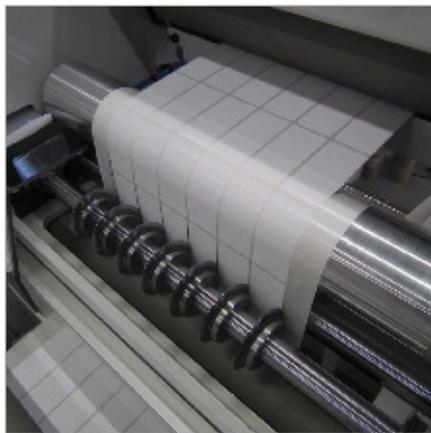




Finishing equipment for the label and narrow web industries





World Headquarters, Ipswich, UK

Company profile

ASHE Converting Equipment is a family owned company, established in 1976, and a global manufacturer and supplier of specialist state of the art converting and slitting and rewinding machinery for the film, paper and allied web industries, ranging from widths of 300mm (12") up to a maximum of 8700mm (343").

The company's headquarters is in Ipswich, UK, where all of Ashe's machines are designed by an experienced team of mechanical engineers using the latest engineering software. They work alongside dedicated software engineers who are responsible for tailoring software that make each machine 'user friendly'.

Our superior level of technical expertise is reflected in the standard of technology you'll find in all of our machines. We have subsidiaries in Vermont U.S.A. and China for Sales and Service (see back page for details) and have a worldwide network of qualified agents which can be found at **www.ashe.co.uk**





Opal Series Product range



Label Inspection Slitter Rewinders

Opal ISR Series

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Label Converting Lines

Opal LCL Series

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Automated Label Converting Lines

Opal ALCL Series

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In-line/Off-line Turrets

Opal ILT Series

p9

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Economy and 100% Inspection

Opal EC Series

p11

Opal 100% Inspection

p12



Narrow Web Slitter Rewinders

Solitaire Series

p13-14



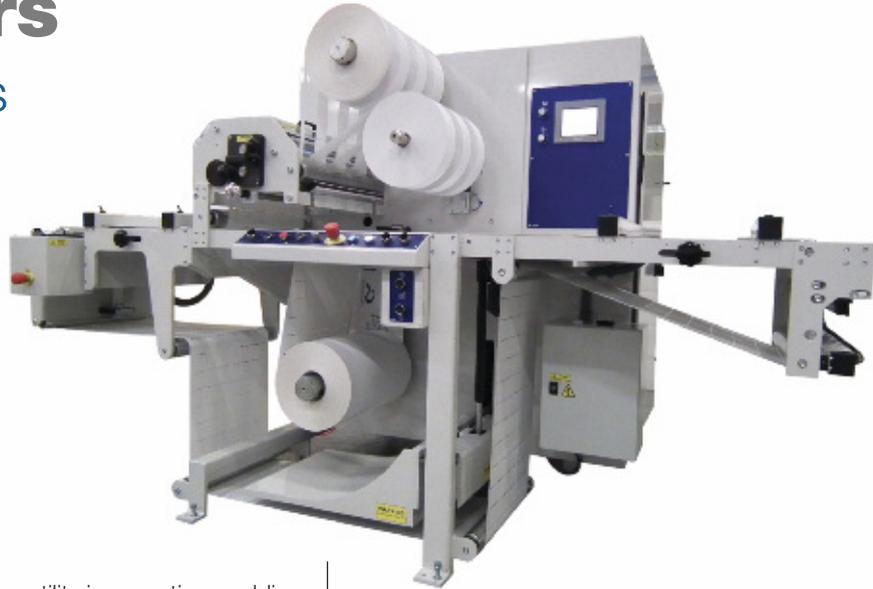
Ancillary Equipment

p15-18



Label Inspection Slitter Rewinders

Opal ISR Series



Features:

- The ISR Series is designed for versatility in operation enabling simple set up.
- The latest range operates through a direct servo driving system.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Driven rotary shear slitting system as standard.
- Full manual lateral adjustment of knives during running.
- High speed operation with rapid stop and start.
- Easy lock/unlock adjustable rewind to run any size of core between 19mm - 152mm.
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control with servo driven nip for tension isolation between unwind and rewind settings.
- Unwind and pre-slitting adjustable splice tables.
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.



Specifications:

Machine Width:	330mm, 430mm, 520mm (13", 17", 21")
Unwind Diameter:	800mm, 1,000mm, 1,270mm (32", 40", 50")
Rewind Diameter:	300mm, 500mm, 600mm (12", 20", 24")
Maximum Operating Speed:	300mpm (1,000ft/min)
Materials to be run:	Paper and Film PS materials and unsupported film
Thickness of material:	12 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor

Options available:

- **Slitting** - Razor and Crush facilities available. Off-line, cartridge set up systems.
- Fully automatic knife positioning system.
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Rewind Web Advance System** - Maintains rewind web tension during slit reel removal.
- **Rewind web clamp** - Maintains rewind web tension during slit reel removal.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Duplex rewind** - For the slitting/rewinding of unsupported products.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems





Label Converting Lines

Opal LCL Series



Specifications:

Machine Width:	330mm, 430mm, 520mm (13", 17", 21")
Unwind Diameter:	800mm, 1,000mm, 1,270mm (32", 40", 50")
Rewind Diameter:	300mm, 500mm, 600mm (12", 20", 24")
Maximum Operating Speed:	230mpm (750ft/min)
Materials to be run:	Paper and Film PS materials and unsupported film
Thickness of material:	12 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor



Features:

