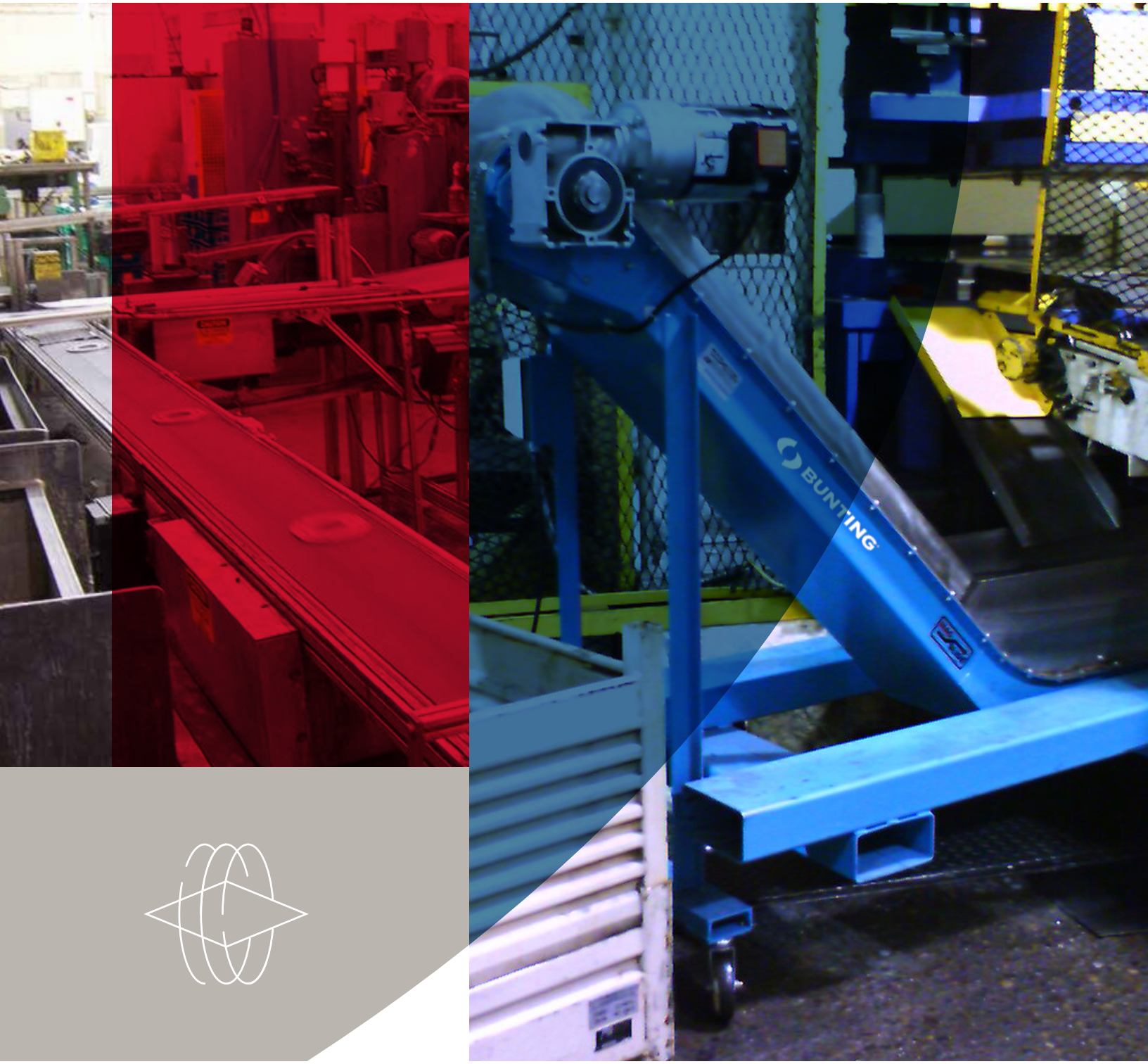
BUNTING®

GLOBAL. MAGNETIC. FORCE.™



Metal Working & Fabricating

About BUNTING

Bunting is an industry leader in the design, manufacture, and sales of cutting-edge magnetic equipment used in applications such as magnetic separation, metal detection, conveyor systems, custom manufactured magnets, and more. All of the products we sell are custom-designed by our engineering team. We work with customers to determine their exact needs and develop a product that will perfectly suit the challenges of the industry they are working in and the materials they are handling, as well as being designed to fit within the existing layout of the customer's facility.

Since 1959, Bunting has been a family-owned, family-operated company. Headquartered in Newton, KS, Bunting currently has multiple branches within the United States as well as abroad in the United Kingdom. We are committed to upholding the all-American values of innovation, dedication, and hard work that Bunting was founded upon sixty years ago.

As technology continues to advance across every industry, Bunting remains committed to integrating new technology into our products, creating solutions that address modern industry challenges, and continuing to expand our domestic and international reach.

Bunting-Newton primarily focuses on magnetic equipment for magnetic separation and metal detection applications. Newton, Kansas has served as the company's headquarters since 1979. Here, we design and manufacture magnetic separation, metal detection and material handling equipment as well as a complete line of printing cylinders. With a team of engineers using world-class, computer-aided design equipment, we can customize and develop products to fit any application or production line.

Bunting-DuBois has a unique role as it is the only North American manufacturer of compression bonded, injection molded, and hybrid magnets used in custom designed permanent magnet assemblies. These assemblies are used in the military, aerospace, automotive, and other industrial commercial industries.

Bunting-Elk Grove Village is home to the company's Magnet Materials division. Bunting-Elk Grove Village provides the largest online selection of permanent magnets and magnetic equipment, with all in-stock items able to be shipped within 24 hours of an order being placed on its website, BuyMagnets.com.

