vibe-Pulse filter cleaning system
- Integral proportioning
- Proportional control timer

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**Whisper Loaders Specifications**

**Whisper Loaders™ SC1250 - Conveys approx. 500 lbs/hr**

<table>
<thead>
<tr>
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<td>1</td>
<td>No</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>12 ft.</td>
<td>64-in²</td>
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<tr>
<td>SC1500</td>
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<td>1</td>
<td>1</td>
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<td>12 ft.</td>
<td>153-in²</td>
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<td>1</td>
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<td>1</td>
<td>1</td>
<td>1</td>
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<td>12 ft.</td>
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<td>1</td>
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<td>1</td>
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<td>1</td>
<td>12 ft.</td>
<td>153-in²</td>
<td>10’</td>
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<td>1</td>
<td>2</td>
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<td>12 ft.</td>
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<td>1</td>
<td>2</td>
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<td>1</td>
<td>1</td>
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<td>153-in²</td>
<td>10’</td>
<td>27</td>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>153-in²</td>
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<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
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<td>12 ft.</td>
<td>11-ft²</td>
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<td>1</td>
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<td>3</td>
<td>3</td>
<td>12 ft.</td>
<td>33-ft²</td>
<td>10’</td>
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<td>SC1750-PR3C</td>
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<td>Yes</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>12 ft.</td>
<td>33-ft²</td>
<td>10’</td>
<td>38</td>
</tr>
</tbody>
</table>

**Motor Code**
- 1: Three Phase 2 (All units with 2-Stage Blower Fan)

**Filter Code**
- 1: Di-Ac Nylon
- 2: Di-Ac Polyfelt
- 3: pleated Cartridge

**Notes:**
1) Diaphragming-Action (Di-Ac) Flat Filters available in either Nylon or Polyfelt as options.
2) Pleated Filters are 12” standard with Loader body straight-side dimension of 12” minimum; other lengths (6” & 18”) available as special-order options (longer Filters require taller bodies).
3) Shipping weights shown include Pick-Up Lance(s), Hose(s), Control Panels & Packaging.
4) Series 1500 and larger Loaders available with the Brushless “BC” type motor - adds 5 pounds.
Sound Attenuation
Sound Absorbing
Exhaust Hood

This basic model is available in many variations. See options on page 32. Please don’t hesitate to ask our salespeople for help!

Materials Intake Tube
Accepts 1½” I.D. Hose
Includes 10 ft. of 1½” I.D. flexible material hose, pick-up probe and clamps. Proportional options include (2) lengths of hose 10’ long.

Microprocessor-based, solid state electrical control box w/12ft. power cord contains - circuit breaker, on/off, indicator lights, cycle timer (and Vibra-Pulse™ Air Blast Timer on VP Models only)

Optional: 240 Volt/1 Phase 50 or 60 Hz on Model SC150VP; call for quote
Note: All panels remote; Pulse clean system requires .5 SCFM at 80 PSI

Materials Intake Tube
Accepts 1½” I.D. Hose
Pre-Drilled Base for easy installation on hopper lid

Microprocessor-based, solid state electrical control box w/12ft. power cord contains - circuit breaker, on/off, indicator lights, cycle timer (and Vibra-Pulse™ Air Blast Timer on VP Models only)

Optional: 240 Volt/1 Phase 50 or 60 Hz on Model SC150VP; call for quote
Note: All panels remote; Pulse clean system requires .5 SCFM at 80 PSI

This basic model is available in many variations. See options on page 32. Please don’t hesitate to ask our salespeople for help!
**Replacement Parts**

9” felt filter for SC1250VP and PLVP models.................PN#100280
9” DI-AC filter.......................................................PN# 100216
Gasket for SC1250................................................PN# 101261
14” felt filter for SC1500/1750VP and PLVP models.....PN#100293
14” DI-AC filter.......................................................PN# 100086
Gasket for SC1500, SC1750.......................................PN# 101262

**Replacement Part Kits**

Model SC1250 Parts Kit PN# 100264 includes:
(2) 9” DI-AC filters
(1) 9” dia. filter gasket
(2) sets-motor brushes

Model SC1500 Parts Kit PN# 100328 includes:
(2) 14” DI-AC filters
(1) 14” dia. filter gasket
(2) sets-motor brushes

Model SC1750 Parts Kit PN# 100804 includes:
(2) 14” DI-AC filters
(1) 14” dia. filter gasket
(2) sets-motor brushes

**Powder Receivers**

Models SC150PR3C and SC150PR3CSS incorporate pleated filters and pulse cleaning, resulting in efficient conveying of fine powders.

**Integral Proportioning**

Allows for the alternate conveying of two different materials. Using the optional Interblend element, a static internal blender will mix two products without layering.

**Proportional Control Timer**

Microprocessor-based, solid state control timer with easy access proportion adjustable knob on outside of control enclosure (not pictured).

**Vibra-Pulse** filter cleaning system is used for conveying regrind or dusty materials. Filter is automatically cleaned with a “pulse” of compressed air, which “shakes” filter clean.

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>NSO1S</th>
<th>NSO2S</th>
<th>NSO3S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Pressure required</td>
<td>80 P.S.I.</td>
<td>80 P.S.I.</td>
<td>80 P.S.I.</td>
</tr>
<tr>
<td>Voltage required</td>
<td>120/60/1</td>
<td>120/60/1</td>
<td>120/60/1</td>
</tr>
<tr>
<td>Hopper Ht. &amp; Diameter</td>
<td>18.5H x 8.25 Dia</td>
<td>18.5H x 8.25 Dia</td>
<td>18.5H x 5 Dia</td>
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<tr>
<td>Flange Diameter</td>
<td>5”</td>
<td>5”</td>
<td>5”</td>
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<tr>
<td>Material Line Size</td>
<td>1½” x 10’ (supplied)</td>
<td>1½” x 10’ (supplied)</td>
<td>1½” x 10’ (supplied)</td>
</tr>
</tbody>
</table>

**Single Entry EZ Loader**

For use with virgin material 1000 lbs per hour max throughput

Model NSO1S includes:
- Filter receiver assembly
- Air control assembly
- Ten feet of 1¼” material hose and two hose clamps
- Ten feet of ½” compressed air hose
- Proximity switch
- One 20’ suction wand with venturi
- Operating and installation manual

Model NSO1S includes sight glass assembly

Model NSO2S includes:
- Filter receiver assembly
- Master air control assembly
- Slave air control assembly
- Two 10-foot lengths of 1¼” material hose and four hose clamps
- Two 10-foot lengths of ½” compressed air hose
- One proximity switch
- Two 20’ suction wands with venturi
- Operating and installation manual

Model NSO2S includes sight glass assembly

Model NSO3S includes granulator exhaust assembly

**Motorless Venturi Loader**

- Operates on compressed air
- Perfect for transporting material from drying hopper granulators or boxes
- Easy-to-use & install the EZ Loader is fully automatic; starting and stopping is controlled by the proximity sensor.
- Unit requires compressed air and 120/1/60 power, hook up hoses and it’s ready to go
- Economical, no moving parts, no brushes to replace
- Fast conveys 1000 lbs. per hour from the press to 10’ height
- Stainless Steel Construction, rust contamination is eliminated.

**3 Base Models Available**

**Single Entry EZ Loader**

Model NSO1S
- Filter receiver assembly
- Air control assembly
- Ten feet of 1¼” material hose and two hose clamps
- Ten feet of ½” compressed air hose
- Proximity switch
- One 20’ suction wand with venturi
- Operating and installation manual

Model NSO2S
- Filter receiver assembly
- Master air control assembly
- Slave air control assembly
- Two 10-foot lengths of 1¼” material hose and four hose clamps
- Two 10-foot lengths of ½” compressed air hose
- One proximity switch
- Two 20’ suction wands with venturi
- Operating and installation manual

Model NSO3S
- Filter receiver assembly
- Master air control assembly
- Slave air control assembly
- Two 10-foot lengths of 1¼” material hose and four hose clamps
- Two 10-foot lengths of ½” compressed air hose
- One proximity switch
- Two 20’ suction wands with venturi
- Operating and installation manual

**Granulator Unloading EZ Loader**

For use with virgin/regrind 2000 lbs per hour max throughput

Model NSO3S includes:
- Filter receiver assembly with mounting flange
- Air control assembly
- Ten feet of 1¼” material hose and two hose clamps and 20’ wand
- Ten feet of ½” compressed air hose
- Venturi with coupler (or suction wand) to couple to granulator tube (tube OD must be specified)
- Operating and installation manual

Model NSO3S includes granulator exhaust assembly
Motorless EZ Loaders

Typical Installation Arrangements

Options Available:

- Sight Glass Assembly (5’ height)
- Granulator Exhaust Assembly
- Bulletin Magnet
- Suction Box
- Spare Filter
- “Out-of-Material” Indicator

“Micro” EZ Loader

This small venturi loader is designed to convey CLEAN Virgin Material to small injection molding machines using a maximum of 25 pounds per hour of pelletized plastic material.

This small, lightweight, quiet unit is ideal for use on small machines running pelletized virgin material, or to convey color concentrate to color feeders. The receiving tube is of stainless steel so that material contamination will not take place, and it can be used with the EZ Loader sight glass and all of the other EZ Loader options. Just supply compressed air and 120/60/1 electric power to the unit and you are ready to load. The sensor starts the EZ Loader sight glass and all of the other EZ Loader options. Just supply compressed air and 120/60/1 electric power to the unit and you are ready to load. The sensor starts the unit so that conveying is fully automatic.

ifm efector® Level Sensors

Optimized to Sense Lower Density, Lower Moisture Plastics Regrind and Pellets!

ifm efector® raises the bar in sensing plastic materials. For years, ifm capacitive level sensors have been a proven solution for applications on loaders, blenders and grinders in the plastics processing industry.

Traditional capacitive sensors can detect high-density materials with high-moisture content. However, plastic materials are now being dried at higher temperatures producing very low moisture content. The resulting materials can cause sensing problems for traditional capacitive sensors.

ifm efector’s new KI level sensor incorporates improved capacitive sensing electrodes and patented circuitry to detect low-moisture, low-density materials. Combined, these innovations enable the KI sensor to perform in today’s plastics processing applications.

Pushbutton adjustment simplifies setup

The KI Sensor point-level sensors feature an intuitive two-pushbutton function that calibrates the proper setpoint value and simplifies the setup process. The sensor is quickly and easily adjusted for a specific application.

High temperature sensing durability

Because plastic materials are dried at extremely high temperatures, the KI sensor has a high temperature range of 230°F (110°C).

ESD tolerant and noise immune circuitry

The KI’s robust design resists high levels of electrostatic discharge that can arc back to the sensor. Patented noise immune circuitry ignores interference from motor drivers and switching power supplies.

Plug-and-play installation

Quick-disconnect Micro DC and Micro AC units are available.

** Specifications **

** Electrical Design **

<table>
<thead>
<tr>
<th>DC</th>
<th>AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-wire</td>
<td>2-wire</td>
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</table>

** Wiring**

| Micro DC | Micro AC |

** Connection**

<table>
<thead>
<tr>
<th>Operating Voltage [V]</th>
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<tbody>
<tr>
<td>10...36</td>
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** Current Rating [mA]**

<table>
<thead>
<tr>
<th>Voltage Drop [V]</th>
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<tbody>
<tr>
<td>&lt;2.5</td>
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** Consumption [mA]**

<table>
<thead>
<tr>
<th>Leakage current [A]</th>
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<tr>
<td>&lt;20</td>
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** Operating Temperatures [°F]**

<table>
<thead>
<tr>
<th>230° sensing capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>~13...176°</td>
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** Protection**

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<th>Housing Material</th>
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<tbody>
<tr>
<td>IP66/IP67</td>
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</tbody>
</table>

** Mounting Accessories**

** Type **

<table>
<thead>
<tr>
<th>30mm stainless steel mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>U2003</td>
</tr>
</tbody>
</table>

** 30mm mounting cap |
| E10077 |
Sight Glass Magnets

Hopper Loader Sight Glass Magnet

Our Sight Glass Magnet is designed to capture tramp metal in Just-In-Time (JIT) hopper loaders. These powerful, compact 50 MGOe Rare Earth magnets are ideal for applications where a Clean-Flow™ magnet won’t fit in the JIT system. The Sight Glass Magnet’s cartridge hangs in the center of the hopper loader’s glass tube from a stainless steel ring and handle. From this position, it prevents tramp metal from entering the molding machine, without interfering with the flow of material from the hopper.

The Sight Glass Magnet is visible through the JIT’s glass tube for easy inspection of tramp metal build-up. The magnetic pole located on the bottom of the cartridge allows tramp metal to collect in a protected area, preventing wash-off of the collected metal back into the product flow. Tramp metal should be cleaned from the magnet on a regular basis to ensure that build-up on the magnet doesn’t affect its performance.

Features:
- Won’t affect material level sensors that are mounted on the outside of the JIT’s glass tube
- Bottom pole is magnetized to prevent wash-off of collected metal
- Four standard sizes available to fit your application
- Powerful rare earth magnetic cartridge
- Stainless steel, all-welded construction.

Specifications:
- ¾” diameter Sight Glass Magnets are recommended for hopper loaders with glass tubes under 2¾” in diameter
- 1” diameter Sight Glass Magnets are recommended for hopper loaders with glass tubes over 2¾” in diameter
- Always select a Sight Glass Magnet with a ring diameter that is slightly larger than your hopper opening to ensure proper magnet location.

---

Torpedo In-Line Magnet

Vacuum Line Magnet

Features:
- Welded stainless steel construction
- Powerful rare earth magnetic circuit
- Connecting ends are constructed of .065” wall thickness tubing

---

### Part Number | Line Size | Overall Length
---|---|---
ITM112 | 1” | 11¾”
ITM200 | 2” | 9½”
ITM212 | 2½” | 9½”
"T" Handle Magnetic Wands

The DME Industrial Supplies "T" handle magnetic wand is an easy and effective way to safely sweep gaylords, regrind materials or other small batch additives. This prevents costly damage to screws and barrels and eliminates clogged nozzles due to tramp metal entering the process. This "T" handle wand is lightweight with clout where it counts coming from a full 12-inch long, 1-inch diameter bullet tip magnet made of power-balanced neodymium, permanent magnetic material. Optional handle and cartridge lengths are available. This high-quality tool is designed to save the molder production time and need for costly repairs.

Part Number TMW1

Permanent Magnetic Lifters

Save Time and Labor

Bunting® MagLift™ Hand-Controlled Permanent Magnetic Lifters

Bunting® MagLift Permanent Magnetic Lifters are powered by blocks of high-energy neodymium magnetic material. Switching is achieved by making one of these blocks reversible. In the "on" position, the reversible block is in parallel with the static blocks so that a concentrated magnetic field is produced at the pole feet for lifting. In the "off" position, the reversible block is rotated through 180° to provide a total magnetic short circuit within the lifter body.

![Force/Air Gap Curve – Hand Controlled](image)

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>MGLIFT225</td>
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<td>0.6</td>
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<tr>
<td>MGLIFT1100</td>
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<tr>
<td>MGLIFT2200</td>
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<td>2.8</td>
<td>120</td>
<td>1760</td>
<td>24</td>
<td>120</td>
</tr>
</tbody>
</table>

The maximum stated length is not the maximum diameter. (Always work within the stated Safe Work Load)

Above values are based on cold-rolled mild steel.
Bunting® Drawer Magnets

Trap Tramp Metal
Protect Product Purity and Equipment with Bunting Permanent Magnetic Drawer Filters and In-line Separators

You can produce a bewildering variety of metal separation products from dozens of suppliers these days. As you might expect, cost and performance vary widely. So it pays to choose with care.