- The LCL Series is designed for versatility in operation.
- The latest range operates through a direct servo driving system.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Modular design enabling ease of adding modules to suit individual requirements.
- 1,2,3 driven die stations available - each individually servo driven.
- All existing tooling capable of running in each die station.
- Die station designed to suit each customer.
- Standard sizes of die cylinder to be run in each station - 10" to 30"
- Lateral adjustment of each die station during operation.
- Servo nip drives for precise tension adjustment and isolation during die cutting process.
- Die tool lift up facility for cut/not cut function.
- Oiling pads for continuous lubrication of bearers in each die station.
- Driven waste rewind with adjustable tension strip assist system.
- Driven rotary shear slitting system as standard.
- Full manual lateral adjustment of knives during running.
- High speed operation with rapid stop and start.
- Easy lock/unlock adjustable rewind to run any size of core between 19mm - 152mm.
- Labels wound inside/outside facility.
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control with servo driven nip for tension isolation between unwind and rewind settings.
- Unwind and pre-slitting adjustable splice tables.
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.

Optionals available:

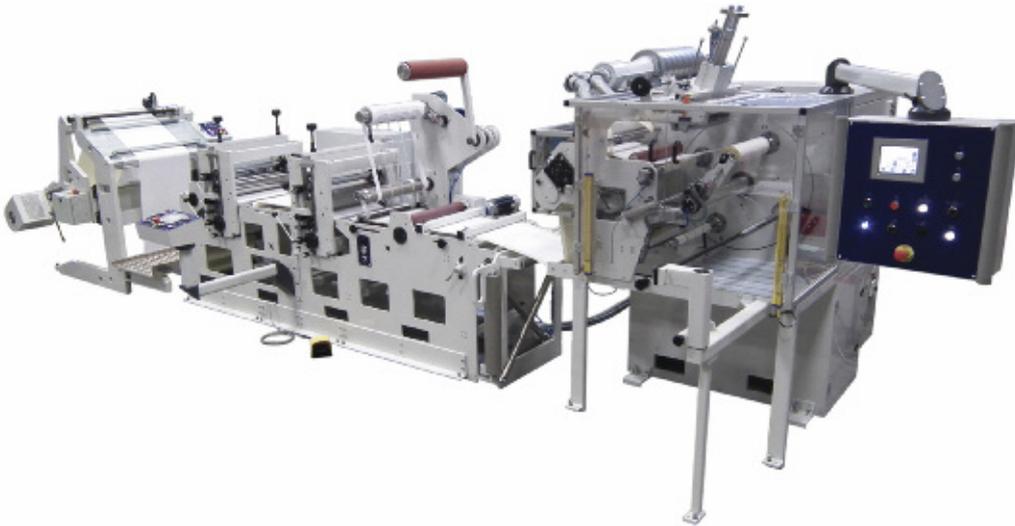
- **Slitting** - Razor and Crush facilities available. Off-line, cartridge set up systems.
- Fully automatic knife positioning system.
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Rewind Web Advance System** - Maintains rewind web tension during slit reel removal.
- **Rewind web clamp** - Maintains rewind web tension during slit reel removal.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Duplex rewind** - For the slitting/rewinding of unsupported products.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.
- **Re-Registration System** - To allow for pre-printed materials to be cut to register mark.
- **Adjustable Anvil upgrade** - Gap Master offered as standard but others can be offered.
- **Down pressure Hydro-jacks** - To view the amount of pressure on each die tool.
- **Removable Anvil system** - Due to three shaft design in die station.
- **Die tool and Anvil changeover** - To allow cutting processes to back of materials.
- **Back scoring device** - To cut backing material edge to wind edge trim into waste wind.
- **Laminating Station** - Driven unwind to laminate materials prior to die cutting.
- **Further Unwind/Rewinds** - Available to suit each customer's requirements.
- **Fully adjustable web path** - To allow for further module additions and inspection.





Automated Label Converting Lines

Opal ALCL Series



Features:

- The ALCL Series offers modular design enabling multiple configuration possibilities.
- The latest range operates through a direct servo driving system.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Special plasma coated rollers for adhesive material production.
- Modular design enabling ease of adding modules to suit individual requirements.
- 1,2,3 driven die stations available - each individually servo driven.
- All existing die tooling capable of running in each die station.
- Die station designed to suit each customer requirement.
- Standard sizes of die cylinder to be run in each station - 10" to 30"
- Lateral adjustment of each die station during operation.
- Servo nip drives for precise tension adjustment and isolation during die cutting process.
- Die tool lift up facility for cut engage/disengage function.
- Oiling pads for continuous lubrication of bearers in each die station.
- Driven waste rewind with adjustable tension strip assist system.
- Driven rotary shear slitting system as standard.
- Full manual lateral adjustment of knives during running.
- High speed operation with rapid stop and start.
- Easy lock/unlock adjustable rewind shafts to run any size of finished rewind core.
- Core sizes possible - 19mm to 102mm.
- Automated material attachment to cores via glue or glue-less patented cinch assembly.
- Automated material reel tail closure via glue or label (print facility available).
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control with servo driven nip for tension isolation between unwind and rewind settings.
- Unwind and pre-slitting adjustable splice tables.
- Length (metres or feet) and label count control.
- 2 x 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.



