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T&T COMBO UNIT



FULLY AUTONOMOUS

No operator needed during operation

99.8% READABILITY

Driven by multiple frame capturing per bundle

ADJUSTABLE TO ALL

Supports vast majority of typical bundle and pack sizes

HIGHLIGHTS

ALL-IN-ONE SOLUTION

Laser serialization of packs, code validation, and aggregation of packs to bundles in a single device

FULLY AUTONOMOUS

No operator intervention required during operation

99.8% CODE READABILITY

Powered by high-precision laser marking

ADJUSTABLE TO TYPICAL FORMATS

Compatible with all typical bundle and pack sizes

PRODUCT OVERVIEW

The device is designed for laser marking of pack codes through polypropylene, followed by code validation and aggregation of cigarette packs to a bundle for "clear wrap" products — where both packs and the bundle are wrapped in transparent polypropylene. It is installed downstream over-wrapper in the packing line, or as a standalone unit serving multiple lines.

It features the Hermos HITS aggregation platform, high-resolution Cognex cameras, and a Domino laser printer. Other components, such as label printer for bundles, are supplied to customer standards.

During operation, the device ensures proper separation of bundles at the infeed, stable transport without vibrations or slippage, in-motion laser marking of pack codes through polypropylene, code reading, label application and finally, aggregation of packs to bundles. Faulty bundles are automatically rejected, and the system halts after consecutive aggregation errors.

System status is indicated via a signal tower, and detailed diagnostics are displayed on the HMI. Opening any door during runtime immediately stops the device, disables the laser printer and shows a graphic message with the reason for the stoppage.

EQUIPMENT STANDARD

- + Aggregation system: **HITS by HERMOS**
- + Laser printer: **DOMINO**
- + Vision: **COGNEX**
- + CPU: **SIEMENS ***
- + Pneumatic components: **FESTO ***
- + Drives: **SEW ***
- + Belt drives: **HABASIT ***
- + Safety: **SICK, PILZ ***
- + Printer/appliator: **DOMINO ***

** According to customer standard*



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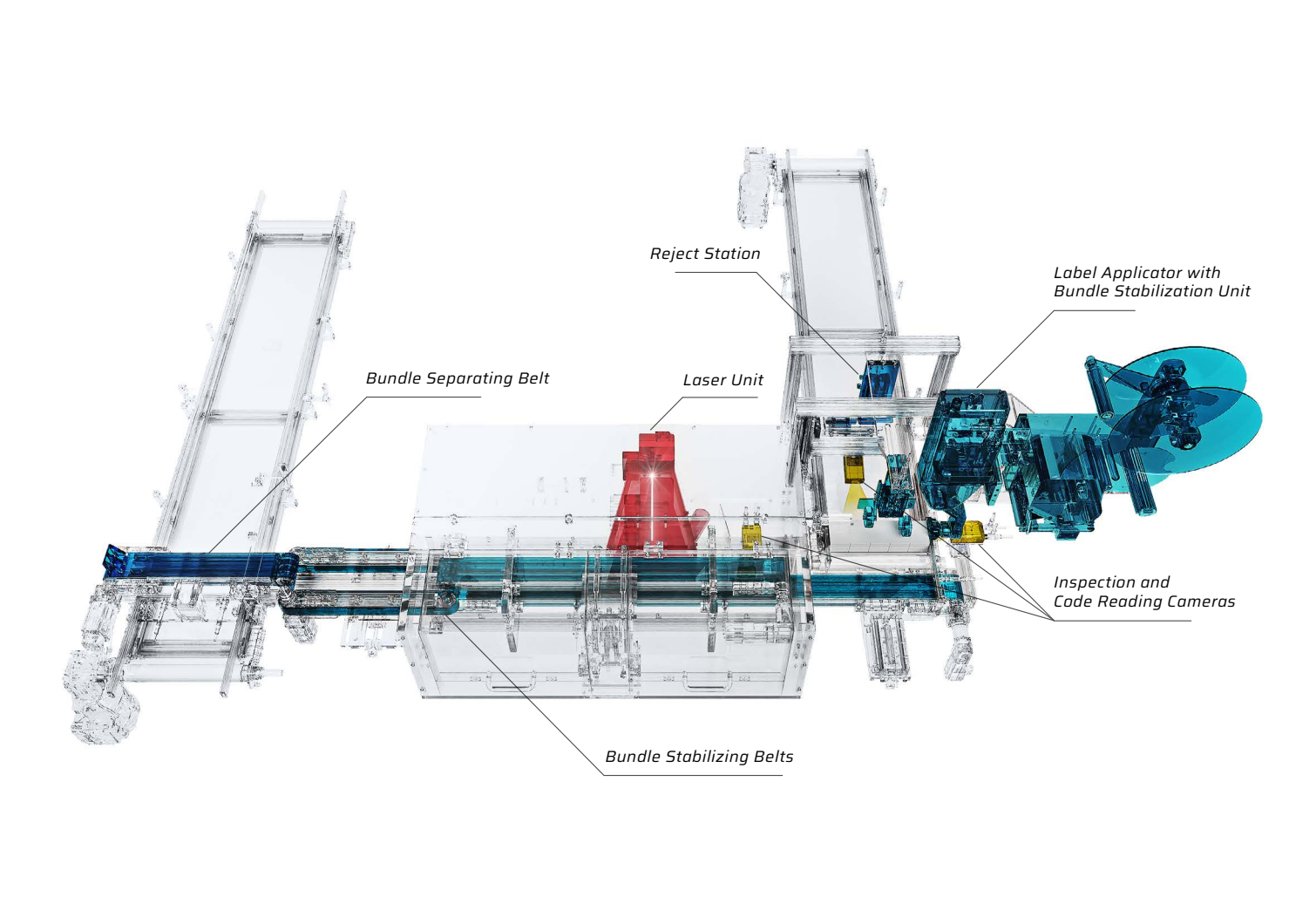
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KEY FEATURES

- + Printing and aggregation speed – **up to 60 bundles per minute**
- + **Separation of bundles** at the device input
- + **Laser marking** of pack codes within the bundle **through polypropylene** (both pack and bundle wrapping)
- + **Compatibility** with any type of label printer/applicator for bundle labeling (adaptable to customer standards)
- + Option to integrate with the line's emergency stop system
- + Use of **cameras with ultra-fast processors** enabling multiple images of each pack and selection of the most readable codes within the bundle
- + **Device equipped with HMI** (parameter configuration, messages, alarms)
- + **Rejection of bundles** in case of incorrect aggregation
- + **Transfer of aggregation data files** to external systems
- + CE certification and certification from laser printer manufacturers regarding proper **laser beam safety compliance**

STANDARD DIMENSIONS

Width (X)	2400 mm
Depth (Y)	1050 mm
Height (Z)	1460 mm

CONNECTIONS & SUPPLY

Compressed Air Supply Pressure	4.5 bar
Power Supply	3-phase, 400 V ±10%, 50/60 Hz
Power Consumption	9 kW
Peak Air Consumption	400 NL/min



ADAPTABLE DESIGN

The machine can be supplied in several layout configurations, with dimensions tailored to customer requirements and the type of product being processed.

Available layouts include Z, C and L configurations.

The position of the electrical cabinet can be adapted to fit the production line layout, ensuring full flexibility to meet specific integration needs.