You may be surprised to discover how reasonably priced our separation equipment is especially given its reputation for being the best. All Bunting products featured in this catalog use powerful permanent magnets and provide dependable protection year after year with little or no maintenance. Bunting Permanent Magnetic protection won’t “wear out,” either. In fact, products featured in this catalog will still be working reliably long after your present molding machines and conveying equipment have been replaced.

So count on Bunting for effective, economical permanent magnetic separation. We’re leaders in the field, first with significant innovations—like the original No-Spill™ Slide Gate, and now with redesigned magnetic cartridges and Earth Cartridges™ engineered for increased holding force and collection area.

You’ll find Bunting products widely used to reduce tramp contamination not only in plastics processing and manufacturing but in the food, chemical and bulk solids industries as well. For over 40 years, American industry has relied on Bunting as a single-source supplier for the best in magnetic separation equipment.

Versatile Design
Bunting Magnets are the industry standard for molding machines, extruders and many other applications. Process material makes direct contact with a double row of magnetic cartridges which provide dependable, constant magnetic protection that will not wear out. FF Series Magnetic Drawer Filters offer proven protection at key points... between bag dumps and conveying lines, at weigh station cyclone receivers, hoppers, mixers, and other locations where contaminants jeopardize production runs and equipment.

All Bunting Drawer Magnets now have greater surface holding force to capture tramp metal better than ever before. That means more complete removal of contaminants and less chance of “wipe-off.”

LIFETIME GUARANTEE
We guarantee the durability and performance of Bunting Drawer Magnets for as long as you own them against defects in materials and workmanship. For years Bunting Drawer Magnets have been the first and most popular choice worldwide. Now they’re even better, thanks to our powerful magnetic cartridges and heavy-duty drawer design. Both are included in our lifetime guarantee.

LIFETIME GUARANTEE
We guarantee the durability and performance of Bunting Drawer Magnets for as long as you own them against defects in materials and workmanship. For years Bunting Drawer Magnets have been the first and most popular choice worldwide. Now they’re even better, thanks to our powerful magnetic cartridges and heavy-duty drawer design. Both are included in our lifetime guarantee.

When headroom is critical, you need Bunting’s Low Profile Drawer Magnet. No other drawer magnet can compare to Bunting’s proven design in a space-saving, 5–¾” overall height. You get a single row of the exclusive Power-Balanced Permanent Magnetic Cartridges, clear polycarbonate drawer front, and rigid 10-gauge steel construction—the same features that make Bunting standard drawer magnets the most popular in the industry. Where you have additional clearance, you can even install these units with our original No Spill™ Slide Gate option. Rare earth magnetic cartridges are also available to trap and hold extremely fine or marginally magnetic ferrous material. We’ll pre-drill the unit’s rugged ¼” thick flanges to your specifications at no extra charge.

<table>
<thead>
<tr>
<th>Model</th>
<th>S</th>
<th>H</th>
<th>D1</th>
<th>D2 (w/D1)</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A4</th>
<th>A5</th>
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</thead>
<tbody>
<tr>
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<td>6×6</td>
<td>5¾&quot;</td>
<td>4</td>
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<td>2</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>LP1600PLS &amp; ▼</td>
<td>6×6</td>
<td>7½&quot;</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>3</td>
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<tr>
<td>LP1800PL</td>
<td>8×8</td>
<td>5¾&quot;</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>5</td>
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<tr>
<td>LP1800PLS &amp; ▼</td>
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<td>7½&quot;</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

* Slide-Gate ▼ In stock with standard flange sizes - not drilled

No Waiting For Saving!!
These units have standard flange sizes so you can drill them to fit your machine and put them to work right away! Bunting is far and away the most popular drawer magnets in plastics! Don’t settle for a look-alike brand; get the real thing, at real savings, right now!!

DME@dme.net • www.dme.net

U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000

DME@dme.net • www.dme.net

U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000
Purge Hopper
Our magnetically protected Purge Hopper speeds clean-out of your equipment when changing color or when “clean room” standards must be met. If your process line handles resins heated to exceptionally high temperatures, order your magnetic drawer filter equipped with Bunting Alnico Magnets. Their magnetic strength will not diminish in temperatures as high as 1000°F.

If your application involves extremely small metal fines or contaminants that are only marginally magnetic, you may need the extra magnetic energy of rare earth magnets. Rare earth drawer filters are supplied with stainless steel housings to prevent the entire assembly from becoming magnetized by these extremely powerful magnets. Both stainless steel and stainless steel/rare earth models are available in several standard sizes and can also be custom made for your application.

All Types Are Also Available in SELF-CLEANING MODELS
Save time two ways as you protect product purity and equipment. You can clean in place with one quick pull or remove the whole drawer assembly for safe off-the-machine maintenance. Bunting Drawer Magnets are the first to offer such convenient cleaning. Each self-cleaning unit has extra-long magnetic cartridges that fasten inside stainless steel sleeve attached to the see-through polycarbonate drawer front. Trap metal metallics on sleeve surfaces and falls from the sleeves as they are pulled clear of the magnetic cartridges and drawer housing. No wiping or brushing required.

Now you can upgrade Bunting Standard Drawer Magnets by replacing the drawer module. Self Cleaning Drawer Modules are available to retrofit all new FF Series Models 4400, 4600, 4800 and 4100 (with or without Slide Gate option) manufactured after August 1, 1989. Just specify your Drawer Magnet model number when ordering.

Ask our knowledgeable salespeople for more information.

Easy Installation
Each of the four standard FF Series units is available with the original No-Spill™ Slide Gate - Bunting designed and patented - to provide safer and more convenient cleaning. All models are also available with self-cleaning drawer modules. Flanges are pre-drilled to OEM or customer specifications. Be sure to request the options, flange specifications and hole locations you want when ordering. Standard and self-cleaning models now have identical housings. Standard units built after August 1, 1989 can be retrofitted for self-cleaning operation simply by ordering a corresponding self-cleaning drawer module.
**FF Series Drawer Filter Order/Quote Request**

<table>
<thead>
<tr>
<th>Customer</th>
<th>Account Number:</th>
<th>PO#:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Quote #:</td>
<td>Due Date:</td>
</tr>
<tr>
<td>Salesperson:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact:</td>
<td>Email:</td>
<td></td>
</tr>
<tr>
<td>Phone:</td>
<td>Fax:</td>
<td></td>
</tr>
</tbody>
</table>

Project Reference:  
☐ THIS IS AN ORDER  ☐ THIS IS A QUOTATION REQUEST

**Optional Equipment**
- [ ] Slide gate Shut-off
- [ ] With Discharge Dump Tube
- [ ] Rear
- [ ] Other
- [ ] With Purge Hopper
- [ ] Tapped Hole for
- [ ] R.H. Side  L.H. Side
- [ ] Other

**Informations Required for Ordering or Quotation Request**

**Top Flange – Operator Side (Front)**

<table>
<thead>
<tr>
<th>K</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>Thread Size Used</td>
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</tbody>
</table>

**Bottom Flange – Operator Side (Front)**

<table>
<thead>
<tr>
<th>N</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Square</td>
</tr>
<tr>
<td>F</td>
<td>Rectangle</td>
</tr>
<tr>
<td>G</td>
<td>Front to back</td>
</tr>
<tr>
<td>H</td>
<td>Side to side</td>
</tr>
</tbody>
</table>

- [ ] Studs will be required if bolt pattern fails on housing body

**Make of Press:**

**Serial No.:**

**Screw Size:**

**Hopper Capacity:**

**Please fax this completed form to:** 248-544-5113 or toll free US 888-808-4363 or Email to: DME@dme.net

---

**Mini-Loader Magnet**

_Bunting®_

**Just-In-Time Magnetic Separation**

- High quality
- Easy mounting
- Styles available

Many plastics processors are turning to smaller volume, closed-loop systems. These “Just-In-Time” systems dry resin at a central point and then convey small amounts to the molding machine. Seeing a special need for magnetic protection against ferrous contaminants in such operations, Bunting Magnetics now manufactures two drawer magnets specifically designed for these systems.

Mounted on the throat of the processing machine, both of these drawer magnets come with Bunting’s exclusive Power Balanced Magnetic Cartridges® and an O-ring seal to prevent air leaks. The FFV Series of drawer magnets are designed to withstand pressures up to 15 in-hg without leakage. A clear polycarbonate drawer front allows easy monitoring of resin flow and tramp metal collection. The cartridge drawer pulls out of the housing for easy cleaning.

The FFV-1400-PL has a housing manufactured from 12-gauge mild steel. It captures ferrous contaminants with two ceramic magnetic cartridges and has a rod baffle to direct the flow of resin over the cartridges. In applications where extremely small fines or weakly magnetic contaminants are a problem, this drawer magnet can be ordered with two high-energy rare earth magnets. The housing is then manufactured from 302/304 stainless steel and is designated by part number FFSV-1400-PL-npb. This unit has a 20 oz. capacity, a maximum inlet diameter of 3 inches, and a maximum outlet diameter of 2 3⁄4”.

**Hopper Magnets–Grate Style**

_Bunting®_

**Bunting Grate-Style Hopper Magnets** come in a variety of shapes and sizes for use in round, square, or rectangular hoppers, chutes, housings, and bins. They are ideal for trapping tramp iron and ferrous objects such as nuts and bolts in free-flowing materials conveyed by gravity. Selection tip: Grates should have at least twice the cross-sectional area of the hopper outlet opening.

Standard units feature 1” diameter Bunting Power-Balanced Magnetic Cartridges™ encased in 304 stainless steel and mounted on 2” centers - with angle baffles to help direct product flow over the cartridges. Standard grate diameters range from 6” to 12”.

Balanced Magnetic Cartridges™ and an O-ring seal to prevent air leaks. The FFV Series of drawer magnets are designed to withstand pressures up to 15 in-hg without leakage. A clear polycarbonate drawer front allows easy monitoring of resin flow and tramp metal collection. The cartridge drawer pulls out of the housing for easy cleaning.

Other sizes and rare earth models are available on request. Square-tube cartridges with ceramic magnets are available in square or rectangular stainless steel frames. Because they have an especially strong magnetic field that allows mounting on 4” centers, they’re ideal for use where bridging may be a problem. Rare earth models are also available.
Simple, Rugged Design & Construction for A Lifetime of Use

Your regrind operation runs an extra risk of tramp metal contamination. Now you can protect it easily and economically with Bunting Grinder Plate Magnets. They install easily in your granulator’s feed tray to attract and hold ferrous metal before it can reach internal parts. Grinder vibration won’t shake even misplaced hand tools or large ferrous trash from this powerful Ceramic V permanent magnet.

Each Grinder Plate Magnet is manufactured with a rugged cast aluminum frame. Back plate and magnetic pole face are made of mild steel. Specify grinder feed tray dimensions when ordering. To install, just cut an opening in the feed tray and bolt the pre-drilled flange of the magnet to the tray, using the holes and hardware provided.

Gravity-Fed Metal Detection System

Reliable Automatic Detection and Rejection of Metal Contaminants. The Bunting HS Series Metal Detector is an electronic metal detection and separation system designed to automatically detect and reject all metals in free-flowing, gravity-fed bulk materials, such as plastic granules, flakes, pellets, feeds, grains, cereals and more. Precision Control and Operation. Equipped with a single-coil, high-frequency detection system and a rapid air-powered rejection flap, Bunting’s HS units detect and remove ferrous and nonferrous metallic contaminants from free-flowing bulk materials. What’s more, features like adjustable sensitivity provide complete control over product quality and ensure precise detection with minimal loss of good product. Compact and Durable. Bunting HS Detectors are compact and durable. They have a single electronics board and are completely enclosed in dust-tight, painted steel housings, with four mounting brackets included. Virtually Maintenance Free. Install Bunting’s HS Detector into your free-fall processing system. It is self-monitoring and virtually maintenance free, so you can literally set it and forget it. The HS continuously monitors the sensor, the air pressure (with a compressed air filter/regulator to maintain air quality to the air-actuated solenoid), the power supply (self-adjusting to any voltage from 110V to 230V), and the detector’s mechanical functions. These Units Are Also Self-diagnosing and Require No Lubrication!

Specifications:

- **Housing:** Unit is completely enclosed in a steel cabinet with four mounting brackets. Painted surface color: RAL 1013 Pearl White. Withstands loads up to 250 lbs. allowing for direct mounting of mixers, batch feeders, etc. Undrilled mounting flange included.
- **Detection:** Single coil, high frequency
- **Electronics:** Single electronics board. 110-230V single phase.
- **Reject:** Air-operated, lifetime-lubricated reject flap.
- **Monitoring:** Sensor, air pressure, and reject flap position continuously monitored.
- **Air:** 70 psi minimum. Air pressure regulator with automatic water drain.
- **Operating Temperature:** 154°F maximum

Metal Detector/Separator

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDHS9050</td>
<td>Metal Detector w/3.96” Inlet diameter</td>
</tr>
<tr>
<td>MDHS9100</td>
<td>Metal Detector w/3.94” Inlet diameter</td>
</tr>
<tr>
<td>MDHS9150</td>
<td>Metal Detector w/5.91” Inlet diameter</td>
</tr>
<tr>
<td>MDHS9200</td>
<td>Metal Detector w/7.97” Inlet diameter</td>
</tr>
</tbody>
</table>

Options for Metal Detector/Separator

- MDHS9050: Funnel for MDHS9050
- MDHS9010: Funnel for MDHS9100
- MDHS9150: Funnel for MDHS9150
- MDHS9200: Funnel for MDHS9200
- FF4600PL: 8” Square double row drawer magnet for MDHS9050 & MDHS9100
- FF4600PLNH7: 8” Square double row drawer magnet for MDHS9050 & MDHS9100 (for “Hi-Intensity” loads)
- GCS: Gaylord Cleaning Station

Bunting Granulator/Grinder Plate Magnets

<table>
<thead>
<tr>
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<th>Part Number</th>
<th>Dimensions</th>
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<td>A 5&quot;  B 5&quot;  C 5&quot;</td>
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<tr>
<td>7½” x 7½”</td>
<td>GPM757</td>
<td>A 7½&quot;  B 7&quot;  C 5&quot;</td>
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<tr>
<td>9½” x 7½”</td>
<td>GPM959</td>
<td>A 9½&quot;  B 9&quot;  C 5&quot;</td>
</tr>
<tr>
<td>11½” x 7½”</td>
<td>GPM11151</td>
<td>A 11½&quot;  B 11&quot;  C 5&quot;</td>
</tr>
<tr>
<td>13” x 7½”</td>
<td>GPM13125</td>
<td>A 13&quot;  B 12½”  C 5&quot;</td>
</tr>
<tr>
<td>15” x 7½”</td>
<td>GPM15145</td>
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<tr>
<td>17” x 7½”</td>
<td>GPM17165</td>
<td>A 17&quot;  B 16½”  C 5&quot;</td>
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<tr>
<td>19” x 7½”</td>
<td>GPM19185</td>
<td>A 19&quot;  B 18½”  C 5&quot;</td>
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<tr>
<td>21” x 7½”</td>
<td>GPM21205</td>
<td>A 21&quot;  B 20½”  C 5&quot;</td>
</tr>
<tr>
<td>23” x 7½”</td>
<td>GPM23225</td>
<td>A 23&quot;  B 22½”  C 5&quot;</td>
</tr>
</tbody>
</table>
Machine-Mounted All-Metal Separators for Extruders, Injection and Blow Molders For Choke-Feed Applications

Bunting® Machine-Mounted All-Metal (MMS) Separators provide efficient rejection of both ferrous and non-ferrous metal contaminants and fit where headroom is limited. Designed especially for choke-feed applications, they can bolt directly to the infeed of processing equipment and support the weight of hoppers and bins. A fast pneumatic rejection mechanism aided by precise timing results in accurate cycling and conservation of good material.

