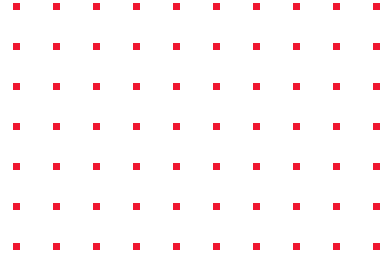# NS MULTI 1300

PRINT SPEED
9, 27m/min

FEED WIDTH
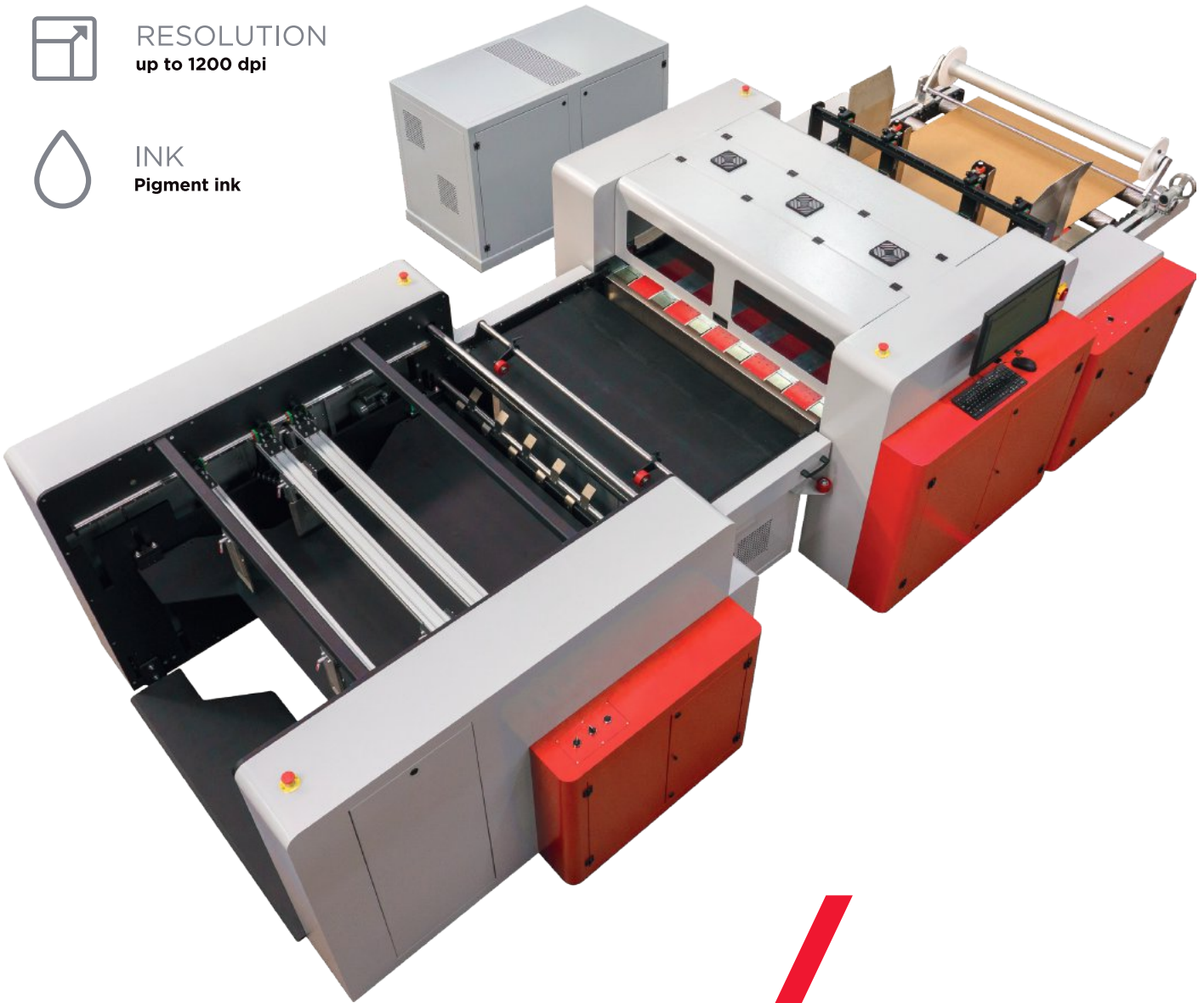Max: 1300mm

PRINT WIDTH
Max: 1070mm

RESOLUTION
up to 1200 dpi

INK
Pigment ink

Digital industrial solutions for packaging

INDUSTRY 4.0 READY

WATER BASED SUSTAINABLE PRINTING

Applications

Corrugated boxes for Food, Beverages, Healthcare, Logistics, e-commerce and many others.

Visit Us
www.mtexns.com

Our background

We are the result of many years of experience in the marketing and manufacturing of equipment for the digital print market.

We have since expanded, grown and developed to address a wide variety of markets and applications including textiles, packaging, labeling, apparel, footwear and many more.

Our technology

Our technology is fully designed and developed internally in our industrial state-of-the-art facilities by our highly skilled team. With this industrial set (R&D department, laser cutting, bending, CNC milling, welding, painting, and assembly) we guarantee our verticality, translating ideas into products, in record time. We were born to build and shape the future with present ideas. **That is why MTEX NS is the place Where Engineering Breeds Creativity.**

LASER CUT   CNC   LATHE   METALWORK   BEND   PAINT SHOP

