

APPLICATIONS

- **ASR Stainless Steel Separation / Zurik Purification**  
Magnetically pulls out stainless steel recovering from the Finder or Zurik streams and purifying stainless steel fraction streams.
- **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 that it can be chopped and provides final purification of copper streams by ferrous and stainless steam removal.

SPECIFICATIONS

HISC® High Intensity Separation Conveyor®  
Model Number Selection Guide

Pulley Diameter	Belt Width	Conveyor Length	Model Number
150mm	450mm	900mm	HISC 45
150mm	600mm	1200mm	HISC 60
150mm	900mm	1800mm	HISC 90
150mm	1200mm	2400mm	HISC 120
150mm	1650mm	3000mm	HISC 165

SSSC® Stainless Steel Separation Conveyor®  
Model Number Selection Guide

Pulley Diameter	Belt Width	Conveyor Length	Model Number
200mm	600mm	1200mm	SSSC 60
200mm	900mm	1800mm	SSSC 90
200mm	1200mm	2400mm	SSSC 120
200mm	1500mm	3000mm	SSSC 150
200mm	1950mm	3600mm	SSSC 195
300mm	900mm	1800mm	SSSC 90
300mm	1050mm	2100mm	SSSC 105
300mm	1200mm	2400mm	SSSC 120
300mm	1500mm	3000mm	SSSC 150
300mm	1950mm	3600mm	SSSC 195



Electro Drum Magnet



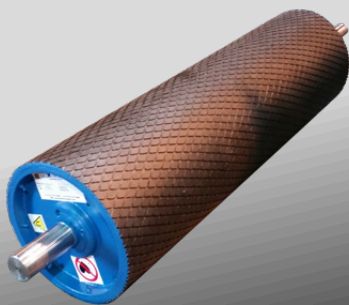
Eddy Current Separators



Permanent Overband Magnets



Electro Overband Magnets



Magnetic Conveyor Pulleys



Metal Detectors



A Bunting® Magnetics Company

STAINLESS STEEL  
SEPARATORS



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# Stainless Steel Solutions

# 2 Machines to Hold, Attract and Extract Stainless Steel Metals

**HISC®**  
High Intensity Separation Conveyor®



Chopped Copper Wire



ICW Insulated Copper Wire



Shredded Small-Fraction Stainless Steel

**SSSC®**  
Stainless Steel Separation Conveyor®



Shredded Small-Fraction Stainless Steel



Shredded Mid-Fraction Stainless Steel



Shredded Large-Fraction Stainless Steel

## HISC® High Intensity Separation Conveyor®

### Magnetic Separation of Small and Mid-Sized Stainless Steel from 10mm to 50mm

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>	150mm pulley emits extreme high intensity field
<b>Pulley Construction</b>	Neodymium Exposed Pole circuit
<b>Belt</b>	2-polyurethane with 30mm flexwall and 12.5mm v-guide cleats on 300mm centers
<b>Belt Speeds</b>	0.3-0.6m/sec 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>	0.5 to 1.5kW 3ph 50 Hz
<b>Capacity</b>	750-1,500 kg/ meter, per hour, depending on application



*"The HISC has done everything that Bunting Magnetics said it would do! It has been very helpful in purifying my chopped copper wire material. I am extremely pleased with the performance of the HISC."*

**Chris Reeves**  
Copper State Metals / Phoenix, Arizona

*"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."*

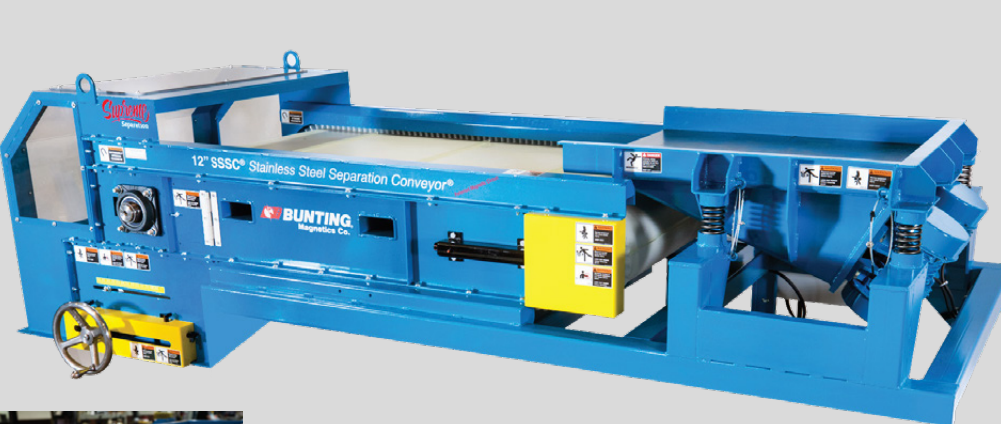
**Kevin Gershow**  
Gershow Recycling / Medford, New York

## SSSC® Stainless Steel Separation Conveyor®

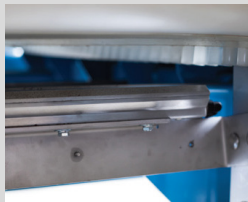
### Magnetic Separation of Small to Large Sized Stainless Steel 10mm to 50mm

Discover the latest invention in stainless steel separation from Bunting® Magnetics Co. Now, you can separate up to 94.1% irregular shaped paramagnetic work-hardened stainless steel – 4" to 5" in size – from your recycled materials or in copper wire application. Thanks to a patented magnetic circuit design 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>	200mm and 300mm- larger circuit to hold larger stainless steel fractions
<b>Pulley Construction</b>	Patented Magnetic Circuit design encased in stainless steel
<b>Belt</b>	2-polyurethane with 30mm flexwall and 12.5mm v-guide cleats on 300mm centers
<b>Belt Speeds</b>	0.3-0.6m/sec 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>	0.5 to 1.5kW 3ph 50 Hz
<b>Capacity</b>	General Capacities are between 750 to 1,500 kg/meter, per hour on smaller stainless and wire fractions. Capacities between 1,500 to 3000kg/meter, per hour on larger fractions.



Optional Vibratory Tray with AR400 impact plates for heavy material



Optional Air Knife



\*Field test and lab results

Scan for more product information and to see a 360 ° 3D Video