

## Our company

- Founded in 1980,
- Manufacturing machines and engineering solutions for the label industry and flexible packaging since its creation,
- Based in Savigny Sur Orge (20 km south of Paris) – France,
- 50% of sales are international,
- Joined the Rhyguan group in 2023.

## Our mission

- To Inspire and develop the products identification of tomorrow,
- Designing innovative, multi-process modular solutions for finishing and embellishment of self-adhesive labels and flexible packaging.

## Our area of expertise

- Finishing and value-added solutions incorporating flat screen printing as well as differentiation and converting modules such as hot foil stamping, embossing, flexography, variable data printing, die-cutting (flat, rotary, semi-rotary),
- Converting and post-digital printing finishing solutions,
- Die-cutting and converting solutions for the blank labels market,
- Slitting, Control and inspection machine solutions,
- RFID/NFC insertion, control and encoding solutions,
- On-demand engineering and design of special modules for tailored applications.

## Continuous Innovation

### **LIT-RID technology:**

SMAG has developed the «Label Identification Technology (LIT)» concept. The need to facilitate the flow of information between products, consumers and automated systems has led to the development of smart and uniquely identifiable products through the use of intelligent labels by means of digital identification. The ICONNECT line is SMAG solution to the challenge of converting finished labels into intelligent labels through the incorporation of RFID technology.

### **Industry 4.0 and collective challenges:**

Faced with new issues challenges in the packaging world, SMAG wants to rise to the task and lead the development of engineered solutions for brands looking to invest in more virtuous solutions that respect collective societal issues and bring balance combining intelligence between machine and operator. The new ICON and EASYCON platforms fit perfectly into this program:

- Reduction of set-up times and material optimization to reduce waste,
- Rationalization of production for optimal use of resources,
- Total modularity of equipment design, to facilitate upgrades and ensure long-term use of equipment,
- Process automation and improved ergonomics to facilitate operators' work and reduce risks,
- Environmentally conscious design to Reduced emissions, use of less polluting consumables, LED technology...
- Intelligent machines, compatible with the majority of ERP systems for production optimization.

## The spirit of the product lines

To Inspire and develop the products identification of tomorrow.

The company's purpose embedded into our DNA, through the years and the products developed, it has always been the creation of added value, modularity, and robustness. SMAG has always innovated around these fundamental principles.

This portfolio presents three distinct product lines :

### • The ICON Line

The ICON platform integrates independent and modular units enabling infinite combinations of specific, high value-added processes with solutions adapted to each market. The ICON platform is the ideal solution for printing and converting self-adhesive labels for the wine and spirits, cosmetics, high-end perfumery, pharmaceutical and industrial markets, as well as for connected labels to personalize, identify, authenticate and track products from creation to end-user.

### • The EASY Line

Without compromising on the quality, modularity and innovation that make up the company's DNA, the EASY platform enables us to offer more attractive pricing thanks to volume effects and shorter delivery times. It is part of a series, standardization, and economies of scale objective, which was made possible when the company joined the Rhyguan group.

### • The CLASSIC Line

Spearheading the company's development over the years, this range has never aged and remains the benchmark and baseline for a number of products developed over the years, including the Galaxie Classic, the most obvious example. This machine, which has obviously evolved technologically over the years, has been sold on all 5 continents, more than 800 units for 30 years. It is the absolute benchmark in the perfume industry.

## Summary

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The **ICONCEPT** is the most advanced product line from the ICON multi-process platform, incorporating a wide choice of printing and converting modules fully servo-driven, independent in terms of repeat length, automatic registration systems and web motion. It is infinitely adaptable, for solutions tailored to every market application. The platform is also modular and mature, with worldwide references from leading label printers.

#### Technical specifications

Minimum / maximum web width: 2 versions 350 mm and 450 mm	100/350 mm and 100 / 450 mm
Minimum / maximum web thickness: for 2 versions 350 mm and 450 mm	30/250 microns
Standard unwind/rewind reel diameters (other diameters optional): 350 mm and 450 mm	800 mm/500 mm (2 shafts)
Flexo plate cylinder repeat: for the 2 versions 350 mm and 450 mm	From 12" to 25,5"
Laminating and cold foil stamping unwind/rewind diameters: for the 2 versions 350 mm and 450 mm	400mm
Maximum screen-printing format (width x repeat): for the 2 versions 350 mm and 450 mm	340 x 340 mm and 440 x 440 mm
Maximum format for semi-rotary foil station (width x repeat): 350 mm version only	330 x 230 mm
Maximum format for flatbed foil and embossing station (width x repeat): 350 mm version only	330 x 330 mm (max. 40% of surface)
Maximum format for flatbed foil and embossing station (width x repeat) with the rotating head 350 mm option	330 x 240 mm (max. 40% of surface)
Stamping, embossing and flatbed die-cutting module pressure: 350 mm version only	50 Tons
Rotary or semi-rotary die-cylinder development: for both 350 mm and 450 mm versions	From 12" to 25,5"
Maximum waste reel diameter: for the 2 versions 350 mm and 450 mm	650 mm
Maximum flexo speed in rotary mode (mechanical or servo with automatic registration control) *: for the 2 versions 350 mm and 450 mm	Up to 150 m/min
Maximum flexo speed in semi-rotary servo registered mode *: for the 2 versions 350 mm and 450 mm	Up to 60 m/min
Maximum flat-bed foil speed type HGV *: 350 mm version only	Up to 45 m/min
Maximum flat embossing speed type EGV *: 350 mm version only	Up to 50 m/min
Maximum flat screen-printing speed SP *: for the 2 versions 350 mm and 450 mm	Up to 25 m/min
Maximum die cutting speed in mechanical rotary mode *: for the 2 versions 350 mm and 450 mm	Up to 200 m/min
Maximum die cutting speed in registered servo-rotary mode *: for the 2 versions 350 mm and 450 mm	Up to 150 m/min
Maximum die cutting speed in registered semi-rotary servo mode *: for the 2 versions 350 mm and 450 mm	Up to 70 m/min
Maximum flatbed die cutting speed DGV *: 350 mm version only	Up to 50 m/min
Variable-format sheet output: minimum/maximum format: for 2 versions 350 mm and 450 mm	From 100 mm to 500mm
Registration accuracy for all modules : for the 2 versions 350 mm and 450 mm	+/- 0,125mm
Industry 4.0: for the 2 versions 350 mm and 450 mm	•

\* Production speed depending on processes, formats, weeding, substrates, inks...

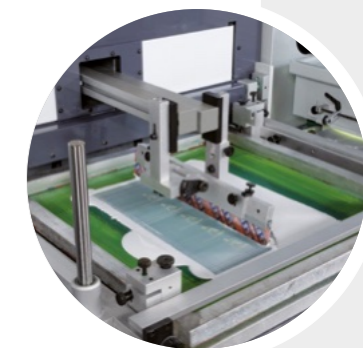
## Multi-process ICON platform **ICONCEPT** for value-added printing, finishing and converting

### Finishing and converting processes

- Compact or extended unwinders diameters (850 / 1000 / 1200) mm.
- Pre-equipment on unwinder to receive corona treatment and web cleaner.
- Die cutting unit in servo-rotary and semi-rotary versions, or DGV-type flatbed.
- Waste matrix with pressure arm and Snowball system.
- Visualization, 100% inspection and control module with a wide range of cameras available.
- Wide choice of slitting units with interchangeable cassette for shear knives , razors blades , pressure knives, underscoring, or shear knives with automatic positioning.
- Single and dual shaft rewinders for simultaneous or alternating rewinding of finished products.
- Semi-automatic rewriter with 2-shafts.
- Non-stop 2-shafts rewriter with automatic gluing system.
- Roll to sheet output with conveyor.