Optionals available:

- **Automated core loading** - chute systems or bowl feeding systems.
- Various designs to suit all core sizes
- Automated conveyor system to load cores each cycle in one movement for fast cycle time.
- **Slitting** - Razor and Crush facilities available. Off-line, cartridge set up systems.
- Fully automatic knife positioning system (set 6 x knives within 90 seconds).
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Web paths modified/extended for use of inspection requirement.
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Inter-label cutting** - With accumulator for continuous line speed operation.
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Waste rewind Lay on roller** - Pneumatically loaded/adjusted to suit matrix requirement.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.
- **Adjustable Anvil upgrade** - Gap Master offered as standard but others can be offered.
- **Down pressure Hydro-jacks** - To view the amount of pressure on each die tool.
- **Removable Anvil system** - Due to three shaft design in die station.
- **Die tool and Anvil changeover** - To allow cutting processes to back of materials.
- **Re-Registration System** - To allow for pre-printed materials to be cut to register mark.
- **Back scoring device** - To cut backing material edge to wind edge trim into waste wind.
- **Air assisted turner bar** - Fully adjustable to suit web width to enable inside winding.
- **Laminating Station** - Driven unwind to laminate materials prior to die cutting.
- **Flexo Print Stations** - For one or two colour/varnishing applications.
- **UV/IR Drying** - Available to suit type ink used in above print stations.
- **Further Unwind/Rewinds** - Available to suit each customer's requirements.
- **Fully adjustable web path** - To allow for further module additions and inspection.

Specifications:

Machine Width:	330mm, 430mm, 520mm, 600mm (13", 17", 21", 24")
Unwind Diameter:	800mm, 1,000mm, 1,270mm (32", 40", 50")
Rewind Diameter:	300mm, 400mm, 600mm (12", 16", 24")
Maximum Operating Speed:	230mpm (750ft/min)
Materials to be run:	Paper and Film PS materials (die cut labels)
Thickness of material:	40 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor



In-line Turrets

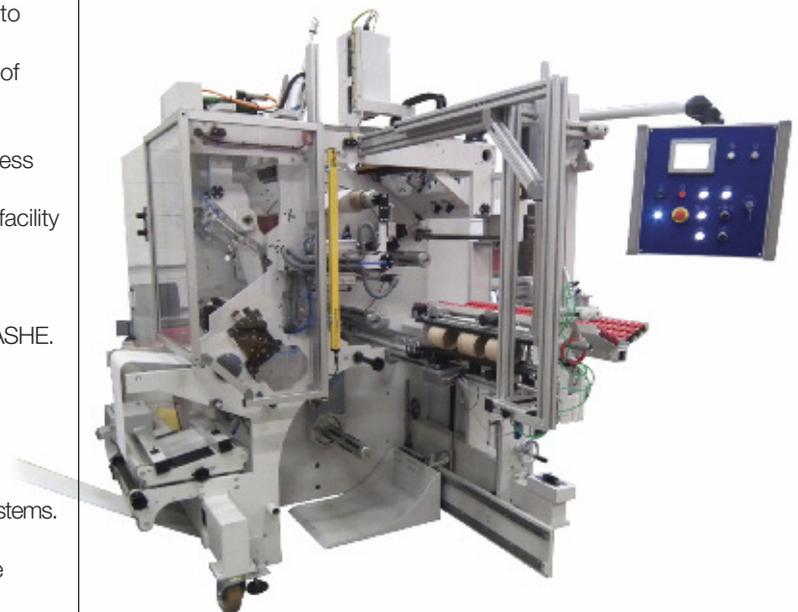
Opal ILT Series

Features:

- The ILT Series offers all servo driven features as standard.
- 4 spindle turret rewind models.
- 4 x direct servo motors and drives used for vast tension range with repeatable results.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Special plasma coated rollers for adhesive material production.
- Modular design enabling ease of adding required options to suit individual applications.
- Easy lock/unlock adjustable rewind shafts to run any size of finished rewind core.
- Core sizes possible - 19mm to 102mm.
- Automated material attachment to cores via glue or glue-less patented cinch assembly.
- Automated material reel tail closure via glue or label (print facility available).
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.

Optionals available:

- **Automated core loading** - chute systems or bowl feeding systems.
- Various designs to suit all core sizes
- Automated conveyor system to load cores each cycle in one movement for fast cycle time.
- **Slitting** - Driven rotary Shear, Razor and Crush facilities available.
- Off-line, cartridge set up systems available.
- Slitting option includes servo driven nip assembly for tension isolation between turret and production process.
- Fully automatic knife positioning system (set 6 x knives within 90 seconds).
- **Double bowed roller** - For web separation guarantee for non-die cut products.
- **Inter-label cutting** - With accumulator for continuous line speed operation.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.
- **Air assisted turner bar** - Fully adjustable to suit web width to enable inside winding.
- **Fully adjustable web path** - To allow for further module additions and inspection.
- **Off-load options** - Various designs ranging from simple gin pole to automated conveyor.
- **Unwind options** - Integral unwind with electronic web guide for both in-line and off-line operation.



Specifications:

Machine Width:	330mm, 430mm, 520mm, 600mm (13", 17", 21", 24")
Rewind Diameter:	300mm, 400mm, 600mm (12", 16", 24")
Maximum Operating Speed:	150mpm (500ft/min)
Materials to be run:	Paper and Film PS materials (die cut labels)
Thickness of material:	40 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor - Optional

Off-line Turrets

Opal OLT Series



Features:

- The OLT Series is designed for versatility in operation.
- 4 spindle turret rewind models.
- 4 x direct servo motors and drives used for vast tension range with repeatable results.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Special plasma coated rollers for adhesive material production.
- Modular design enabling ease of adding required options to suit individual applications.
- Easy lock/unlock adjustable rewind shafts to run any size of finished rewind core.
- Core sizes possible - 19mm to 102mm.
- Automated material attachment to cores via glue or glue-less patented cinch assembly.
- Automated material reel tail closure via glue or label (print facility available).
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.