Bunting-Berkhamsted provides total magnetic solutions—from individual magnets and magnetic sub-assemblies to magnetic separation, material handling, and metal detection equipment to various industries throughout Europe and the UK. Bunting-Berkhmasted also manages E-magnets.com, where customers may purchase a wide variety of commonly used magnets.

Bunting-Redditch provides a complete line of magnetic separation, recycling, and metal detection equipment to industries across the globe through a worldwide network of distributors.

Bunting®

Magnetic Technology for All Industries

The unique benefits of magnetic technology can be utilized across a wide range of applications, and Bunting is always looking to the future regarding new challenges that present themselves in the many industries we work with. Bunting engineers are constantly working to develop new technologies and improve upon our existing product lines. Bunting custom designs, manufactures, and distributes a broad selection of magnetic and non-magnetic equipment for the following general sectors:

FOOD AND PHARMACEUTICALS

PLASTICS

RECYCLING

AUTO SHREDDING

AGGREGATE, MINING MINERALS

CERAMICS

TEXTILES

METAL STAMPING & FABRICATING

PRINTING, DECORATING AND CONVERTING

CUSTOM MAGNETS AND MAGNETIC ASSEMBLIES

STOCK MAGNETS & MAGNETIC TOOLS

Across all the industries Bunting works with, our commitment to providing quality products and customer service remains consistent. Bunting enthusiastically offers custom designed applications for customers bringing unique challenges to the table, and we take pride in working individually with each customer in order to provide the best product possible.

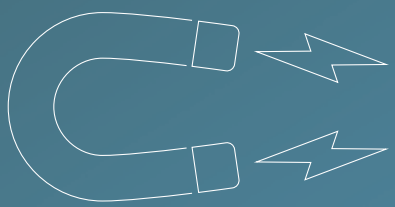
Contents

Permanent Magnets:

Permanent magnets are essential to virtually every type of modern technology and convenience. Being able to provide the optimum magnetic solution to the customer requires in-depth knowledge of the full supply chain. Bunting's team of magnet experts and engineers is fully equipped with this knowledge. Bunting entered the magnetics industry in 1959 as a magnet distributor and rapidly grew to a manufacturer of magnetic products, focused on custom design and customer-focused engineering. Today, Bunting is a leader in manufacturing and designing a diverse range of innovative magnetic technologies across industry sectors. Listed below are the general permanent magnet types that are used in Bunting products.

Neodymium Iron Boron Magnets

Neodymium magnets are a type of rare earth magnet and are the most common rare earth permanent magnets in the world. They are composed of Neodymium (Nd), Iron (Fe) and Boron (B), and exhibit the highest maximum energy product of any permanent magnet material. However, these magnets are vulnerable to corrosion if they are exposed to the elements. To protect the magnet from corrosion, the magnet is usually coated with nickel. Other coating options are aluminum, zinc, tin, copper, epoxy, silver and gold.



Plastic Bonded Neodymium Magnets

These magnets are-cost effective while offering high performance and tolerances in addition to low electrical conductivity. It is possible to multipole magnetize them as a complete ring, and they can be designed to achieve specific flux density profiles. These are especially well suited for applications such as minimizing cogging torque in motors. These injection molded magnets are an excellent choice for higher volume applications. Compression bonded magnets can also be easily machined, making them suitable for low volume production in manufacturing magnets with multipole magnetization, skew angled poles, and various other directions of magnetizations. Magnetizing patterns are only limited by whether or not a magnetizing coil fixture can be produced to give the required magnetizing pattern.

- Bonded NdFeB magnets can be compression or injection molded to final shape. These high tolerances can be achieved without the need for further machining.
- Injection molded magnets are available in both neodymium and ferrite varieties.
- Injection molded ferrite magnets offer high durability and resistance to shock, as well as a low cost and extreme resistance to corrosion and conditions such as low density.
- Available in high tolerance and complex shapes
.
- No coating required, although black epoxy and Parylene coatings are available.

Samarium Cobalt Magnets

Samarium cobalt magnets are rare earth magnets that offer high maximum energy products and can operate in high temperature environments. They are extremely strong and typically allow for smaller size magnet profiles. Though not as strong as neodymium magnets, samarium cobalt magnets present three significant advantages. They work over a wider temperature range, have superior temperature coefficients, and also have a greater resistance to corrosion. Special coatings are available for specific marine and automotive applications.

