Series 1000

Setting New Standards for Serialization Machines

Engineered for your success

Series 1000

The Series 1000 is the new generation of serialization systems for increased efficiency and flexibility in the packaging line. Fully automated and therefore reproducible format changes in less than one minute provide fast refitting times and increase ease of use. Operator errors during format changes are a thing of the past. This saves time and increases the effectiveness of the entire system. Moreover, machines from the Series 1000 impress users with their unique flexibility in regards to the packaging sizes that are getting processed at consistently high production rates. The modular structure forms the basis for swift responses to changing market demands.
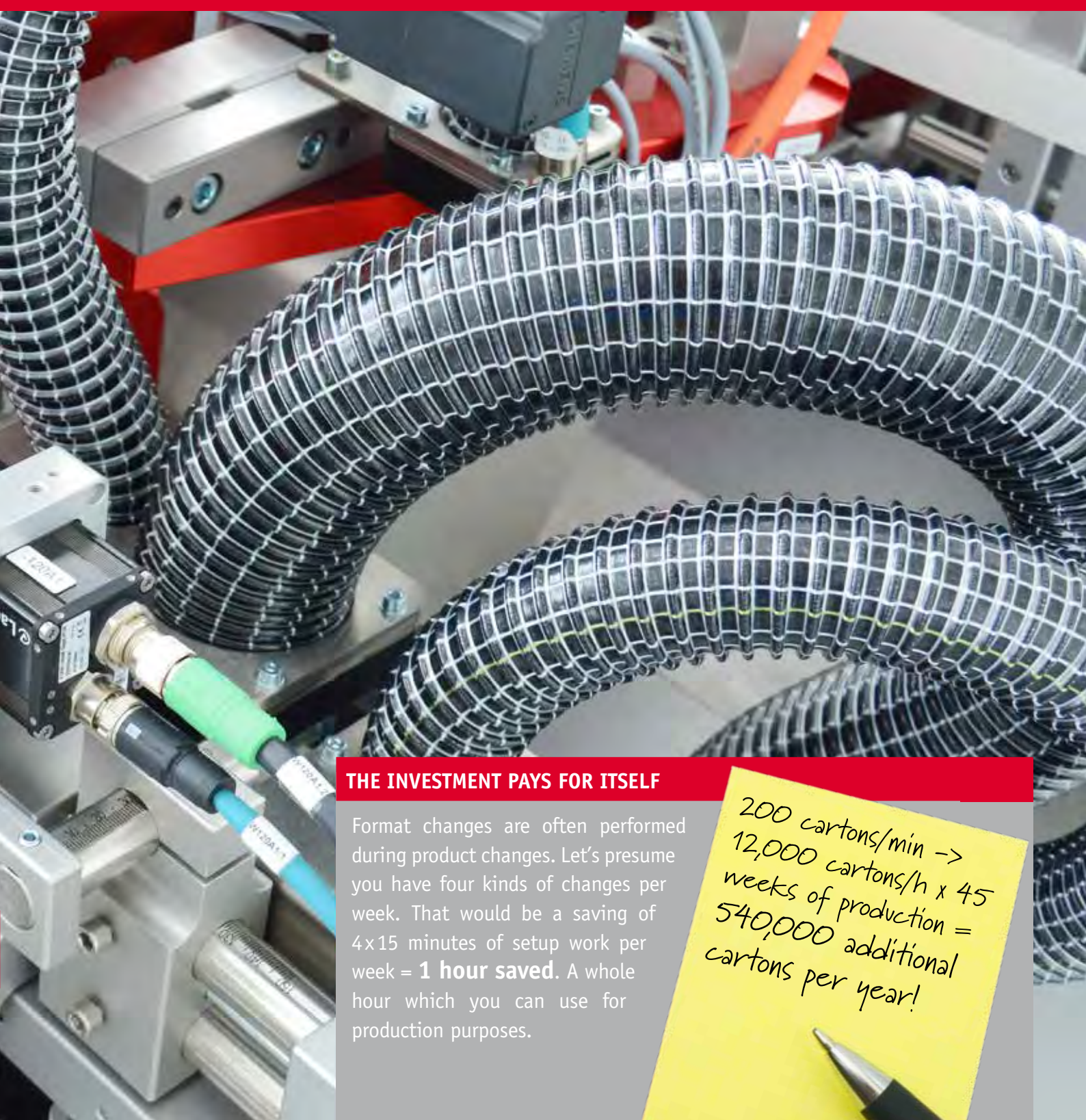
LARGE FORMAT RANGE + CONSTANT PRODUCT QUALITY + MAXIMUM OEE