Features include:
- Separators install directly above infeed
- Rugged housings allow mounting other equipment
- Precise timing results in accurate cycling
- Fast pneumatic reject mechanism reduces good product waste
- Slide gate rejection design eliminates contamination "leaks"

The Dissipator® Series Shock-Free Vacuum Wands
- Eliminates static electric shocks; improves employee welfare and safety.
- Eliminates need for ground wire in hose*; speeds installation; reduces maintenance cost.
- Slick and smooth inner surface; increase throughput; allows free flow of powder, pellets, flakes, or granules.
- Durable, high-impact polymer construction withstands use temperatures to 150°F
- Lightweight, easy to handle.

*Ground wire recommended in hazardous areas. Refer to group and class installation guidelines.

Model Number Description
T1501 48" OAL, 1½" dia. w/vent holes
T2001 48" OAL, 2" dia. w/vent holes
T1502 48" OAL, 1½" dia. w/adj. vents
T2002 48" OAL, 2" dia. w/ adj. vents

Built-in venting! (to aid in lifting certain materials)

Patented Linear Standoff Design! Prevents intake blockage from the bottom of the box or bag.
The Wonder Gun will convey material to hoppers on molding machines. The swirling vortex action enables it to convey many granular or powered materials to heights of 25 ft. or horizontal distances up to 50 ft. Average conveying rates are approximately 7 lbs/minute.

Attached to filtered shop air the Wonder Gun will act as a large area blow gun or with a simple reversal of the venturi a vacuum cleaner or material transfer pump. The venturi effect will boost incoming air flow by more than 12 times! This means, for example, that a 10 CFM supply will result in an output flow of approximately 120 CFM!

**Wonder Gun Includes:** Two-Way Gun, Vacuum Bag and 7½" Bench Nozzle.

**10' Hose:** Crush-Proof Hose with Cuffs.

**PRODUCT NO LONGER AVAILABLE**
**Threaded Line Vac**

Low-cost conveyor uses ordinary pipe! Convey parts, materials, waste - with no moving parts! A fast, low-cost way to convey plastic pellets, scrap trim, textiles, bulk solids, chips, paper, small parts, shavings, sawdust and granules. Our new Threaded Line Vac Air Operated Conveyors convert ordinary pipe into a powerful conveying system for parts, scrap, trim and other bulk materials. Threaded Line Vac attaches easily to plumbing pipe couplers, making it easy to build a complete system using ordinary pipe and fittings available from any home center, hardware store or plumbing supply. Performance is the same as our standard Line Vac.

**Stainless Steel Line Vac Only**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6600</td>
<td>¾” SS Line Vac Only</td>
</tr>
<tr>
<td>6601</td>
<td>1” SS Line Vac Only</td>
</tr>
<tr>
<td>6602</td>
<td>1-1/4” SS Line Vac Only</td>
</tr>
<tr>
<td>6603</td>
<td>1-1/2” SS Line Vac Only</td>
</tr>
<tr>
<td>6604</td>
<td>2” SS Line Vac Only</td>
</tr>
<tr>
<td>6605</td>
<td>2-1/2” SS Line Vac Only</td>
</tr>
<tr>
<td>6606</td>
<td>3” SS Line Vac Only</td>
</tr>
<tr>
<td>6607</td>
<td>4” SS Line Vac Only</td>
</tr>
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</table>

**Aluminum Line Vac Only**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6080</td>
<td>½” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6081</td>
<td>1” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6082</td>
<td>1-1/4” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6083</td>
<td>1-1/2” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6084</td>
<td>2” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6085</td>
<td>2-1/2” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6086</td>
<td>3” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6087</td>
<td>4” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>6088</td>
<td>5” Aluminum Line Vac Only</td>
</tr>
</tbody>
</table>

**Aluminum Line Vac Kit**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6980</td>
<td>½” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6981</td>
<td>1” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6982</td>
<td>1-1/4” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6983</td>
<td>1-1/2” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6984</td>
<td>2” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6985</td>
<td>2-1/2” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6986</td>
<td>3” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6987</td>
<td>4” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>6988</td>
<td>5” Aluminum Line Vac Kit</td>
</tr>
</tbody>
</table>

Kit includes Line Vac, mounting bracket, filter separator and pressure regulator.

**Aluminum Threaded Line Vac Only**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>140075</td>
<td>½” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>140100</td>
<td>1” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>140125</td>
<td>1-1/4” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>140150</td>
<td>1-1/2” Aluminum Line Vac Only</td>
</tr>
<tr>
<td>140200</td>
<td>2” Aluminum Line Vac Only</td>
</tr>
</tbody>
</table>

**Aluminum Threaded Line Vac Kit**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>142075</td>
<td>½” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>142100</td>
<td>1” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>142125</td>
<td>1-1/2” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>142150</td>
<td>1-1/2” Aluminum Line Vac Kit</td>
</tr>
<tr>
<td>142200</td>
<td>2” Aluminum Line Vac Kit</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6995</td>
<td>Mounting Bracket for ½” &amp; 1”</td>
</tr>
<tr>
<td>6996</td>
<td>Mounting Br. for 1-1/2” &amp; 1-1/2”</td>
</tr>
<tr>
<td>6997</td>
<td>Mounting Br. For 2” &amp; 2-1/2”</td>
</tr>
<tr>
<td>6998</td>
<td>Mounting Br. For 3” &amp; 4”</td>
</tr>
<tr>
<td>6999</td>
<td>Mounting Br. For 5”</td>
</tr>
<tr>
<td>9001</td>
<td>Auto Drain Filter Sep. ½” NPT</td>
</tr>
<tr>
<td>9002</td>
<td>Auto Drain Filter Sep. ¾” NPT</td>
</tr>
<tr>
<td>9005</td>
<td>Oil Removal Filter ½” NPT</td>
</tr>
<tr>
<td>9006</td>
<td>Oil Removal Filter ¾” NPT</td>
</tr>
<tr>
<td>9008</td>
<td>Pressure Reg. w/gauge ½” NPT</td>
</tr>
<tr>
<td>9009</td>
<td>Pressure Reg. w/gauge ¾” NPT</td>
</tr>
</tbody>
</table>

**Stainless Steel Line Vac Kit**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6960</td>
<td>½” SS Line Vac Kit</td>
</tr>
<tr>
<td>6961</td>
<td>1” SS Line Vac Kit</td>
</tr>
<tr>
<td>6962</td>
<td>1-1/2” SS Line Vac Kit</td>
</tr>
<tr>
<td>6963</td>
<td>1-3/4” SS Line Vac Kit</td>
</tr>
<tr>
<td>6964</td>
<td>2” SS Line Vac Kit</td>
</tr>
<tr>
<td>6965</td>
<td>2-1/2” SS Line Vac Kit</td>
</tr>
<tr>
<td>6966</td>
<td>3” SS Line Vac Kit</td>
</tr>
<tr>
<td>6967</td>
<td>4” SS Line Vac Kit</td>
</tr>
</tbody>
</table>

Kit includes Line Vac, mounting bracket, filter separator and pressure regulator.

**Why the Reversible Drum Vac?**

EXAIR’s compressed air operated Reversible Drum Vac System attaches quickly to any closed head 30 or 55 gallon drum. Its high powered vacuum fills the drum in less than two minutes. With the simple turn of a knob, the same stainless steel pump quickly empties the drum. Coolant spuds can be easily refilled, floor spills vacuumed, or contaminated liquids transferred to filtration tanks in minutes. The flow rate in and out of the drum can be controlled with the knob, making it ideal for dispensing liquids.

Electrically operated “all purpose” vacuums aren’t designed for use in industrial environments. As a result, motors wear out quickly and impellers clog. The Reversible Drum Vac does not use electricity and has no moving parts, assuring maintenance-free operation. An automatic safety shut-off valve prevents spills or overfilling.

**5 Year Warranty!**

Do not use with any material with a low flash point or with flammable liquids such as fuel oil, alcohol, mineral spirits, gasoline, or kerosene.

**What is the Drum Vac?**

A safe, maintenance-free way to recover:

- Coolant
- Hydraulic oils
- Liquid spills
- Sludge and chips
- Tramp oil
- Waste water

**Applications**

- Coolant sumps
- Food processing
- Lathes
- Floor cleanup
- EDM machines
- Fits
- Screw machines
- Machining centers
- Tanks
- Fits standard closed drum head

**Advantages**

- No moving parts
- Maintenance free
- Stainless steel construction
- Safe - no electricity
- Built-in pressure/vacuum relief
- Compact and portable
- Installs quickly
- Spill free - auto safety shut off
- Fits standard closed drum head

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- Lathes
- Floor cleanup
- EDM machines
- Fits
- Screw machines
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- Tanks
- Fits standard closed drum head

**Advantages**

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- Maintenance free
- Stainless steel construction
- Safe - no electricity
- Built-in pressure/vacuum relief
- Compact and portable
- Installs quickly
- Spill free - auto safety shut off
- Fits standard closed drum head
Air consumption has been minimized by using the appropriate amount of air required for vacuuming chips. Absorbent pick-up:

- Molding machines
- Routers
- Drills
- Mills
- Saws
- Lathes

Applications:

- CNCs
- Lathes
- Saws
- Mills
- Drills
- Grinders
- Routers
- Molding machines
- Absorbent pick-up

Advantages:

- No moving parts
- Low cost
- No motors to clog or wear out
- Dust-free operation
- Chips go directly into a drum
- Powerful cyclonic action
- Includes accessories
- 50% quieter than electric vacs

The Chip Vac System can be used with an open head steel, fiber or plastic drum that is in good condition (ANSI Standard MP2-1997). To prevent material contamination, a poly drum liner can be inserted into the drum.

Easy cleaning - A dirty filter bag can put back pressure on the Chip Vac, resulting in reduced suction. The reusable bag should be removed and shaken over a waste container to remove bulk particulate. The filter bag can be washed in a manner suitable for delicate fabrics.

Drum Covers

Improve the quality of molded parts by preventing contamination of in-process material. Provide easy access and the ability to make quick visual level checks. Reduce mess and housekeeping labor associated with transferring of material from central loaders and grinders.

**Drum Filter Cover - 1 port**
- Fits 22" diameter drum. The 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. Includes tie cord to ensure snug fit and clear vinyl window for quick visual level check.

**Gaylord Filter Cover - 2 port**
- Fits 34" x 42" Gaylord. The cover features two access ports sized to accept a 2" to 2.75" diameter vacuum wand. They 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 around the skirt holds the cover in place.
- Same as above except two ports are standard.

**Special order - allow one week.**

Optional Features Include:

- Custom shapes and sizes available (send DME a drawing with sizes needed for quote)
- Additional zipper openings
- Fabric color selections
- Custom silk screen names or logos
- Call for quote
**Mold Curtains**

Mold side curtains provide an effective means of confining molded parts on multi-cavity molds that have a tendency to fly out, thus reducing the risk of contamination, loss or damage.

- **Sizes not shown custom made to your dimensions.**
- **Velcro fitting permits easy access to mold cavities.**
- **Clear vinyl aids visibility to mold.**

Complete unit includes:

(2) 1/16” x 1/4” aluminum angle mounting brackets attached with bolts to mold and velcro to curtain. (1) 1/4” steel alignment rod to prevent curtain from collapsing in mold.

---

**Note:** Side curtains require 3” gap between mold and tie bar. The curtain can only be as long as the tie bar spacing if adequate space does not exist.

Alternate vertical panels are clear vinyl to provide visibility to the mold. Aluminum angle mounting brackets are designed to attach directly to the mold, not to the plate.

Ensure adequate clearance between waterline fittings on the parting line, to allow the curtain to collapse in between when the mold is closed. Curtain open stroke and curtain length should not exceed 30°.

<table>
<thead>
<tr>
<th>Width (A)</th>
<th>Length (B)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>12”</td>
<td>SC01</td>
</tr>
<tr>
<td>6”</td>
<td>15”</td>
<td>SC02</td>
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<tr>
<td>8”</td>
<td>18”</td>
<td>SC03</td>
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<tr>
<td>10”</td>
<td>21”</td>
<td>SC04</td>
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<tr>
<td>12”</td>
<td>24”</td>
<td>SC05</td>
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<tr>
<td>14”</td>
<td>27”</td>
<td>SC06</td>
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<tr>
<td>16”</td>
<td>30”</td>
<td>SC07</td>
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<tr>
<td>18”</td>
<td>33”</td>
<td>SC08</td>
</tr>
<tr>
<td>20”</td>
<td>36”</td>
<td>SC09</td>
</tr>
</tbody>
</table>

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**Options:**

1. **Hi-temp materials for thermoset parts.** Neoprene material is used for hot parts up to 300°F. Note that thermoplastic parts that are cooled before ejection from mold do not normally require hi-temp material.
2. **Metal sideplates provide rigidity and extended life to guideskirts.**
3. **Magnets - set of 4 (part no. MAG01).**

---

**Prevents Contamination & Lost or Damaged Parts**

**Detachable chute guideskirt with cushion insert**

Specifically designed to transfer molded parts by gravity from under the machine to a conveyor or container. **Soft insert included to minimize part damage and bounce.**

**Soft chute guideskirt**

Made of soft, pliable abrasion-resistant material to protect delicate parts from surface damage. Typical applications are conical- or spherical-shaped small parts below 200°F.

**Standard tapered guideskirt**

Design allows parts to funnel or align below mold for ease of packaging or secondary processing. Fabric can be easily cut to permit front, rear, side or bottom release in conjunction with a conveyor.

**Standard straight guideskirt**

Ideal for guiding large parts or runners from the mold to a receiving source directly below the mold. Multiple units can be used to guide parts and runners to desired location.
Mold Skirts

Soft Drop Application

Mold Open
Mold Closed

Bottom opens to catch parts
Bottom opens to release parts

Part/Runner Separation

Mold Open
Mold Closed

Adjust opening to catch larger parts or runners
Balance larger items

Call For Pricing!

Please provide all required dimensional details for a rapid quotation for your machine.

Detachable Guideskirt

Protects delicate molded parts

Delayed drop guideskirts provide a soft, delayed, controlled drop of molded parts - prevents damage and increases output of delicate molded parts.

See the following pages for quote request forms.

A: Mold open
E: Width of opening
F: Floor to opening
C: Height of opening
D: Length of opening

Detachable Guideskirt has a Stainless Steel tray on the bottom of the chute with a cushion insert

All guideskirts come with mounting hardware. Hardware includes straight brackets (for attaching to the mold) and right angle brackets (for mounting below the mold)
**MAC-controlled environment enclosures**

MAC offers three types of cleanroom enclosures including: Under the Press, Beside the Press and Over the Press designs.

**Framework for portable enclosures** are fabricated of 2” square 12-gauge structural steel unless otherwise specified. Aluminum and stainless steel are available as options. Smaller enclosures are welded together as a complete unit while larger enclosures may be fabricated as modular units. Choice of sidewall materials include vinyl strip curtains or polycarbonate panels.