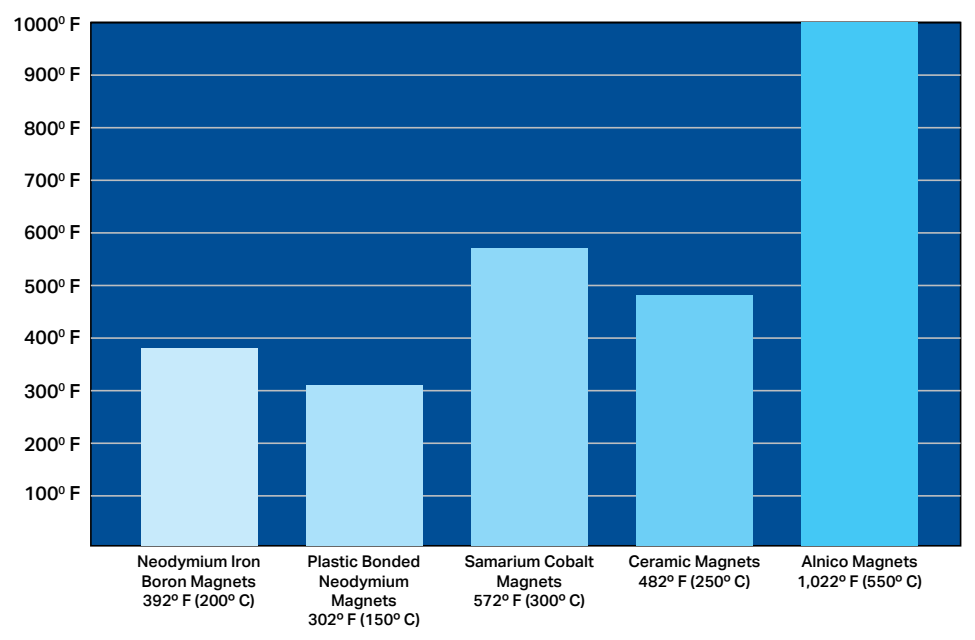
Samarium cobalt magnets are one of the most useful magnets for high temperature applications. They retain most of their energy up to 575° F, making them ideal replacements for Alnico magnets when high temperature use or miniaturization is required. Samarium cobalt magnets are known for their excellent temperature stability—maximum use temperatures are between 250 and 550°F; Curie temperatures range from 700 to 800°F.

Ceramic

Ceramic magnets, or ferrite magnets, are low cost, lightweight, moderate energy permanent magnets capable of withstanding operating temperatures of up to 480°F. They are highly corrosion resistant and work well in high volume applications. Ceramic magnets can be made in many shapes and sizes, can be ground to intricate and accurate shapes, and can even be designed to be small enough to be used in micro applications.

Alnico Magnets

Alnico magnets are alloys comprised of aluminum, nickel, iron, and cobalt. They have the highest operating temperature and temperature stability of any permanent magnetic material. They retain approximately 85% of room-temperature magnetization at temperatures of up to 1,000°F. They possess high residual induction as well as relatively high energies. Alnico magnets naturally possess an excellent corrosion resistance.



METAL STAMPING AND FABRICATING

Increase efficiency and keep your business moving. Bunting works with a wide range of industries, but they all have one thing in common: When they need to move something, it needs to be moved quickly, efficiently, and safely. Bunting's extensive line of magnetic and non-magnetic conveyor systems and conveyor system accessories help our customers achieve this goal and get their product transported fast. Our conveyors allow product to travel rapidly throughout a facility and have durable, low-maintenance construction that reduces downtime that would be otherwise spent on maintenance or troubleshooting. Our systems are designed with operator safety as one of our top priorities, so their speed in transporting materials comes with no sacrifice to the safety of your employees. At Bunting, we're not simply content with moving from "Point A" to "Point B"—we seek to provide the highest quality products and offer custom-designed solutions to fit perfectly within your existing facility. Since 1959, we have been dedicated to going above and beyond in our customer service and product quality. You can count on us to help move your facility into the 21st century and beyond as we constantly work on engineering new solutions for every modern-day challenge that presents itself.

MagSlide® Conveyors

Dirty and oily metal chips, parts, jagged or abrasive scrap, and other punishing materials that could damage or jam conventional belted or steel hinged conveyors are no challenge for Bunting's ruggedly constructed MagSlide® conveyors.

Select Features

- Rugged construction allows conveyors to handle the toughest jobs with ease.
- No need for labor-intensive supervision, as there are no external moving parts to fail and compromise productivity and worker safety.
- Maintenance is minimal, and except for the electric motor, all moving parts are totally enclosed.
- MagSlide® configurations include horizontal, incline, and angled models with fixed and mobile bases plus hoppers, tanks, impact plates, and other options.
- Continuous chain lubrication with oil-impregnated UHMWPE SlideTrack™ and oil ports to allow extended chain service.
- Oil ports to allow extended chain service
- High-energy Ceramic or Rare Earth Magnets implemented based on your application needs.
- Durable stainless steel slider beds with optional manganese add-on.
- Sealed precision drive and take-up bearings.
- Designed with 3-D solid-model technology and precision manufactured on CNC machines.
- Optional submersible housings available.

Heavy-Duty MagSlide® Conveyors

Ideal for use anywhere you need to transfer high volumes of ferrous chips, turnings, and small parts from lathes, mills, or stamping presses or from slitting, forming, and other metalworking operations. Chain-driven, permanently charged high-energy ceramic or rare earth magnets inside the conveyor housing attract and move ferrous material along the conveyor's stainless steel faceplate with no external moving parts and without the need for an oil filled bath. Optional water-tight housings can be submerged into almost any type of hot or cold liquid. The 8" thick units come in 12", 15", 18", 24", 30", and 36" widths with optional hoppers and impact plates.

Style A

- Usually straight horizontal feeder conveyors under a large press bringing the scrap out to an inclined conveyor to the dumpster.
- Manganese slider-bed option for additional wear resistance.
- Up and over stairs and mezzanines available.

Style B

- Horizontal to incline design brings scrap out from under press into a tote.
- Standard fixed supports or optimal mobile bases available.
- Strong ceramic or rare earth magnets on centers from 12" to 36" depending on scrap size.
- Manganese slider-bed option for additional wear resistance.

Style C

- A nose-over unit designed for extending over scrap dumpsters.
- Optional side guards or flared in-feed hoppers available to direct scrap & chips onto the magnetic elements.
- Taller side guards with drain tubers or perforated side guards for coolant.
- Manganese slider-bed option available for additional wear resistance.

Medium-Duty MagSlide® Conveyors

Horizontal to inclined conveyors are ideal for removing small parts, chips and scrap from machining centers throughout your plant.