### Printing processes and added value

- Flexo units available in mechanical rotary, rotary servo or semi-rotary servo versions with UV / LED / hot air / IR drying systems.
- Delam / relam for flexo printing on adhesive side.
- Laminating and cold foil stamping.
- Inkjet printing for variable data.
- SP flatbed screen printing with UV / LED / hot air / IR air / IR.
- Silk-foil printing process (heat lamination of foil after screen printing).
- HGV flatbed foil and embossing with foil saver.
- Optional rotating head on the flat bed hot stamping HGV module for transversal foil.
- Flat embossing type EGV.
- Semi-rotary hot foil stamping with foil saver.
- Applications modules for coupon labels, booklets and labels dispensing.
- Parts removing system.





## ICON multi-process platform for post-print digital finishing and converting, and production of logistics-type labels + A4 sheets

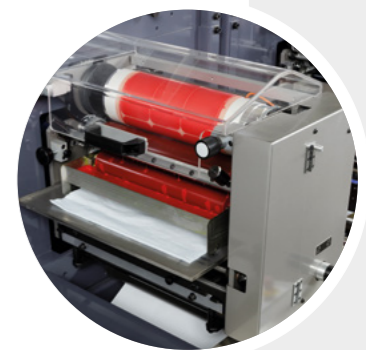
The **ICONVERT** is part of the ICON multi-process platform for label converting and is integrating a wide choice of fully servo-driven printing and converting modules.

The **ICONVERT** line is dedicated to post digital printing finishing (including Flexo printing, cold foil stamping, laminating, die-cutting, etc.), and can work off-line or in-line (via a synchronization module). The **ICONVERT** line is infinitely combinable, for solutions tailored to every market application. The platform is also modular and compatible by retrofit with all modules in the **ICONCEPT** range (such as Hot Stamping and Screen-Printing stations) and **ICONTROL** (control section).

..It is also used as a flexographic printing and die-cutting machine (multi-station for top and bottom die-cutting, sheet-fed die-cutting) for the logistics and A4 board markets... It can integrate up to 4 flexographic printing units and 4 die-cutting units. Other modules in the range can be connected, such as non-stop rewinders, sheeting, stackers....

### Converting and finishing processes

- Compact or large unwinders with 3 available diameters (850 / 1000 / 1200) mm.
- Pre-equipment on unwinder to receive corona treatment and web cleaner.
- Die cutting unit in servo-rotary and semi-rotary versions, or DGV-type flatbed.
- Waste matrix with pressure arm and Snowball system.
- Visualization, 100% inspection and control module with a wide range of cameras available.
- Wide choice of slitting units with interchangeable cassette for shear knives or razors, pressure knives, underscoring, or shear knives with automatic positioning.
- 1 or 2-shaft rewinders for simultaneous or alternating rewinding of finished products.
- Semi-automatic rewriter with 2-shafts.
- Non-stop 2-shafts rewriter with automatic gluing system.
- Sheet delivery with conveyor.



### Printing and converting processes

- Flexo units available in mechanical rotary, rotary servo or semi-rotary servo versions with UV / LED / hot air / IR drying systems.
- Delam / relam for flexo unit for printing on glue.
- Laminating and cold foil stamping.
- Lamination mounted on a rail.
- Inkjet printing for variable printing.
- Applications modules for coupon labels, booklets and labels dispensing.
- Parts removing system.



### Technical specifications

Minimum / maximum web width: 3 versions 350 mm or 450 mm or 530 mm	100 / 350-450-530 mm
Minimum / maximum belt thickness	30 / 250 microns
Standard unwind/rewind diameters. (Other diameters optional)	800 / 500 mm (2 shafts)
Corona treatment and web cleaner	(Option) •
Flexographic plate cylinder repeat	From 12" to 25,5"
Varnish cylinder stop between two labels to avoid leaving a mark on the label	Standard
Laminating and cold foil stamping unwind/rewind diameters	400 mm
Rotary or semi-rotary die-cylinder repeat	From 12" to 25,5"
Maximum weaving reel diameter	650 mm
Maximum flexographic speed in mechanical rotary or rotary servo *	150 m/min
Maximum flexographic speed in registered semi-rotary servo mode *	60 m/min
Maximum cutting speed in mechanical rotary mode *	200 m/min
Maximum cutting speed in registered rotary servo mode *	150 m/min
Maximum cutting speed in semi-rotary servo registered mode *	70 m/min
Flexographic printing on glue	(Option) •
Control system type BST Nyquist, EL or other	(Option) •
Inkjet variable data printing	(Option) •
UV / LED / hot-air drying / IR curing	(Option) (UV std)
Slitting with counter-knives, razors blades, pressure knives, Underscoring Automatic positioning of counter-knives	(Option) •
Registration accuracy of all modules	+/- 0,125mm
Coupon and booklet applications	(Option) •
Industry 4.0	•

\* Production speed depending on processes, formats, weeding, substrates, inks...



The **ICONVERT • LITE** is the ideal compact solution for pre-printed labels.

**ICONVERT • LITE** dedicated to labels die cutting and finishing.

The machine can receive as option web treatment systems, full varnish module and laminating or cold foil system.

**Technical specifications**

Minimum web width / Maximum web width available	100 / 350 mm
Minimum web thickness / Maximum web thickness	30 / 250 microns
Standard unwind diameter / Standard diameter rewriter (others as option)	800 / 450 mm (1 shaft and 2 as option)
Corona treatment : option	•
Flexo printing cylinder sizes available	From 12" to 24"
Varnishing cylinder stop in the gap between two labels	Standard
Standard laminating / cold foil unwind diameter	400 mm
Die cutting cylinder sizes available in rotary or semi rotary mode	From 12" to 25,5"
Waste roll maximum diameter	650 mm
Maximum speed flexo full rotary (mechanical) *	150 m/min
Maximum speed flexo full rotary mode servo (with automatic registration) *	120 m/min
Maximum speed semi-rotary die cutting mode up to (according to ratio between the plate length and cylinder repeat) *	70 m/min
Maximum speed full rotary die cutting (mechanical) *	200 m/min
Maximum speed full rotary die cutting servo (with automatic registration) *	150 m/min
Pressure gauge for rotary/semi rotary die station	Standard
Gap die adjustment for rotary/semi rotary die station option	•
Quality control module with camera such BST Nyquist, AVT or others option	•
Variable data printing with inkjet technology option	•
UV/LED drying option	Standard UV
Hot air / IR drying option	•
Slitting process	Razor blades
Registration accuracy off all modules	+/- 0,125 mm

\* Production speed depending on processes, formats, weeding, substrates, inks...

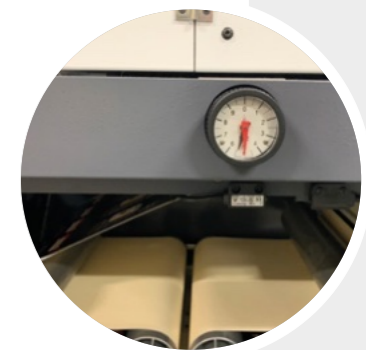
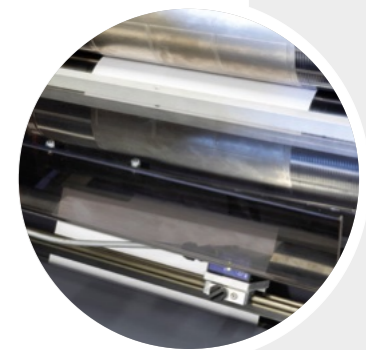
**Iconvert Lite:** compact line for post-printing converting and finishing

**Converting and finishing processes :**

- Compact unwinder with predisposition for corona treatment,
- Servo-rotary and semi-rotary cutting station,
- Pressure gauge manometer in standard,
- Optional gap adjustment system,
- Waste matrix with pressure arm,
- Razor blade slitting unit,
- 1 or 2-shaft rewinders for simultaneous or alternating rewinding of finished products,

**Printing processes and added value (options) :**

- Flexo units available in mechanical rotary, servo rotary or semi-rotary servo versions,
- UV / LED drying systems for the flexo station,
- Laminating and cold foil,
- Snow ball waste rewriter,
- Semi automatic turret rewriter.