Harmony ◥ between technology and competence

Close relationship ◥ built with every project we undertake

Joint success ◥ every idea we turn into reality

INDUSTRY 4.0 READY

MTEX NS INDUSTRY 4.0

One of the strategic areas in which the company invested was the development of machines with industry standards 4.0 in mind, emphasizing the Internet of Things (sensing and mechatronic systems to monitor and control the operation).

Data collection and processing in cloud computing systems allow for more efficient decision making and management processes. A practical example is in the maintenance services of machines that nowadays are merely corrective, implement algorithms to perform predictive maintenance, allowing to increase the productive capacity of the devices and minimize operating costs. The machine management software is periodically updated with new features to process the increased volume of data acquired resulting from the increase in the number of existing sensors, thus making machine management more efficient.
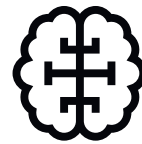

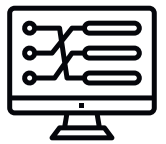## EtherCAT

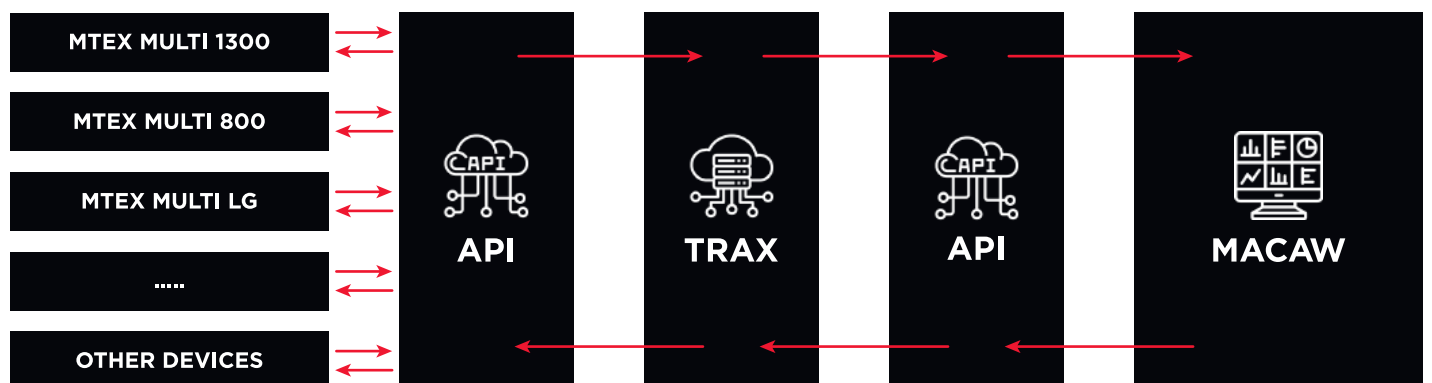### 1st Portuguese company joining EtherCAT Org
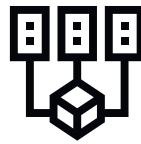
CONNECTIVITY　　　**DATA**　　　**INTELLIGENCE**　　　**AUTOMATION**