Style A

- The 4-1/2" frames come in 10", 12", 15" and 18" widths and are well suited for machining, milling, stamping, slitting and forming operations.
- For especially demanding applications, powerful rare earth magnets can be substituted in place of the standard ceramic magnets.
- It is a simple straight horizontal or inclined conveyor to convey parts or scrap from a machine to a dumpster.

Style B

- It is a straight horizontal to inclined conveyor to convey parts or scrap from a machine to a dumpster.
- These conveyors are also very commonly used in sealed submerged coolant applications or with coolant tanks included for quenching applications.

Style C

- Well suited for machining, milling, stamping, slitting and forming operations.
- It is a straight horizontal to inclined conveyor with top horizontal extensions to convey parts over a dumpster.
- Optional mobile bases are available.

Style D

- Captures and moves light ferrous parts and chips in tight spaces.
- Space-saving 3 1/8 " high frames require less than 4" of vertical clearance.
- Designed for use where space is limited and conveyed materials are relatively small, these units fit easily under press dies and at the discharge of many machine tools.

Powertrac® Conveyors

Powertrac Conveyors are the perfect solution for challenging automated conveying applications. Powertrac conveyors are built with robust aluminum t-slotted frames and knurled drives with rack and pinion take-up. They allow us to give you a custom fit at an off-the-shelf price. We can provide either an individual conveyor or a complete automation system. Save Time, Labor, and Increase Efficiency.

Select Features

Easy maintenance through v-guided belts that stay centered even with side-loading, sealed precision, self-aligning bearings, knurled drive pulleys, individual adjustable tail ends and quick and simple belt changes.

- Powertrac® conveyors transform time-consuming part and scrap removal operations into automated procedures.
- All PowerTrac models are built with aluminum frames that allow us to give you a custom fit at an off-the-shelf price.
- These sturdy, dependable low profile aluminum-frame conveyors measure just 1-3/4" high, 2" to 24" wide, up to 20' long and are engineered for easy setup, reduced maintenance, and trouble-free operation.
- PowerTrac frames are designed to facilitate bolting on special accessories and hardware to monitor or control operation.
- Standard V-guide tracks let you use V-guide belts when you have to handle unbalanced loading.
- Exclusive Sure-Trac V-guide belt tracking keeps belts centered even when side-loaded or in reversing applications.
- Tough, clear anodized aluminum frames are tempered to resist scratching.
- Multi-mount T-slots greatly simplify mounting and adjusting accessories such as supports, side guards, and controls.
- Slim-sided frames maximize belt width, fit easily into tight spaces, and facilitate side transfers.
- Posi-Trac knurled drive pulleys maintain positive belt contact and reduce slippage even under heavy loads. V-guided pulleys and sliderbeds are standard on all PowerTrac conveyors.

- Pulleys are always flush to conveyor ends, which facilitates in-line product transfers.
- Flush-side frame design allows interchange of various side guard options with unique clamping systems.
- Optional integral high-side frame allows side-mounted belt wipers to contain product on belt.
- Adjustment scale on tensioner ensures even adjustment of both sides.
- Optional decorative T-slot covers fit flush and keep dirt and oil out of slots for easy wipe-down cleaning.
- Other options include magnetic and non-magnetic slider beds, a host of drive options, supports, controls, sensors brackets, and side guides.

Low-Profile Conveyors

Our standard-duty and heavy-duty low-profile conveyors are built withstand punch presses, automated operations, under-press jobs, and more.

- Individually mounted or gang driven motors available.
- Varying belt width sizes available based on your facility needs.
- Easy maintenance procedures reduce downtime and maximize efficiency
- Durable construction ensures long product lifespan

Standard-Duty Low-Profile Conveyor (SLPC)
Requiring only 1-13/16 inch in clearance to the top of the belt, these rugged low-profile conveyors are built to withstand the punishment of punch press and automated applications. These compact, highly popular units can significantly increase material handling efficiency at your facility.

- Rugged construction takes the abuse of throwing in and out of dies on bolster plates.
- Magnetic holding power stabilizes parts and scrap as they drop out of the overhead die.
- Nonmagnetic models are available for applications that do not require magnetic holding.

- Cleated belts can be used to keep parts moving smoothly on horizontals and inclines.
- Individual or gang driven motor options available for both magnetic and nonmagnetic models. One motor can drive a series of standard-duty low-profile conveyors in forward or reverse direction.
- Easy access to replacement and maintenance parts make for worry free maintenance. Belts are quickly replaced in minutes, making for worry free maintenance.
- Belt width sizes from 2″ to 12″ wide based on your application needs.

--Individual conveyor drive options offer you the choice of a top or bottom mounted motor that can be mounted on the left or right side of the conveyor.

--Gearmotor options include fixed speed single-phase, fixed speed 3-phase, air motor, and variable speed single-phase, with special drives available on request.

Heavy-Duty Low-Profile Conveyor (HLPC)
Able to handle part and scrap removal in high-speed, heavy-load, and other demanding applications. The HLPC was designed to handle the toughest under-press jobs day after day while requiring only minimum maintenance.

- For use in high-capacity, high-speed, oily applications.
- Requires 1-11/16" clearance and provides continuous, low-maintenance operation.
- Versatile and simple mounting arrangements enable fast and easy setup of equipment.
- Can be individually mounted or gang driven from common drive.
- The universal support locator system allows you to mount HLPCs anywhere you need them along the length of the support system bracket on front of bolster plate.
- Mobile base allows equipment to be moved from press to press.

- Multiple belt options available to optimize performance.
- Available belt widths range from 2" to 30" wide.

--Three different gearmotor options, all totally enclosed and fan cooled.