**Options**
- Antistatic material for sidewalls
- Air conditioning control
- Humidity control
- Built-in conveyors or worktables
- Automatic bag or tote fill systems

**Features**
- HEPA fan module with pre-filter
- Low Profile 2’ x 4’ self-contained blower/filter
- ¼” H.P. motor, 115 volts
- Nominal air flow 800 CFM
- Minimum efficiency of 99.99% at 0.3 microns
- Low-energy consumption
- 2.4 amps full load
- Sound level to 58 dba
- Red neon light to verify unit is operating
- Heavy-duty locking casters

**Framework**
The framework is fabricated of proprietary aluminum extrusions finished with white epoxy enamel. The cross tees for separating components are 1-½” anodized aluminum T-grid with tabs for attachment. The horizontal members are 2” x 4”, and the vertical support legs are 3” x 3”. All fasteners may be easily removed to allow disassembly of the unit for relocation. Leveling mounts are installed at the base of each leg and are adjustable. The pads have a stainless steel housing with rubber base where it contacts the floor. A ¼ - 13 stud on the pad fits inside the base of the leg and a hex nut is used for adjustment. A jamb nut is included to fix the height once set. Closed cell gasketing is included for field installation to seal the components from the room.

**New!**

**Cleanrooms**

Detachable Guideskirt has a Stainless Steel tray on the bottom of the chute with a cushion insert 

**Soft Chute Guideskirt Quote Request Form**

**Company Name:**
**Account Number:**
**Contact Person:**
**Please fax this completed form to:**
- 248-544-5113 or 888-808-4363
- or email sales@dme.net
**Address:**
**City, State, Zip:**
**Phone, Fax:**
**Email:**

1. Mold Opening (daylight): (MAX is 24”) (A)
2. Width between Tie Rods:
3. Width between Frame:
4. Clearance Height:
5. Machine Clearance mold to base:
6. Base to floor:
7. Width of base:
8. Desired extension past base:
9. Desired discharge height:
10. Size of Parts: L x W x H
11. Runner system
12. Size:
13. Do you require high-temperature material? (for parts over 180°)
14. Quantity

**ALL dimensions must be completed in order to receive a quotation.**

Detachable Guideskirt has a Stainless Steel tray on the bottom of the chute with a cushion insert. All guideskirts come with mounting hardware. Hardware includes straight brackets (for attaching to the mold) and right angle brackets (for mounting below the mold).
Hard Panel Walls
Blank panels are ½" gypsum, vinyl covered on both sides with white textured covering. All edges are sealed. If required, special sizes will be cut and edges resealed at our factory. No field cuts are necessary.

Casters
There are 2 types of Casters offered. Stem Casters are available in 4" and the Plate Casters are available in 5" and 6". The size of your casters will be determined by the size and weight of your softwall cleanroom. All casters feature a molded polyurethane wheel and a Tech-Lock brake.

Filter Modules
Filtration is provided by our Model 421-SP motorized HEPA filter modules. Standard efficiency is 99.99% at 0.3 microns by DOP test. The modules are provided with an 8’ power cord and variable-speed controller mounted on each unit. If a pre-wiring package is purchased, the speed controllers are located in a control panel attached to the leg. Standard voltage is 120/1/60.

Light Fixtures
Light is provided by our 2’ × 4’ TAP fixture with F40-T12 medium bi-pin lamps. Lamp tubes ARE included and are shipped installed in the fixtures. The lens is standard clear prismatic housed in an extruded aluminum frame. Wiring connection is made through an access cover in the top of the fixture. Standard voltage is 120/1/60.

Pre-wiring Package Option
The pre-wiring package includes a control panel housing, the fusing for each filter module and each light fixture circuit, and speed controllers for the HEPA filter modules. Filter modules are wired to speed controllers in multiples of (3); i.e. one speed controller operates (3) filter units. Power distribution block for single-point connection to field power. Wiring harnesses are provided for components to connect them to the control panel. Harnesses are marked for re-assembly.

Warranty
MAC automation warrants its products for a period of one year from the date of shipment. The warranty covers materials and workmanship of all components of our soft-wall cleanrooms. If an item proves defective during the warranty period it will be repaired or replaced at our option. Under no circumstances will we be responsible for any labor costs for removal or repair unless approved in writing prior to the work being performed. These costs will be approved solely at our option depending on the circumstances. We will also not be responsible for any costs related to the failure of one of our products.

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**Softwall Cleanroom Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anti-static Curtains</strong></td>
<td>Replaces standard clear vinyl with static dissipative vinyl.</td>
</tr>
<tr>
<td><strong>Strip Curtains</strong></td>
<td>Replaces all, or a portion, of standard solid panels with 8” wide strips with 2&quot; overlap.</td>
</tr>
<tr>
<td><strong>Strip Entries</strong></td>
<td>Replaces standard 12” overlap opening with strip curtains. These are generally 3’ – 4’ wide, but any width is available.</td>
</tr>
<tr>
<td><strong>Casters</strong></td>
<td>Replaces standard stainless steel leveling mounts with polyurethane swivel casters with wheel locks. Wheel diameter varies with size of room and load.</td>
</tr>
<tr>
<td><strong>Pre-Wiring Package</strong></td>
<td>Adds leg-mounted control panel with on/off switches for lights and filters, and moves the filter speed controls down from the ceiling for easier access. All components are pre-wired to connect to the control panel, which provides a single-point connection to field power.</td>
</tr>
</tbody>
</table>
CLEANROOM SIZE

Length:

Width:

Height:

New!

CLEANROOM CLASS

Class = Number of air changes per hour.

- Class 100
- Class 100 (At Rest)
- Class 1,000
- Class 10,000
- Class 100,000 (Standard)

CLEANROOM FRAMEWORK

The framework is fabricated of proprietary aluminum extrusions finished with white epoxy enamel. The cross tees for separating components are 1-1/2" anodized aluminum T-grid with tabs for attachment. The horizontal members are 2" x 4", and the vertical support legs are 3" x 3". All fasteners may be easily removed to allow disassembly of the unit for relocation. Leveling mounts are installed at the base of each leg and are adjustable. The pads have a stainless steel housing with rubber base where it contacts the floor. A ¾–13 stud on the pad fits inside the base of the leg and a hex nut is included to fix the height once set. Closed cell gasketing is included for field installation to seal the components from the room.

CLEANROOM CURTAINS

Curtains are 40 mil clear standard. (2) 12" overlap openings are included with the base package. Strip entries are available as are sliding track entries. For additional curtain material, call for pricing.

Fax to DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.

NEW!

CLEANROOM CURTAIN ASSEMBLIES

HookBead Curtains: Used for strip curtains or strip entry.

Nylon Roller: Used for bi-fold curtains

NEW!

CLEANROOM HARDWALL PANELS

Blank panels are ½” gypsum, vinyl covered on both sides with white textured covering. All edges are sealed. If required, special sizes will be cut and edges resealed at our factory. No field cuts are necessary.

- Hardwall Panels are preferred

Door & Wall Panel

Fax to DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.

CLEANROOM FILTER MODULES

Filtration is provided by our Model 421-SP motorized HEPA filter modules. Standard efficiency is 99.99% at 0.3 microns by DOP test. The modules are provided with an 8’ power cord and variable-speed controller mounted on each unit. If a prewiring package is purchased, the speed controllers are located in a control panel attached to the leg. Standard voltage is 120/1/60.

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CLEAN ROOM CASTERS

There are 2 types of casters offered. Stem Casters are available in 4” and Plate Casters are available in 5” and 6”. The size of your casters will be determined by the size and weight of your softwall cleanroom. All casters feature a molded polyurethane wheel and a Tech-Lock brake.

- Stem/Plate Casters
- Leveling Pad

Fax to DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.
CLEANROOM LIGHT FIXTURES
Light is provided by our 2’ × 4’ TAP fixture with F40-T12 medium bi-pin lamps. Lamp tubes ARE included and are shipped installed in the fixtures. The lens is standard clear prismatic housed in an extruded aluminum frame. Wiring connection is made through an access cover in the top of the fixture. Standard voltage is 120/1/60.

CLEANROOM PRE-WIRING PACKAGE OPTION
The pre-wiring package option includes control panel that houses the following:
1) Fusing for each filter module, and for each light fixture circuit
2) Speed controllers for the HEPA filter modules
3) Filter modules wired to speed controllers in multiples of (3); i.e. one speed controller operates (3) filter units
4) Power distribution block for single-point connection to field power.

Wiring harnesses are provided for components to connect them to the control panel. Harnesses are marked for reassembly.

Please include the Pre-Wiring Package

CLEANROOM WARRANTY
MAC automation products have a one year warranty from the date of shipment. The warranty covers materials and workmanship of all softwall cleanroom components. If an item proves defective during the warranty period we will either repair or replace it at our option. Under no circumstances will we be responsible for any labor costs for removal or repair unless approved in writing prior to the work being performed. These costs will be approved solely at our option depending on the circumstances. We will also not be responsible for any costs related to the failure of one of our products.

ADDITIONAL COMMENTS
Please detail your requirements below. Feel free to add additional page(s), if necessary.

Fax DME at 888-808-4363 for a quote. Or call us at 800-626-6653 with your specs.

New!

Drop Trays That Fit Virtually All Machines
These drop trays are easy to install and adjust. They are also durable and easy to clean making it easier for operators to work from. There is an optional magnetic mounting kit available.

- Deep grooves on both sides to hold side panels
- .150” thick, high-impact plastic with ribbed bottom
- Steel chain makes height and delivery angles easy to adjust
- Durable, easy to clean

Drop Trays

Drop Chute Option
When the drop tray is placed in one direction it becomes a drop chute for loading boxes. Deep grooves on the sides can hold baffles to keep parts from deflecting. Carpet pads can be used for soft drop.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT1M</td>
<td>Optional Magnet</td>
</tr>
</tbody>
</table>

Conveyor Loading
Drop trays, when reversed, become loaders for placing parts on a conveyor. Chains can be adjusted to increase or decrease the flow of parts.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT1M</td>
<td>Optional Magnet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT1</td>
<td>Large Drop Tray 24” × 36” × 8”</td>
</tr>
<tr>
<td>DT2</td>
<td>Small Drop Tray 17” × 30” × 7”</td>
</tr>
<tr>
<td>DTX</td>
<td>X-Large Drop Tray 32” × 46” × 8”</td>
</tr>
</tbody>
</table>

Magnet is 3” in diameter and has 50 lb. pull
Flat Belt Conveyors

**Unique Features:**
- Three-year, limited warranty
- Direct drive, ¼ HP, 90V DC, variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- ⅛" anodized aluminum sheet
- Double V-guided, 3’–30’ length, FDA approved, white PVC belt
- 1–½" high cleats on 18" centers
- Standard leg sets and swivel castors (shown)
- Units up to 10’ length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors

**How to Order:**
1. Determine the belt width needed.
2. Determine the conveyor length needed (in feet); this is the "A" dimension.
3. Select the conveyor infeed belt height and the discharge belt height you need.
4. Please complete special order form on page 71.

<table>
<thead>
<tr>
<th>Conveyor Model</th>
<th>Belt Speed</th>
<th>Conveyor Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATL -10 -20</td>
<td>20 fpm</td>
<td>3’ to 20’</td>
</tr>
<tr>
<td></td>
<td>40 fpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>60 fpm</td>
<td></td>
</tr>
</tbody>
</table>

Cleated Belt Conveyors

**Unique Features:**
- Three-year, limited warranty
- Direct drive, ¼ HP, 90V DC, variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- ⅛" anodized aluminum sheet
- Double V-guided, 3’–30’ length, FDA approved, white PVC belt
- 1–½" high cleats on 18" centers
- Standard leg sets and swivel castors (shown)
- Units up to 10’ length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors

**How to Order:**
1. Determine the belt width needed.
2. Determine the conveyor length needed (in feet); this is the "A" dimension.
3. Select the conveyor infeed belt height and the discharge belt height you need.
4. Please complete special order form on page 71.

<table>
<thead>
<tr>
<th>Conveyor Model</th>
<th>Belt Speed</th>
<th>Conveyor Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATLC -12 -10 -20</td>
<td>20 fpm</td>
<td>3’ to 20’</td>
</tr>
<tr>
<td></td>
<td>40 fpm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>60 fpm</td>
<td></td>
</tr>
</tbody>
</table>
Adjustable Belt Conveyors

Unique Features:
- Three-year, limited warranty
- Direct drive, 1/4 HP, 90V DC, variable-speed drive package
- Standard speeds 20, 40, 60 FPM (specify)
- NO ROLLER CHAIN OR SPROCKETS
- SEALED GEAR REDUCER
- 8 different motor locations (specify)
- 3/8” anodized aluminum sheet
- Double V-guided, 3’–30’ length, FDA approved, white PVC belt
- 1–1/2” high cleats on 18” centers
- Standard leg sets and swivel castors (shown)
- Units up to 10’ length are shipped fully assembled
- Control wiring contained in liquid-tight conduit and connectors
- Adjustable angle incline 20–45 degree (specify)
- 2’ minimum infeed length, 2’ minimum discharge length
- Drive located on infeed for 24” wide models

How to Order:
1. Determine the belt width you need
2. Select either the 3’ × 4’ or 4’ × 5’ Model
3. Select the conveyor infeed belt height you want
4. The correct leg sets will be supplied with locking casters

Please complete special order form on page 71.

Conveyor Specifications Form

A. Describe Basic Application:
What are you conveying:
Dimensions: L × W × H
Cavitation:
Cycle time:
Runner/Sprue:
subgated? [ ] dimensions [ ]

ATLK 12 - 10 - 5 - 20
Conveyor Model
Belt Speed
20 fpm
40 fpm
60 fpm

B. Specialty Applications:
(Cooling Conveyors, air/water; Parts Diverters; Box Filling, Cycle Count, Weight Scale; Robotic Conveyors; Part/Runner Separation; etc.)

C. Basic Conveyor Information:
Model:
Belt Width:
Length/Length “A”:
(for 2 plane conveyors)
Angle:
(for fixed angle conveyors)
Max. Belt Speed:
(20, 40, 60 FPM; other)

D. Conveyor Height:
Infeed Belt Height:
Discharge Belt Height:
Castors:

E. Side Rails:
Rail Height: [ ] 2”, 4”, 6”, 12”; other
Construction: [ ] painted, stainless
Angle: [ ] 90°, 60°, 45°; other
Extension Rails?: [ ] height, angle, length, location clamp-on, bolt-on
Belt Lining:
Belt Wipes/Brushes:
Other:

F. Parts Containment & Handling:
Infeed Hopper: (size/stainless, carbon)
Max ht., floor to top of hopper
Soft Drop Zone: start pt. from infeed & length
Discharge Chute: [ ] stainless, carbon/mylar, PTFE
Parts Diverters specify type
Other:

Specify the conveyor infeed belt height and the discharge belt height.
The key to running a successful molding operation is to keep costs down while maximizing productivity levels with a high-quality end product.

Sounds like an impossible juggling act?

The key word to remember here is AUTOMATION!

Automation is what will allow you to reproduce complex assembling, retrieval of parts, sorting of items, etc. at high speeds, for long periods with a high level of precision that cannot be matched manually.

With automation you’ll definitely see:
1. an increase in the amount of work completed
2. an increase in the quality of the parts produced
3. a decrease in the actual cost involved in producing that part all of which will culminate in a definite increase in PROFITS for you!

The following pages have all the various parts needed to create, maintain or upgrade your End-Of-Arm Tool.