MTEX NS INFORMATION FLOW / END USER INTERFACE & REPORTS SYSTEM

MTEX MULTI 1300				
MTEX MULTI 800	API	TRAX	API	MACAW
MTEX MULTI LG				
.....				
OTHER DEVICES				

End User dashboard and interface.

❯ Speed of communication　　❯ Use of industrial Ethernet

❯ Robustness and reliability　　❯ Flexible network topology

❯ Ease of network implementation　　❯ Open Communication protocol
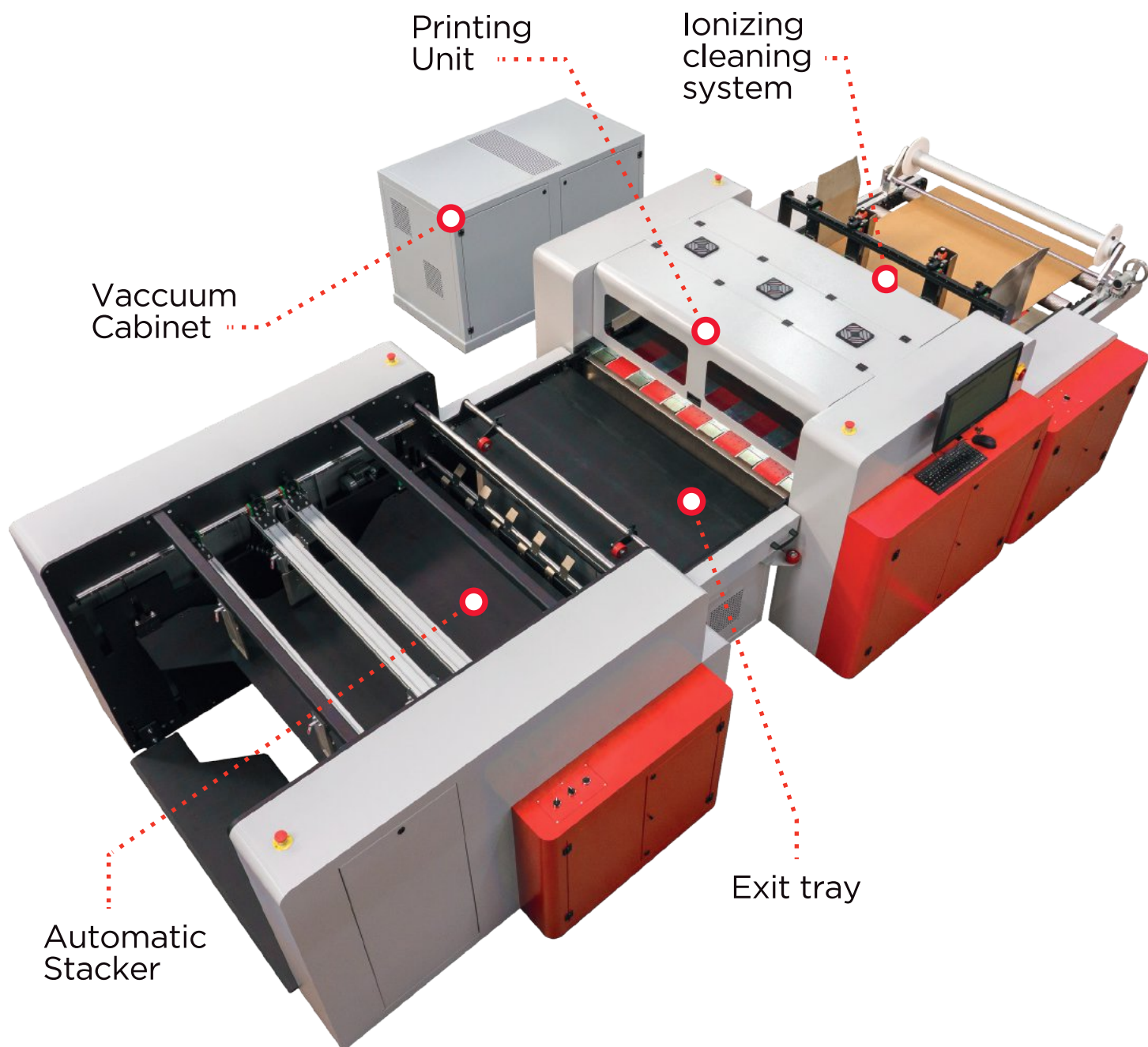
NS MULTI 1300