Optionals available:

- **Automated core loading** - chute systems or bowl feeding systems.
- Various designs to suit all core sizes
- Automated conveyor system to load cores each cycle in one movement for fast cycle time.
- **Slitting** - Driven rotary Shear, Razor and Crush facilities available.
- Off-line, cartridge set up systems available.
- Slitting option includes servo driven nip assembly for tension isolation between turret and production process.
- Fully automatic knife positioning system (set 6 x knives within 90 seconds).
- **Double bowed roller** - For web separation guarantee for non-die cut products.
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.

Specifications:

Machine Width:	330mm, 430mm, 520mm, 600mm (13", 17", 21", 24")
Unwind Diameter:	800mm, 1,000mm, 1,270mm (32", 40", 50")
Rewind Diameter:	300mm, 500mm, 600mm (12", 20", 24")
Maximum Operating Speed:	230mpm (750ft/min)
Materials to be run:	Paper and Film PS materials
Thickness of material:	20 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor





Entry Level Inspection Slitter Rewinders

Opal EISR Series

Features:

- The EISR Series is manufactured to an entry level cost.
- The latest range operates through direct ac brushless motors.
- Range developed to simply inspect, slit and rewind die cut labels.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Driven rotary shear slitting system as standard.
- Full manual lateral adjustment of knives during running.
- High speed operation with standard stop and start.
- Easy lock/unlock adjustable rewind to run any size of core between 25mm - 152mm.
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control with ac motor driven nip for tension isolation between unwind and rewind settings.
- Unwind and pre-slitting adjustable splice tables with pneumatic web clamps.
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.

Optionals available:

- **Slitting** - Razor and Crush slitting facilities available.
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Rewind Web Advance System** - Maintains rewind web tension during slit reel removal.
- **Rewind web clamp** - Maintains rewind web tension during slit reel removal.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.



Specifications:

Machine Width:	330mm, 430mm (13", 17")
Unwind Diameter:	700mm (28")
Rewind Diameter:	480mm (19")
Maximum Operating Speed:	230mpm (750ft/min)
Materials to be run:	Paper and Film PS materials - die cut.
Thickness of material:	40 micron to 200 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear.

100% Inspection Systems

Opal 100 ISR Series

Features:

- The 100 ISR Series is designed for versatility in operation enabling simple set up to allow for total automated full inspection of all materials and linked to machine controls for rectification if required by operator.
- Machine can be manufactured with customer required camera system or supplied with control configuration to suit system to be installed separately at a later date.
- The latest range operates through a direct servo driving system.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- All steel robust design and construction.
- Driven rotary shear slitting system as standard.
- Full manual lateral adjustment of knives during running.
- High speed operation with rapid stop and start.
- Easy lock/unlock adjustable rewind to run any size of core between 19mm - 152mm.
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control with servo driven nip for tension isolation between unwind and rewind settings.
- Unwind and pre-slitting adjustable splice tables.
- Length (metres or feet) and label count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.



Optionals available:

- **Slitting** - Razor and Crush facilities available. Off-line, cartridge set up systems.
- Fully automatic knife positioning system.
- **Inspection systems** - Various forms of inspection systems (Nikka, EyeC, AVT, E&L, BST).
- **Motorised unwind reel lift** - Available on all type unwinds within Opal Series.
- **Rewind Web Advance System** - Maintains rewind web tension during slit reel removal.
- **Rewind web clamp** - Maintains rewind web tension during slit reel removal.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Duplex rewind** - For the slitting/rewinding of unsupported products.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.



Specifications:

Machine Width:	330mm, 430mm, 520mm (13", 17", 21")
Unwind Diameter:	800mm, 1,000mm, 1,270mm (32", 40", 50")
Rewind Diameter:	300mm, 500mm, 600mm (12", 20", 24")
Maximum Operating Speed:	300mpm (1,000ft/min)
Materials to be run:	Paper and Film PS materials and unsupported film
Thickness of material:	12 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor



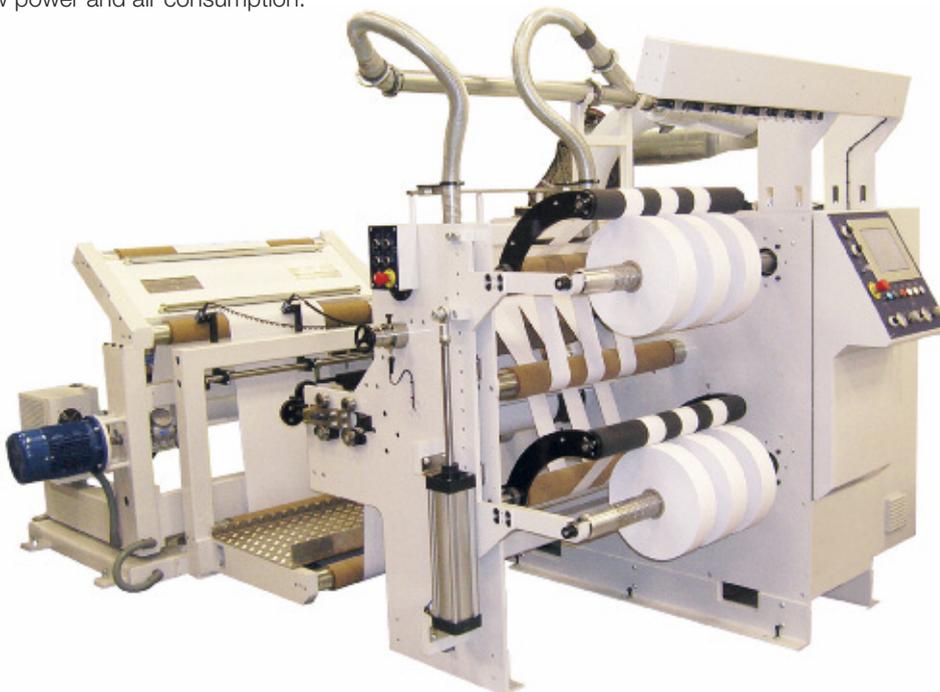
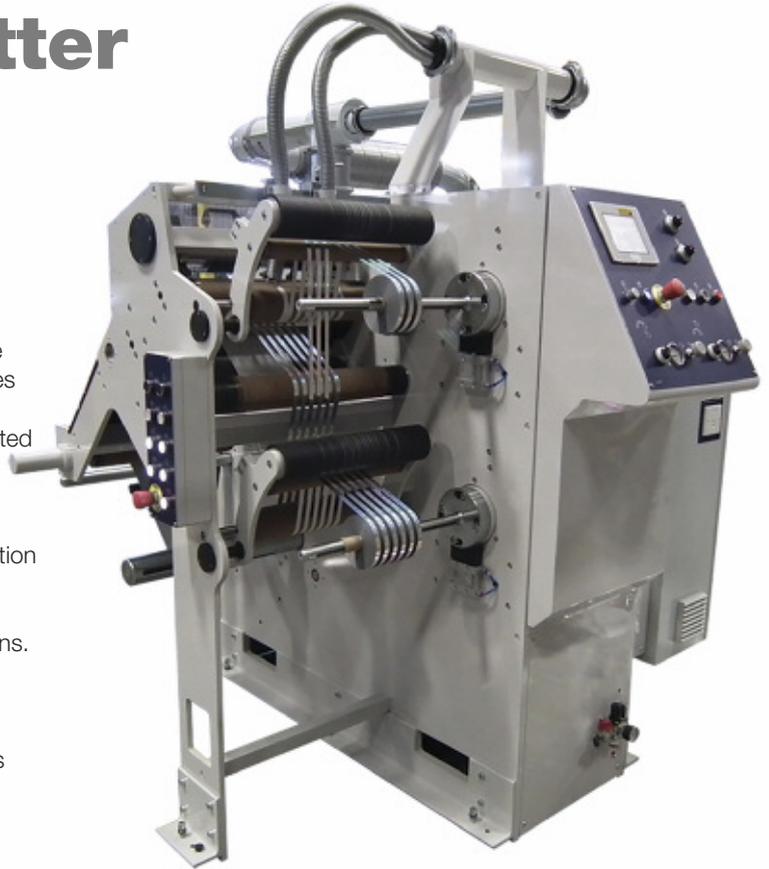
Solitaire Series

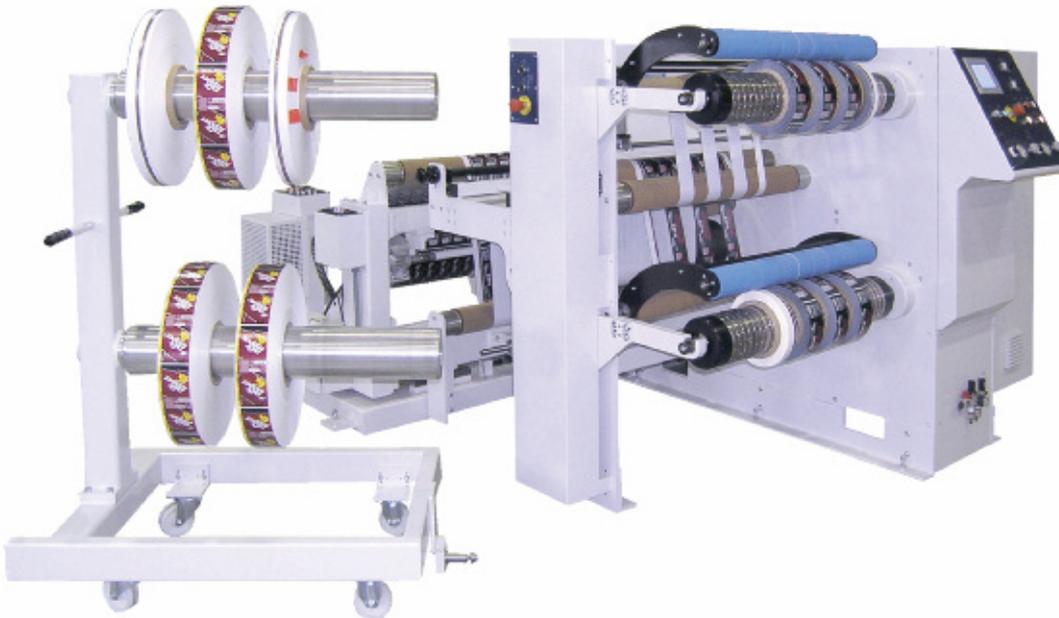
Narrow Web Slitter Rewinders

Solitaire Series

Features:

- The Solitaire Series is designed for versatility in operation enabling narrow web converters to slit and rewind a wide range of products, from films through to papers, laminates and aluminium foils.
- Advanced PLC SIEMENS compatible system for automated tension control via direct drives.
- Duplex rewind as standard to guarantee finished reel separation.
- Vacuum hug drum (replacing nip design) for tension isolation for multiple substrates.
- Taper tension control.
- All electric operation ideal for hygiene sensitive applications.
- All steel robust design and construction.
- ASHE patented 'differential' rewinding shafts.
- Full guarding to meet CE standards.
- Adjustable electronic web guide system for ALL materials (paper and film).
- Accurate, repeatable, digital tension control.
- Length (metres or feet) count control.
- 7" colour HMI operator touch screen control.
- Full Ethernet modem connection for on-line diagnostics via ASHE.
- Low maintenance requirement.
- Very low power and air consumption.