--Individual conveyor drive options offer you the choice of a top or bottom mounted motor that can be mounted on the left or right side of the conveyor.

Parts Retrieval Conveyors

De-burring Steel Sheet Metal. Magnetic parts retrieval conveyors are ideal for use in applications that use de-burring bowls to de-bur steel sheet metal, stamped, or machine parts. They are a safe, efficient way to retrieve parts from a de-burring bowl and separate them from the de-burring media.

Select Features

- Permanent magnetic head pulleys reach deep into bowls and "grab" ferrous parts out of the de-burring media. The permanent magnetic conveyor takes the ferrous parts and conveys them up and over the bowl rim. Then it discharges the parts into a bin or tote.
- Plate or loop demagnetizers can be installed in the conveyor frame itself before the part is discharged or in a discharge chute.
- Economical manual adjustable unit available as well as a more automated unit, featuring screw actuators that raise, lower and tilt the unit with a push button controller.
- Mobile base to easily move the unit between multiple bowls.

Standard Frame Conveyors

Bunting® pre-engineered magnetic standard frame conveyors are used for conveying ferrous parts such as bolts, nails, stamped parts or assemblies around the plant, from one machine to the next operation, or to stabilize parts in feeding applications and to convey larger ferrous scrap out of a press over to a dumpster. They are a highly economical choice, featuring low initial cost, low maintenance, and long-term durability. These conveyors also save valuable floor space by moving materials vertically or up and over a machine. Magnetic conveyors help maintain a steady, uninterrupted flow of material and product often at higher rates than are practical with non-magnetic units.

Vertical Nose-over Standard Frame Conveyors

- Designed with permanent magnetic rails to hold, maintain control, turn over, or convey your specific parts.
- Available in 30-45-60-75-90 degree angles and in belt widths from 4" to 60" wide.
- 6-1/2" thick frames are constructed with modular sections for layout and design flexibility.
- Dozens of options available to optimize conveyor effectiveness.
- Multiple magnetic rail options available to secure and maintain part positioning.

Horizontal Magnetic & Non-Magnetic Standard Handling Conveyors

- Designed with the size and strength for handling long horizontal runs.
- Built to run either fabric or plastic mattop belts for long trunk line applications.
- Best choice to hold down parts in buffing and de-burring applications or magnetically turning parts over.
- Fixed supports and mobile bases available.
- Designed in both magnetic and non-magnetic transfer conveyor applications.
- Bunting engineers can combine into plant systems to convey parts throughout your plant.

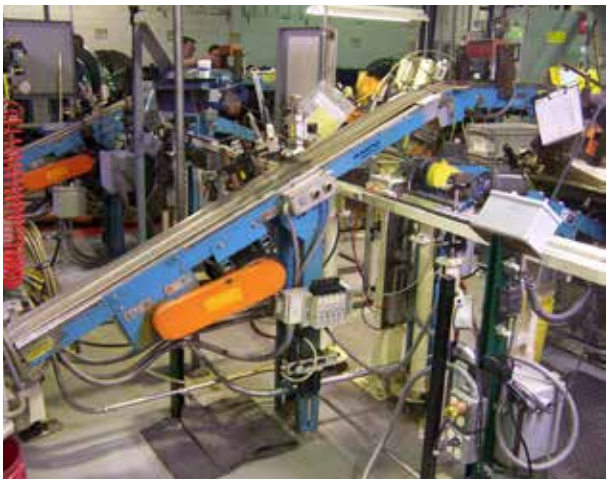
Medium Frame Conveyors

Bunting medium frame conveyors provide a rugged, smaller-framed conveyor for handling parts, assemblies or scrap in both non-magnetic and magnetic applications. These conveyors fit into tough, tight fitting applications where space is limited and larger, bulky conveyors fail to fit. Their frames are just 3½" thick and only 2¾" wider than their conveyor belts, but their robust steel-welded construction allows them to handle the toughest jobs just as well larger conveyors. These conveyors provide an economical solution for applications such as pulling parts out of a machine, conveying parts down long trunk lines, or controlled feeding of parts and sheets into press applications.

Boasting an economical, simple design, medium frame conveyors come with either adjustable fixed supports or a mobile base for portable applications. Bunting engineers can add a magnetic element to stabilize ferrous parts, maintain product spacing or hold a part down through a buffing or de-burring process. Medium frame conveyors offer a custom engineered material handling solution at an affordable price designed specifically for your application.

Horizontal Medium Frame Conveyors

- Available in a variety of horizontal and inclined shapes and sizes.
- Able to be combined with an assortment of magnetic rail options, belts, side guards, supports, drive and control options.
- Tough rubber vulcanized pulleys on precision bearings designed to handle heavy loads on conveyors from 2' long to 100' long.
- For applications needing specific magnetic stability and spacing, these medium framed conveyors are matched with one of our many permanent magnetic ceramic or neo rare earth rails to properly hold and convey your specific parts.
- Available for use in inverted magnetic transfer conveyors for transferring ferrous parts from one conveyor to the next by using an overhead magnetic conveyor.



Medium Frame Conveyors

Inclined Medium Frame Conveyors

- Available in either straight inclined or nose-over incline units.
- Offering economical compact frames for tight fitting applications where parts need to be conveyed from one operation to another or up into an orientation bowl or feeder hopper.
- Constructed with a rugged frame that still allows for portability, and is fully adjustable.
- Adjustable mobile bases are designed for your application – whether you need manual adjustable supports, screw ratchets or hydraulic jacks, you have the flexibility to move these conveyors between machines or applications.