The **icontrol** line is dedicated to the control, inspection and finishing of labels and flexible packaging. The **icontrol** line integrates a wide variety of modules from the **ICON** platform.

The **icontrol** line is infinitely combinable, for tailored solutions to every market application. This platform is also modular and compatible with all **ICON**CONCEPT and **ICON**VERT modules.

**Technical specifications**

Minimum / maximum width: 3 versions 350 mm or 450 mm or 530 mm	100/350-450-530 mm
Minimum / maximum substrate thickness	30/250 microns
Standards unwind/rewind diameters	800 / 500 mm (2 shafts) (other diameters optional)
Splice detection system	(Option) •
Splice detection system	Standard
BST Nyquist, EL or other control systems	(Option) •
Variable data printing with Inkjet process	(Option) •
Maximum mechanical operating speed *	300 m/min
Slitting with counter-knives, razors blades, pressure knives	Available according to modules
Automatic positioning of knives	(Option) •
Industrie 4.0	

\* Speed according substrate and camera performances

**ICON** multi-process platform for inspection and reconditioning

**Converting and finishing processes**

- Compact or large unwinders with 3 available diameters (850 / 1000 / 1200 mm) with ultrasonic web guide.
- Wide choice of slitting units with interchangeable cassette for shear knives or razors, pressure knives, underscoring, or shear knives with automatic positioning.
- Single and dual shaft rewinders for simultaneous or alternating rewinding of finished products.
- Semi-automatic rewriter with 2-shafts.



**100% control and inspection options**

- From simple visual inspection with cells to 100% camera inspection...
- Splice detection and flag detection.
- Visualization, inspection and control module. Includes a second inspection table equipped with 2 pneumatic clamps and a trash rewind shaft.
- 100% inspection by BST Nyquist or EL camera (or other models), for control of printing, color variation, variable data...

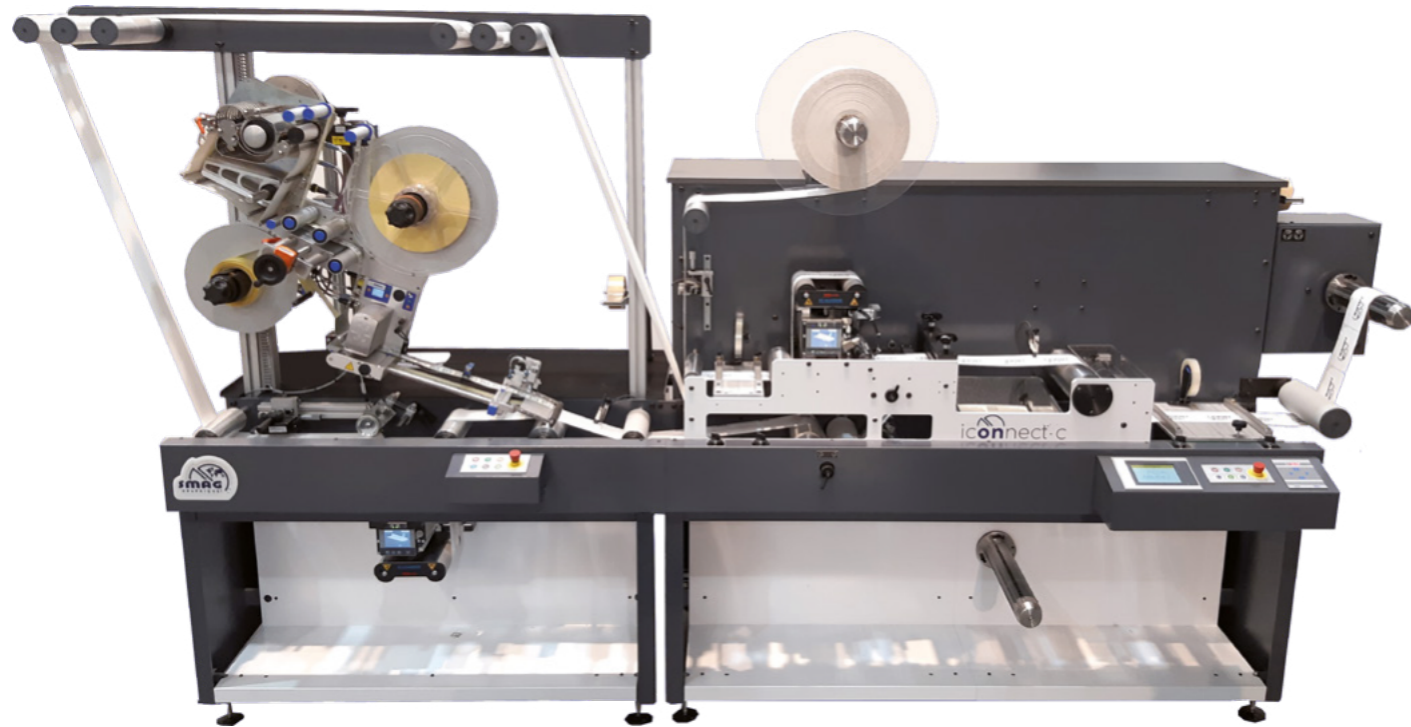


**Variable data printing options**

- Double-sided printing, marking and numbering modules.
- Inkjet printing modules with UV or LED curing.







The ICONNECT from the ICON Platform, is also part of the L.I.T (Label Identification Technology) program developed by SMAG Graphique with the aim of being the pioneer and most advanced partner in the world of the intelligent label industry label industry.

ICONNECT is a multi-process platform designed to meet the needs of both OEMs and label printers, offering them new market opportunities by providing solutions for on-line inventory management, traceability and product identification.

The **ICONNECT-C RFID** insertion converting line enables to:

- Insert a UHF / HF NFC / anti-theft RFID chip between an adhesive label and its carrier backing.
- Place a label on top of another label for promotional coupons or creative effects.
- Place a label of a different shape or material next to another label (wine market).

**Technical specifications**

Minimum web width	40 mm
Maximum web width: Available in 3 width models Also available in MAX version 350 mm	180 - 200 and 250 mm
Maximum width of inlays and label inserted, depending on the application head chosen	160 mm or 240 mm
Maximum speed (depending on the inlays and label formats) and insertion head option	80 m/min or 150 m/min
Length registration accuracy for tag application	+/- 1mm
Side registration accuracy for tag application	+/- 0,5mm
Minimum distance between two inlays (depending on chip and label formats)	Minimum 15mm
Maximum unwinder diameter	450 mm Standard and 600 mm Optional
Maximum rewinder diameter	450 mm
Standard core diameter but other sizes available	76mm



**iconnect·c**  
Intelligent labels converting solution

RFID converting line

**Base machine**

- Unwinder with pneumatic mandrel and powder brake.
- Ultrasonic web guide.
- Delamination and re-lamination section.
- Photocell for registering with the possibility of reading the gap between two labels or a mark printed on the substrate (front or back).
- HMI touch screen to control machine functions and parameters.
- Servo-driven rewinder with pneumatical mandrel.

**Inlays or tag dispenser**

- High-speed, high-precision dispensing unit.
- Adjustable position of the unit in the machine width.
- Second ultrasonic web guide.
- Speed synchronization by encoder.
- Programmable advance or delay of deposit.
- Motorized infeed synchronized.

**Additional inspection, variable printing and finishing processes available**

- 100% inspection camera control (EL or BST) for the dimensional positioning of the deposited inlays.
- Second dispensing head.
- Variable data printing for serialization or data matrix encoding.
- HF or UHF RFID inlay quality control with data management.
- Marking of labels containing defective RFID inlays.
- Destruction of defective inlays.
- Additional rewinder with special web pass for thick inlays.
- Slitting unit with razor blades.
- Dual shafts rewinder or semi-automatic rewinder.