Please don’t hesitate to call us to help you with whatever your automation needs are!
Specifying and Designing EOAT for Robots

The success of any robotics parts movement depends on how consistently the End-Of-Arm Tooling (EOAT) grips, holds, moves and releases parts. Proper EOAT design and fabrication is very important to future unit savings and efficiencies. The following DME Industrial Supplies catalog pages of SAS Automation components will satisfy your EOAT requirements.

Here are some key questions to ask to determine what type of EOAT is best for your application. The answers to these questions will determine which types of components you’ll need: gripper fingers, gripper plates, vacuum cups, actuated vacuum cups, pliers and/or sprue cutters to assemble your EOAT.

**Part information:** What is the size, weight and shape of your part? Does it have restricted surfaces that may not be contacted or touched before a clear or colored top coat is applied in a secondary operation, e.g., a Class A finish?

**For injection molders:** How big is your mold? How much space is there between the mold halves when it opens? Will the EOAT fit between the tie bars? Where is the center of the mold? What is the location of ejector pins and plates? How many cavities in the mold? What is the cycle time? What is the temperature of the ejected plastic part? Where are the sprues?

The EOAT should fit within the space limitation of the mold and/or the robot's drop-off location. It should line up with the centerline of the mold and the EOAT frame should be as large as the part for maximum adjustability of the gripper components.

**Robot:** What is the load capacity and arm size of your robot? Does it have connections for pneumatics or part sensing or controls? What are the mechanical interface requirements, such as mounting hole sizes and locations? Do you need EOAT robot quick-change? Will the robot move the part or will the EOAT need to move or turn the part? Where will the part be placed?

**What to Look For in an EOAT**

**Frame/Modular components:** The EOAT frame should accommodate various types of grippers and clamps and be adjustable itself. The frame must be rigid, yet strong for repeatability.

**Durability:** The EOAT should be long-lasting and strong, yet lightweight. Make sure the vacuum cup material (e.g., polyurethane) is durable and able to withstand the high temperatures of just-molded parts (>200F) and the grippers are a good quality to ensure long life.

**Lightweight:** The weight of the EOAT, combined with the part, should not exceed your robot's weight capacity. Choose an EOAT that is as light as possible, yet with the necessary rigidity. Remember that less weight also reduces robot wear and maintenance.

**Low profile, compact design:** The modular parts and components, when assembled, need to fit into or around tight areas in the mold or work cell area.

**Flexibility:** Look for tooling components that are fully adjustable for ‘ onsite’ fine-tuning and possible modifications. This helps reduce future tooling modification costs.

**Quick changeability:** This feature is built-in to easily adjust the tool and make quick EOAT changes. A quick-change chuck permanently allows for rapid setup change.

**Frame/Modular components:** The EOAT frame should accommodate various types of grippers and clamps and be adjustable itself. The frame must be rigid, yet strong for repeatability.

**Quick-change system:** The pneumatic system is then added to provide the vacuum for the vacuum cups and air supply for activation of grippers and clamps. A quick-change chuck permanently allows for rapid setup change.

Five Steps to Design and Build an EOAT

**Step 1** — First a frame is constructed on a dovetail mounting plate (to slide into quick-change chucks, if required) to the size of the part. Slotted profiles which are grooved along the entire profile length provide the best solution for lightweight rigidity and flexibility.

**Step 2** — Next, an EOAT is built with the necessary clamps, arms and gripping devices. Vacuum cups can be used as suction devices on a part surface. Pins usually grab the part or sprue, and fingers are used to secure a part. These components should be adjustable within the profile framework. Vacuum cups are the most cost-effective and common method to grab parts. They are available in a wide selection of diameters, materials and styles to accommodate different temperatures, durability and gripping requirements.

**Step 3** — Sensors are used to indicate a positive grip with a part and to control operation through the use of contact switches and photo eyes. In many cases, switches are built into gripper fingers.

**Step 4** — The pneumatic system is then added to provide the vacuum for the vacuum cups and air supply for activation of grippers and cylinders used to flex or shift the part. The electrical system is also added to operate the part sensors and controls.

**Step 5** — The last steps are assembly, testing and documentation. Testing should consist of proper alignment of all gripper components, on a rig or fixture, along with actual vacuum and air testing of the tool with the part to adequately simulate the part being moved (or ejected) from the mold and secured by the EOAT. Adjusting is easy and inexpensive when using modular components. Finally, documentation includes drawings, test results and specifications which will be used for replacement and spare parts.

Major components and fittings are listed in this catalog. Additional components and services are available by contacting your DME Industrial Supplies representative.
### EOAT (End-Of-Arm Tooling)

#### Frame Connectors
- KFL...Cross Joint Connector
- WW...Angle Joint Connector
- EYB...Corner Joint Plate
- KVB...Cross Clamp

#### Mounting Clamps
- Part Number Example: KPL25–25X
  - KPL...Cross Joint Connector
  - Type B Profile
  - Material: Pu = Polyurethane
  - Part Number Example: VS0-20×60N
    - VS...Flat Vacuum Cup
    - Type ØA Profile
    - Material: Pu = Polyurethane

#### Special Cylinders
- KHZ...Short Stroke Cylinder
- ADZ...Short Stroke Cylinder Adapter
- SPL...Pressure Plates

#### Vacuum Cups
- VS 1...Flat Vacuum Cup
- VS 2...2.5 Bellows Vacuum Cup

#### Sealing Rings for Vacuum Cups
- Part Number Example: RVA20–30
  - RVA...Retracting Vacuum Arm

#### Gripper/Mounting Arms
- GSE...Gripper Arm
- GGA...Gripper Arm
- GGE...Gripper Arm

#### Adapter
- Part Number Example: RVA20–30
  - RVA...Retracting Vacuum Arm
EOAT (End-Of-Arm Tooling)

- Modular, Adjustable Gripper Components
- Dependable Technical Service
- Other Items and Sizes Available Upon Request

Gripper Kit 8-Cup for EOAT/Sprue Pickers

<table>
<thead>
<tr>
<th>Part Number</th>
<th># of Vacuum Cup Assemblies</th>
<th>Est. Part Weight</th>
<th>Max. Horizontal Cup Spacing</th>
<th>Max. Vertical Cup Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripper Kit 8 Cup For Sprue Pickers</td>
<td>8</td>
<td>500 grams</td>
<td>225</td>
<td>240</td>
</tr>
</tbody>
</table>

Gripper Kit 4-Cup for EOAT/Sprue Pickers

<table>
<thead>
<tr>
<th>Part Number</th>
<th># of Vacuum Cup Assemblies</th>
<th>Est. Part Weight</th>
<th>Max. Horizontal Cup Spacing</th>
<th>Max. Vertical Cup Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripper Kit 4 Cup For Sprue Pickers</td>
<td>4</td>
<td>500 grams</td>
<td>225</td>
<td>195</td>
</tr>
</tbody>
</table>
Recommended materials for the plastics industry

In view of the high temperature encountered in the removal of molding from the injection molds, the use of silicone cups is recommended. If plastic parts are to be printed after removal from the mold without surface finishing, we recommend the use of Viton (FKM). Should the suction cups required for your particular application not be listed in this catalog, please inquire.

<table>
<thead>
<tr>
<th>Material Number</th>
<th>Code</th>
<th>Commercial Name</th>
<th>Trade Name</th>
<th>Temp. °C Min. / Max.</th>
<th>Wear Resistance</th>
<th>Resistance to:</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NBR</td>
<td>Nitrile Rubber</td>
<td>Perbunan</td>
<td>-40°/+90°</td>
<td>X</td>
<td>X</td>
<td>Cold-flexible, water-resistant to 70°C</td>
</tr>
<tr>
<td>2</td>
<td>SI</td>
<td>Silicone Rubber</td>
<td>Silicone</td>
<td>-70°/+200°</td>
<td>X</td>
<td>X</td>
<td>Anti-marking on colorless, white, beige surfaces</td>
</tr>
<tr>
<td>2-AS</td>
<td></td>
<td>Silicone Rubber</td>
<td>Silicone</td>
<td>-20°/+130°</td>
<td>X</td>
<td>X</td>
<td>Anti-marking on colorless, white, beige surfaces</td>
</tr>
<tr>
<td>3</td>
<td>NR</td>
<td>Natural Rubber</td>
<td>SMR</td>
<td>-40°/+80°</td>
<td>X</td>
<td>X</td>
<td>Long service life</td>
</tr>
<tr>
<td>4</td>
<td>NR-E</td>
<td>Natural Rubber</td>
<td>SMR</td>
<td>-40°/+80°</td>
<td>X</td>
<td>X</td>
<td>Long service life, highly resistant to chemicals</td>
</tr>
<tr>
<td>5</td>
<td>PUR</td>
<td>Polyurethane Vulkollan</td>
<td>-25°/+80°</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Long service life, Highly resistant to chemicals</td>
</tr>
<tr>
<td>6</td>
<td>FKM</td>
<td>Fluorocautohive</td>
<td>Viton</td>
<td>-20°/+200°</td>
<td>X</td>
<td>X</td>
<td>Long service life, Highly resistant to chemicals</td>
</tr>
<tr>
<td>7</td>
<td>CR</td>
<td>Chloroprene</td>
<td>Neoprene</td>
<td>-40°/+90°</td>
<td>Ø</td>
<td>X</td>
<td>Highly weatherproof</td>
</tr>
<tr>
<td>8</td>
<td>Vinyl</td>
<td>Polyvinylchloride</td>
<td>PVC</td>
<td>-20°/+85°</td>
<td>X</td>
<td>X</td>
<td>Long service life</td>
</tr>
<tr>
<td>9</td>
<td>HNB</td>
<td>Hydrogenated Nitrogen Rubber</td>
<td>-40°/+170°</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Long service life, Highly anti-marking</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Recommended**
- **Good**
- **Not Recommended**
## Flat Suction Cups

### Vacuum Suction Cups

<table>
<thead>
<tr>
<th>Art. No.*</th>
<th>Material</th>
<th>ØD</th>
<th>ØD1</th>
<th>ØD2</th>
<th>H</th>
<th>H1</th>
</tr>
</thead>
<tbody>
<tr>
<td>102.002.004</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>0.4 mm</td>
<td>0.2 g</td>
<td>2.0</td>
<td>1.0</td>
<td>4.0</td>
</tr>
<tr>
<td>102.003.005</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>0.5 mm</td>
<td>0.2 g</td>
<td>3.5</td>
<td>1.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### Art. No.* | Fittings |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>102.002.004</td>
<td>270.300 M5 AG</td>
</tr>
<tr>
<td>102.003.005</td>
<td>270.300 M5 AG</td>
</tr>
</tbody>
</table>

### Art. No.* | Material | ØD | ØD1 | ØD2 | H | H1 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>102.005.009</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>0.9 mm</td>
<td>0.4 g</td>
<td>15</td>
<td>4.5</td>
<td>10</td>
</tr>
<tr>
<td>102.006.013</td>
<td>Si (tr), Si-AS (sw), PUR (bl)</td>
<td>1.0 mm</td>
<td>0.7 g</td>
<td>20</td>
<td>4.5</td>
<td>12</td>
</tr>
<tr>
<td>102.008.017</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>1.2 mm</td>
<td>0.2 g</td>
<td>30</td>
<td>6.0</td>
<td>11</td>
</tr>
<tr>
<td>102.010.024</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>1.4 mm</td>
<td>0.4 g</td>
<td>30</td>
<td>6.0</td>
<td>11</td>
</tr>
<tr>
<td>102.015.309</td>
<td>NBR (sw), Si (tr), Si-AS (sw), PUR (bl)</td>
<td>1.9 mm</td>
<td>0.5 g</td>
<td>35</td>
<td>6.0</td>
<td>18</td>
</tr>
</tbody>
</table>

### Art. No.* | Fittings |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>102.005.009</td>
<td>270.005 M5 IG</td>
</tr>
<tr>
<td>102.006.013</td>
<td>270.010 M5 IG</td>
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<tr>
<td>102.008.017</td>
<td>270.007 M5 IG</td>
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<tr>
<td>102.010.024</td>
<td>270.009 M5 IG</td>
</tr>
<tr>
<td>102.015.309</td>
<td>270.012 M5 IG</td>
</tr>
</tbody>
</table>

### Art. No.* | Material | ØD | ØD1 | ØD2 | H | H1 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>104.016.003</td>
<td>NBR (sw), Si (tr)</td>
<td>0.5 mm</td>
<td>0.8 g</td>
<td>2.0</td>
<td>1.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### Art. No.* | Fittings |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>104.016.003</td>
<td>270.003 G1⁄8&quot; AG</td>
</tr>
<tr>
<td>104.016.003</td>
<td>270.109 G1⁄8&quot; IG</td>
</tr>
</tbody>
</table>

### Art. No.* | Material | ØD | ØD1 | ØD2 | H | H1 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>104.016.003</td>
<td>G1⁄8&quot; AG</td>
<td>0.5 mm</td>
<td>0.8 g</td>
<td>2.0</td>
<td>1.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### Art. No.* | Fittings |
<table>
<thead>
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<th></th>
<th></th>
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<tbody>
<tr>
<td>104.016.003</td>
<td>270.003 G1⁄8&quot; AG</td>
</tr>
<tr>
<td>104.016.003</td>
<td>270.109 G1⁄8&quot; IG</td>
</tr>
</tbody>
</table>
## Vacuum Suction Cups

**Flat Suction Cups**

### Art. No. 110.053.082.*
- **Material**: NBR (sw), Si (r)
- **Dimensions**:
  - Ø D: 3.0 mm
  - H: 23.0 g

### Art. No. 110.053.083.*
- **Material**: NBR (sw), Si (r)
- **Dimensions**:
  - Ø D: 3.0 mm
  - H: 19.6 g

### Art. No.* Material
<table>
<thead>
<tr>
<th>Ø D</th>
<th>D1</th>
<th>H</th>
<th>SW</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>13.6 g</td>
<td>18</td>
<td>14</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>38.0 g</td>
<td>24</td>
<td>17</td>
</tr>
</tbody>
</table>

### Art. No.* Material
<table>
<thead>
<tr>
<th>Ø D</th>
<th>D1</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 mm</td>
<td>15.2 g</td>
<td>16</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>52.8 g</td>
<td>80</td>
</tr>
</tbody>
</table>

### Art. No.* Material
<table>
<thead>
<tr>
<th>Ø D</th>
<th>D1</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 mm</td>
<td>92.0 g</td>
<td>95</td>
</tr>
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</table>

### Art. No.* Material
<table>
<thead>
<tr>
<th>Ø D</th>
<th>D1</th>
<th>D2</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 mm</td>
<td>G1⁄4&quot;</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>6.0 mm</td>
<td>G1⁄4&quot;</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

### Art. No.* Material
<table>
<thead>
<tr>
<th>Ø D</th>
<th>D1</th>
<th>D2</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 mm</td>
<td>G1⁄4&quot;</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>6.0 mm</td>
<td>G1⁄4&quot;</td>
<td>18</td>
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</tbody>
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### Art. No.* Material
<table>
<thead>
<tr>
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<th>D1</th>
<th>H</th>
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<tbody>
<tr>
<td>5.0 mm</td>
<td>270.180</td>
<td>G1⁄4&quot;</td>
</tr>
<tr>
<td>5.0 mm</td>
<td>270.180</td>
<td>G1⁄2&quot;</td>
</tr>
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</table>

### Art. No.* Material
<table>
<thead>
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<th>H</th>
</tr>
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<tbody>
<tr>
<td>5.0 mm</td>
<td>68 g</td>
<td>G1⁄4&quot;</td>
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---

*When ordering please indicate desired material (see page 84).
### Oval Suction Cups

#### Art. No. 132.4 × 2.031...

<table>
<thead>
<tr>
<th>Material</th>
<th>Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR (sw), Si (l), Si-AS (sw)</td>
<td>270.300 MS AG</td>
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#### Art. No. 132.7 × 4.034...