Printing Unit
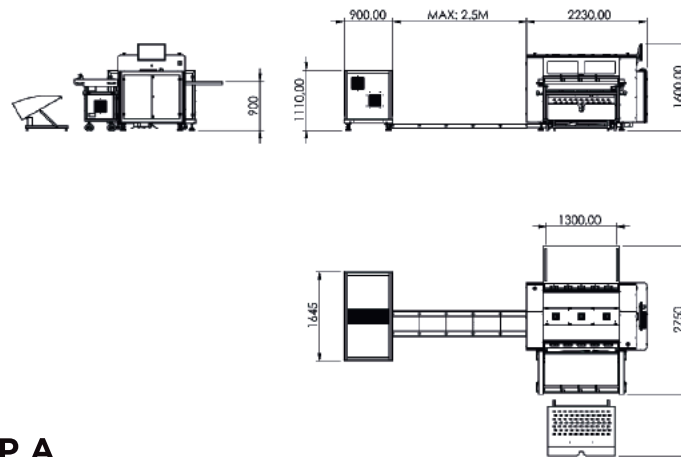
Ionizing cleaning system
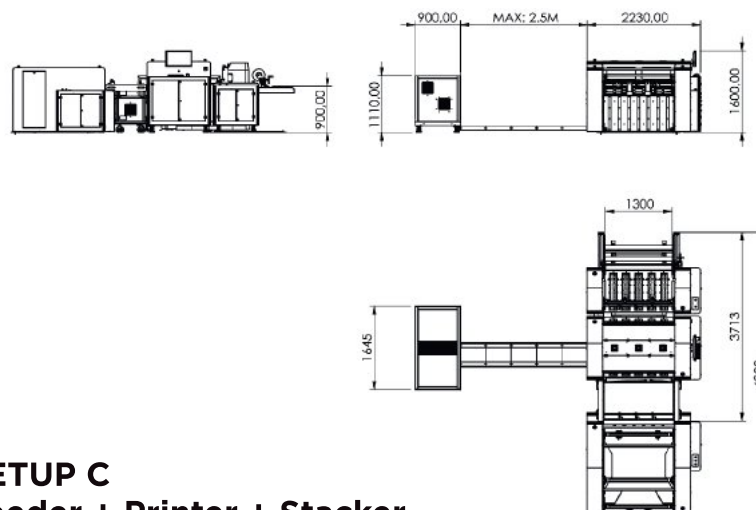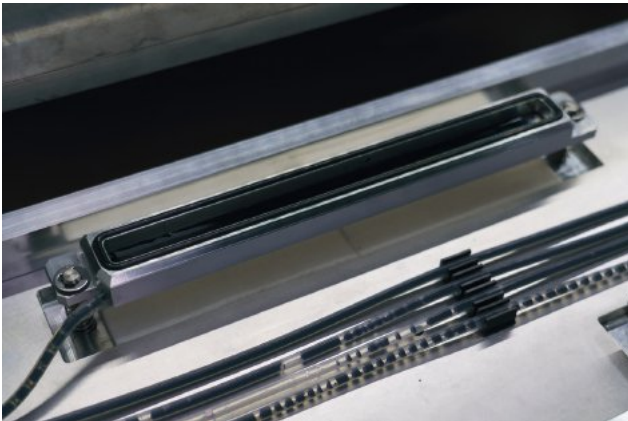
Vaccuum Cabinet

