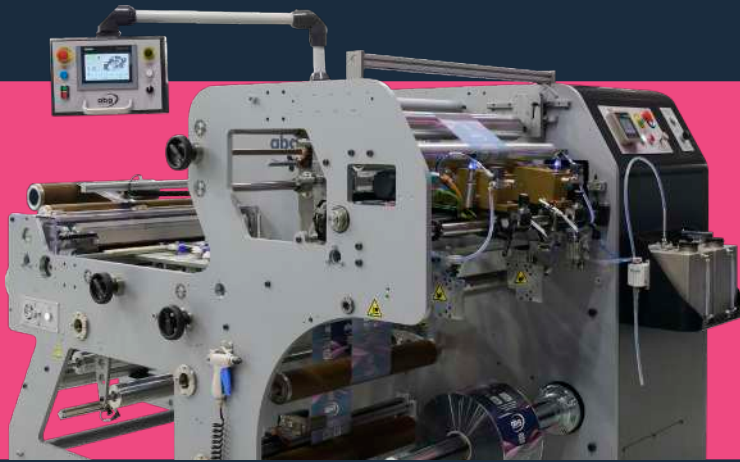




SMART SHRINK SLEEVE SOLUTIONS



WELCOME TO A B GRAPHIC INTERNATIONAL

ABG was established in Yorkshire (UK) by the Burton family back in 1954. We quickly established strong roots as an engineering operation; a foundation that still remains firmly in place today.

Fast forward and today we are the global leader in innovative label and packaging solutions.

Our ongoing expansion into new territories has been made possible by the passion and commitment of our global family of 500 experts, delivering the very best, cutting-edge print finishing solutions for our clients across the globe.

We remain 100% family owned and our global team still maintains those same core values of decency, integrity and above and beyond.

Today we offer a full range of products, including solutions to form and seam sleeves, innovating the production process of sleeve labels.



