

**t-max**

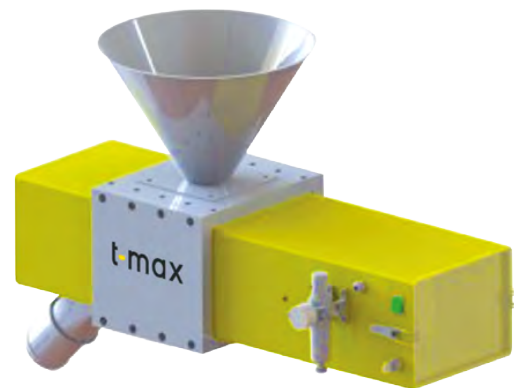
**METAL SEPARATORS**

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### FEATURES:

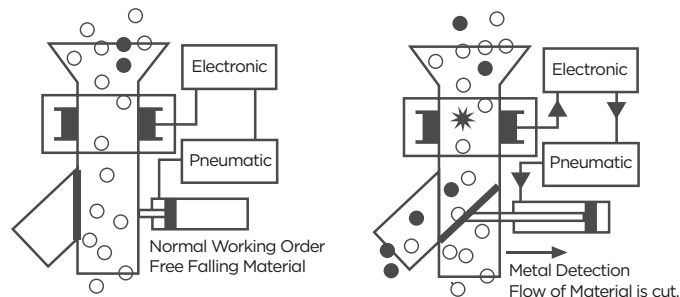
- » Protection of extruders and injection moulding machines
- » Removal of metal from slow or stationary material columns
- » Low installation height
- » Extremely strong housing
- » Own monitoring with diagnosis system
- » Fully-automatic function
- » Proven technology
- » Almost maintenance-free
- » TX-LCS electronic all-metal separators are suitable for metal separation from stationary or slow moving material columns.
- » Slow moving material columns pass the sensor area of the TX-LCS
- » Ferrous or non-ferrous metal parts contained in the material are detected in the detection coil.
- » The detection coil/sensor unit is pushed together with the metal parts by a pneumatic cylinder to the ejection position. Metal contamination is removed on the side together with a small amount of good material. A sluice plate blocks the material supply while this takes place. Due to the very fast material ejection, extruders can also be monitored so that they do not "run empty"
- » After ejection of the metal, the empty sensor unit returns to the initial position and releases the material flow again.

# TX-LCS



Electronic all-metal separators of the TX-LCS ("Last Chance Separator") series are used especially in plastics processing with slow moving or "stationary" material columns. They offer the last chance of detecting damaging metal parts and removing them fully automatically, before these disappear into the intakes of extruders or injection moulding machines. Not only are ferrous metals detected, but also non-ferrous metals such as aluminium, copper, brass etc.

Damage to extruder screws and tools or blockage of hot runner systems are therefore reliably prevented. The stable and extremely strong housing of the TX-LCS separators can also be used for mounting of mixers, driers and small conveying equipment.



Model	TX-LCS 50	TX-LCS 70	TX-LCS 100	TX-LCS 150
Feeding Input (mm)	50	70	100	150
Flow Capacity (max. Kg/h)	500	1200	3100	5000
Sensitivity (mm <sup>2</sup> )*	1,0	1,5	1,5	2,0
Weight (kg)***	30	42	45	60

- It depends on the ease of material flow. This applies to new machines. It is used with special materials. (in large quantities of machines, for example with granules of fiber and metal leaf). It is recommended for units with large feed diameter.
- Maximum sensitivity depends on the diameter of the steel ball. If the material flow is too slow, there may be little loss of precision.
- Body weight (8 kg) not included.

TX-HS

**YOUR ADVANTAGES:**

- » Protection of products, machines and tools
- » Self-monitoring with diagnosis system
- » Fully automatic operation
- » Universal application possibilities
- » Integrated electronics
- » Proven technology
- » Simple assembly
- » Most simple operation
- » Almost maintenance-free