Optionals available:

- **Slitting** - Razor, Razor in Groove, Rotary Shear and Crush facilities available. Off-line, cartridge set up systems. Fully automatic knife positioning system.
- **Rewind shaft options** - 76mm (3") and 152mm (6") differential slip shafts available.
- All sizes of airshafts available for flange mounted operation (25mm - 152mm).
- **Laser Core Alignment** - Manual set up for continuous perfect rewind core positioning.
- **Inspection systems** - Stroboscopes (to suit machine slit widths) or full inspection system
- Machines can be designed to add any type 100% inspection system (Nikka, EyeC, AVT, E&L, BST).
- Various Missing Label Detection Systems for paper and/or film labels.
- Flag and splice detection systems.
- **Motorised unwind reel lift** - Available on all type unwinds within Solitaire Series.
- **Unwind Splice Table** - Available on all types with pneumatic or vacuum web clamps.
- **Full width lay on rollers** - Pneumatically adjustable for high speed rewinding of films.
- **Rewind web clamp** - Maintains rewind web tension during slit reel removal.
- **Waste rewind** - Left hand splice table and clamp altered to wind waste effectively.
- **Edge trim removal** - Simple air jets or High speed VENTURI electrical systems.
- **Static Eliminators** - Available on both unwind and each rewind to restrict static during high speed operation of certain materials.
- **Offload systems** - Various options available to automate the unloading process of the finished slit reels from reel pushers to robotic pedestals to lower reels to floor.



Specifications:

Machine Width:	420mm - 1,000mm (16" - 40")
Unwind Diameter:	600mm, 800mm, 1,000mm, 1,270mm (24", 32", 40", 50")
Rewind Diameter:	500mm, 600mm, 800mm (20", 24", 32")
Maximum Operating Speed:	500mpm (1,640ft/min)
Materials to be run:	Paper, Label-stock and unsupported film
Thickness of material:	11 micron to 250 micron
Operating Concept:	Direct Servo with touch screen HMI
Slitting Facilities:	Driven rotary shear, Crush, Razor, Razor in groove
Minimum Slit Width:	25mm (1")





Ancillary Equipment

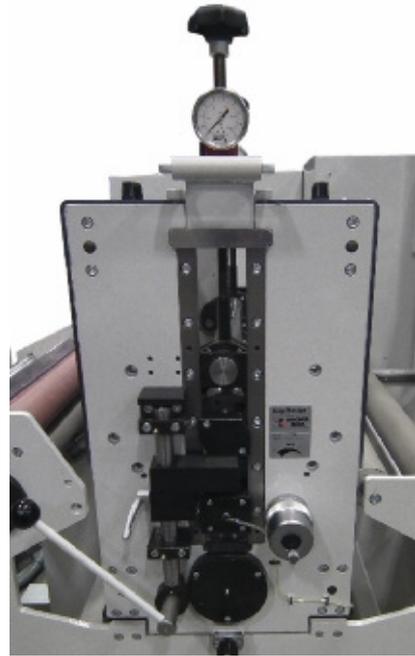
Standard machines



Mobile trolley with slide in/out cartridge and off-line digital VERNIER set up system.



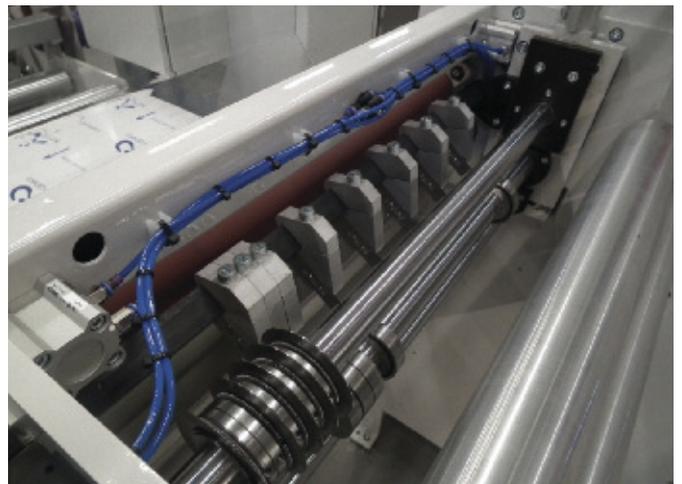
Matrix waste winder pneumatically loaded lay on roller assembly for special shaped labels to allow continuous operation.



Full rotary die cutting stations (servo driven) to produce blank labels or pre-printed labels. Adjustable anvils available with hydro-jacks to measure cut pressures.



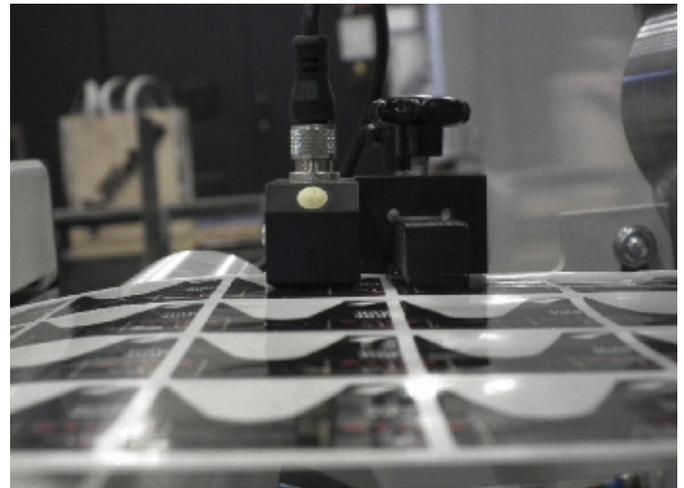
Various types of missing label detection systems available for different substrates. Easy positioning system to suit varying label width.