Seaming

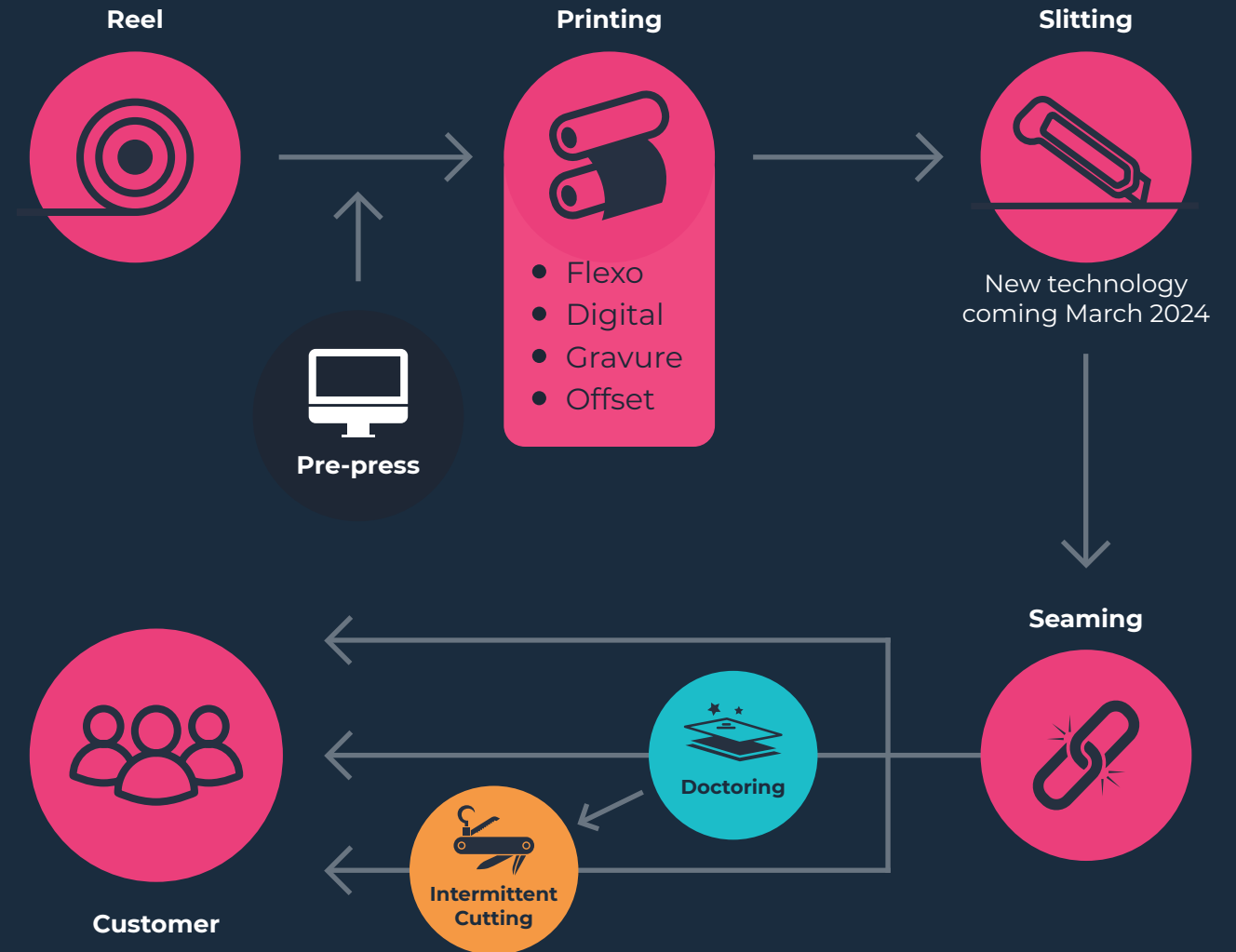


Doctoring



Cutting

SHRINK SLEEVE PROCESS





SEAMING

Our Shrink Sleeve Seaming Machines convert a flat film reel, into a single sleeve label or multiple sleeves. This label, once placed to the final product, conforms to the shape of the container in various ways, as seen below.



Middle



Full Body



Full Body & Cap



Multi-Pack

Our modular seaming solutions ensure a constant and strong weld, so the seam doesn't break when heat is applied, as well as a flat, clean weld due to our unique application system. The chemical weld is applied with solvent, using our proprietary solvent grafix.