Vertical Medium Frame Conveyors

- Economical elevator conveyor is ideal to convey parts up and out of a hopper up into an orientation bowl or a machine in-feed hopper.
- Small hoppers from ½ to 4 cubic feet can be designed and provided for free flowing parts or vibratory feeder trays that can then be magnetically conveyed up vertically to save floor space with a variety of magnetic rails.
- Provides a controlled flow or spacing of parts without product damage.

Magnetic Lawnchair Conveyors

Magnetic lawnchair conveyors are designed for conveying steel parts from under machine presses, as well as to automate scrap and parts removal. They eliminate the need to have to struggle with heavy, hard-to-handle totes, as well as eliminating the common problem of part and scrap overflow on the production line.

- Parts or scrap are magnetically held to the belt and transferred to the incline up and out from under a press.
- Conveyors can run along the side of a die and be fed by multiple low profile conveyors up to a scrap dumpster.
- Powered brushes are available and recommended to be placed under the discharge pulley where heavy concentrations of oil or small slugs are present.
- Optional skid plates are available where lower in-feed elevations are required.
- They maintain positive magnetic control and movement of ferrous materials from beneath the bolster plate area and out the back of the press into hoppers or containers.
- The cantilevered design allows the horizontal extension to be positioned under the machine to retrieve ferrous materials.

Parts Handling MOVE-IT™ Conveyors

MOVE-IT Conveyors are available in stock sizes, meant to fit common conveyor dimensions, and can also be custom-designed to fit your unique conveying needs at no additional charge. These conveyors are able to be custom-ordered in a wide range of lengths and widths to fit your application.

MOVE-IT Style A– Straight Frame

- Ideal for horizontal or incline conveying to grinders, totes or onward to the next work station.
- Also serve under-press applications, box transfer and scrap removal.
- An optional built-in chute collects parts or scrap for transport.
- Standard belts can be used for 10-degree inclines. For higher angles, cleated belts keep materials moving.

MOVE-IT Style B – Hockeystick

- Ideal for receiving parts that are discharged underneath machinery in order to convey them to totes or onward to other conveyors. Available inclines are 30º, 45º, and 60º.
- Standard belts are durable PVC with 1.5-inch cleats and polypropylene belts with 2-inch cleats, both on 16-inch centers, allowing for exceptional holding of materials being conveyed.
- Standard infeed flaps contain product and prevent spillage.

MOVE-IT Style C – Z-Shape

- Combines the capabilities of horizontal and incline conveyors in a single unit.
- Best for collecting parts from underneath machinery and conveying them to totes or other conveyors. Available inclines are 30º, 45º, and 60º.
- Standard fabric belt is durable PVC with 1.5-inch high cleats on 16-inch centers, allowing for exceptional holding of materials being conveyed.
- Standard infeed flaps contain product and prevent spillage.

MOVE-IT Style D – Noseover

- Receives parts from an overhead robot and lowers them to an operator or a tote, can also be used to elevate parts to totes or grinders.
- Can include high-friction or cleated belts, depending on the part and the incline. Standard incline angles are 30º, 45º, and 60º.

MOVE-IT Style E – Elevator

- Receives small parts from overhead operations and conveys them to consolidation areas.
- Standard fabric belt is durable PVC with 1-inch cleats on 6-inch centers. Higher cleats are recommended for steep inclines to ensure the most efficient holding of material. Available inclines of 45º, 60º and 75º.
- Comes equipped with standard infeed hoppers and discharge chutes.

Magnetic Stacking, De-Stacking, and Timing Belt Transfer Conveyors

Heavy-Duty Conveyors with Precision End Weldments

Heavy-duty conveyors with precision end weldements are best used for accurate gang mounting installations. They are precision machined, equipped with knurled and crown pulleys, as well as featuring heavy-duty self-aligning drive bearings for extended life.

Magnetic Stacking and De-Stacking Conveyors

Bunting® stacking modules can be configured to take sheets or blanks from your cut-to-length operation and then transfer, index, and stack them at pre-selected destination points. Stampings can then be conveyed away from your press die area into a stack. A magnetic sheet fanner unit can be installed to fan and separate stacked parts or blanks and feed them one at a time into production machinery. As the ferrous sheets or parts are acquired and magnetically fanned, they are separated and lifted one at a time by suction cups to the overhead magnetic conveyor and transported to the next workstation.

- Available for either standard horizontal (sheet on top) or inverted position (sheet on bottom) configurations.
- Available for gang mounting and driven to handle sheets up to 120″ wide and up to 180″ long.
- Individually driven MDC conveyors can be utilized for small sheets.
- Optional proprietary permanent magnetic switches available for accurate sheet stacking.
- 4″ wide belted conveyors ganged to handle wider sheets.
- Belt speeds range from 20′ to 300′ feet per minute.

Magnetic Stacking, De-Stacking, and Timing Belt Transfer Conveyors

Timing Belt Transfer Conveyors

Bunting® timing belt conveyors add the advantages of precise speed control to the productivity enhancing features of our stacking/destacking line. Objects stay in position, allowing for integration with production line operations and robotics. Timing belt conveyors let you process parts as they are being conveyed and allow on-conveyor indexing and multiple pick-up options. Precise conveyor belt timing maintains the spacing of sheets, blanks, and parts from initial placement on the conveyor until they are removed by robotic devices, transferred to another conveyor, or stacked.