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</thead>
<tbody>
<tr>
<td>NBR (sw), Si (l), Si-AS (sw)</td>
<td>270.300 MS AG</td>
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#### Art. No. 132.12 × 4.004...

<table>
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</thead>
<tbody>
<tr>
<td>Si (w), Si (l)</td>
<td>270.104 M6 AG, 270.134 M5 AG</td>
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#### Art. No. 132.15 × 7.005...

<table>
<thead>
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<th>Fittings</th>
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<tr>
<td>NBR (sw), Si (l), FKM (sw)</td>
<td>270.094 270.095 270.096 MS AG, G1/8&quot; AG, G1/8&quot; IG</td>
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#### Art. No. 132.45 × 15.020...

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<th>Fittings</th>
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<tbody>
<tr>
<td>NBR (sw), Si (l)</td>
<td>270.097 270.098 G1/4&quot; AG, G1/4&quot; IG</td>
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#### Art. No. 132.85 × 28.024...

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<td>270.097 270.098 G1/4&quot; AG, G1/4&quot; IG</td>
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#### Art. No. 132.95 × 28.024...

<table>
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</thead>
<tbody>
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<td>270.097 270.098 G1/4&quot; AG, G1/4&quot; IG</td>
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#### Art. No. 132.100 × 35.26...

<table>
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<th>Fittings</th>
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</thead>
<tbody>
<tr>
<td>NBR (sw), Si (l)</td>
<td>270.097 270.098 G1/4&quot; AG, G1/4&quot; IG</td>
</tr>
</tbody>
</table>

#### Silikon (l) auf Anfrage/Silicone (l) on request/Silicone (l) sur demande

- A: vulcanized aluminum reinforcement
- B: vulcanized aluminum reinforcement

---

**U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000**

**DME@dme.net • www.dme.net**

---

**Silikon (l) auf Anfrage/Silicone (l) on request/Silicone (l) sur demande**
Vacuum Suction Cups
Bellows Suction Cups w/ 1½ + 2½ folds

Art. No. 23.030.125. *  
NBR (sw), Si (tr), PUR (bl)  
9 mm 9,0 g 270.019

Art. No.*  
D D1 D2 D3 D4 H  
10 mm 15 g 20 E 25 F 30 G 35 H  
10 mm 13 g 18 B 23 F 28 G 33 H

Art. No.*  
270.019 270.030 270.034 270.074 270.076 270.312
G1⁄8“ IG G1⁄8“ AG G1⁄4“ AG G1⁄4“ IG M 6 AG

*When ordering please indicate desired material (see page 83).
**Vacuum Suction Cups**

**Bellows Suction Cups w/ 2½ folds**

![Image of Vacuum Suction Cups]

**Material & Part Numbers**

<table>
<thead>
<tr>
<th>Art. No.*</th>
<th>Material</th>
<th>Ø</th>
<th>D</th>
<th>D1</th>
<th>H</th>
<th>Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.004.083</td>
<td>Si (tr), CR (sw)</td>
<td>4,2</td>
<td>2,2</td>
<td>14,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21.014.053</td>
<td>NBR (sw), Si (tr), NR (sw)</td>
<td>18</td>
<td>5,5</td>
<td>23</td>
<td>7,5</td>
<td></td>
</tr>
<tr>
<td>21.030.019</td>
<td>NBR (sw), Si (tr), NR (sw)</td>
<td>18</td>
<td>5,5</td>
<td>23</td>
<td>7,5</td>
<td></td>
</tr>
</tbody>
</table>

*When ordering please indicate desired material (see page 83).
Mokon’s Hydrotherm Circulating Water Temperature Control System is engineered to improve accuracy, reliability of operation and increase output. The Hydrotherm has the highest quality components and construction materials in the industry. The system’s non-ferrous and stainless steel piping and connections do not rust or contaminate water.

The Hydrotherm surpasses all competitive systems by providing stainless steel as the main component for wetted surfaces. The Hydrotherm’s stainless steel components include a stainless steel pump, housing, impeller, heater canister and pump suction manifold.

All Hydrotherm systems meet NFPA 79 (National Fire Protection Association) electrical safety standards and come standard with a UL 508A-labeled electrical sub-panel. All of these features and more, combined with our extended warranty, make the Hydrotherm the best choice for delivering precise and accurate temperature control.

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump</th>
<th>Flow Rate &amp; Pressure</th>
<th>Cabinet Dimensions (LxWxH)*9kW</th>
<th>Process Connection</th>
<th>Supply/Drain</th>
</tr>
</thead>
<tbody>
<tr>
<td>HT2HY9KW</td>
<td>½ hp</td>
<td>25 gpm @ 26 PSI</td>
<td>27” x 11” x 24”</td>
<td>1.25” NPT</td>
<td>½” NPT</td>
</tr>
<tr>
<td>HT2HX9KW</td>
<td>1 hp</td>
<td>30 gpm @ 32 PSI</td>
<td>27” x 11” x 24”</td>
<td>1.25” NPT</td>
<td>½” NPT</td>
</tr>
<tr>
<td>HT2HR9KW</td>
<td>1-½ hp</td>
<td>40 gpm @ 32 PSI</td>
<td>27” x 11” x 24”</td>
<td>1.25” NPT</td>
<td>½” NPT</td>
</tr>
<tr>
<td>HT2HW9KW</td>
<td>2 hp</td>
<td>50 gpm @ 32 PSI</td>
<td>27” x 11” x 24”</td>
<td>1.25” NPT</td>
<td>½” NPT</td>
</tr>
<tr>
<td>HT2HN9KW</td>
<td>3 hp</td>
<td>60 gpm @ 34 PSI</td>
<td>27” x 11” x 24”</td>
<td>1.25” NPT</td>
<td>½” NPT</td>
</tr>
</tbody>
</table>

*Hydrotherm Systems are available in a variety of voltages and capacities. Please contact DME for more information.

### Features and Benefits

- Stainless steel construction (wetted surfaces)
- Compact and portable
- Microprocessor-based controller
- Control panel with indicating lights for mode of operation
- Suction and discharge pressure gauges
- Improved energy efficiency, small hold-up volume and energy-efficient heater design
- Easy access cabinet
- UL 508A labeled electrical sub-panel
- Meets NFPA 79 electrical safety standards
Circulating Water Temperature Control System
Hydrotherm II-Temperatures to 250°F

Standard Features
A Hybrid-epoxy, powder-coated cabinetry (14ga. base/16 ga. electrical enclosure)
B Microprocessor-based controller in easily accessible control panel
C Suction and discharge pressure gauges
D High-temperature safety shut-off switch
E Pressure-relief valve
F Horizontal stainless steel heater canister
G Copper heating elements mounted in back of canister for easy access
H Low pressure, safety shut-off switch
I Solenoid cooling valve
J Stainless steel pump
K Casters for easy portability
L Automatic air purge (not shown)
M NFPA 79-and UL 508A-labeled electrical sub-panel (not shown)

Options
Mokon offers a variety of options and accessories to meet specific customer needs. Typical requests include audible and visual alarms, solid-state heater relay, emergency stop, process fluid purge, high/low heat switching, thermostats, power cord, 7-day/24-hour timer, valved process bypass, remote set point and retransmission, and other voltages and wattages. Please contact us for more information.

E+ Energy Savings Package
• Insulated heater canister reduces heat loss by 60%
• 4–20mA PID control matches output to process demand
• SCR switching for faster response and extended heater life
• Forced ventilated cabinet extends electrical component life

Product Testing & Warranty
All Mokon Temperature Control Systems are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers these extended warranties as standard on the Hydrotherm system:
• 3 years on system
• 5 years on microprocessor controller and safeties
• Lifetime seals on piping and canister

Mokon’s Duratherm HTP Circulating Water Temperature Control System maximizes performance with temperatures up to 300°F (149°C) and pressures up to 70 PSI. The Duratherm design features an advanced heating canister and stainless steel diverter, which create a forced flow path for higher heat transfer rates.

Designed for the most restrictive of processes or those requiring higher fluid temperature or pressure, the HTP System adds a cast iron pump to the Duratherm design, resulting in the highest temperature and pressure capabilities available.

All Duratherm Systems meet NFPA 79 (National Fire Protection Association) electrical safety standards and come standard with a UL 508A-labeled electrical sub-panel. All of these features and more, combined with an extended warranty, make the Duratherm an easy choice for delivering precise and accurate temperature control.

Features and Benefits
• Single and dual zone configurations
• Horizontal stainless steel canister
• Compact and portable
• Ideal for restrictive process and high temperature water applications
• Cast iron pump with brass impeller and carbon ni-resist seal
• Microprocessor-based controller
• UL labeled electrical sub-panel
• Meets NFPA 79 electrical safety standards

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump</th>
<th>Flow Rate &amp; Pressure</th>
<th>Process Connection</th>
<th>Drain/Supply Connection</th>
<th>Dimensions (LxWxH)</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTPDB9KW</td>
<td>1½ hp</td>
<td>25 GPM up to 60 PSI</td>
<td>1”</td>
<td>1”</td>
<td>28” x 16” x 26”</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>HTPDC9KW</td>
<td>2 hp</td>
<td>40 GPM up to 60 PSI</td>
<td>1½”</td>
<td>1”</td>
<td>32” x 17” x 27”</td>
<td>160 lbs.</td>
</tr>
<tr>
<td>HTPDF9KW</td>
<td>3 hp</td>
<td>60 GPM up to 60 PSI</td>
<td>1½”</td>
<td>1”</td>
<td>32” x 17” x 27”</td>
<td>170 lbs.</td>
</tr>
<tr>
<td>HTPDE9KW</td>
<td>5 hp</td>
<td>80 GPM up to 70 PSI</td>
<td>1½”</td>
<td>1”</td>
<td>32” x 17” x 27”</td>
<td>185 lbs.</td>
</tr>
<tr>
<td>HTPDD9KW</td>
<td>7½ hp</td>
<td>100 GPM up to 70 PSI</td>
<td>2”</td>
<td>1”</td>
<td>32” x 17” x 27”</td>
<td>250 lbs.</td>
</tr>
<tr>
<td>HTPDA9KW</td>
<td>10 hp</td>
<td>120 GPM up to 70 PSI</td>
<td>2”</td>
<td>1”</td>
<td>38” x 17” x 28”</td>
<td>300 lbs.</td>
</tr>
</tbody>
</table>

*Duratherm Systems are available in a variety of voltages and capacities. Please contact DME for more information.
Standard Features

A Microprocessor-based controller in easily accessible panel
B Fluid high-temperature safety shut-off switch
C Pressure-relief valve
D Horizontal stainless steel heater canister with unique turbulent flow diverter
E Cast brass fluid connections securely mounted to cabinet
F Removable panel for easy access to heater (not shown)
G Solenoid cooling valve
H Cast iron pump for temperatures up to 300°F (149°C)
I Heavy-duty removable casters for fixed location or portability
J Powder-coated finish
K Low pressure, safety shut-off switch (not shown)
L NFPA 79- and UL-labeled electrical sub-panel (not shown)

Product Testing & Warranty

All Mokon Temperature Control Systems are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers these extended warranties as standard on the Duratherm System:

- 3 years on system
- 5 years on microprocessor controller and safeties
- Lifetime on seals, piping and canister

Hydratherm/Duratherm Molding Conditions Sheet

Company: ____________________________ Phone#: ____________________________
Address: ____________________________ Fax#: ____________________________
E-mail: ____________________________

End User Location: City/St: ___________ Country: ___________ Elevation: ___________

Equipment Ambient Conditions: ____________________________________________________________________________

Type of Molding Machine: ____________________________ Size (Tons): ______________________

Dimensions of Mold (L × W × H): ____________________________ (inches)

Mold Weight: ____________________________ Mold Material: ____________________________

Process (Control) Temperature Required: ____________________________ Preheat Time Required: ____________________________

Insulation (if any): ____________________________

Hydraulic Cooling Required? Yes ______ No ______ If yes, how much ____________ ?

Temperature Control Medium (Water, Oil, Water/Glycol Mix): ____________________________

Number of Zones Heating/Cooling: ____________________________

Coring or Cooling/Heating Lines: Zone 1 Zone 2 Zone 3 Zone 4

Inlet: Quantity of Lines: ____________________________ Sizes of Lines: ____________________________

Outlet: Quantity of Lines: ____________________________ Sizes of Lines: ____________________________

Material Molded: ____________________________ End Product: ____________________________

Shot Weight: ____________________________ Shot Cycle Time: ____________________________

Power: ____________________________ Volts: ______ Phase: ________ Hertz: _______

Control Requirements: Standard Microprocessor ________ Other (Brand): ____________________________

Control Capabilities: Remote Set Point/Retransmission Type: ____________________________

RS-485 ________ Programmable ________ Other: ____________________________

Prior Equipment/Comments: ____________________________________________________________________________

Thank You For Providing This Information. Please Return The Completed Sheet To DME By Fax (248-544-5113) or E-mail (DME@dme.net)
Superior Features:
- **Closed Tank Design.** This unique feature improves operating costs, eliminates downtime due to contaminates entering the system and eliminates problems associated with low or uncertain city water pressure, evaporation and overflow.
- **Stainless Steel Evaporating Tank.** This corrosion-resistant tank allows for years of quality operation.
- **Sturdy Cabinet Construction.** Each unit is constructed on a rugged, heavy-duty steel base frame. The cabinet and access panels are manufactured from Phos Coat galvanized steel and finished with a tough chemical and weather-resistant polyester powder coat. Custom color finish available upon request.
- **Quality Assurance.** Each unit goes through a series of tests to pass rigid standards before they leave the plant.
- **Warranty.** One year parts and components and Five years warranty on the compressor.

**Refrigeration System**
The refrigeration system is the finest in performance, capacity and design. This system is manufactured completely in the plant using the industry-respected Copeland compressor. All condenser coils are formed and assembled in-house for better quality assurance and design flexibility. The control panel has been engineered on request, including 50Hz systems. The control panel can be wired for a 24 or 110 volt system. The systems are wired 208/230 single phase and 208/230 or 440 three phase. Any electrical system can be engineered on request, including 50Hz systems. The control panel can be wired for a 24 or 110 volt system.

**Coil-in-Tank Design**
Every chiller features an exclusive stainless steel coil-in-tank design that eliminates problems associated with tube-in-tube heat exchangers, such as coil rupture due to freeze-up. Head pressure on the refrigeration system is not affected by “pressure shock” due to the high temperature return water. The tough, 40 gallon, 16-gauge, 304 stainless steel construction ensures years of quality operation.