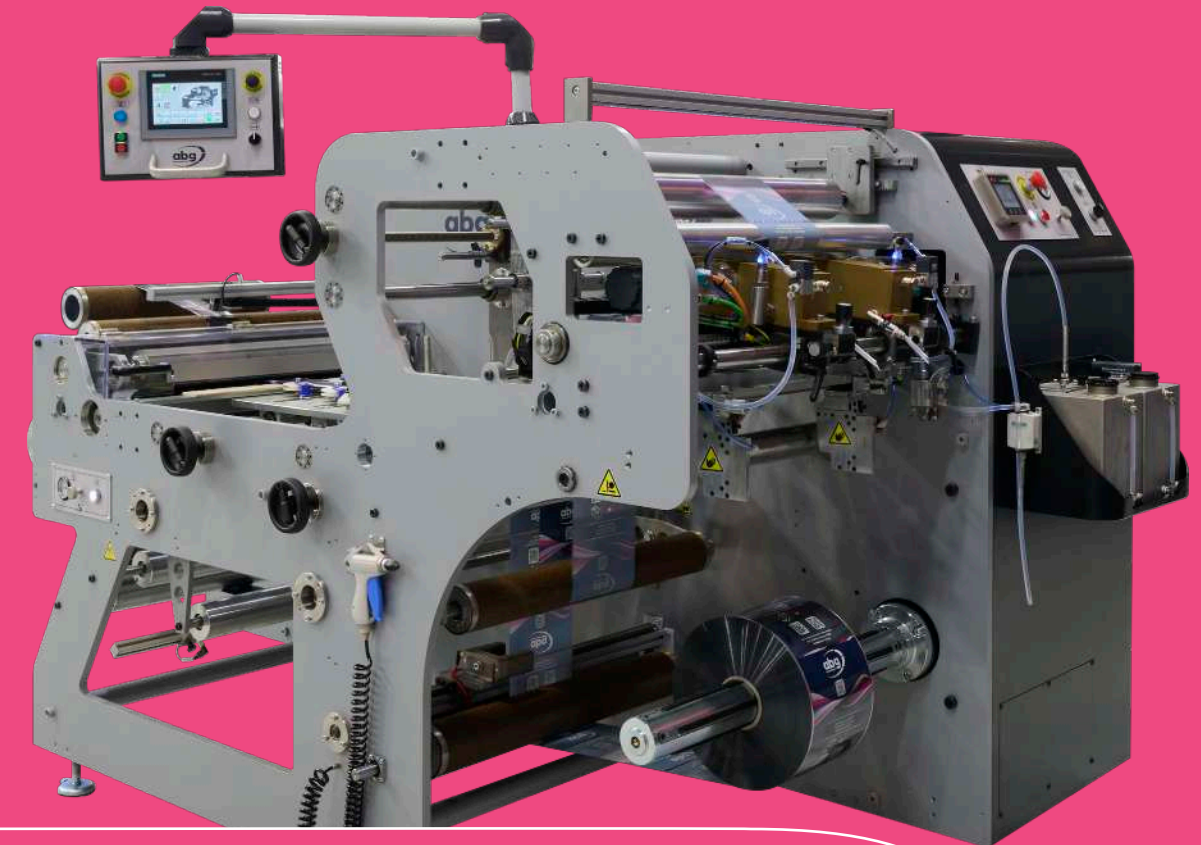
Our seaming machines are unique, as they use a Smart Wheel which is a bespoke solution from ABG. The Smart Wheel applies a consistent layer of solvent creating numerous benefits including: less waste, greater consistency of solvent application and a more reliable weld.

SHRINK SLEEVE SEAMING REWINDER (SR)

The SR provides reliable product quality and saves time with its motorised roller system.

Processes and Technology

- Unwinding
- Longitudinal pre-cutting
- Width control
- UV control
- Single or double seaming rewinding