- Typically used in the standard horizontal (sheet on top) position.
- Designed to be gang driven together to provide precise transfer of sheets in precision automotive shear – welding – dimping lines.
- Usually provided with a floor support table which has linear bearing to move and adjust the conveyors laterally as required, or to remain fixed in place.
- Heavy-duty urethane timing belts accurately maintain sheet position and orientation.
- Each belt in the system can index the sheet exactly the same speed and distance. This maintains the precision orientation and can be used to run sheets into locating pins.
- Made from either aluminum or stainless steel side frames and equipped with precision heavy-duty self-aligning bearings and precision timing belt drives.
- Typically gang mounted and driven to handle sheets up to 120″ wide and up to 120″ long.
- Utilizes proprietary permanent magnetic switches for accurate sheet release.
- The remainder of the conveyor has permanent magnetic rails for firmly holding the sheets to the timing belts.
- Designed in two styles: nose-over end drive for conveyors under 100″ long and center bottom drives for longer conveyors.
- Mounting table with side skate support side rails.

Magnetic Sheet Fanners

Pry Apart Oily, Sticky, Polished or Pre-Finished Ferrous Sheets

Magnetic sheet fanners are customizable for you and provide a faster and safer alternative to separate ferrous sheets. The magnetic field is transferred to the steel blanks which then take on the magnetic pole to repeal from each other.

Generation I Switchable Patented Neo Magnetic Fanners

- Designed for automation lines for fanning sheets on robotic lines.
- Fanners are switchable and can be turned on or off to place a new stack of sheets in position or to re move a stack of sheets.
- Turned off fanners are completely non-magnetic for safe sheet movement.

Machine Mount Permanent Magnetic Sheet Fanners

- Tapped mounting holes allows for mounting directly to framework or on retractable arm.
- Available in either permanent magnetic ceramic or neodymium rare earth configurations.
- Tapered fronts for smooth sheet movement.

Pivoting Permanent Magnetic Sheet Fanners

- Complete with a back support bearing frame which can be mounted to your framework.
- Ideal for fanning irregular shaped parts. They pivot on the bearings around the blank stack to contact with the irregular sheets.
- Available in either permanent magnetic ceramic or neodymium rare earth configurations.

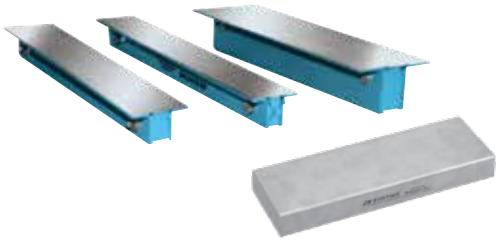
Retractable Pin Sheet Fanners

- Pins at bottom of fanner extend to support the last couple of blanks as a new stack of blanks is feed up from the bottom into position.
- Pneumatic pins retract so that the stack can then be raised up into the fanning position, allowing for continuous press operation.

Permanent Magnetic Conveyor Components: Easy Installation for Demanding Applications

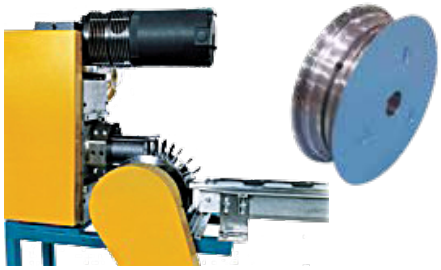
The wide selection of Bunting permanent magnetic components includes everything you need to modify an existing system or design your own. Our permanent magnetic conveyor components offer easy installation and years of trouble-free service in even the most demanding applications. Each component is available in a variety of sizes and magnetic strengths. We'll design to your specifications or help you select what you need to build or improve your own material handling system.

Magnetic T-Rails and Plate Rails
Provide an economical solution for those lighter applications that need a magnetic field to secure and stabilize parts both in the horizontal and vertical directions. Plate rails are available in both neodymium and ceramic options to optimize parts handling effectiveness relative to application.