### Portable Water Chillers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RTR2001</th>
<th>RTR3001</th>
<th>RTR5001</th>
<th>RTR6001</th>
<th>RTR8001</th>
<th>RTR9001</th>
<th>RTR10001</th>
<th>RTR12001</th>
<th>RTR16001</th>
<th>RTR20001</th>
<th>RTR30001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>2 T</td>
<td>3 T</td>
<td>4 T</td>
<td>5 T</td>
<td>6 T</td>
<td>8 T</td>
<td>10 T</td>
<td>12 T</td>
<td>13 T</td>
<td>16 T</td>
<td>20 T</td>
</tr>
<tr>
<td>BTU’s Per Hour</td>
<td>24,000</td>
<td>36,000</td>
<td>48,000</td>
<td>60,000</td>
<td>72,000</td>
<td>96,000</td>
<td>120,000</td>
<td>144,000</td>
<td>192,000</td>
<td>240,000</td>
<td>288,000</td>
</tr>
<tr>
<td>Reservoir Capacity</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>40 gal.</td>
<td>80 gal.</td>
<td>80 gal.</td>
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</tr>
<tr>
<td>Cabinet Size</td>
<td>28 x 60</td>
<td>28 x 60</td>
<td>28 x 60</td>
<td>28 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
<td>36 x 60</td>
</tr>
<tr>
<td>Weight</td>
<td>330#</td>
<td>350#</td>
<td>400#</td>
<td>425#</td>
<td>525#</td>
<td>570#</td>
<td>625#</td>
<td>650#</td>
<td>1500#</td>
<td>1600#</td>
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</tr>
<tr>
<td>Warranty</td>
<td>1 year parts and components</td>
<td>5 years warranty on the compressor</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chiller/Heater Combo

The “Cheater”—Chiller/Heater Combination

**Mold Temperature Controller**
- One machine replaces the need for both a chiller and a heater
- Single unit allows 30°F–190°F with less than ±0.2°F variance
- No external water source needed
- Instantaneous changeover for heating and cooling

### More Chiller/Heater Combo specifications on next page
### Specifications for Models OTC 14 to OTC 1

<table>
<thead>
<tr>
<th>Model</th>
<th>OTC</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor</td>
<td>Cap. (kW)</td>
<td>1100</td>
<td>2000</td>
<td>2500</td>
<td>3500</td>
<td>5000</td>
<td>7000</td>
<td>10000</td>
<td>15000</td>
</tr>
<tr>
<td>Cap. (BTU/HR)</td>
<td>38500</td>
<td>74200</td>
<td>92400</td>
<td>130100</td>
<td>195000</td>
<td>280000</td>
<td>418400</td>
<td>628000</td>
<td></td>
</tr>
<tr>
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### Design Features:
- The non-rusting FRP casing and basin, circular in shape, eliminates special installation requirements. Prevailing wind directions will not affect tower performance.
- **Casing:**
  - Easy access through casing simplifies cleaning. Individual fiberglass panels are stainless steel bolted together for periodic washdown and general clean-up. The FRP cooling tower is designed for durability and long life even under the most severe environmental weather conditions.
- **Fan Blades:**
  - Aerodynamically designed propeller-type fan blades are used to conserve power and ensure quiet operation. CTS models T-25 through T-230 feature a factory-balanced ABS plastic blade. CTS models T-240 and above feature an all-aluminum adjustable fan.
- **Fan Drive:**
  - CTS models T-25 through T-220 have direct-drive fan motors. CTS models T-2225 and larger feature a unique belt drive, designed to reduce noise levels, with optional gear drives.

### Water Distribution System:
- CTS models T-25 through T-260 use an ABS plastic sprinkler with stainless steel shaft. CTS models T-270 and above use an aluminum alloy sprinkler head. Both types of sprinkler heads require little or no head pressure loss and minimum maintenance.

### Inlet Louvers:
- Non-rusting PVC plastic mesh provides easy access to sump while preventing foreign objects from entering water basin.

### Ladder:
- Provided for maintenance and inspection accessibility to fan and sprinkler systems. (Models T-240 and above.)

### Fill Material:
- Honeycomb heat-embossed PVC is formed to permit high heat transfer efficiency. The CTS fill is suitable for operation with inlet water temperatures of 125°F. For higher temperatures, contact CME for quote.

### Cooling Towers

- The fan motor is weatherproofed and totally enclosed, allowing for less noisy and more efficient long-term performance.
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**Cooling Towers**

### Specifications

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<tr>
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<th>Dimensions (In.)</th>
<th>Fan Motor (HP)</th>
<th>Fan Diameter (In.)</th>
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### Weight (Lbs.)

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### Notes

- Dimensions and weights are approximate and subject to change without notice.
- Specifications are subject to change without notice.
- All dimensions are given in inches unless otherwise specified.
- Weight and Flow rates are approximate and can vary based on specific model and conditions.

---

**Technical Information:**

- Electrical specifications: [110-220/1.60, 220/3.60, **110-220/1.60, 220V/440/50, **220V/440/60].
- **4776 40064 2000 100% 20 8 12 13.2.**
- **5432 15500 210 108% 20 5 12 16 31.1 14%**
- **10199 27359 295% 13 20 5 12 16 31.1 16%**
- **10199 27359 295% 13 20 5 12 16 31.1 16%**

---

**Contact Information:**

- U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000
- DME@dme.net • www.dme.net
**Cooling Towers**

**Sound Pressure Levels Of Cooling Tower Systems**

**Towers Level Of Measurement: dB**

Note: The accuracy of measuring value is ±3 decibels

Remarks:
1. Point 1 is 45° extension of fan discharge.
2. Distance “S”
   - (1) T Models 2125 & lower - 4’11”
   - (2) T Models 2150 & above - fan diameter

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**Cooling Tower Models and Key Specifications**

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</tr>
<tr>
<td>T-700</td>
<td>5</td>
<td>208/230/460/360</td>
<td>Call</td>
</tr>
<tr>
<td>T-750</td>
<td>5</td>
<td>208/230/460/360</td>
<td>Call</td>
</tr>
</tbody>
</table>
Inhibited Ethylene Glycol

Ethylene Glycols are used in applications involving secondary cooling and heat transfer, providing freeze and burst protection. Plain water and antifreeze-type products do not have the proper inhibitor package for these heavy industrial uses.

Compared with inhibited glycols, uninhibited glycols oxidize in the presence of air and heat, forming acids. These acids can be corrosive to the metal in a system. Inhibited glycols neutralize the acids formed and thus protect against corrosion.

Applications:
Ethylene Glycol Inhibited is almost odorless, easily mixes with water, and is moderately toxic. Ethylene Glycol Inhibited is effective from –60° to 250°F.

Proper concentration is a function of the lowest temperature anticipated in a system. Recommended concentrations are provided in the table below. For ethylene glycols, it is recommended to start with solutions that provide protection about 5° lower than the lowest anticipated temperature. However, for systems with high corrosion protection do not go below 30% by volume.

Uninhibited Ethylene Glycol

- Pure ethylene glycol circulator fluid, no additives
- Guaranteed analysis by Shell
- For use from –40° to +250°F (dilute)
- Good rust preventative properties
- Non-corrosive, will not build up
- High flashpoint, +240°F
- Shipped from stock
- Compare our quality, compare our price!

Therminol® XP heat transfer fluid is an extremely pure white mineral oil which provides reliable heat transfer from 0° to 600°F. Performance features of Therminol XP include:

- Low Fouling – The purity of Therminol XP minimizes fouling as a result of oxidation and degradation of the fluid, provided proper attention is given to system design and operation within the maximum bulk and film temperatures specified.
- Practically Non-Toxic – As an indicator of purity, Therminol XP meets FDA specifications defined in 21 CFR 172.878 and requirements of United States Pharmacopeia (USP) and National Formulary (NF).
- Thermal Stability – Therminol XP is stable to 600°F. Users can expect many years of reliable, trouble free operation, even when operating continuously at the recommended maximum temperature of 600°F.
- Environmentally Friendly – Therminol XP has outstanding regulatory status for those seeking heat transfer fluids which have minimum environmental reporting requirements.
- Therminol XP is used in a wide variety of industries, such as:
  - Plastics molding equipment
  - Pharmaceuticals
  - Specialty chemicals
  - Laundries
Stainless Steel Bolts with Brass Nuts

Improves repeatability

Helps comply with waste oil laws, regulations and guidelines

• Provides significant economic payback

• Increases equipment availability and uptime

Reduces machine hydraulic repairs 25 to 35%

• Drastically reduces waste oil disposal costs

• Extends the life of your hydraulic fluids

Perforated hole-openings down to approximately 50-micron. A 1-PSI pressure loss at maximum flow when clean. The strainers are designed with a large amount of screen surface area, all models operate with less than 1 PSIG pressure loss at maximum flow when clean. The strainers are available with a wide variety of screen mesh options, ranging from large perforated hole-openings down to approximately 50-micron. The Thomson Strainer has a unique design: as water enters the strainer housing, a high-velocity centrifugal action occurs, spiraling heavier particles (sediment, scale, etc.) away from the screen cartridge, down to the base of the filter. These accumulated particles are then flushed from the filter via the 3/4" flush port connection at the base of the filter (valve not included).

The Filteroil Filtration System:

- Extends the life of your hydraulic fluids
- Dramatically reduces waste oil disposal costs
- Reduces machine hydraulic repairs 25 to 35%
- Cools and cleans oil systems giving smooth operation
- Increases equipment availability and uptime
- Provides significant economic payback
- Helps comply with waste oil laws, regulations and guidelines
- Improves repeatability

Please specify mesh size (16–200)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Inlet/Outlet Size</th>
<th>Recommended Maximum GPM</th>
<th>Maximum PSI Pressure</th>
<th>Unit Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS2</td>
<td>2&quot;</td>
<td>100</td>
<td>125</td>
<td>13</td>
</tr>
<tr>
<td>MLS3</td>
<td>3&quot;</td>
<td>200</td>
<td>125</td>
<td>27</td>
</tr>
<tr>
<td>MLS4C</td>
<td>4&quot;</td>
<td>350</td>
<td>125</td>
<td>60</td>
</tr>
<tr>
<td>MLS4B</td>
<td>6&quot;</td>
<td>350</td>
<td>150</td>
<td>60</td>
</tr>
<tr>
<td>MLS5</td>
<td>6&quot;</td>
<td>750</td>
<td>150</td>
<td>125</td>
</tr>
<tr>
<td>MLS8</td>
<td>8&quot;</td>
<td>1300</td>
<td>150</td>
<td>230</td>
</tr>
<tr>
<td>MLS10</td>
<td>10&quot;</td>
<td>2000</td>
<td>150</td>
<td>400</td>
</tr>
</tbody>
</table>

The Filtration System:

- Easily Removable Filter Lid
- Stainless Steel Bolts with Brass Nuts
- Self-Cleaning Conical Filter
- Outlet Pressure Gauge Port
- Inlet Pressure Gauge Port
- Debris Flush Port

The Thomson Strainer:

- Stainless Steel Bolts with Brass Nuts
- For Cooling Tower and Chiller Water applications
- Full flow and sidestream

Miller Leaman Helix Screen Water Filters are available in three different sized models: 2", 2" Super and 3". The filters can be installed in any orientation; however, it is preferable to install them in the inverted position (3/4 flush port at bottom). This helps the filtration system work at its best. As water enters the filter housing, a high-velocity centrifugal action occurs, spiraling heavier particles (sediment, scale, etc.) away from the filter cartridge, down to the base of the filter. These accumulated particles are then flushed from the filter via the 3/4" flush port connection at the base of the filter (valve not included).

The Body:

- The body contains one inlet and two outlet connections, allowing the filter to be installed at either 90 or 180 degrees. A threaded cap is supplied with the filter to terminate the outlet port not being used. Inlet/outlet connections are available in NPT or Victaulic. The body contains inlet and outlet pressure gauge ports (gages not included) for monitoring the pressure differential across the filter screen which determines when the screen cartridge needs to be removed for maintenance.

The Culture:

- Manufactured in Type 316 stainless steel, the quick-release clamp assembly is strong and reliable. No tools are necessary to remove the clamp and filter cover when maintenance is required.

How It Works:

1. Dirty water enters the filter housing through the inlet connection.
2. As dirty water passes through the Helix Element, the water starts to spin at high velocity. This centrifugal action spins the particles away from the screen, minimizing mechanical cleaning frequency.
3. As particles are spun down to the base of the filter, they are flushed via the 3/4" female thread flush port connection.
4. The dirty water passes from the outside to the inside of the stainless steel screen. The screen captures the remaining light and fibrous contaminants in the water.
5. After passing through the screen, the filtered water flows upward and exits the filter through one of the outlets. The outlet not being used is terminated with a threaded cap.

Unique Features:

- Centrifugal cleaning action minimizes maintenance
- Large screen surface area with maximum open area
- Particles can be flushed while filter is in operation
- Several Type 316 stainless steel mesh (and perforated) options available
- Durable, corrosion-resistant, injection-molded housing
- Easily removable, quick-clamp lid assembly
- Pressure gauge ports molded into housing

See next page for technical specs!
**Helix Screen Water Filter**

**Technical Data**

**Flow Rates for a Single Filter Housing**
- 2’/100 GPM max.
- 2’/Super/100 GPM max.
- 3’/200 GPM max.

*Multiple pods are manifolded for higher flow rates*

**Temperature Rating**
- All units rated to 140°F

**Pressure Rating**
- All units rated to 125 PSI

**Construction Materials**
- Housing: Polyamide
- Screen: Stainless Steel (Type 316)
- Gaskets: EPDM
- Filter Pod Clamp: Stainless Steel (Type 316)

**Screen Sizes Available**
- 16, 30, 40, 50, 60, 80, 100, 120, 150, 200 GPM

*Please specify screen size when ordering. (e.g.: HS2NA100 is a 2” NPT filter with a 100 mesh screen)*

**Filter Components**
- A. Stand-Coupling Assembly
- B. Removable Filter Lid
- C. Filter Body
- D. Mesh/Micron Data Plate
- E. Outlet Gauge Port
- F. Inlet Gauge Port
- G. Filter Screen Cartridge
- H. Helix Element
- I. O-Ring Seal
- J. Cartridge Cover Plate
- K. Threaded Wing Bolt
- L. See table below
- M. See table below

**Inlet/Outlet Configurations**
- 2” and 3” models available with NPT or Victaulic inlet/outlet connections

*In-line and 90-degree configurations standard (filter is supplied with a cap for outlet port not being used)*

**Unique Features**
- Centrifugal cleaning action minimizes maintenance
- Large disc surface area with three-dimensional depth
- Particles can be flushed while filter is in operation
- Several color-coded disc options available
- Durable, corrosion-resistant, injection-molded housing
- Easily removable, quick-clamp lid assembly
- Pressure gauge ports molded into housing

**How It Works**

1. Dirty water enters the filter housing through the inlet connection.

2. As dirty water passes through the Helix Element, the water starts to spin at high velocity. This centrifugal action spins the particles away from the disc media, minimizing manual cleaning frequency.

3. As particles are spun down to the base of the filter, they are flushed via the ¼” female threaded flush port connection.

4. The dirty water passes from outside to the inside of the discs. The grooves, molded into the surface of the three-dimensional discs, trap the remaining contaminants in the water.

5. After passing through the discs, the filtered water flows upward and exits the filter through one of the outlets. The outlet not being used is terminated with a threaded cap.

**Please contact your DME about modular capabilities.**

**View next page for Helix Disc Filter technical spec!**
Technical Data

Flow Rates for a Single Filter Housing

- 2”/100 GPM max.*
- 2” Super/100 GPM max.*
- 3”/200 GPM max.*

Multiple pods are manifolded for higher flow rates

*Maximum flow rates should be derated for high solids loading, particularly for finer disc media.