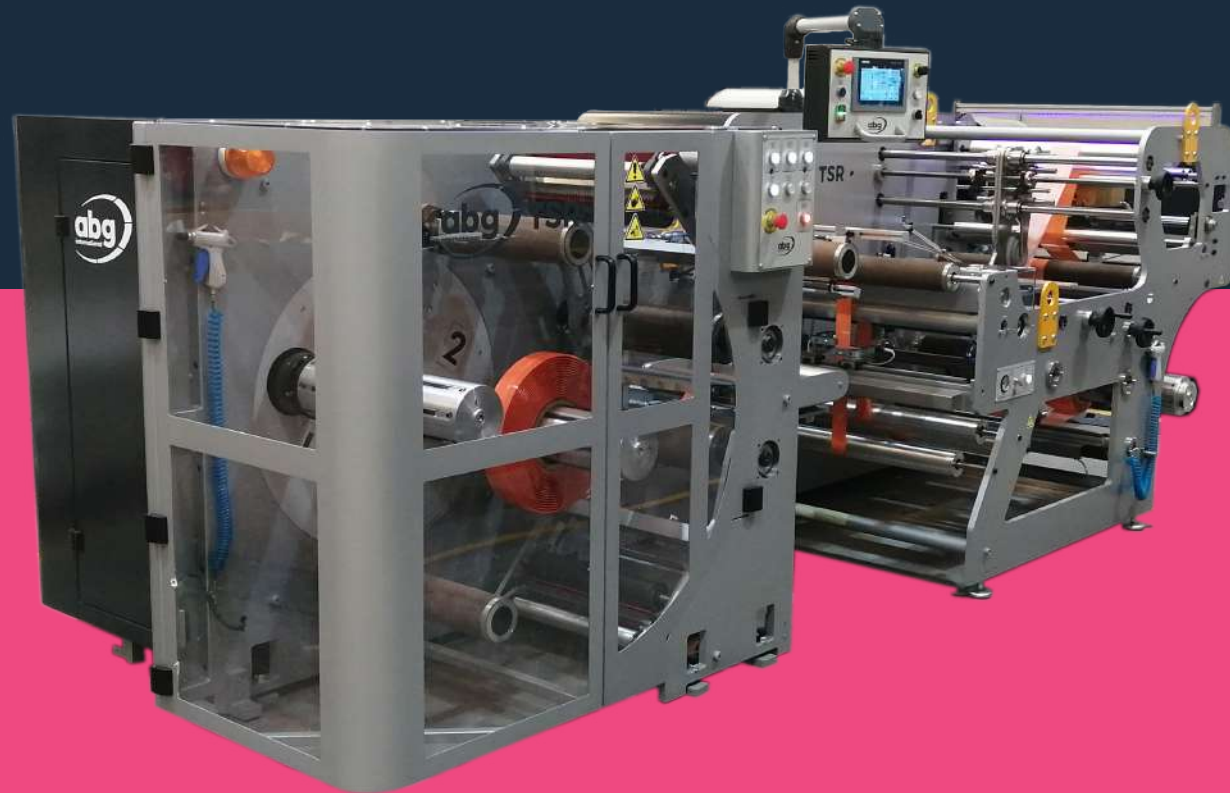


SHRINK SLEEVE TURRET SEAMING REWINDER (TSR)

**High productivity machine
ideal for small diameter
finished reels with
automatic rewind splicing.**

Processes and Technology

- Unwinding
- Longitudinal pre-cutting
- Width control
- UV control
- Seaming turret rewinding