Simple Razor slitting addition to standard slitting section available on all Opal Series Machines. Male lift off function as standard with rotary shear slitting.



Delam/Relam system to allow difficult adhesive materials to matrix strip with ease at speed. Adjustable for various substrates.



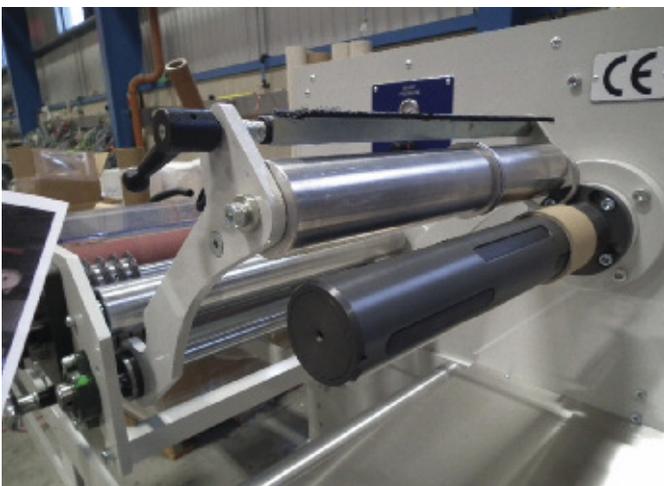
Label count sensor upgrade for multiple substrate operation.



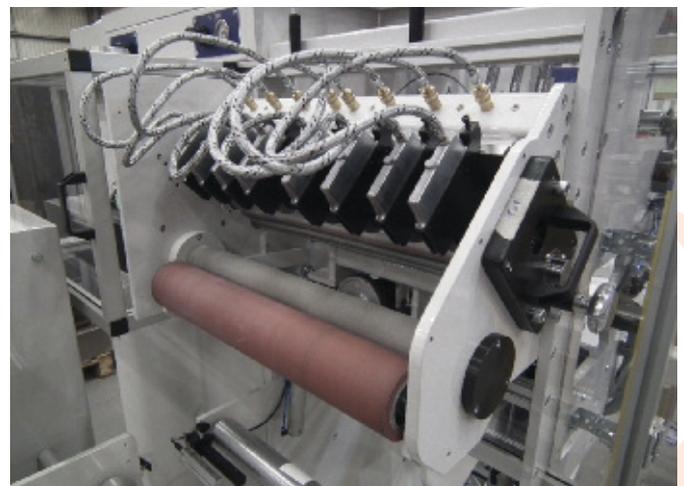
Motorised reel lift for all Opal unwind stands available.



Automatic knife positioning system upgrade to allow up to 20 knife sets to be set by 3 x operator parameter settings. 6 x knives set in 90 seconds typically.



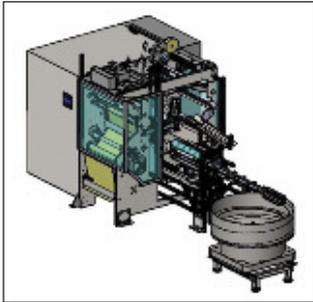
Web advance system to ease core alignment and improve manual start each operating cycle. Also used for simple web separation requirements.



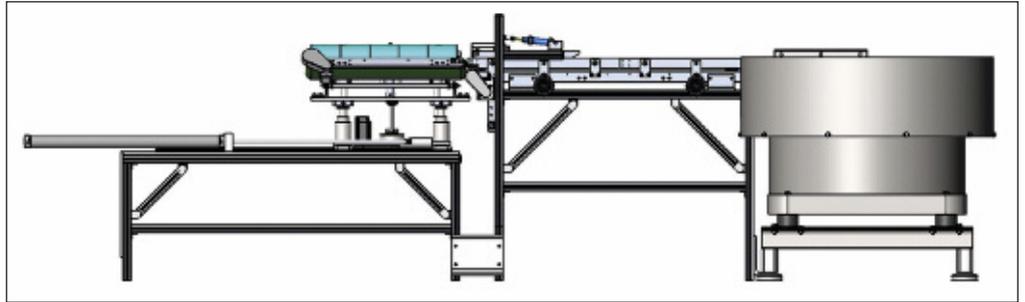
Various forms of slitting concepts available on all Opal machines, rotary shear is standard.

Ancillary Equipment

Turrets and automated converting lines

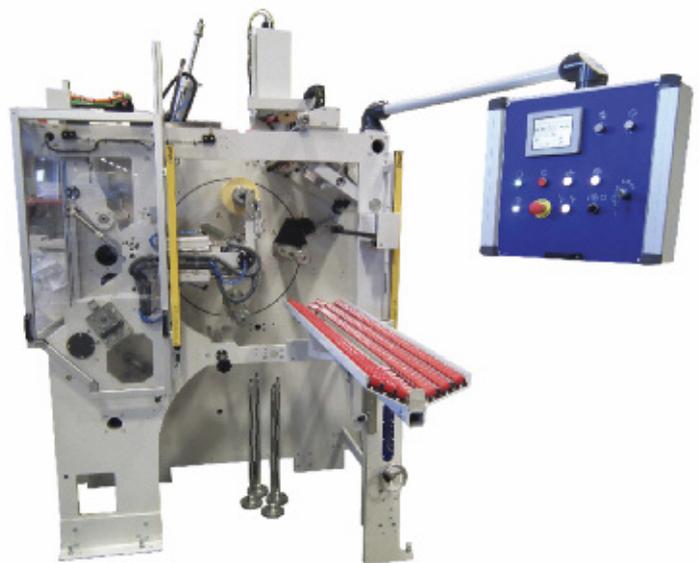


Fully automated core loading systems with either chute loading or vibrating core hopper. Systems to suit all sized cores.