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ICONNECT is a multi-process platform designed to meet the needs of both OEMs and label printers, offering them new market opportunities by providing solutions for on-line inventory management, traceability and product identification.

Depending on the options selected, the **ICONNECT-E RFID encoding and control line** enables to:

- Check print quality with a 100% 4K inspection camera.
- Check the position of the inlay under the label with a 100% 4K inspection camera.
- Check RFID inlay quality (UHF and HF).
- Print a data matrix code or any other variable data from a database.
- Encode the RFID inlay (UHF and HF) from a database.
- Encode the RFID inlay from variable data printed and read on-line.
- Control the final encoding process, mark defective tags, destroy defective inlays, stop defective tags on a splicing table.

**Technical specifications**

Minimum width	40 mm
Maximum web width: Available in 2 width models	200 and 250 mm wide
Maximum encoding and control speed (depending on RFID tag format)	60 m/min
Maximum unwinder diameter	450 mm Standard and 600 mm Optional
Maximum rewinder diameter	450 mm
Standard core diameter but other sizes available	76 mm



**iconnect·e**  
Intelligent labels converting solution

RFID encoding and control line  
(UHF AND HF)

**Base machine**

- Unwinder with pneumatic mandrel and powder brake.
- Ultrasonic web guide.
- Predisposition for RFID inlay quality control.
- Predisposition for encoding process.
- Predisposition for encoding control.
- Servo-driven infeed.
- HMI touch screen to control machine functions and parameters.
- Motorized rewinder with pneumatic mandrel.

**Additional processes available for controlling and managing defaults tags**

- Predisposition for 100% inspection camera.
- 100% inspection camera (EL or BST).
- RFID reader for RFID chip quality control (HF and UHF).
- Marking system for labels containing a defective RFID chip.
- System for destroying defective RFID chips.
- Connection table for removing defective tags.

**Additional processes available for variable data printing, encoding and controlling the encoding**

- Data matrix or variable data code printing system.
- Optical reader for data matrix or variable data codes.
- RFID reader (HF and UHF) for encoding process and control of variable data.



**icontrol·lite**®  
(C4R+)

Inspection Rewinder



The **icontrol Lite** (also named **C4R+**) is a Inspection slitter rewriter and offer the following features :

- Slit with large choice of slitting solutions
- Inspect, by using cells or 100% inspection camera, and stop defects on a splicing table,
- Rewind rolls, on a single shaft, dual shafts or with a semi automatic turret rewriter, with a pre-selected length or number of labels.

**Technical specifications**

Available web width's	350 mm and 420 mm
Maximum unwind roll diameter	800 mm
Maximum rewinding diameter's :	
Single rewind shaft	500 mm
Two mandrels "Alternate Mode"	500 mm
Two mandrels "Simultaneous Mode"	300 mm
Maximum number of slitting blades	10 maxi
Minimum distance between blades	12 mm
Electrical Requirements	4 KW tri 400
Compressed Air Requirements	6 bars
Total Length	2 100 mm
Total Width	1 200 mm
Total Height	1 700 mm
Weight	500 kg
Maximum Web Speed	250 m/min

**icontrol·lite**® D (COMET +)

Multi-functional label die cutting machine



The **icontrol lite D (COMET+)** offers multiple functions:

- Inspection rewriter with rotary die-cutting station(s) (from 1 to 3 die-cutting stations),
- Printing via rotary flexo station(s), label die-cutting and converting (reel-to-reel or reel-to-sheet).

Each machine configuration is available in two widths, 350 mm and 420 mm, and is also completely modular and upgradeable.

**Technical specifications**

Maximum unwind roll diameter	800 mm
Available web width	350 mm and 420 mm
Maximum speed :	
• Rotary die cutting sections	up to 220 m/mn
• With flexo printing section	up to 100 m/mn
• With Jupiter sheeting section	up to 120 m/mn
• With Inspection features	up to 220 m/mn
Min. and Max. size of die cutting cylinder	10 - 24"
Gear system	1/6 inches or 1/8 inches
Maximum roll diameter on the waste unit	500 mm
Maximum rewinding diameter with single rewind shaft	500 mm
Maximum rewinding diameter with two mandrels "Alternative mode"	500 mm
Maximum rewinding diameter with two mandrels "Simultaneous mode"	320 mm
Maximum number of slitting blades	20 (6 standard)
Minimum distance between blades	12 mm
Dimensions COMET+ (LengthxWidthxHeigh mm)	3260 x 1100 x 1700
Dimensions flexo printing head (LengthxWidthxHeigh mm)	800 x 1100 x 1700
Dimensions Jupiter unit (sheeter) (LengthxWidthxHeigh mm)	1730 x 1100x1700
Electrical Requirements. To be defined according cofiguration	
Power tension	400 V Tri + E + N
Compressed air requirement	6 bars



The **easy convert** is a perfect solution for high speed, high quality converting and finishing. Features winding, cold foiling, super varnishing, Semi/full flexo printing, semi/full rotary die cutting and slitting. The optimal solution for high productivity. Fully servo driven.

**Technical specifications**

Max Web Width	330 mm or 420 mm
Max Die-cutting speed (full-rotary)	110 m/min S and L (option 180 m/min for S version)
Max Die-cutting Speed (semi-rotary)	60 m/min version L and 90 m/min version S
Max Flexo Printing Speed (full rotary)	110 m/min
Max Flexo Printing Speed (semi-rotary)	60 m/min
Accuracy of and die Flexo Register	±0.15 mm
Max Unwinder diam.	700 mm version L and 800 mm version S
Max Rewinder diam.	400 mm version L and 800 mm version S
Slitting Precision	±0.2 mm (automatic) ±0.15 mm (shear) ±0.15 mm (razor)
Min Slitting width	≥18 mm (automatic) ≥16 mm (shear) ≥11 mm (razor)
Dimensions	3650×1260×2025 mm version L 3650×1900×1800 mm version S
Weight	3600 kg



**S-L 330/420 (Standard 90 m/min and Lite 60 m/min)**

Flexo Varnish and Die cutting for Digital converting solution

**Unwinder & web guiding**

Servo driven unwind for clockwise and anti-clockwise unwinding. Automatic tension control, end-of-roll detection, web guide, integrated splice table, 76mm unwind mandrel. Factory upgrade to unwind rolls with diam = 1000 mm and a reel lift possible.

**Semi/full rotary flexo**

Independent Servo driven with auto pre-positioning, and registration. Standard equipped with Z152 print cylinder. Optional childrum, standard or LED curing. Semi-rotary print lengths 50mm-386mm and full rotary print lengths: 190.5 mm - 482 mm.

**Cold foil & super varnish**

Optional full or semi-rotary cold foil, in combination with UV standard or LED curing. Can be used for super varnish.

**Semi/full rotary die cutting with snowball waste rewriter**

Independent servo driven with Z152 die-cut cylinder and anvil and counter pressure cylinder. Auto pre-positioning, and registration. Semi-rotary die-cut lengths: 50mm-386mm and full rotary: 190.5mm-482mm. Dispro compensation as standard.

**Slitting options**

Add shear slitting knives. Increase productivity with automatic shear slitting to control the knives from the user-interface. Optional further automation and razorblades.

**Rewinding options**

Standard single rewind. Upgrade to dual rewind, or a semi-automatic turret for optimal productivity.

**IML system**

IML die-cutting system designed for easy installation and removal. Static eliminator in label output collection table works with counter and stepless speed regulation.



The **easy control** is a fully servo advanced inspection slitter rewinder with excellent tension control suitable for label stock and thin film material. The optical camera can recognize and record all defects, while the print flow manager allows the rewinder to stop the defect right on top of the inspection table.