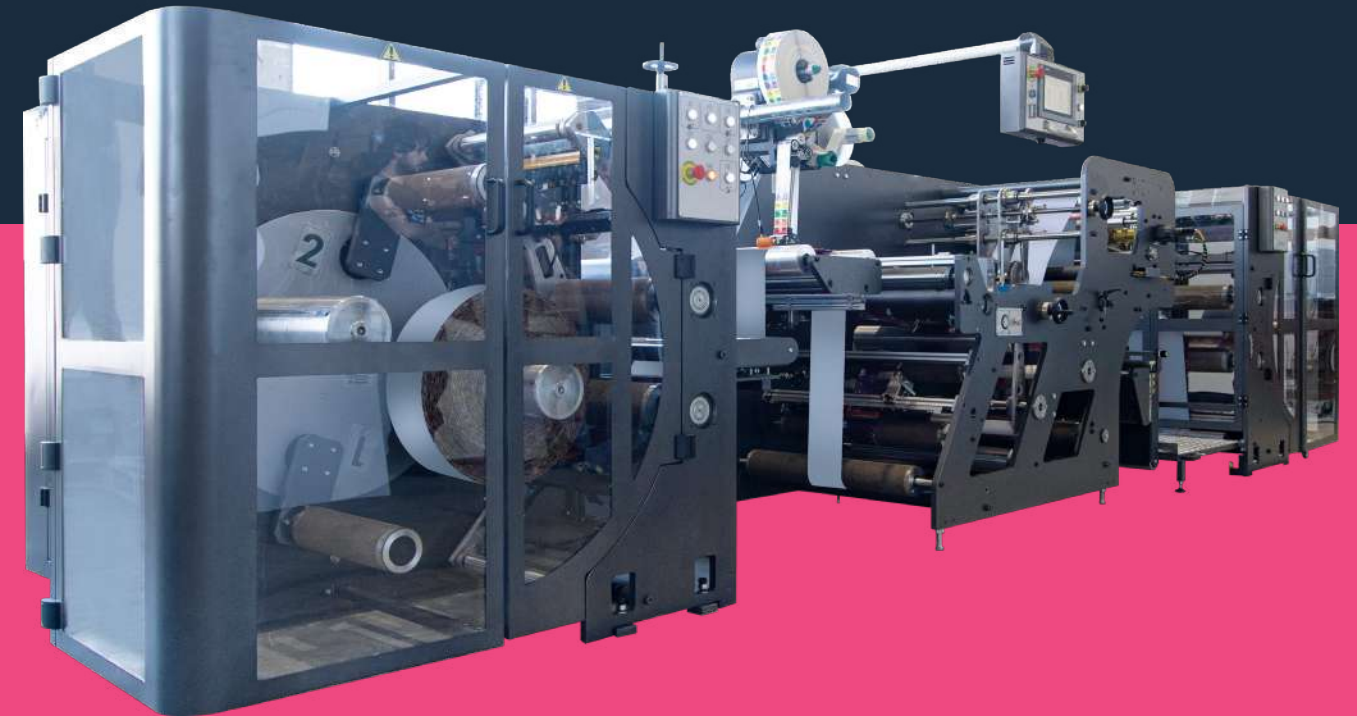


SHRINK SLEEVE DOUBLE TURRET SEAMING REWINDER (TSR2)

**High productivity machine
ideal for long run jobs with
automatic unwind /rewind
splicing.**

Processes and Technology

- Turret unwinding
- Longitudinal pre-cutting
- Width control
- UV control
- Seaming turret rewinding



SEAMING SPECIFICATIONS

General Characteristics	
Maximum Web Width	610mm
Minimum Web Width	65mm
Thickness of the Material	30 to 100µm
Mechanical Speed	400 m/min
Unwinder	
Type of Shaft	Expandable Cantilever
Shaft Diameter	76.2 mm (3") / Option 152.4mm (6")
Maximum Reel Diameter	600mm
Shaft Motorisation	Servomotor
Tension Control	Yes, by pneumatic dancer
End of Reel (reel diameter control)	Yes
Web Guide	Yes, Automatic
Infeed Unit	
Motorisation	Servomotor
Application System Smart Wheel	
Number of Applicators	1 or 2 in option
Motorisation and Synchronisation of the Applicator	Servomotor
Adjustable Seaming Position	Manual
Sleeve Tolerance	-0.0 + 0.3

Seaming	
Sleeve Width	35mm to 300mm
Adjustable Seaming Position	Yes
Rewinder	
Type of Shaft	Expandable cantilever shaft
Shaft Diameter	152mm (6")
Shaft Motorisation	Servomotor
Tension Control	Yes, by pneumatic dancer
Transverse Oscillatory Movement	Yes
Oscillation Distance	0-25mm adjustable
Maximum Reel Diameter	600mm
Options	
Recipes	Optional
Remote Support	Optional
Other Optional	Antistatic bar, second smart wheel, smart wheel automatic positioning, longitudinal pre-cutting, tooling for automatic width adjustment, width inspection, UV inspection, tooling for Narrow Sleeve.





DOCTORING

The shrink sleeve doctoring and rewinder machine (DR) is designed to control, detect and sanitise any defects. It also has an alignment system and a splicing table for correcting defects.