- Large format range with fast, automatic format adjustment
- High automation density on the most compact footprint
- Made in Germany

Machines for serialization and/or temper evident labelling that belong to the Series 1000:

- **MV-1000 TL Compact**
- **MV-1000 Modular**
- **TL-1000 Modular**

THE INVESTMENT PAYS FOR ITSELF

Format changes are often performed during product changes. Let's presume you have four kinds of changes per week. That would be a saving of 4 x 15 minutes of setup work per week = **1 hour saved**. A whole hour which you can use for production purposes.

200 cartons/min —>
12,000 cartons/h x 45
weeks of production =
540,000 additional
cartons per year!

Series 1000

ADVANTAGES AT A GLANCE

- Fully automated format change
- Marking and verifying of serialized or batch-constant data
- Easily operated via a Laetus 15" touch panel
- Compact GMP design for clear operation and simple cleaning
- Precise product guidance through mechanically forced navigation
- Electronically controlled high-speed ejection
- High positioning and control precision through real-time handling of conveyer system
- Effortless and fast maintenance of all machine parts

SPECIFICATIONS

- Machine direction: From left to right
- Guide rail: Adjustable at front, rear or in the middle
- Conveyor belt: Working height 852 +/- 50 mm
- Belt speed: Up to 60 m/min offers a capacity of up to 400 units/min (depending on the product size and quality)
- Inspection of automatic ejections. Machine stop with ejection counter control
- Ejection container can be locked

Technical Data (applies for entire Series 1000)	
Belt Speed	5 m/min to 60 m/min
Machine Efficiency	up to 400 pcs/min (depending on carton size)
Voltage	400 V / 16 A / RCCB(FI) Typ B 4-polar
Frequency	50…60 Hz
Performance	1.7 kVA (max 3.2 kVA)
SPS	Siemens S7-1515-SP PC2 HMTPT

Carton Box (applies for entire Series 1000)		
Size	max.	min.
	A = 120 mm	A = 30 mm
	B = 100 mm	B = 15 mm
	H = 200 mm	H = 60 mm
Weight	max. 750 g	
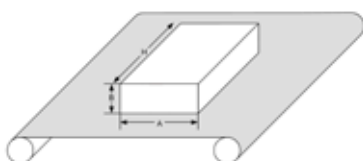
MV-1000 TL Compact

Increasing throughput of serialized cartons (incl. Tamper Evident Label) with a solution that provides fully automated format changes in limited space environments.

- Compact machine (1030 mm)
- Printing on the front or rear side of cardboard boxes with two consecutive print heads of aWOLKE m610 OEM TIJ printer
- Overall printing height 25.4 mm (2D bar code max. 12.7 mm)
- Automatic application of up to 400 Tamper Evident labels per minute on two sides
- Checking of correct label application
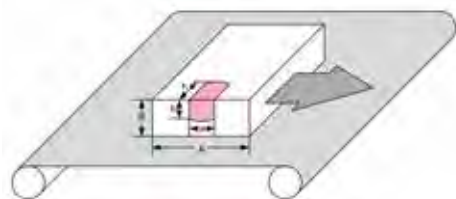- INSPECT system with high-performance iCAM

Technical Data MV-1000 TL Compact	
Machine Type	MV-1000 TL Compact
Protection Class	IP 54
Weight	approx. 600 kg
Dimensions MV-1000 TL Compact	h = approx. 2645 mm d = approx. 1738 mm l = approx. 1030 mm

Tamper Evident Label

Size	max.	min.
	a = limited by A	a = 15 mm
	b = limited by B or b+h	b = 7.5 mm
	h = 15 mm	h = 7.5 mm
	b+h = 40 mm	-