Available in width of 330mm, 450mm and 520mm.

**Technical specifications**

EASYCONTROL available width	330 mm / 450 mm / 520 mm Suitable For AVT, BST, EL also other brands
Max Slitting Speed	300 m/min
Max Unwind Dia.	800 mm (other size available)
Max Rewind Dia. (Single)	800 mm
Slitting Precision	± 0.2 mm (automatic) ± 0.15 mm (shear) ± 0.15 mm (razor)
Min Slit Width	≥ 18 mm (automatic) ≥ 16 mm (standard) ≥ 11 mm (razor)
Blades Installed (included)	6 sets
Maximum Blades (option)	10 sets
Max Buffer Path	7.5 m
Max Paper Path	12.5 m
Total Motor Power	12 kw
Weight	1900 kg



## Inspection rewinder

### Unwinder & web guiding

Servo driven unwind for clockwise and anti-clockwise unwinding. Automatic tension control, end-of-roll detection, web guide, integrated splice table, 76mm Unwind mandrel. Factory upgrade to unwind rolls with diam of 1000mm and a reel.

### Visual table

Movable 2nd splice table with clamps to preserve web tension. Faulty labels will stop right on this inspection table automatically. Take corrective actions by replacing a label or by rewinding larger amount of waste via a rewinder.

### Slitting

SMAG via the Easycontrol offers standard shear slitting with rotary knives, automatic slitting knives, razor blade slitting. A set of dual nip rollers ensures perfect tension in the slitting area. Remove edges after slitting with the suction engine.

### Rewind

Servo driven single shaft, dual shafts or semi-automatic rewinder for clockwise and anti-clockwise rewinding with stable and servo-controlled tension. Possible to add automatically controlled differential rewind shafts.

### Web advance

Optional. The web advance can also function as a lay-on roller when rewinding filmic materials.



The **Easy control** lite automatic slitter rewinder is fully servo-driven and features taper tension control, web guide, a turret rewinder, meter and number of labels counting, static eliminator etc. The ultimate configuration for high productivity and quality.

**Technical specifications**

EASYCONTROL LITE available width	330 mm / 450 mm / 520 mm
Max Speed	300 m/min
Max Unwind Dia.	700 mm
Max Rewind Dia.	400 mm
Auto Slit Precision	± 0.2 mm (automatic) ± 0.15 mm (razor)
Min Slit Width	≥ 18 mm (automatic) ≥ 11 mm (razor)
Blades Installed (included)	6 sets
Maximum Blades (options)	10 sets
Paper path	3 m / 3 m / 4 m
Air Supply	0.4-0.6 MPa / 0.4-0.6 MPa / 0.4-0.6 MPa
Power Supply	3PH + N + PE / 3PH + N + PE / 3PH + N + PE
Total Motor Power	8 kw / 9 kw / 11 kw
Dimensions (mm) (LengthxWidthxHeight)	1750 × 1230 × 1460 / 1750 × 1350 × 1460 / 2300 × 1600 × 1460
Weight	1300 kg / 1600 kg / 1900 kg

**easycontrol.lite**®

Slitter rewinder

**Unwinder & web guiding**

Servo driven unwind for clockwise and anti-clockwise unwinding. Automatic tension control, end-of-roll detection, web guide, integrated splice table, 76mm unwind mandrel. Factory upgrade to unwind rolls with diam = 1000mm and a reel lift possible.

**Automatic slitting**

Automatically positioned slitting knives that are easy to control from the user-interface, including edge-trimming. Maximum of 10 knives allows for a wide range of slitting possibilities. Optionally add manual razor blade also.

**Semi-auto turret**

Semi-automatic 2-spindle turret which will turn automatically and lower a pressure arm upon reaching the counter set. Simple, effective and highly productive. Suitable for clockwise and anti-clockwise rewinding.

**Counter**

High-quality sensor - extra accessories needed for clear-on-clear material.

**Web advance**

The optional web advance comes with additional clamps. And is available for both the upper and lower rewind. The web advance can also function as a lay-on roller when rewinding filmic materials.

**Single layer films**

Suitable to rewind thin films with optional Core-Lock differential rewind shafts. Slip threshold can be controlled from the touchscreen user panel. Lay-on rollers avoid air-bubbles during rewinding.

# easyTurret®

Automatic non stop rewinder 450 mm 4 shafts

The **EasyTurret** is a robust non-stop 4 spindle turret rewinder with automatic glue system, auto eject of the rewound cores fast mandrel change system, and convenient storage of mandrels. Suitable to fit behind any third party machines. Can add slitting as options.



### Technical specifications

Max Web Width	450 mm
Rewind Dia. (mini - maxi)	50-350 mm
Rewind Width (mini - maxi)	50-450 mm
Max Rewind Speed	From 50 up to 120 m/min
Max Number of Rotation	3 rolls per min
Hotmelt Glue Heads	Standard 2, optionally 4
Minimum Suitable Mandrel	25 mm (1")
Maximum Suitable Mandrel	76 mm (3")
Included Mandrels	4 air expandable 76 mm mandrels
Dimensions (mm) (LengthxWidthxHeight)	1870x1550x1990 mm
Weight	1900 Kg

# easyPlotters®

Converting machine « Plotters »  
Digital die cutting



The **easyPlotters** is specifically designed for finishing of ultra short digitally printed rolls of label stock with multiple jobs on one roll. Digital die-cutting without compromising on the look and feel of a traditional die-cut. No die-cut tooling required. Suitable to finish digitally printed rolls with multiple ultra short run jobs with minimum waste. QR code reader included, prepared for JDF integration.

### Technical specifications

Max Web Width	30 mm
Max unwinder dia.	800 mm (≈2000 m)
Unwind mandrel dia	76 mm (3") air expanding
Corona treatment	Optional with 6 Corona bars. Control unit mounted inside the machine
UV curing	Optional Standard UV curing or LED curing. Control unit mounted inside the machine LED water chiller must be positioned outside the machine cabinet
Number of plotter heads	Standard 2 rows of 3 heads. Optionally 4 extra heads
Knife type	Rhyguan Standard 360° Safe and easy to change plotting needles
Max die-cutting speed	8 m/min
Max Die-cutting size	310x310 mm
Accuracy die-cut register	Pressure sensitive material ±0.18 mm
Max rewinder diameter	Standard single rewind 700 mm, optional dual rewind
Inspection	Optionally add inline camera inspection station after die-cutting and waste matrix removal, including additional splice stable. Suitable fo all major brands inspection camera
Minimum suitable mandrel	25 mm (1") (optional)
Maximum suitable mandrel	76 mm (3") with optional sleeves max 150 mm (6")
QR code reader	included
Automatic slitting	Standard 6 knives included. Maximum 12.
Automatic shear slitting accuracy	±0.2 mm
Optional JDF / JMF connectivity	Available with integrated network card
Dimensions (mm) (LengthxWidthxHeight)	3650x1850x1800 mm
Weight	3000 Kg