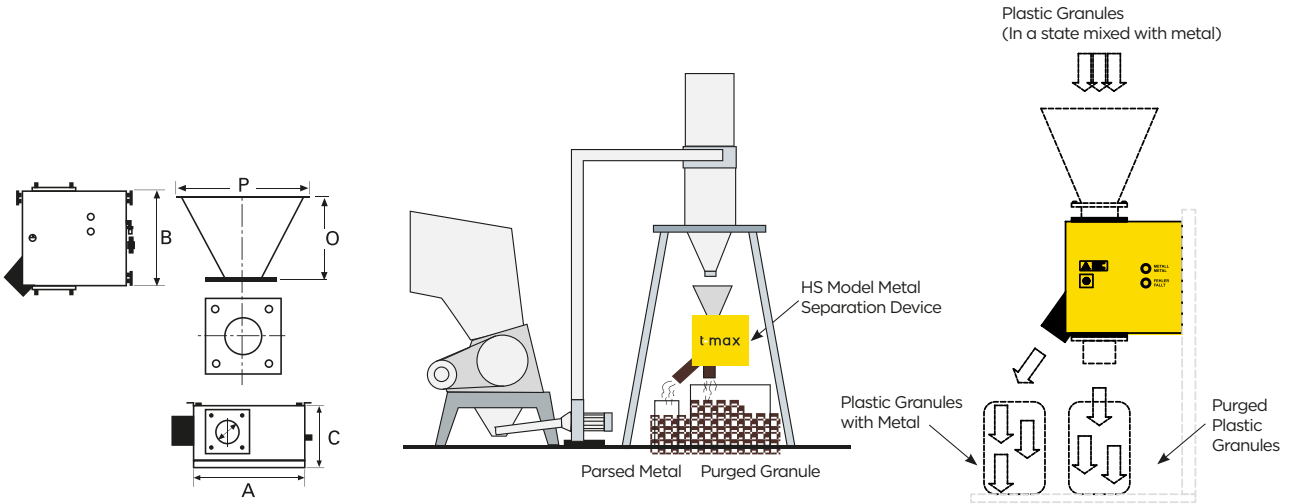
**TX-HS free fall metal separators**

TX-HS electronic all metal separators serve for detection and fully-automatic removal of individually arising metallic contamination in free-falling, free-flowing bulk materials. Not only are metals containing iron (ferrous metals) recognised here, but also non ferrous metals such as, e.g. aluminium, copper, brass, etc.

The result is a practically metal-free product. TX-HS all metal separators protect products, machines and tools from damage through metal contamination, surely, reliably and cost effectively.

**Operating principle**

The free-flowing bulk material drops in free-fall through the shaft of the TX-HS all metal separator. A high frequency alternating current field, produced within an electromagnetic coil, is influenced by metal particles as they fly through the coil. Each metal part sets off an impulse when it falls through the opening of the coil that can be used for control and signal purpose. Metal particles that may be contained in the material are electronically detected as from a certain size and separated fully automatically via a pneumatically operated by-pass from the material flow and ejected.



Model	TX-HS 9050	TX-HS 9070	TX-HS 9100	TX-HS 9150	TX-HS 9200
F	50	70	100	150	200
A	380	380	380	380	380
B	300	380	380	600	600
C	155	210	210	350	350

YOUR ADVANTAGES:

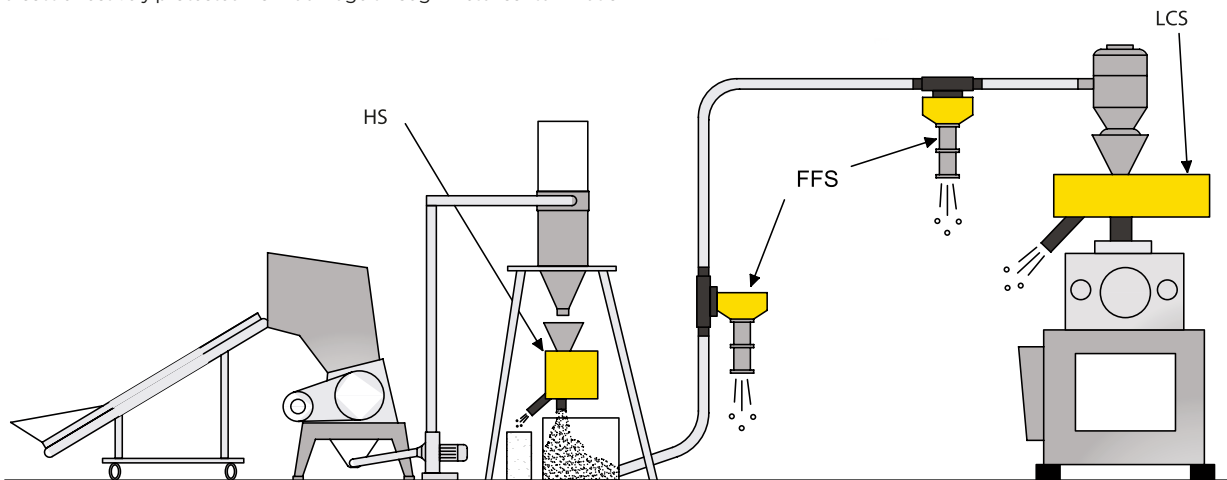
- » Protection of machines, tools, products
- » For continuous or intermittently working systems
- » Available for vacuum or pressure conveying lines
- » Maximum throughput corresponding to the conveying performance of pneumatic conveying lines
- » Special mechanical separation prevents collapse of conveying pressure and flow
- » Self-monitoring with diagnosis system
- » Universal use with a connection flange specific to customer requirements
- » Integrated electronics
- » Proven technology
- » Almost maintenance-free



**TX-FFS metal separators for pneumatic conveying lines**

The TX-FFS series electronic all-metal separators recognise and remove metal particles from bulk materials that are transported in vacuum and pressure conveying lines. The metal recognition and separation takes place "on the fly" with conveying speeds at up to 30 m/s. Special mechanical separation systems are used, depending on the type of conveying (pressure or vacuum conveying, continuous or intermittent). The conveying pressure is maintained during the entire metal separation process.

Apart from ferrous metals, TX-FFS separators recognise and remove all non-ferrous metals. Products, machines and tools therefore are surely, reliably and cost effectively protected from damage through metal contamination.



**Please call us, for other Hamos Products**

Electrostatic Plastic-Metal, Plastic separators, turnkey metal and plastic separation systems.

**KWS Model Electrostatic Sorting Machine**

Fully automated separation system for mixing electrically conductive and non-conductive materials (metal/plastic, etc.)

**EKS Model Electrostatic Sorting Machine**

Fully automated separation system for plastic - plastic mixtures. Technology that enables the complete separation of plastics with different properties from each other

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