Positioning

Front / Top   Front / Bottom   Rear / Top   Rear / Bottom
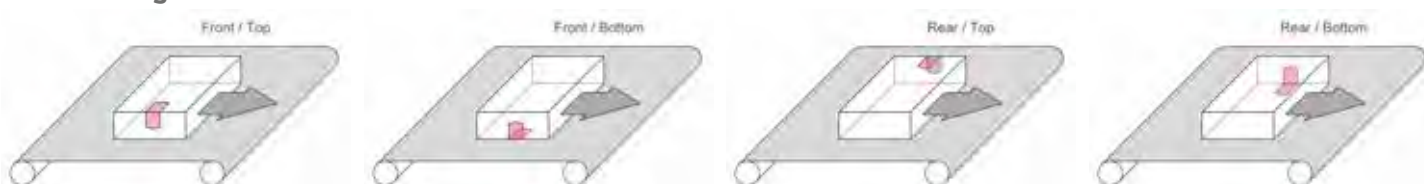
MV-1000 Modular
BASIC MODULE MARK & VERIFY

- Printing on the front or rear side of cardboard boxes with two consecutive print heads of a WOLKE m610 OEM TIJ printer

- Overall printing height 25.4 mm (2D bar code max. 12.7 mm)

- INSPECT system with high-performance iCAM camera. Field of vision approx. 60 x 45 mm for inspection of bar codes and plain text

- Bar code verification with adjustable acceptance criteria according to

  ISO/IEC 15416:2016 (1D)

  ISO/IEC 15415:2011 (2D)

  ISO/IEC TR 29158:2011

- OCR verification

- An additional feeder belt can optionally be added for manual loading

Technical Data MV-1000 Modular	
Machine Type	MV-1000 Modular
Protection Class	IP 54
Weight	approx. 420 kg
Dimensions MV-1000 Modular	h = approx. 2392 mm d = approx. 1388 mm l = approx. 570 mm

TL-1000 Modular
TAMPER EVIDENT MODULE

- Automatic application of up to 400 Tamper Evident labels per minute on two sides

- Possible label positions: Front opening at the top and bottom, rear opening at the top and bottom

- Checking of correct label application

- Outer diameter of roll of labels: max. 400 mm

- Inner diameter of roll of labels: 76 mm

- Minimum spacing between labels: 2 mm

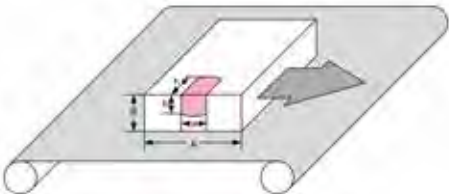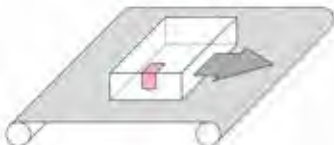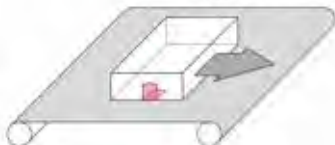- Precision of label positioning: +/- 1 mm
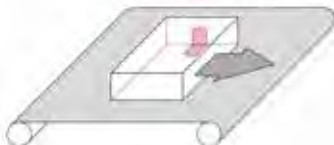
Technical Data TL-1000 Modular

Machine Type	TL-1000 Modular
Protection Class	IP 54
Weight	approx. 360 kg
Dimensions TL-1000 Modular	h = approx. 1140 mm d = approx. 1730 mm l = approx. 700 mm

Technical Data MV-1000 + TL-1000 Modular

Machine Type	MV-1000 + TL-1000 Modular
Protection Class	IP 54
Weight	approx. 780 kg
Dimensions MV-1000 + TL-1000 Modular	h = approx. 2392 mm d = approx. 1730 mm l = approx. 1270 mm

Tamper Evident Label

Size

max.	min.
a = limited by A	a = 15 mm
b = limited by B or b+h	b = 7.5 mm
h = 15 mm	h = 7.5 mm
b+h = 40 mm	-

Positioning

Front / Top   Front / Bottom   Rear / Top   Rear / Bottom

Why Laetus Track & Trace?

We partner with you
- from initial contact and implementation to continuous support.

- More than 45 years of experience
- Expertise in track & trace in pharma, food, beverage, cosmetics and other industries
- Project management from consultation to implementation
- Flexibility when integrating solutions due to brand agnostic and modular approach
- Training academy with individual offers
- Worldwide technical support
- 24/7 hotline

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