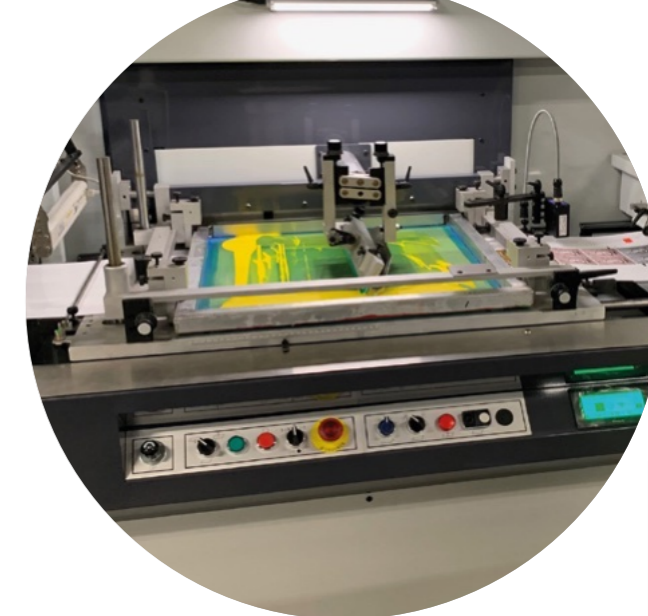
## GALAXIE CLASSIC

### Roll-to-roll flatbed screen printing press



#### Technical specifications

Functions	Multiprocess screen Printing Platform
Modularity	• full
Minimum web width	50 mm
Maximum web width available	270 / 350 mm
Minimum web thickness	30 microns
Maximum web thickness	250 microns
Standard unwind diameter (others as option)	900 mm
Corona treatment : option	•
Web cleaner : option	•
Standard diameter rewinder (others as option)	500 mm (1 shaft) / 300 mm (2 shafts)
Flexo printing cylinder sizes available	from 12" to 24"
Varnishing cylinder stop in the gap between two labels	•
Standard laminating / cold foil unwind diameter	400 mm
Maximum silkscreen printing format (width X length)	340 mm x 340 mm / 340 x 450 mm / 340 x 600 mm
Maximum format flatbed embossing and hot stamping (width X length)	330 mm x 330 mm (30% max. of the surface)
Die cutting cylinder sizes available in rotary or semi rotary mode	de 12" à 25,5"
Waste roll maximum diameter	650 mm
Maximum speed flexo full rotary (mechanical)	17 m/min
Maximum speed flexo semi-rotary mode up to (according ratio between the plate length and cylinder repeat)	17 m/min
Maximum speed flatbed hot stamping HGV (according to plates length and foil quality)	17 m/min
Maximum speed flatbed embossing EGV (according plates length and substrate)	17 m/min
Maximum speed flatbed silkscreen printing (according to printing stroke length and ink)	17 m/min
Maximum speed semi-rotary die cutting mode up to (according to ratio between the plate length and cylinder repeat)	17 m/min
Pressure gauge for rotary/semi rotary die station : standard	•
Gap die adjustment for rotary/semi rotary die station: option	•
Maximum speed flatbed die cutting station type DGV (according to plates length and die shape)	17 m/min
Variable data printing with inkjet technology	•
UV/LED drying : standard UV	•
Hot air / IR drying : option	•
Slitting process	Shear knives, Razor blades, underscoring
Registration length accuracy (machine & each module)	+/- 0,05 mm



The **Galaxie Classic** reel-to-reel screen printing press was launched on the market in 1995 at the Label'Expo Europe trade show. To date, over 800 machines of this type have been installed on all five continents.

The first generations of Galaxie are still in production with our customers. This tried-and-tested mature machine is recognized as the benchmark for high-value labels in the luxury, perfume, spirits and industrial sectors, where print quality and durability are essential.

## Flatbed screen printing process and **GALAXIE CLASSIC**

### Advantages of screen printing over other printing techniques

- High ink resistance: mechanical (friction), chemical and light.
- Extremely high opacity,
- Very high ink deposit,
- Sensory and tactile effects,
- Special ink applications such as thermocromic and conductive inks...

### Modules available on Galaxie Classic

- Screen printing with UV, Infrared and hot-air dryers,
- Semi-rotary flexographic printing,
- Inkjet printing,
- And all in-line finishing modules: foiling, embossing, laminating, die-cutting, waste rewinding, slitting, rewinding....

### Advantages of the Galaxie Classic

- Extremely high register tolerance in single and multi-pass operation,
- Low waste during makeready and printing,
- Total modularity, possibility of constant upgrading,
- A wide range of widths and formats,
- User-friendly.



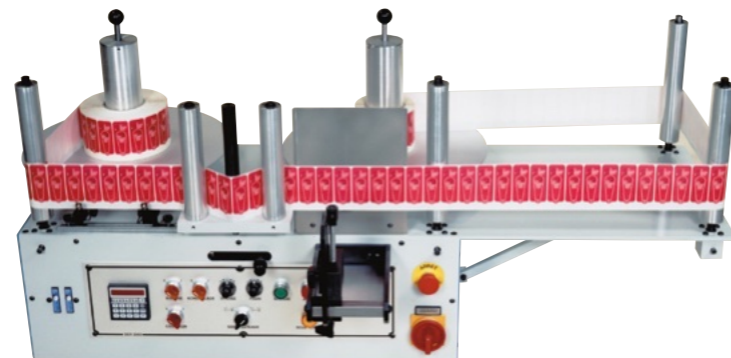


## DCR 2000 and DCR 2000 IJ (Ink Jet)

### Table top inspection rewriter

The **DCR 2000** table top rewriter provides 5 functions :

- Unwind and rewind from right to left, and vice versa, in and out (reversible direction of the mandrels),
- Preset batch and total count,
- Matrix and missing label detector. If a fault is detected the DCR 2000 will automatically stop immediately,
- Visual inspection,
- Variable information printing via inkjet head (DCR2000 IJ version).



#### Technical specifications

Electrical power	220 V mono
Max web width	220 mm
Max Roll diameter	400 mm
Roll max. weight	15 Kg
Dimensions	800 mm (L) x 450 mm (W) x 550 mm (H)
Weight of the machine	60 Kg

## VEGA gen II : Icontrol lite type V

### Servo compact multi-function rewriter

The **Vega** offers, among others, the following features :

- Unwind and rewind from right to left, and vice versa, in and out (reversible direction of the mandrels),
- Preset batch and total count., thus subdividing a master reel into reels.
- 100% camera inspection. If a fault is detected, VEGA II automatically stops the machine on the inspection table,
- Step-by-step operation for inspection, encoding and other applications,
- Integration of inkjet, digital and Braille printing solutions...

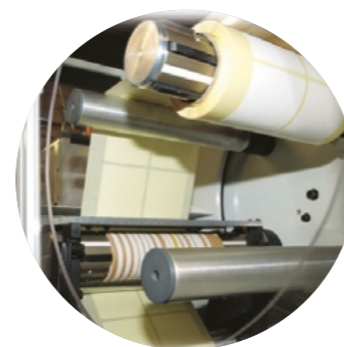


#### Technical specifications

Max. unwinding diameter	450 mm (600 mm option)
Max. rewind diameter	450 mm
Minimum width	20 mm
Max. width (various models)	- 200mm / 270 mm / 350 mm
Speed	up to 200 m/min
Power supply	- 400 V tri +T+ N
Machine dimensions	- 1600 x 1050 x 1450 m m (L, W, H)
Machine weight	400 kg

## URANUS

### Non-stop rewriter



The **Uranus** is non-stop 2 spindle turret rewriter with automatic glue system, auto eject of the rewound cores, and fast mandrel change system. Suitable to fit behind a wide range of roll to roll labels converting and printing presses with a simple electrical interface and no mechanical connections. . Easy handling, easy to carry, reliable and economic non-stop rewriter. Can add slitting as options.



#### Technical specifications

Max.roll rewind Diameter	320 mm
Max. web width	350 mm or 420 mm
Standard diameter pneumatical mandrels	From 25,4 mm to 76 mm (2 x76 mm delivered in standard)
Maximum speed	120 m/min but max 2 complete cycles/mn
Maxi number of lanes	6 lanes

## NEPTUNE

### Inspection rewriter machine

The **NEPTUNE** is a Inspection slitter rewriter in seated working position.

- Slit and vacuum the edges,
- Inspect, by using cells or 100% inspection camera, and stop defects on a splicing table,
- Rewind rolls of pre-selected length or number of labels onto a shaft.



