

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.

Pulley Diameter	4" and 6" extreme high intensity field
Pulley Construction	Neodymium High Intensity Magnetic Circuit
Belt	2-ply urethane with 30mm flexwall and cleats on 12" centers
Belt Speeds	60-120 fpm variable speed with VFD depending on application
Sideguards	Formed 3/16" with flexwalled belt to seal off and contain flow
Frames	Formed 3/16" with stainless steel frame at disc and forklift slots for installation
Motor	¾ to 1 ½ hp 3ph 60 hz
Capacity	500-1,500 lbs. per foot/per hour depending on application



Chopped Copper Wire



ICW Insulated Copper Wire



Shredded Small-Fraction
Stainless Steel





Holding – Attracting – Extracting Stainless Steel Metals

Bunting Engineers, using world-class Magnetic Finite Element design technology, and extremely strong Neodymium Rare Earth magnetic circuitry have made the HISC™ High Intensity Separation Conveyor™ the best choice for recyclers. Optimized gauss levels on the surface of the pulley and the belt hold, attract and extract your stainless steel alloys. These forces can vary depending on the alloy or the degree of work-hardening done.

Since material alloy, size, shape and gauge can all affect the attractive force, we can test and video your material fraction to make recommendations.



Note: Generally 2” minus fractions work great on 4” diameter HISC™ Pulleys while larger 4” minus fractions need the 6” diameter HISC™ Pulleys.

Typical Industrial Applications

- Auto ASR Stainless Steel Separation
- Zurik Stainless Steel Purification
- Plastic Flake Purification
- Medical Waste Separation
- Electronic Recycling

HISC 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”	72”	HISC 4-24-72
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”	66”	120”	HISC 6-66-120

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

For More Information and Technical Assistance:

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