Bidirectional sleeve doctoring and rewinding machine

Processes and Technology

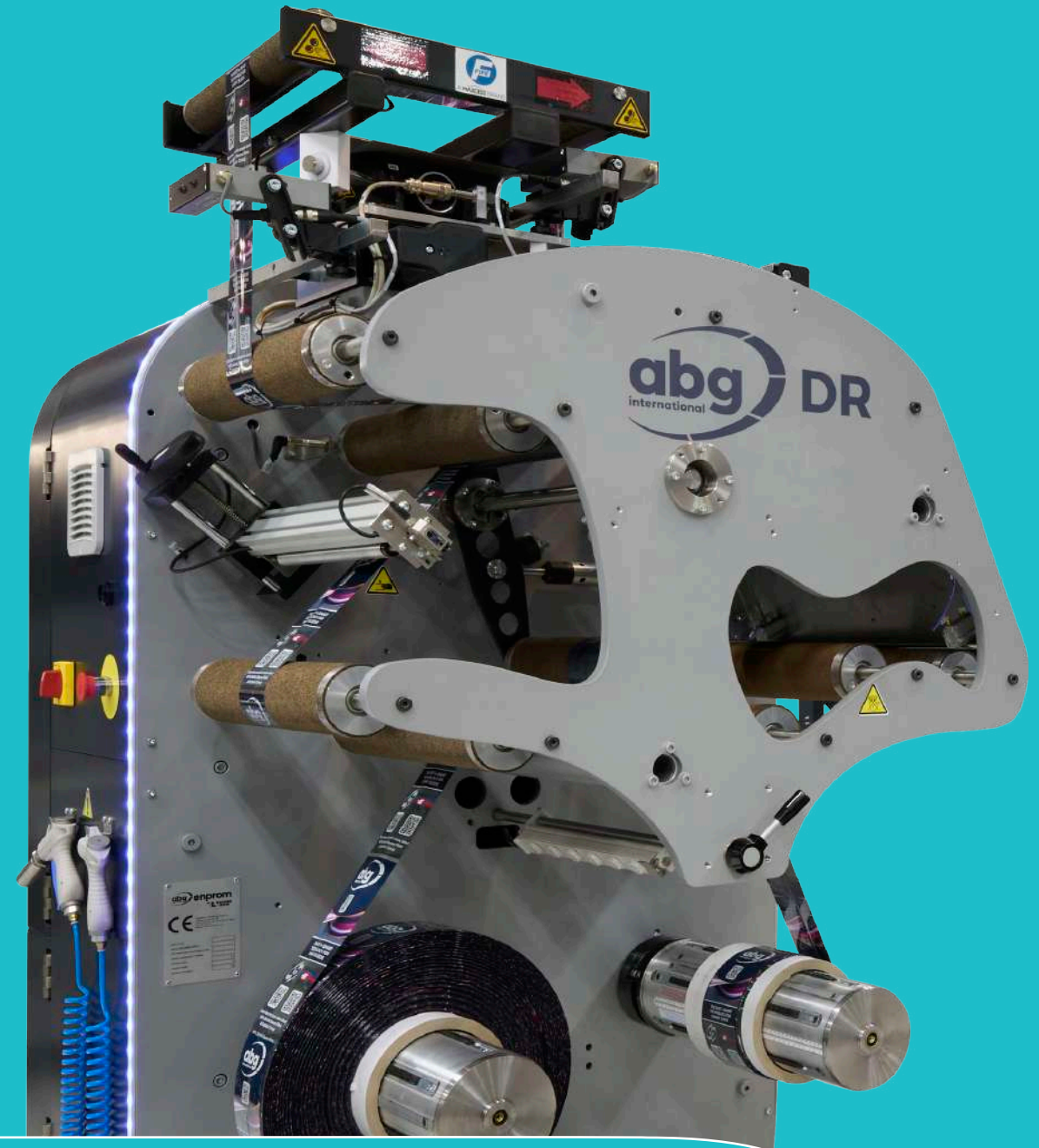
- Bidirectional unwind and rewind
- Air balloon inspection
- Space reserved to any inspection inline
- Splicing table



Air
Balloon



Splicing
Table



SHRINK SLEEVE DOCTORING & REWINDER (DR)

The DR bidirectional machine is designed to unwind and rewind material to inspect and detect defects.

To carry out the process, the machine offers a single compact unit with integrated unwinder and rewinder. The supply includes a splicing table for the correction of defects.



Shrink Sleeve

Verify the correct seaming of the sleeve tube using the balloon validation system with electronic detection.



Duality

Inspection and doctoring solution for sleeve and flexible packaging.



Versatile

Able to incorporate any in-line inspection system. Ergonomic & safe, a new design for comfort and operator safety.



Multi-purpose

Warning system incorporated using LED lamps that serve as a guide for the operator and notify all machine statuses.

An acoustic alarm is included.



Flexible Packaging

Reducing slitting defects & repair printing enabled by inspecting, checking, and doctoring reels up to 400mm web width.