#### Technical specifications

Max. web width	350 mm or 420 mm
Max. unwind roll	950 mm
Max. rewind roll	500 mm
Max. mechanical speed	270 m/min
Max. number of knives	10 (4 in standard)
Min. distance between two knives	12 mm
Power requirement	380 V tri + neutral 4 kW
Air requirement	6 bars - 2,5 Nm³/h
Dimensions	L 2270 x W 1260 x H 1750 mm

## SATURNE

### Off line sheeter

From a printed roll of labels or plain label stock, the **SATURNE** sheeter enables to slit and sheet in registration to a pre-selected length or number of labels onto a conveyor table.



#### Technical specifications

Max. web width	350 mm or 420 mm
Max. unwind roll diameter	850 mm
Max. number of knives	4
Min. distance between two knives	50 mm
Min. sheet stroke	25 mm
Max. sheet stroke	500 mm
Average production speed	3000 to 8000 stokes/h according repeat length
Compressed air	6 bars - 2,5 N m <sup>3</sup> /h
Electrical power	400 V tri + earth + neutral
Dimensions	L = 2400 x W = 1200 x H = 1600 mm
Weight	600 kg

## GEARLESS FAN FOLDER F1

### Fully automated Gearless Fan Folder

Designed for fan folding labels or cardboard. The **F1** can be used either in-line with a printing / converting machine, or off-line with an optional unwinder.

In the In-line mode, no mechanical or electrical connections are required. The F1 will automatically adjust its speed, maintaining a constant paper tension with the machine connected.

The folding register in relation to the substrate feed is permanently controlled electronically by a PLC and managed by a sensor. No gear change is required.



#### Technical specifications

Mini fold length	7"
Maxi fold length	14"
Min web width	90 mm
Max web width	400 mm
Electrical power	400 V tri + earth + neutral
speed	Up to 500 folds per minute according to the job

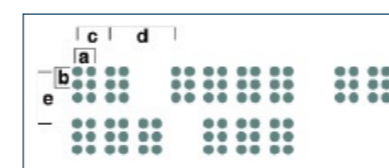
## VEGA Braille Icontrol lite Braille

### Digital Braille printing and converting solution

#### Basic principles of Braille

- Developed in 1825 by the Frenchman Louis Braille
- 6 dots, arranged in two columns of three dots
- Some differences between the individual national languages
- Experienced readers can read 100 words per minute, readers who can see about 250 to 300 words per minute

#### EN 15823 as recommendation for the pharmaceutical and packaging industries



- a - 2,5 mm
- b - 2,5 mm
- c - 6 mm between two characters
- d - 12 mm hyphenation
- e - 10 mm line spacing



## Principles of the Vega Braille developed with HHS Baumer technology XTEND 3

#### Principle of operation

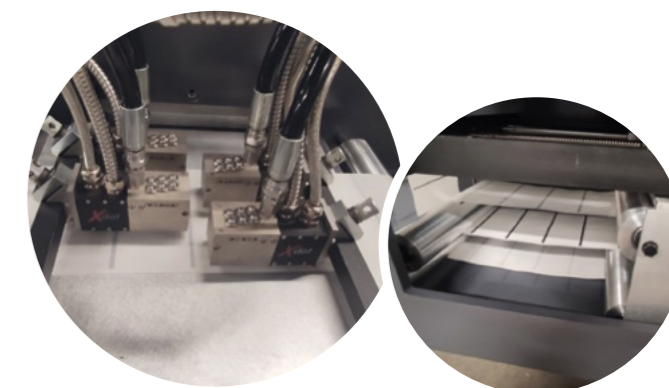
- By means of head equipped with 6 electrically actuated valves, a low viscosity UV varnish is applied in dot form and raised on a substrate and subsequently cured.
- Each printing head can print 2 lines of Braille simultaneously, typeface Marburg Medium
- Application head can be temperature-controlled in order to regulate the varnish viscosity and keep it constant

#### Advantages

- Print on demand, no artwork or tooling
- Integrate software
- Fast Set up time and no waste...

#### UV varnish

- The UV varnish hardens by means of a chemical reaction (polymerization), excited by a UV lamp, to form a hard film.
- A servo compensation trolley, during the machine stop process, will pool the web back and forward under the UV section in order to have no waste.



#### Technical specifications

Max. unwinding diameter	450 mm (600 mm option)
Max. rewind diameter	450 mm
Minimum width	20 mm
Max. width (various models)	200mm / 270 mm / 350 mm / 450 mm and 530 mm
Speed	up to 50 m/min
Power supply	400 V tri +T+ N
Machine dimensions:	according web width model
Machine weight	according web width model

## LEV'BOB Roll lifter

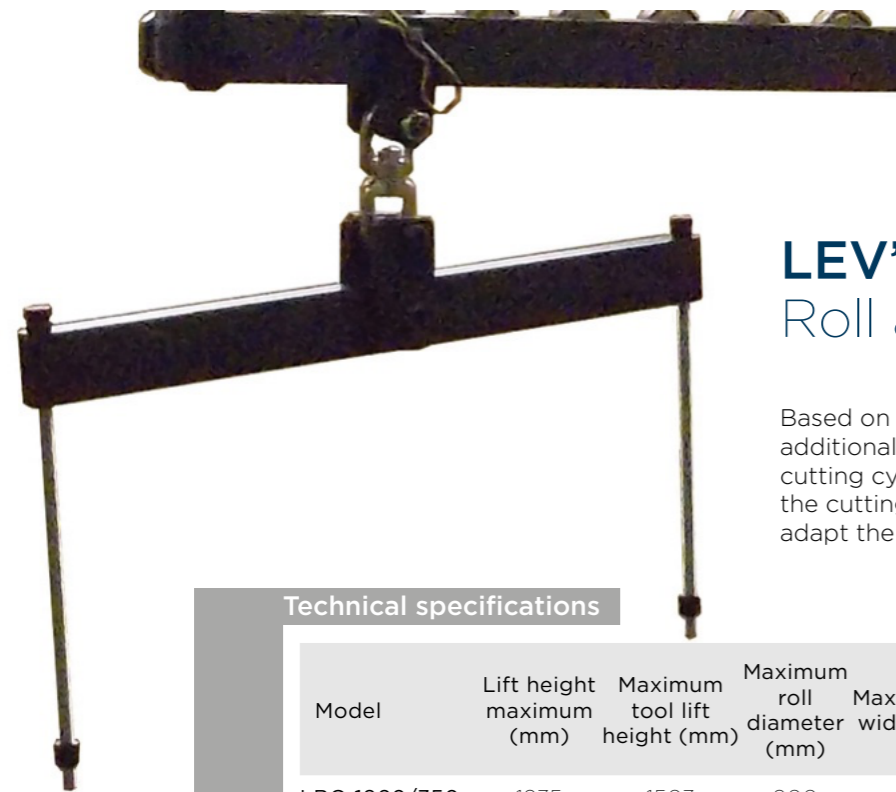
Roll lifter for handling reels (adhesive material, cardboard, film, aluminum, complex...), loading and unloading on machine.

It reduces the difficulty and prevents any accidents that may occur when handling reels.

Several models are available with different lift heights that can accept different reels diameters and weights (refer to the table below).

### Technical specifications

Model	Lift height maximum (mm)	Maximum roll diameter (mm)	Maximum roll width (mm)	Maximum roll weight (Kg)	Maximum weight with heavy load option (Kg)
LBB 1160	1160	900	450	150	250
LBB 1460	1460	900	530	150	250
LBB 1960	1960	900	450	150	250
LBB 2240	2240	900	530	150	250
LBB 2390 Jumbo	2390	1400	530	250	Standard



## LEV'OUTILS Roll ans tools lifter

Based on the 1960 mm roll lifter (LBB 1960), but additionally equipped with a hoist for handling die cutting cylinders. Please specify to your sales contact the cutting cylinders features to be handled in order to adapt the hooks of the hoist.