Automatic Stacker

Exit tray

SETUP A
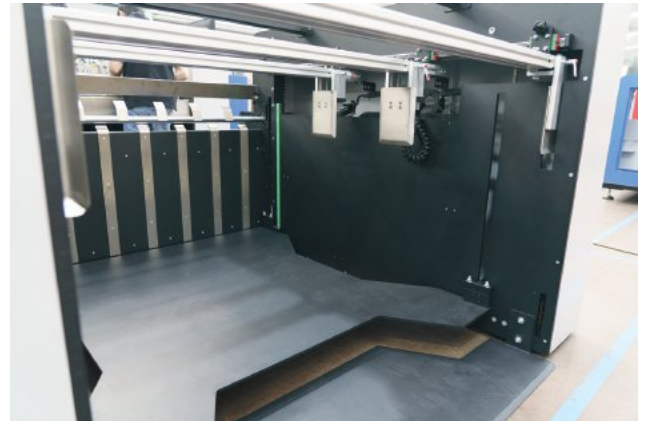**Printer**
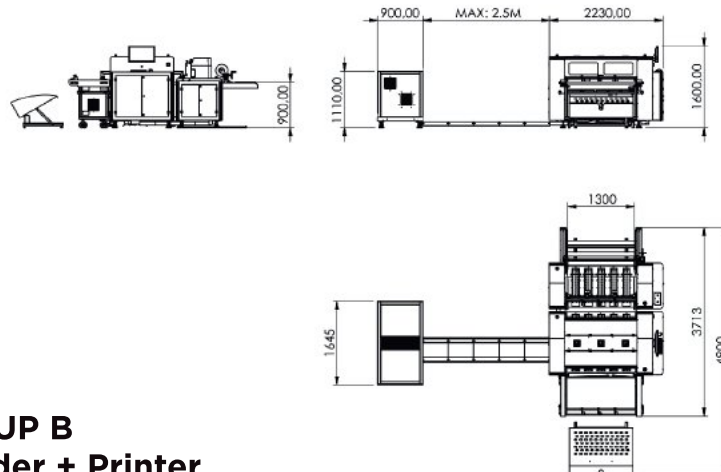
SETUP B
Feeder + Printer

SETUP C
Feeder + Printer + Stacker

Print head capping system for more efficient cleaning and greater protection in standby.

Industrial stacker with board size adjustment, safety sensurization, pallet feed, and full synchronization with the different print speeds.
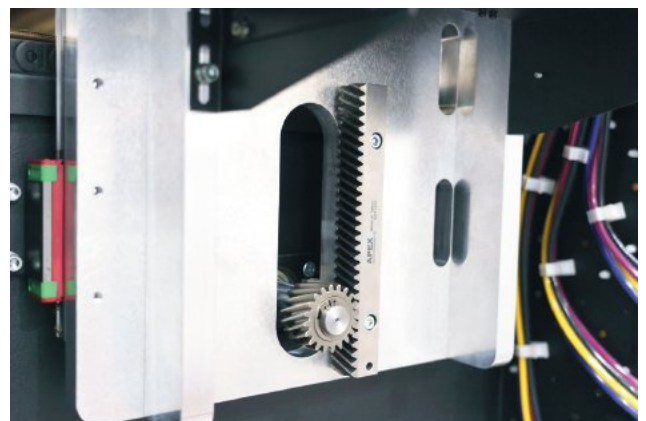

CE and UL certified electrical installation.

Proprietary MTEX NS electronics with complete control using 4.0 tools, Ethercat and SATA communication.

Vacuum cabinet with noise suppression, keeping all components silent, protected and closed.

High accuracy Z axis with a range between 1mm and 50mm.

Adjustable feeding depending on material sizes and thickness. Vertical cardboard input control for efficient and fast feeding.