Reversible

Bidirectional machine with error detection.

When errors are spotted, the machine automatically slows down and errors are placed on the splicing table.

The LED light glows orange to alert the operator that a visual inspection is required.

General Characteristics

Maximum Web Width	400mm
Minimum Web Width	30mm
Material Thickness	From 30 to 100 mm
Mechanical Speed	400 m/min

Unwinder/Rewinder

Shaft Type Expandable	Cantilever
Maximum Reel Diameter	600mm
Core Diameter	152.4mm (6") / 76mm (3")
Motorised	Servomotor
Maximum Reel Weight	160kg
Web Guide	Yes, in both senses
Oscillation Movement	Yes
Tension Control	Pneumatic Dancer Roller

Inspection System & Options

Air Ballon System	Yes
Splicing Table	Yes
UV light	Optional
Splice Detector	Optional
Width Control	Optional
Stroboscopic Lamp	Optional
Printing Inspection	Optional
Antistatic Bar	Optional
Pressure Roller	Optional
Remote Technical Support	Optional



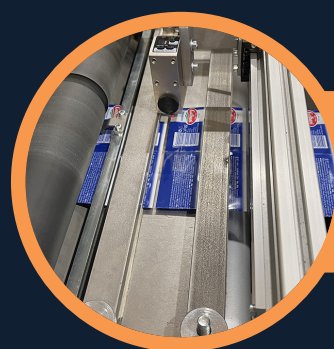
CUTTING

Our automatic cutting machine converts shrink sleeve reels into single sleeves with pre-stacking.

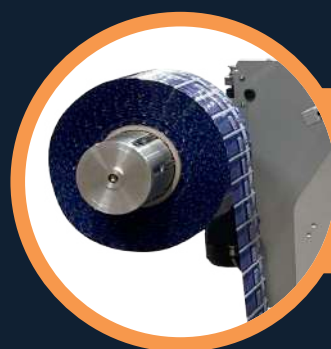
The IC can be configured to start in reel and finish in format through the stacking table.

