



The best of both worlds

KENTO HYBRID®

The right combination of flexo and digital,
especially designed for printing on corrugated

**A flexible printing line designed to improve ROI
while satisfying the demands of the new markets**



Powered by

CELMACCH®

Unbeatable efficiency in short and medium runs

The best complement for your existing flexo equipment

Made for the new market

- Consumers prefer recyclable packaging with high definition full-color graphics
- Packaging users work with more SKUs with limited lifecycles, and demand quicker time-to-market
- Average order size is getting shorter and less profitable for flexographic printers

High-tech innovation

- Patented Kento Hybrid® concept with all-new flexo-digital register control managed by an exclusive Artificial Vision software
- A single centralized system manages all modules, both analogue and digital
- All electronic components supplied by Siemens

Made for packaging:
Designed for industrial printing on corrugated

Compact size:
It will easily fit
in your existing plant

Lower TCO than
traditional
printing solutions



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CELMACCH®

Efficient and profitable in runs up to 5,000 m²

KENTO HYBRID®

HD flexo

0 m² 1,000 m² 2,000 m² 3,000 m² 4,000 m² 5,000 m² 6,000 m² 7,000 m² 8,000 m² 9,000 m² 10,000 m²

KENTO HYBRID®

Great for new and existing plants

- A flexible machine to handle profitably both small and mid-sized corrugated printing orders
- The best of flexo and inkjet:
 - Low fixed costs for most runs
 - Lower TCO and high quality
 - Robust and dependable, flexo HD provided by Celmacch

Designed for higher ROI

- Ink costs: Up to 1m € yearly savings when replacing digital inks by flexo inks in a 2-shift line
- Uptime: Orders under 5,000 sqm can be produced more efficiently than traditional flexo, releasing 55% more time to print long runs
- Plates: Save up to 500K euros per year in stereotypes costs

Uses analogue for backgrounds:
Saves 80% in digital ink

Single-pass digital:
100% savings on plates

After sales service:
as important as technology

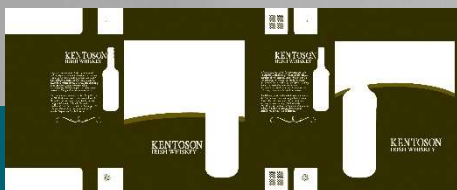


The hybrid concept

Flexo printing
for solid backgrounds,
white ink, special colors

Digital printing
for high-quality images
and personalization

KENTO HYBRID®
Lower printing costs in
short and mid-sized runs



Kento Hybrid® Technical Specifications

Kento Hybrid® Printing Technology

- Patented automatic register control system: Flexo - Inkjet
- Intelligent sensor system (prior to inkjet printing)
- Artificial vision register control Flexo - Inkjet (post inkjet printing)

General Specifications

- Right to left printing
- Feeder, flexo, primer and varnish modules placed on rails
- Central control panel with touch screen
- Machine dimensions: 30 x 8,4 x 3,9 m
- Sheet width: Max 2,100 / min 550 mm
- Sheet length: Max 1,300 / min 550 mm
- Max printing size: 2,100 x 1,280 mm
- No need of special pre-feeder
- Max mechanical speed: 80 m/min or 9,000 sheets/hour
- Siemens PLC S7, drives and servo motors in all modules
- Cooled Rittal electrical cabinets
- Power connection: 400V +/- 10% / 3 Phases / 50 KHz

Media Type

- All corrugated board grades: Coated, semi-coated, kraft and testliner
- Board caliper: 0.8 to 12 mm

Press Modules

- Feeder: Vacuum plate system with sheet cleaner
- Flexo unit with IR + hot air dryer (1 or 2 colors)
- Primer application station with IR + hot air dryer
- Inkjet printer with UV drying
- Varnish application station (OPV) with IR + hot air dryer
- Full stacker with quality control area

Flexo Printer

- Celmacch carbon fibre chambered doctor blade
- Automatic wash up system with 3 different programs
- Stereo holder cylinder Ø 448,17 mm (with stereo)
- Celmacch drying system (IR + Hot air)

Primer and Varnish Application Stations

- Rubber application roller
- Chrome steel metering roller
- Doctor blades mounted on each cylinder
- Celmacch drying system (IR + hot air)

Inkjet Printer

- Piezo Drop-on-Demand technology
- CMYK with UV inks
- Native resolution: 360 dpi with 4 greyscale levels
- UV final curing lamp with intermediate curing UV LED lamps
- Transport system with printing and cross-printing selective vacuum
- Mechanical system to hold board edges to eliminate warp
- Automatic printhead cleaning system
- Automatic belt cleaning system
- Thickness sensor to detect board defects
- Color management software: CGS Oris Press Matcher

Inkjet Inks

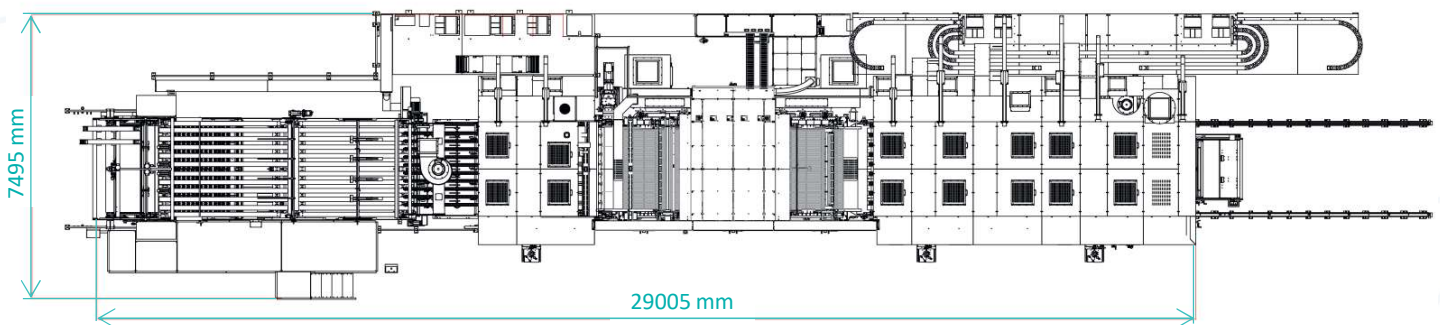
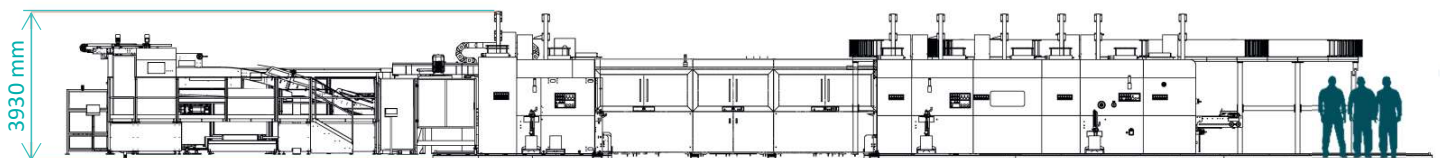
- Open system: Inksets from different manufacturers certified
- Nestlé, Swiss Ordinance compliant
- Recyclability and repulpability certified

High Pile Stacker

- Max stack height: 1.55 m
- Back and lateral squaring system
- Quality control area with automatic reject next to control panel
- Semi-automatic pallet loading system

KENTO HYBRID®

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Ask for an on-site or remote demo
KENTO DIGITAL PRINTING
We are corrugated