All cardboard feeding is controlled by no-crush wheels, controlling thickness and avoiding media vibrations.

One Screen Control, the entire operation of the equipment is done through one workstation, thus simplifying the entire process.

Vaccuum sectioned throughout the equipment for more efficient and controlled media transport.
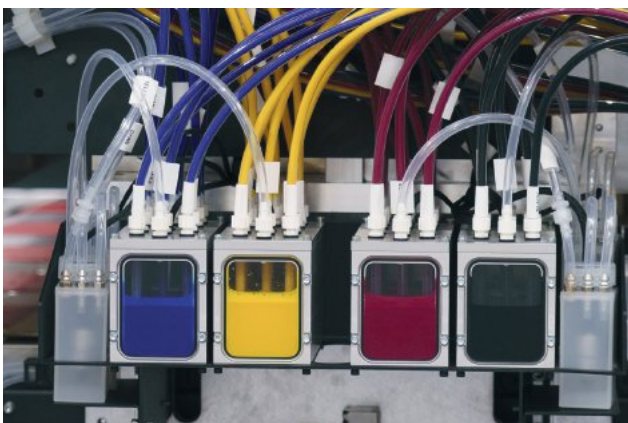
Controlled ink supply for better printing, managing air intake and ink consumption in long, high-throughput printouts.

Bulk feed for greater ink cost efficiency.

Pigment ink printing

Markets enabled by pigment ink

Graphic market
Clay coated cardboards which was impossible to print until now

Specialty carton packaging market
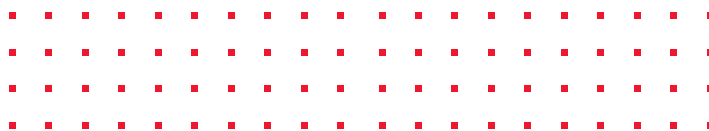Materials that are usually plastered or have different finishes

Packaging market for the cold and frozen food industry
Durability and higher moisture / water resistance

Giftware markets, coasters, catering

Food market
Pizzeria, Pastry shops, Fruits, Vegetables and others

Technical specs

Printer specifications	
Resolution	High resolution: 1200 x 1200 dpi
	Low resolution: 300 x 1200 dpi
Print Speed	High resolution: 9m / minute
	Low resolution: 27m / minute
Ink	Pigment ink 5 liter bootles
Power Consumption	Printer: 400 V AC - 50Hz, 3-phase, Plug 32A, 8000Watts
	Web Cleaner: 400 V AC - 50Hz, 3-phase, Plug 16A, 5500Watts
Weight	1200Kg

Feeder specifications	
Media	Cardboard plates from 1mm to 50mm thick
Max. Feed size	1300mm wide x 1600mm long
Min. Feed size	300mm wide x 400mm long
Feed speed	Up to 27m/min
Max. Feed pile	400mm
Power Consumption	Three-phase: 400V AC ±10% - 3 Phases + Neutral + GND, 50/60Hz;
	Machine power supply plug: Male CEE 3P+N+PE 400V 32Amp.
	Circuit protection: RCCB 4P, 40Amp, 300mA, C, 10kA (must be provided at the customer's premises)
	Machine power consumption: 3500 Watts
Weight	1100Kg

Stacker specifications	
Media	Cardboard plates from 1mm to 50mm thick
Max. Board size	1300mm wide x 1600mm long
Stacking speed	Up to 27m/min
Max. Staking pile	700mm
Power Consumption	Three-phase: 400V AC ±10% - 3 Phases + Neutral + GND, 50/60Hz;
	Machine power supply plug: Male CEE 3P+N+PE 400V 32Amp.
	Circuit protection: RCCB 4P, 40Amp, 300mA, C, 10kA (must be provided at the customer's premises)
	Machine power consumption: 3500 Watts
Weight	900Kg

Software	
Internet connection	24/7 requirement
Platform	PC/Windows-based
Controller	Ergosoft RIP
Interface	PC-based

Operating environment	
Operation	20°C – 30°C
Humidity	50 % – 70 % RH (non-condensing)