



COVICON

Flax and Hemp Inspection System

Ensuring consistent production and quality

What is it?

The Flax and Hemp Inspection System is an AI Vision Inspection system designed to detect contaminants such as rope, plastic, and other unwanted materials throughout fiber processing. By effectively detecting and eliminating contaminants from the fiber material, customers can ensure uninterrupted production and consistently achieve a pure end-product.

How does it work?

The system comprises of a line scanner camera and an LED light strip mounted onto the conveyor belt. Using AI technology, the system swiftly identifies and detects

undesired materials within the feedstock. When an undesired item is detected, the system promptly sends a signal to halt the machine*. Additionally, the system records an image of the contaminant for further analysis.

Note: the system works best on a matte black conveyor belt.

* Depending on your specific process, it is also possible to integrate an automated system of undesired materials. Contact us at info@covicon.be to find out if this feature can be applied to your process.

USP #01

Fully automatic



LINE SCAN CAMERA
+ LED LIGHT STRIP

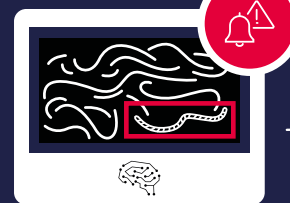


FLAX/HEMP



USP #02

Accurate detection, even in a dusty environment



VISION BOX WITH
TOUCHSCREEN DISPLAY

USP #03

Data logging

What's your challenge?

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Specifications

Hardware

The Flax and Hemp Inspection System features the following hardware components:

- Line scanner
- LED light source
- AI computer
- Speed encoder *
- Vision box with touchscreen display **

* Covicon provides the necessary mounting for attaching the encoder to the existing conveyor belt.

** The standard dimensions of a vision box are 1250 x 875 x 1250 mm. However, for space-saving purposes, the electrical box can be installed separately outside the vision box, resulting in a significantly narrower width of ± 400 mm.

Software

The computer system of the Flax and Hemp Inspection System features specialized AI software designed to perform the following functions:

- Capture and store images
- Conduct high-speed analysis and identification of images
- Transmit a signal to halt the production line upon detecting an anomaly
- Maintain a comprehensive log of all images depicting anomalies



ENSURING
CONSISTENT
PRODUCTION
& QUALITY



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The Flax and Hemp Inspection System uses AI Vision to detect and eliminate contaminants during fiber processing. By halting the machine and recording images for analysis the system ensures uninterrupted production and a pure end-product.

What's your challenge?

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