Fast cycle core loading system allowing all cores to be loaded onto shaft in one movement per cycle (reduces each cycle time).

Various off-loading upgrades available including extended chutes to full conveyor systems to packaging systems.



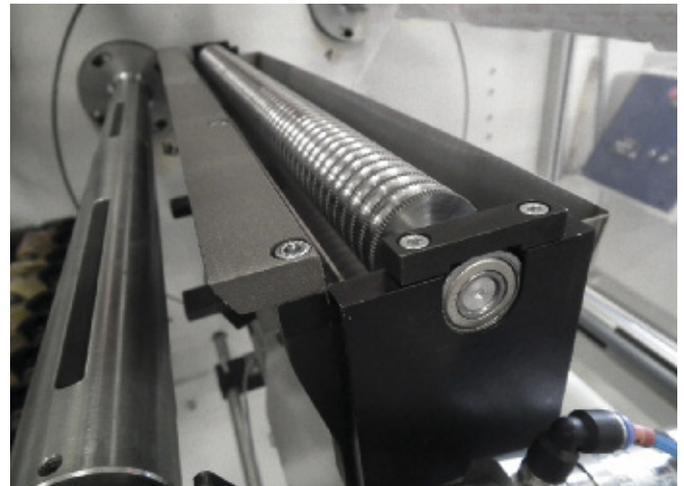
Patented GLUE-LESS design for reels of labels glue free with no attachment to the paper or plastic core.



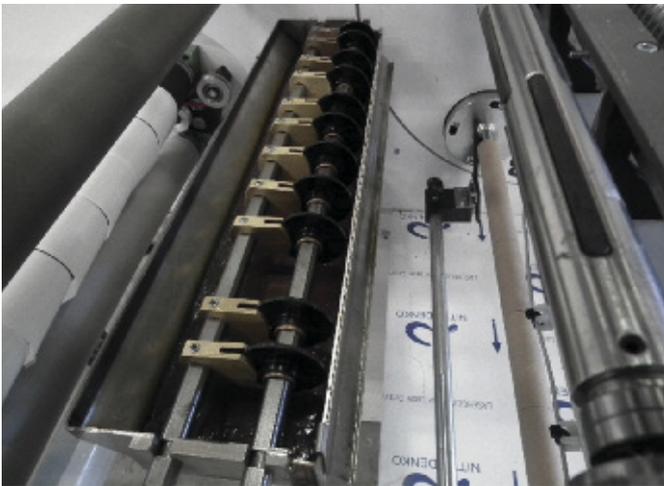
Heavy duty unwind stands to allow large reels of material to be run for further continuous running capabilities with servo web guide systems and reel lifts built in.



Edge trim extraction systems available to be designed with the complete machine. Simple air jets or high speed VENTURI systems used.



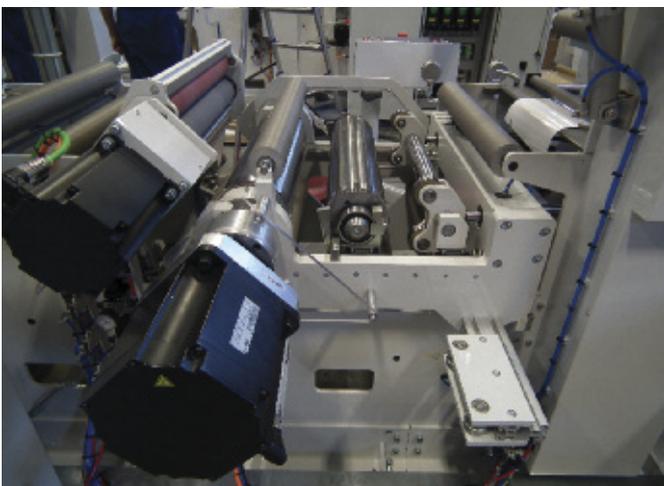
Tail gluing option for simple closing of each tail of the finished reels to be off-loaded.



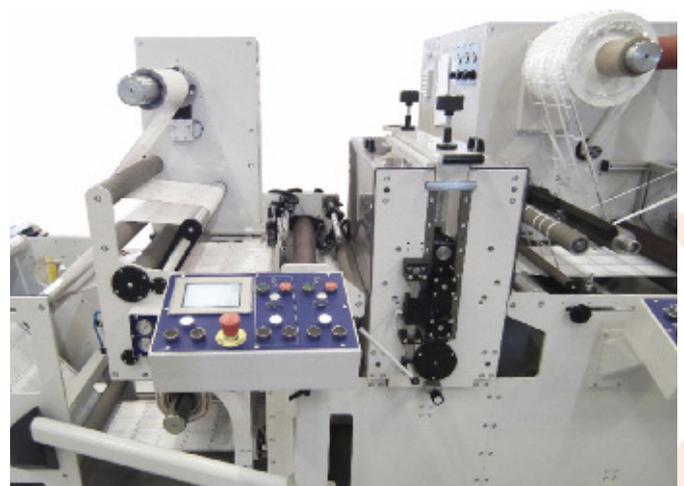
Glue to core option for simple attachment of material to core at starts.



Tail closure via label with option to print facility to give reels completely glue free concept.



For versatility die stations can be manufactured to load and unload the die tool horizontally, allowing ease of operation.



Laminating stations and full flexo print stations are available for one and two full colour production jobs able to run non-stop.



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