### Technical specifications

Model	Lift height maximum (mm)	Maximum tool lift height (mm)	Maximum roll diameter (mm)	Maximum roll width (mm)	Cylinder width (mm)	Maximum reel or cylinder weight (Kgs)	Maximum weight with heavy load option (Kg)
LBO 1960/350	1935	1503	900	450	350	150	250
LBO 1960/450	1935	1503	900	450	450	150	250
LBO 1960/530	1935	1503	900	450	530	150	250

## MOBILE TRIM BLOWER

Mobile powerful trim blower with high airflow. This equipment is highly efficient for vacuuming the edges from all printing, die-cutting and converting machines.

### Technical specifications

Power	220 V Single phase
Height	1,3 m
Weight	20 Kg
EC or UL compliance	



## CLEANING FOUNTAIN

### Cleaning fountain for printing accessories

The cleaning fountain is specially designed for the cleaning of printing cylinders, ink trays, ink rollers, silkscreen frames... (all types of inks).

Its large washing tank is entirely made of stainless steel and also includes a storage area at the bottom and lateral anti-projection ink guard.

### Technical specifications

Width	1,04 m
Depth	66 cm
Height of worktable	1,42 m
Fluid capacity	30 liters
Tyre equipment	6 bars
Weight	80 Kg





## SECOND-HAND SMAG APPROVED MACHINES

Depending on machines and stock availability, we offer a range of used SMAG machines, but only in the SMAG Approved version.

### Overhaul and/or rebuild of the entire machine, depending on the chosen formula

We "go the extra mile" for SMAG Approved used machines. Our technicians uncompromisingly check the machine's mechanical, electronic and electrical condition, replace any necessary parts, check its operation and update its documentation. We give you more than just proof of quality. We give you long-term confidence.

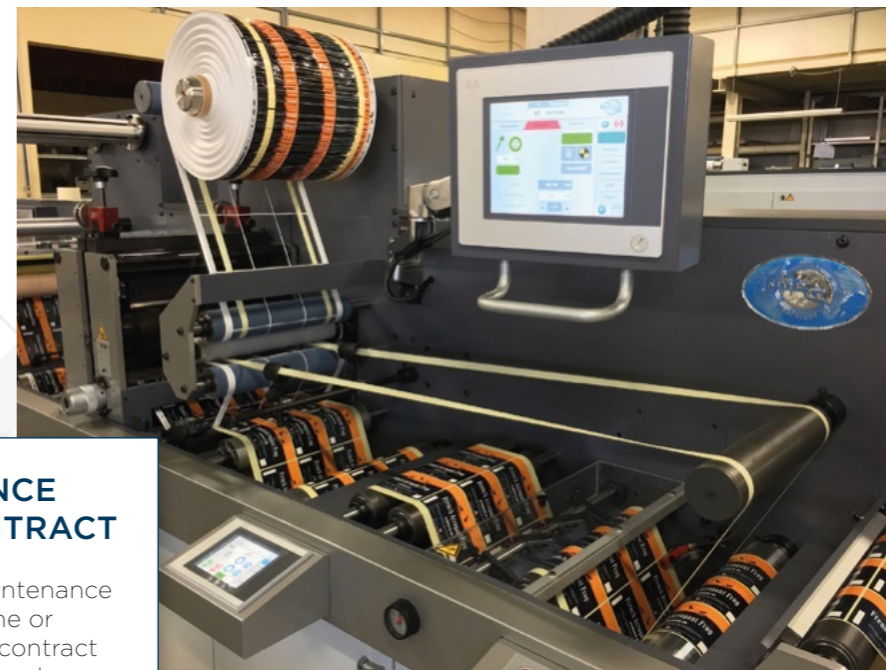
### Machine preparation

Nothing escapes the eye of our technicians. They check all functions and carry out any necessary repairs using original SMAG parts. Attention to detail is also given to esthetic preparation. With passion, we aim for perfection to restore our SMAG Approved used machines to as close to new condition as possible.



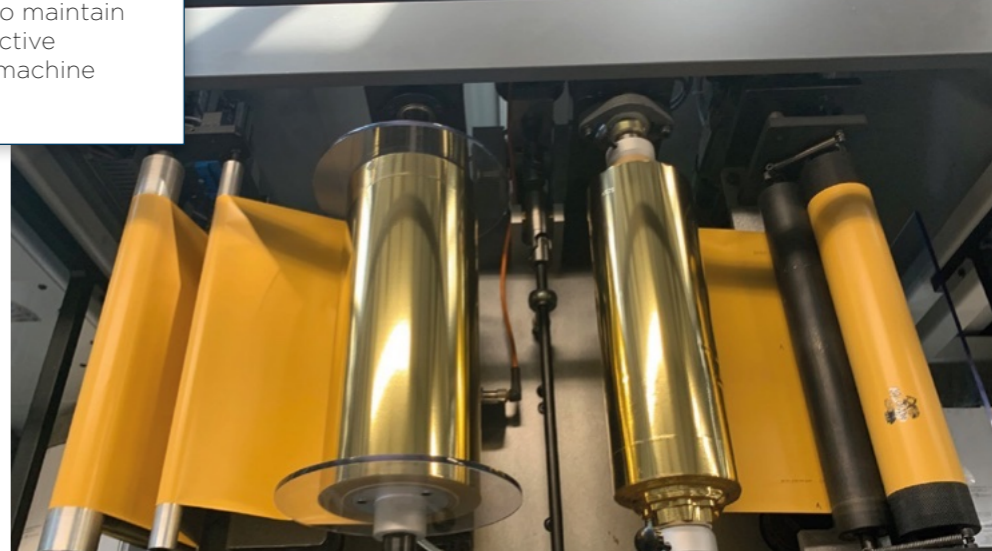
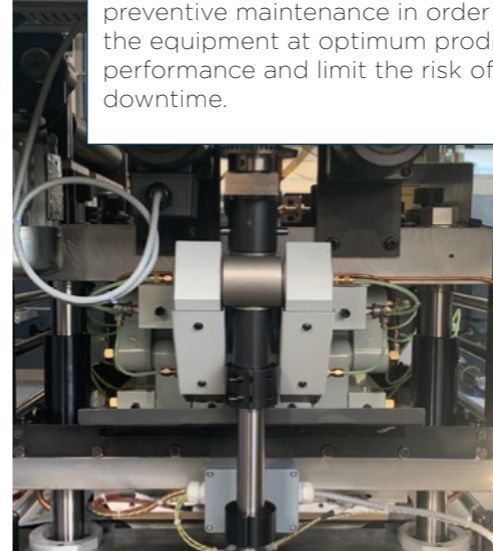
### SMAG Approved for peace of mind on your secondhand machine

Every certified pre-owned machine comes with a 6 to 12 months SMAG Approved warranty, including SMAG Assistance. Our warranty covers all components of your SMAG machine and provides you with the same level of service as our warranty on a new SMAG machine.



### PREVENTIVE MAINTENANCE AND MAINTENANCE CONTRACT

We can also set up a preventive maintenance contract for a specific SMAG machine or your fleet of SMAG machines. Each contract provides for a certain number of annual visits by a SMAG technician to carry out preventive maintenance in order to maintain the equipment at optimum productive performance and limit the risk of machine downtime.



## OUR PARTNER SUPPLIERS

**SMAG Graphique** has built up a network of partner suppliers over more than 40 years, and has always pursued a policy of loyalty to them. It relies on their expertise to keep the company abreast of new developments and ensure equipment reliability. These partners are located all over the world and are recognized for the quality of their components, products and solutions.

## OUR DISTRIBUTORS NETWORK

**SMAG Graphique** has developed a worldwide sales network to meet our customers' needs in their native language and in the appropriate time zone. Experts in the self-adhesive label industry, our distributors are at your disposal to advise you and offer you our best solutions for printing and finishing your labels, as well as for technical assistance.

**For further details of your local distributor, please visit our web page.**



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and develop  
the product  
identification  
of tomorrow”



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