



Production Reliability.

**Optimal
machine protection
in the
wood industry**

- Metal detectors
- Metal separators
- Magnet separators





LIGNUM-HX + LICON-HX

Protection of the gate saw & band saw



LIGNUM-HX metal detector

- Detects all kinds of metals such as iron, aluminium, copper, stainless steel, etc.
- Extremely short metal-free zone: Considerably reduced total length facilitates integration in already existing systems.
- V2A stainless steel housing provides improved corrosion protection and interference immunity to electromagnetic pollution.
- Self-explanatory, menu-guided operation with auto-learn mode.

LICON-HX metal detection system

- LICON-HX is an inexpensive complete solution comprising the LIGNUM-HX metal detector and a heavy-duty conveyor belt.
- The components have been specifically designed and developed for the requirements of the sawmill industry.
- LICON-HX is integrated in the conveyor line between log feeder and saw line.



ELS + DLS

Protection of the chipper & hog



ELS metal detector for chipper & hog protection

- The single-layer, single-face ELS detector and the separable DLS tunnel metal detector are used for examining wood remains under a trough conveyor, vibratory conveyor or a material chute.
- They detect all magnetic and non-magnetic metal contaminants (steel, stainless steel, aluminium, ...), even if such contaminants are embedded in the product.
- When a metal is detected, the conveyor system is stopped and a signalling unit is activated.



The passage openings of the DLS metal detectors are matched to the respective application.

S+S Metal Separators



RAPID DUAL

Protection of the pellet press



The RAPID DUAL metal separator removes metals with a minimum loss of good material.

- Detects smallest metal particles of any kind in free-falling, badly pourable bulk materials.
- When a metal is detected, it is separated by a specifically developed reject flap ("Quick Flap System").
- Improves production reliability by way of efficient machine and tool protection.
- Guarantees product quality.



S+S Magnet Separators



Separation of ferrous metals



- Magnet separators remove all ferrous metals. They are used with belt conveyors and material chutes, in free-fall applications, with pipe conveyors, etc.
- Special high-energy Neodymium magnets reliably separate even smallest ferrous metal particles.
- The wood industry especially uses drum, roller, plate and pipe magnets.



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S+S system world



Detecting and separating contaminants:

- Removing contaminants:
- metals
 - plastics
 - glass
 - ceramics, porcelain, stones
 - and many others
- Removing from (good material):
- bulk materials
 - liquids and pastes
 - individually packaged product
 - packed and loose items
- Product types:
- end-products (food, textiles, plastics etc)
 - industrial raw materials
 - recycled materials
- can be integrated into all types of conveyor systems



Detecting and separating sub-standard products:

- Qualitative defects:
- incorrect colour
 - agglomerations
 - breakages
 - air inclusions in packs
 - incorrect positioning / distribution
- Quantitative defects:
- incorrect weight
 - count errors (incorrect number of items in package)
- Product types:
- end-products (food, textiles, plastics etc)
 - industrial raw materials
 - recycling materials
- can be integrated into all types of conveyor systems



Sorting mixed materials into single fractions:

- Types of material:
- glass
 - plastics
 - metals
 - and many others
- Delivery flows:
- bulk materials
 - individually packaged product
- can be integrated into:
- conveying systems
 - bulk material flows

For further information or to discuss your particular application contact one of our specialists.

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