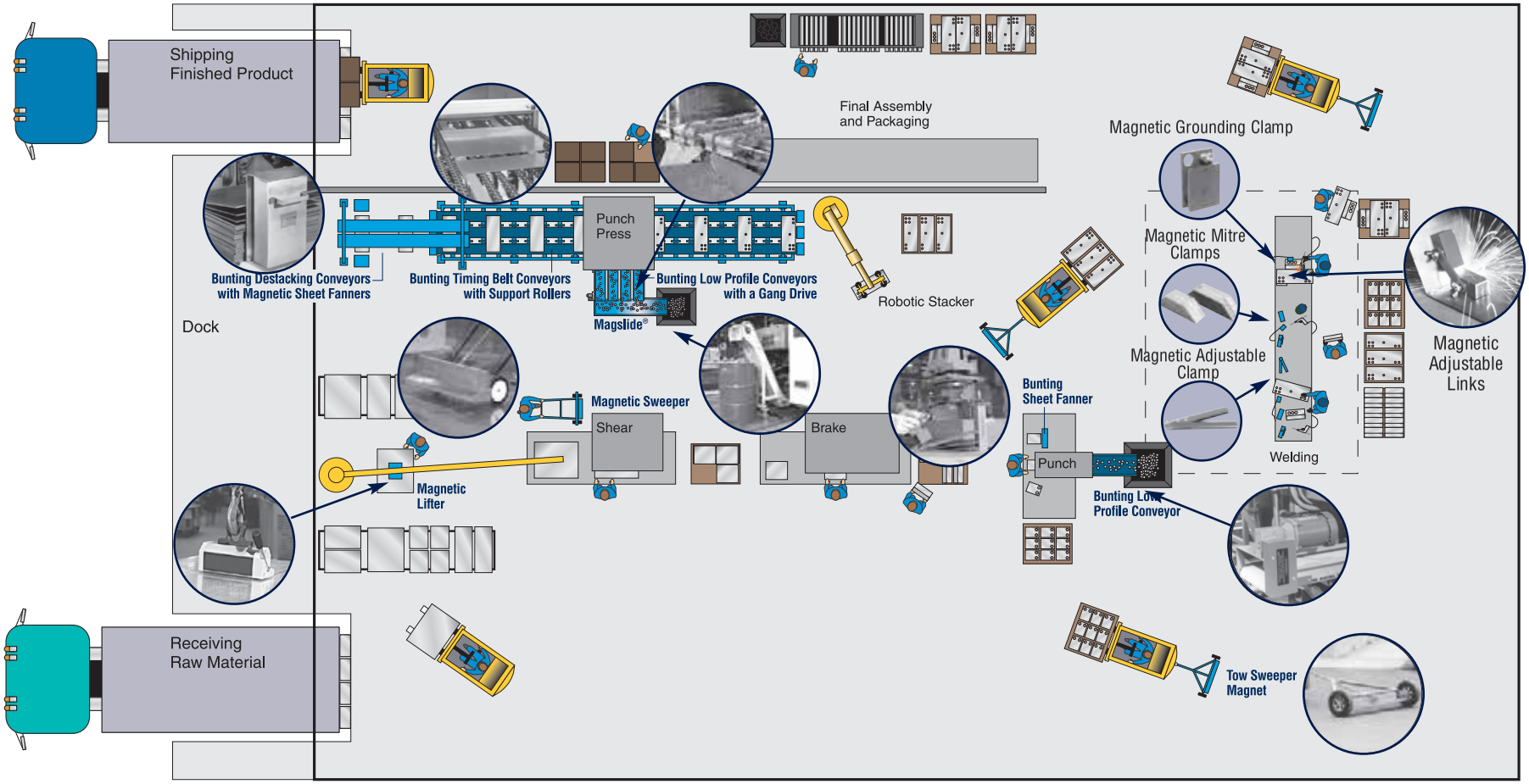


Magnetic Pulleys
Used at the end of your conveyor to turn ferrous cans and parts over, change directions or separate out ferrous from non-ferrous materials.

Magnetic Up-Stacking Pulleys
Used to take a horizontal flow or stream of lids which are driven into the pulley – turn them up on their edge – and magnetically drive them into a sleeve to feed a machine in a filling station.



Magnetic Drive Rollers and Drive Roller Assemblies
Engineered for trouble-free, efficient handling of sheet stock ranging from .010" tin plate to over ¼" thick sheet stock.


Shipping
Finished Product
Receiving
Raw Material
Dock
Final Assembly
and Packaging
Punch
Press
Bunting Destacking Conveyors
with Magnetic Sheet Fanners
Bunting Timing Belt Conveyors
with Support Rollers
Bunting Low Profile Conveyors
with a Gang Drive
Magslide®
Robotic Stacker
Magnetic Sweeper
Shear
Brake
Magnetic
Lifter
Bunting
Sheet Fanner
Punch
Bunting Low
Profile Conveyor
Magnetic Grounding Clamp
Magnetic Mitre
Clamps
Magnetic Adjustable
Clamp
Welding
Magnetic
Adjustable
Links
Tow Sweeper
Magnet

BUNTING™

Pure success: What the Bunting name means to your recycling business.

Bunting is proud to provide innovative, custom-designed solutions for a wide range of industries, including metal working, food, plastics, recycling, and mining. Our equipment is durable, dependable, and driven by the needs of our customers and the modern challenges they face. Bunting has been a family –owned, family-led company since 1959. Sixty years later, we have made massive strides in developing new technology to meet the unique needs of the 21st century, while remaining committed to delivering the highest quality products accompanied by excellent customer service.

We invite you to experience our customer service and products for yourself. Contact your Bunting representative today for more information or to obtain a specific quote.

Bunting-Newton
500 S. Spencer Road | P.O. BOX 468
Newton, KS 67114 | USA
800.835.2526 | 316.284.2020
Fax: 316.283.4975
Email: Sales.Newton@BuntingMagnetics.com
www.BuntingMagnetics.com

GLOBAL. MAGNETIC. FORCE.™

MANUFACTURING & DISTRIBUTION LOCATIONS:

BUNTING - NEWTON
500 S. SPENCER ROAD | P.O. BOX 468
NEWTON, KS 67114 | USA
SALES.NEWTON@BUNTINGMAGNETICS.COM
800.835.2526 OR 316.284.2020

BUNTING - ELK GROVE VILLAGE
1150 HOWARD STREET
ELK GROVE VILLAGE, IL 60007 | USA
SALES.ELKGROVEVILLAGE@BUNTINGMAGNETICS.COM
800.232.4359 OR 847.593.2060

BUNTING - DUBOIS
12 INDUSTRIAL DRIVE
DUBOIS, PA 15801 | USA
SALES.DUBOIS@BUNTINGMAGNETICS.COM
1-800-437-8890 OR 1-814-375-9145

BUNTING - BERKHAMSTED
NORTHBRIDGE ROAD,
BERKHAMSTED, HERTFORDSHIRE, HP4 1EH | UK
SALES.BERKHAMSTED@BUNTINGMAGNETICS.COM
+44 (0)1442 875081

BUNTING - REDDITCH
BURNT MEADOW ROAD, NORTH MOONS MOAT,
REDDITCH, WORCESTERSHIRE, B98 9PA | UK
SALES.REDDITCH@BUNTINGMAGNETICS.COM
+44 (0) 1527 -65858

BUNTING - CHINA
NORDIC INDUSTRIAL PARK CO., LTD.
A3 BUILDING, 89 JINCHUANN ROAD
ZHENHAI, NINGBO 315221 | CHINA
+86 (574) 86305971

BUNTINGMAGNETICS.COM

2019 Metal Stamping & Fabricating11/01/2019
REV1