Pressure Rating

All units rated to 125 PSI

Temperature Rating

All units rated to 140ºF

Inlet/Outlet Configurations

- 2” and 3” models available with NPT and/or Victaulic inlet/outlet connections
- In-line and 90-degree configurations standard
- (Filter is supplied with a cap for outlet port not being used)

Construction Materials

- Housing: Polyamide
- Discs: Polypropylene
- Gaskets: EPDM
- Filter Pod Clamp: Stainless Steel (Type 316)

Micron Options Available

- 200 Micron (80 Mesh)
- 130 Micron (120 Mesh)
- 50 Micron (250 Mesh)

Pressure Loss Through Single Filter Housing

![Pressure Loss Graph]

Please contact DME about modular capabilities.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model Type</th>
<th>Inlet/Outlet Size &amp; Type</th>
<th>Filter Surface Area (Sq. In.)</th>
<th>Max. Flow (GPM)</th>
<th>(Refer to Diagram Above)</th>
<th>Pressure Loss (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD2NA*</td>
<td>Regular</td>
<td>2”/NPT</td>
<td>186</td>
<td>100</td>
<td>X: 12–1/4, Y: 24–7/8, Z: 18”</td>
<td>0.0</td>
</tr>
<tr>
<td>HD2SA*</td>
<td>Super</td>
<td>2”/NPT</td>
<td>263</td>
<td>100</td>
<td>X: 12–2/5, Y: 29–1/2, Z: 22–3/8”</td>
<td>0.0</td>
</tr>
<tr>
<td>HD2NW*</td>
<td>Regular</td>
<td>2”/Victaulic</td>
<td>186</td>
<td>200</td>
<td>X: 13–1/8, Y: 30–1/2, Z: 22–3/8”</td>
<td>0.0</td>
</tr>
<tr>
<td>HD2SW*</td>
<td>Super</td>
<td>2”/Victaulic</td>
<td>263</td>
<td>200</td>
<td>X: 13–1/8, Y: 30–1/2, Z: 22–3/8”</td>
<td>0.0</td>
</tr>
</tbody>
</table>

*Please specify disc size when ordering. (e.g: HD2NA130 is a 2” NPT Super filter with 130 micron discs)
The Stauff® Compact Filter Cart (SCFC) is a compact and handy filter cart, offering excellent service for maintenance departments. The carts can be used for offline filtration or as a transfer unit. The SCFC comes standard with upstream and downstream sample points that can either be used for online particle monitoring or fluid sampling.  
- 38 1/min (10 US GPM) gear pump
- Electric motor, single phase
- Thermal overload relays
- Heavy-duty welded frame with coated tool tray epoxy
- Compact suction strainer
- Visual clogging indicator
- Filter head with bypass valve integrated
- 10’ special hoses reinforced with internal spiral

**Part Number Example:** SCFC210GD0000BVC.

*Note: please enter part number of desired filter from table below.*

### Stauff® Compact Filter Cart: Single-stage filter with spin-on suction filter and bypass valve.

Buna seal, visual indicator, 110 VAC 60 Hz motor, gear pump-10 GPM

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Filter Description</th>
<th>Part Number</th>
<th>Filter Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000</td>
<td>Without filter element</td>
<td>SF6721W</td>
<td>10 micron, paper, water absorbing</td>
</tr>
<tr>
<td>SF6721</td>
<td>10 micron, paper</td>
<td>SF6704MG</td>
<td>3 micron, synthetic</td>
</tr>
<tr>
<td>SF6721-6</td>
<td>10 micron, paper (6 pack)</td>
<td>SF6707MG</td>
<td>6 micron, synthetic</td>
</tr>
<tr>
<td>SF6711</td>
<td>25 micron, paper</td>
<td>SF6731MG</td>
<td>12 micron, synthetic</td>
</tr>
<tr>
<td>SF6711-6</td>
<td>25 micron, paper (6 pack)</td>
<td>SF6726MG</td>
<td>25 micron, synthetic</td>
</tr>
</tbody>
</table>

---

**We still offer filters for obsolete Norman filter carts.**

**Part Number**

- 603
- 610
- 610AQ
- 625

---

**Stauff® Compact Filter Cart:**

- Single-stage filter with spin-on suction filter and bypass valve.
- Buna seal, visual indicator, 110 VAC 60 Hz motor, gear pump-10 GPM.

---

**D-Scaler System**

**Removes rust, scale, and/or lime from your system**
- Compact & portable
- All non-corrosive materials
- Easy to operate
- Prolong the life of your equipment
- Fluid is USDA authorized
- Non-toxic, non-corrosive, & non-flammable fluid
- Easy to install

If hard water or mineral deposits are decreasing the efficiency of your process heating and/or cooling, then you need a Mokon D-Scaler. This system is proven to remove rust, scale and/or lime deposits from your process, as well as Mokon systems, or any other circulating temperature control system. This unit will increase the efficiency of your process while prolonging the life of your equipment.

The D-Scaler is portable and lightweight, making it easy to install and easy to operate. It is designed to circulate Mokon D-Scaler Fluid, a non-toxic, non-flammable liquid that quickly dissolves any deposit build-up. This USDA authorized fluid will circulate through your process safely with no harm to your equipment or to the environment.

**Standard Features**
- The Mokon D-Scaler offers many standard features to provide an effective way to remove rust, scale, and/or lime deposits from your process or circulating temperature control system.
- Illuminated on/off toggle switch
- Easily accessible fluid connections
- Non-toxic, non-corrosive, & non-flammable fluid
- Easy to install
- Easy to operate
- Non-toxic, non-corrosive, & non-flammable fluid
- Non-toxic, non-corrosive, & non-flammable fluid

**Part Number**

**Unit Size**

- DScaleSM Small
- DScaleLG Large

**Operating Pump**

- 25 GPM @15 PSI ambient
- 25 GPM @32 PSI ambient

**User Temperature**

- 3/4” NPT drain on side of tank
- 1/2” NPT drain on side of tank

**Motor Load Volt.**

- 115
- 115

**AMP**

- 11
- 11

**L x W x H**

- 28 x 21 x 35
- 26 x 18 x 35

**Ship Wt.**

- 60 lbs.
- 100 lbs.

**D-Scaler Fluid**

Mokon’s D-Scaler Fluid is a non-toxic, non-flammable liquid that quickly dissolves any deposit build-up. This USDA-authorized, non-corrosive fluid will not harm your equipment or the environment. It is available in 5- and 55-gallon containers. Both the fluid and hoses are sold separately from Mokon’s D-Scaler unit.

**D-Scaler Fluid, 5 gallon - Part No. 5DS**

**Hose Kit**

This kit consists of two 1” diameter x 10 ft. hoses with a snap-tight coupling on one end to connect to D-Scaler and threaded connection on the other.

**Hose Kit - Part No. 600-044**

**Warranty and Delivery**

Mokon offers a one-year warranty as standard. The D-Scaler is designed for long trouble-free service and is constructed with reliable parts and durable materials. Both sizes of the D-Scaler are in stock for immediate shipment. Call DME for more information on availability and pricing.

**NOTE:** Empty tank after every use – fluid left in tank will destroy unit!

---

**DME@dme.net • www.dme.net**

U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000

U.S. 800-626-6653 • Canada 800-387-6600 • Worldwide +1-248-398-6000

DME@dme.net • www.dme.net
Rugged, low-cost pressure gauges for hydraulic & pneumatic applications. Liquid fill helps dampen pulsations and acts as a natural lubricant. DME offers low prices and quick shipment.

**Hydraulic:**
- 2 1/2” dia.
- Liquid-filled gauge
- 304 stainless steel case & ring (except for WGGSS series of which all parts are stainless steel)

**Pneumatic:**
- 2” dia.
- Black enameled steel case

Note: Generally, gauges should be selected so the maximum working pressure is not in excess of 75% of full-scale range.

**Part Number** | **Mount Location** | **Graduation** | **PSI**
--- | --- | --- | ---
GG2000 | Bottom Stem | 250 250 50 | 0–2000
GG3000 | Bottom Stem | 500 500 100 | 0–3000
GG5000 | Bottom Stem | 1000 500 100 | 0–5000
GG10000 | Bottom Stem | 2000 1000 200 | 0–10,000
WGGSS3000 | Bottom Stem | 250 250 50 | 0–3000
WGGSS5000 | Bottom Stem | 500 500 100 | 0–5000
SG1602C* | Back Mount | 20 10 5 | 0–160
WGG2000C | Center Back w/clamp | – | 250 50 | 0–2000
WGG3000C | Center Back w/clamp | – | 500 100 | 0–3000
WGG5000C | Center Back w/clamp | – | 1000 100 | 0–5000
SG1002* | Bottom Stem | – | 10 15 | 0–100
SG1602* | Bottom Stem | – | 10 15 | 0–160

*Denotes Pneumatic Gauges – all others are Hydraulic

These are some of the many high-quality cooling products available... call DME for additional information on other products not shown here!
Heat Exchangers

American Industrial Heat Transfer Inc.

Diameter
Shell
Tube
Effective Diameter
Baffle Spacing Code
Cooling Tube Diameter
Tube Side Passes

<table>
<thead>
<tr>
<th>Model</th>
<th>Shell Diameter</th>
<th>Effective Tube Length</th>
<th>Baffle Spacing Code</th>
<th>Cooling Tube Diameter</th>
<th>Tube Side Passes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS5-1224-4-FP</td>
<td>3.0&quot;</td>
<td>12.0&quot;</td>
<td>2.0&quot;</td>
<td>4.0&quot;</td>
<td>Four Pass</td>
</tr>
<tr>
<td>CS5-1224-5-FP</td>
<td>3.125&quot;</td>
<td>12.0&quot;</td>
<td>2.0&quot;</td>
<td>4.0&quot;</td>
<td>Four Pass</td>
</tr>
<tr>
<td>CS5-1224-6-FP</td>
<td>3.25&quot;</td>
<td>12.0&quot;</td>
<td>2.0&quot;</td>
<td>4.0&quot;</td>
<td>Four Pass</td>
</tr>
<tr>
<td>CS5-1224-7-FP</td>
<td>3.375&quot;</td>
<td>12.0&quot;</td>
<td>2.0&quot;</td>
<td>4.0&quot;</td>
<td>Four Pass</td>
</tr>
<tr>
<td>CS5-1224-8-FP</td>
<td>3.5&quot;</td>
<td>12.0&quot;</td>
<td>2.0&quot;</td>
<td>4.0&quot;</td>
<td>Four Pass</td>
</tr>
</tbody>
</table>

Flow Cavity
- Generously sized for even flow distribution.
- Provides fluid into tubes with minimum restriction.

Baffles
- CNC-machined baffles for accurate leak-proof connections.

Full-Face Gasket
- Full-face composite gasket with minimum fluid drop.

Mounting Bracket
- Heavy-gauge steel mounting brackets are adjustable in orientations to 360 degrees.

Drain Port
- Drains parts allow for easy draining of tube side. Optional line threads can be inserted in place of plug.

Bonnet
- Provides fluid into tubes with minimum restriction.

Thread
- CNC precise threading for accurate feed and proper connections.

Shells & Tube Bundle Assembly
- CNC-precision-manufactured parts guarantee a close fit between the bundle, end, and shell. Clearances are minimized to provide for maximum heat transfer.

Drain Port
- Precision machined tube sheet provides for maximum pressure and temperature.

Complete Pump
- Improves machine operational performance
- Big savings, big performance
- Two year in-service warranty
- Two year in-service warranty
- Be sure to reset pressure relief valve to proper setting before startup of a new pump or kit. No warranty for damage to parts due to excessive pressure.
- Be sure to reset pressure relief valve to proper setting before startup of a new pump or kit. No warranty for damage to parts due to excessive pressure.
- Compatible with petroleum oil, synthetics, water glycols and invert emulsions
- Compatible with petroleum oil, synthetics, water glycols and invert emulsions
- Foot- or flange-mounted design
- Foot- or flange-mounted design
- Improves machine operational performance
This new generation of Mold Service Table is specifically designed to:

- Quickly and safely open molds
- Providing access to all parts of the mold for assembly and fitting of components, repair, maintenance, cleaning and production preparation
- Allows the mold to be opened and rotated without the use of cranes
- Rotates 360° for easy access to each mold half with indexing every 90°

**Features:**

- 1.5, 2, 3 and 6 ton weight capacity
- Provides a working height of 850mm (33.46")
- Tables include: Pivot Plates, Platform & Tool Plate
- Optional accessories- Mechanical Brackets, Magnetic Brackets and Drawer Units

### Mold Service Tables

#### PART NUMBER |
**DESCRIPTION**

| OPTIM2515 | MOLD MAINTENANCE TABLE ONLY 1500KG MAX LOAD |
| OPTIM2520 | MOLD MAINTENANCE TABLE ONLY 2000KG MAX LOAD |
| OPTIM2530 | MOLD MAINTENANCE TABLE ONLY 3000KG MAX LOAD |
| OPTIM2560 | MOLD MAINTENANCE TABLE ONLY 6000KG MAX LOAD |
| OPTIM2515-850AL | OPTIMA 2515 + BASE PLATFORM + AL TOOLPLATE |
| OPTIM2520-850AL | OPTIMA 2520 + BASE PLATFORM + AL TOOLPLATE |
| OPTIM2530-850AL | OPTIMA 2530 + BASE PLATFORM + AL TOOLPLATE |
| OPTIM2560-850AL | OPTIMA 2560 + BASE PLATFORM + AL TOOLPLATE |
| OPTIM2515-850ALMB | OPTIMA 2515 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET |
| OPTIM2520-850ALMB | OPTIMA 2520 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET |
| OPTIM2530-850ALMB | OPTIMA 2530 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET |
| OPTIM2560-850ALMB | OPTIMA 2560 + BASE PLATFORM + AL TOOLPLATE + MECHANICAL BRACKET |
| OPTIMEQMAG120090 | MAGNETIC BRACKET 135LX125WX38H |
| OPTIMEQMAG150090 | MAGNETIC BRACKET 165LX165WX45H |
| OPTIMEQMAG180090 | MAGNETIC BRACKET 195LX195WX45H |
| OPTIMEQMAG260090 | MAGNETIC BRACKET 285LX195WX45H |
| OPTIMEQMAG180225 | MAGNETIC BRACKET 205LX205WX45H |

### MoldVac

**Vacuum & Blowback Controller**

- **MV10KDME**
  - Vacuum Rating (in³/s): 36
  - Vacuum Reservoir (in³): 74
  - Vacuum Level (in of hg)*: 20-24

- **MV20KDME**
  - Vacuum Rating (in³/s): 900
  - Vacuum Reservoir (in³): 2,700
  - Vacuum Level (in of hg)*: 20-24

- **MV40KDME**
  - Vacuum Rating (in³/s): 1,665
  - Vacuum Reservoir (in³): 5,000
  - Vacuum Level (in of hg)*: 20-24

* Vacuum rating and levels are approximate based on mold design & construction

**Physical Dimensions (US)**

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>42&quot;</td>
<td>18&quot;</td>
<td>25&quot;</td>
</tr>
<tr>
<td>42&quot;</td>
<td>18&quot;</td>
<td>34&quot;</td>
</tr>
</tbody>
</table>

**Utility Requirements**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amp Draw</th>
<th>Compressed Air</th>
<th>Air Inlet Size</th>
<th>Pipe Connection (connect to mold)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110V/1/60</td>
<td>2 Amps</td>
<td>33 cfm Ø65 psi</td>
<td>3/8&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>240/60/3/60</td>
<td>4 Amps/2 Amps</td>
<td>65 psi</td>
<td>3/8&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>240/60/3/60</td>
<td>4 Amps/2 Amps</td>
<td>65 psi</td>
<td>3/8&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
</tbody>
</table>

* Vacuum & Blowback Controller