

PRESS INFORMATION

For Immediate Release

Date: 14th September 2015

Ref: PR0034

Contact: Paul Fears

E-mail: press@buntingeurope.com

New Magnetic Stainless Steel Separator at RWM 2015

On stand 5T152-V153 at RWM 2015, Bunting Magnetics Europe is launching the High Intensity Separation Conveyor (HISC) for the separation of magnetically susceptible stainless steel and fine iron contamination from shredded and granulated materials. The HISC has been designed for use when processing and producing Virgin Plastic Flake, UPVC Window Recycled Plastic, General Reclaimed and Recycled Plastic, Automotive Plastics, Medical Plastics, Recycling Electronics and Reclaiming Secondary Metals. The extremely strong magnetic pulley design opens up new metal separation possibilities and expands the potential for stainless steel recovery and increasing recycled and virgin plastic product purities.

The HISC magnetic pulley has been designed by Bunting Engineers using Magnetic Finite Element Design software. The software has enabled the designers to maximize the magnetic field strength, producing a permanent Magnetic Separator with one of the highest surface gauss intensities in the world. The design provides a relatively low depth of magnetic field, but one that is extremely strong field and is able to attract, hold and separate some of the weakest magnetic material contaminants. Materials like stainless steel razor blades and needles can be removed from of plastic flake materials; shredded stainless steel, small computer screws and sheet metal can be recovered and separated from computer hard drives; tiny



screws and green boards with attached chips can be recovered in computer recycling; and shredded stainless steel can be recovered from secondary metal streams.



The HISC Magnetic Pulley is 100mm (4") in diameter and up to 1200mm (60") in width. Each unit operates with a thin urethane belts, ensuring that the highest possible gauss intensity is generated on the belt surface. The belts run at between 15 and 60 metres per minute, depending on the application, with speeds being adjusted via an inverter. Positioned under the extremely strong discharge Magnetic Pulleys are adjustable splitters chutes for the separated streams of material.

Depending on product densities, particle size and the separation objective (i.e. stainless steel separation or ferrous containment removal), the High Intensity Magnetic Separators Conveyor can process between 700 and 1600 kg per hour per metre width.

Presently, there are 3 different models of HISC to suit different applications and capacities. The HISC60-180 has a feed width of 600mm whilst the HISC100-180 is slightly wider with 1000mm. Both have 1800mm long conveyors. The largest model is the HISC120-240 with a 1200mm wide Magnetic Pulley and 2400mm long conveyor.

Optimised separation involves considering the whole metal separation process with pre-scalping of metals using different designs and strengths of Magnetic Separator and Eddy Current Separator. The HISC is then used to provide the final stage separation of remaining metal and metal contaminated product.

The first HISC in Europe was delivered to a customer in the UK in September 2015 and is presently undergoing commissioning.

At RWM 2015, Bunting will be displaying a production sized HISC and conducting separation demonstrations.

High resolution JPGs of all the images provided with this press release are available from the Bunting Press Office, Paul Fears. Also, for additional information on this recent appointment or any other issue mentioned in this article please contact Paul on 07909 103789 or press@buntingeurope.com or visit www.magneticseparation.co.



Northbridge Road
Berkhamsted
Hertfordshire
HP4 1EH, UK
Tel: +44 (0) 1442 875081