

# BUNTING

Magnetics Co.



## Stainless Steel Separation Technology

Inventor of Magnetic Stainless Steel Separation



Designed & Manufactured In The USA

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# Big Problems.

## Tired Of Fighting Stainless Steel?

**Small Fraction (<1")**, Purifying smaller fraction of stainless steel for higher purity for domestic sales



**Mid Fraction (<2")** Magnetically separating out stainless steel from dirty Zurik or Finder streams



**Large Fraction (<5")** Magnetically pulling out larger stainless steel from dirty Zurik streams



**ICW Wire** Magnetically pulling stainless out of dirty streams to remove stainless before wire chopping line

# Big Solutions from Bu

## 2 Machines to Hold, Attract and I

### HISC™ High Intensity Separation Conveyor™

#### Magnetic Separation of Small and Mid-Sized Stainless Steel 1/2" to 2"

The first of its kind in the industry, the HISC™ High Intensity Separation Conveyor™ incorporates extremely high gauss fields, neodymium rare earth magnets and a field-tested design to achieve maximum stainless steel separation of smaller stainless steel fractions. Through Bunting® Magnetics Engineering and Magnetic Finite Element Design software technology we've developed technology to attract, hold and extract paramagnetic work-hardened 300 stainless steel metal and chips from your product stream. Recycled chopped wire, plastic flake, e-scrap and more can now be stainless-free.

<b>Pulley Diameter</b>	4" and 6" extreme high intensity field
<b>Pulley Construction</b>	Neodymium Exposed Pole circuit
<b>Belt</b>	2-ply urethane with 30mm flexwall and 1/2" v-guide cleats on 12" centers
<b>Belt Speeds</b>	60-120 fpm variable speed with VFD depending on application
<b>Sideguards</b>	Formed 3/16" with flexwalled belt to seal off and contain flow
<b>Frames</b>	Formed 3/16" with stainless steel frame at disc and forklift slots for installation
<b>Motor</b>	3/4 to 1 1/2 hp 3ph 60 hz
<b>Capacity</b>	500-1,000 lbs per foot/per hour depending on application



*"With the HISC, we are able to successfully separate 300 pounds of stainless steel from our scrap per day with an estimated ROI in less than a year! Bunting has built something no one else in the industry has."*

*- Pat Dooley / Pacific Steel & Recycling / Boise, Idaho*

*"In the business of metal recycling, our profitability depends on the volume of recovered product and the purity of that product. Bunting Magnetics' High Intensity Separation Conveyor, and its unmatched ability to get stainless steel out of our mid-sized fraction, ensures we get the purity needed to sell to our domestic smelters."*

*- Kevin Gershow / Gershow Recycling / Medford, NY*

# Bunting Magnetics Co.

## Extract Stainless Steel Metals

### SSSC™ Stainless Steel Separation Conveyor™

#### Magnetic Separation of Small to Large Sized Stainless Steel 1" to 5"

Discover the latest invention in stainless steel separation from Bunting® Magnetics Co. Now, you can separate irregular shaped paramagnetic work-hardened stainless steel – 4" to 5" in size – from your recycled materials or in copper wire application. Thanks to a patent-pending core design and a revolutionary configuration of high-intensity neodymium rare earth magnets, maximum separation of big pieces of work-hardened stainless steel – materials once thought impossible to separate – are now easily attracted and extracted for the purest product possible.

<b>Pulley Diameter</b>	8" - larger circuit to hold larger stainless steel fractions
<b>Pulley Construction</b>	Patented Neodymium Cross-Grid Pattern encased in stainless steel
<b>Belt</b>	2-ply urethane with 30mm flexwall and ½" v-guide cleats on 12" centers
<b>Belt Speeds</b>	60-120 fpm variable speed with VFD depending on application
<b>Sideguards</b>	Formed 3/16" flexwalled belt to seal off and contain flow
<b>Frames</b>	Formed 3/16" with stainless steel frame at disc and forklift slots for installation
<b>Motor</b>	¾ to 2 hp 3ph 60 hz
<b>Capacity</b>	General Capacities are between 500 to 1,000#/hr per foot width of conveyor on smaller stainless and wire fractions. Capacities between 1,000#/hr to 2,000#/hr on larger fractions.



Divirter Adjustment Wheel



Optional Air Knife

## Applications

- **ASR Stainless Steel Separation / Zurik Purification**

*Magnetically pulls out stainless steel recovering from the Finder stream or purifying a dirty zurik stream.*

- **Appliance Recycling Stainless Separation**

*Magnetically recovering lost stainless steel to improve profitability*

- **ICW Wire Separation / Wire Chopping Purification**

*Magnetically pulls out stainless steel to clean wire so it can be chopped or processed by pulling SS from chopped wire for purification*

## Specifications

### HISC™ High Intensity Separation Conveyor™

Model Number Selection Guide

Pulley Diameter	Belt Width	Conv Length	Model Number
4"	12"	36"	HISC 4-12-36
4"	18"	36"	HISC 4-18-36
4"	24"	48"	HISC 4-24-48
4"	36"	72"	HISC 4-36-72
4"	48"	96"	HISC 4-48-96
6"	18"	36"	HISC 6-16-36
6"	24"	48"	HISC 6-24-48
6"	36"	72"	HISC 6-36-72
6"	48"	96"	HISC 6-48-96
6"	60"	120"	HISC 6-60-120

General Capacities are between 500 to 1,000#/hr per foot width of conveyor.

### SSSC™ Stainless Steel Separation Conveyor™

Model Number Selection Guide

Pulley Diameter	Belt Width	Conv Length	Model Number
8"	24	48	SSSC 6-24-48
8"	36	72	SSSC 6-36-72
8"	48	96	SSSC 6-48-96
8"	60	120	SSSC 6-60-120
8"	72	120	SSSC 6-72-120

General Capacities are between 500 to 1,000#/hr per foot width of conveyor on smaller stainless and wire fractions. Capacities between 1,000#/hr to 2,000#/hr on larger fractions.



Electro Drum Magnet



Eddy Current Separation Conveyor



Permanent CrossBelt Separator



Electro Crossbelt Separator



Permanent Magnetic Separation Pulleys



Conveyors



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