Processes and Technology

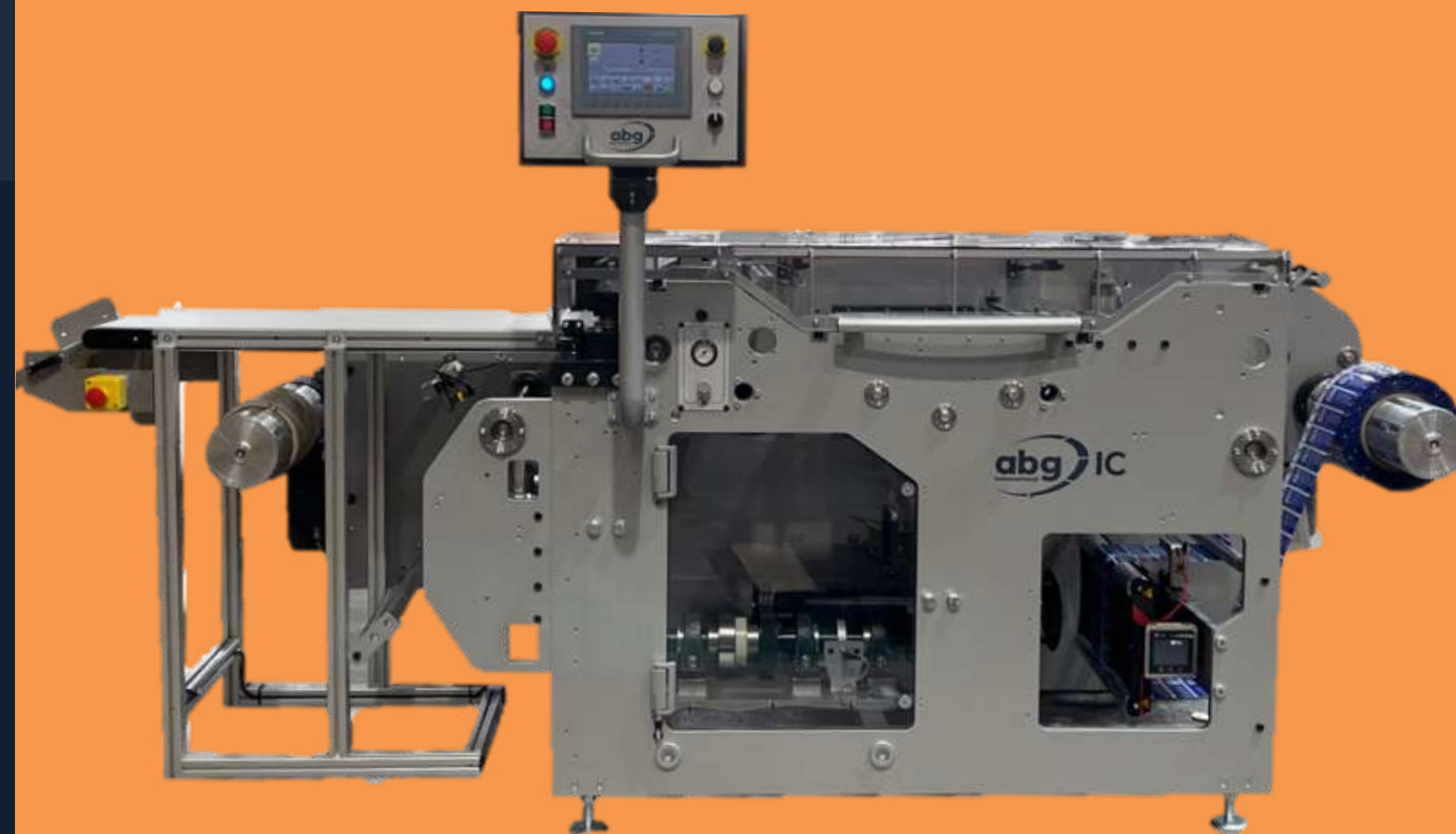
- Unwinding
- Transversal cutting for formats
- Transversal precutting for format or reels
- Rewinding



Intermittent Cutting



Rewinder



SHRINK SLEEVE

INTERMITTENT CUTTING (IC)

The cutting system is completed with a shear cut, and the movement driven by the motor.

The movement of the rollers and the cut are electronically synchronised, which optimises movements and improves productivity.

**Accuracy**

Perfect the length of the cut or perforation.

**Design**

Ease of operating due to its ergonomic design.

**Compatible**

A wide range of sleeves & materials available.

**Tech Support**

Remote maintenance and technical support.

**Easy To Run**

Very low maintenance to operate.

**Versatile**

Performing simple and demanding tasks.

**High End Components**

Manufactured mechanically and electronically using only the best components available to us.

**The IC is capable of...**

- Sleeve cutting at register.
- Sleeve cutting and transversal pre-cutting at register.
- Exit in reels with pre-cutting at register.

General Characteristics	
Maximum Web Width	400mm
Minimum Web Width	35mm
Material Type	Shrink Sleeve
Minimum Cutting Length	30mm
Maximum Cutting Length	350mm
Precision	+/- 0.3mm
Maximum Mechanical Speed	45 m/min
Maximum Cutting Speed	400 cycles/min
Unwinder	
Shaft Type	Expandable Cantilever
Maximum Reel Diameter	600mm
Core Diameter	152mm (6")
Shaft Driven	Servomotor
Web Guide in Unwinder	Yes
Option Exit 1: Rewinder	
Shaft Type	Expandable Cantilever
Maximum Reel Diameter	600mm
Core Diameter	152mm (6")
Oscillation Movement	Yes
Option Exit 2: Stacking Table	
Staged Output	Yes, variable quantity
Options	
Recipes	Recommended
Remote Support	Recommended
Un/Rewinder Shaft for 3"	Optional
Static Bars	Optional
Kit for Cross Pre-Cutting	Optional

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Shrink Sleeve

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