



# SLITTING & REWINDING MACHINE

DESIGNED FOR PRECISION, BUILT FOR RELIABILITY



**webcontrol**

WEBCONTROL  
MACHINERY CORP.



**YO DEN**

YO DEN  
ENTERPRISES CO., LTD



**KARLVILLE**  
CONVERTING

KARLVILLE  
DEVELOPMENT, LLC.



Webcontrol Machinery Corp. and Yo Den Enterprises Co., Ltd. are market-leading flexible packaging machinery manufacturers, dedicated to delivering high-quality, efficient film converting solutions which help customers stay competitive worldwide. Karlville serves as our strategic partner in Europe and the Americas and is responsible for sales and service across these regions, further strengthening our global support network.

Since its establishment in 1988, Webcontrol has grown from its roots in control systems to a global supplier of complete film and flexible packaging converting equipment, including printing, laminating, slitting, inspection & rewinding and shrink sleeve label machines. With a philosophy of "Pursuing Excellence through Technology," Webcontrol has sold over 5,000 machines in more than 80 countries, serving industries such as food, daily necessities, medical supplies and electronics.

In 1994, we founded Yo Den, specializing in high-precision film slitting machines. Yo Den focuses on fine and precise converting needs, delivering stable and reliable solutions which meet the demands of downstream flexible packaging and film processing.

With a strong R&D team and manufacturing capabilities, we deliver both standardized and customized solutions to meet diverse production needs. We continue to invest in the development of smart technologies, aligning with our vision of sustainable development and responsible growth. Through continuous innovation and continuous improvement, we aim to help customers achieve higher efficiency and productivity in film converting while reducing environmental impact.

Our mission is to be your trusted partner in film and flexible packaging converting, creating higher value through innovation, quality, service and a shared commitment to sustainability — together shaping the future of smart and greener manufacturing.



Have abundant experience in flexible packaging and film processing



Offer machines with high performance, precision and efficiency



Continue innovation and development to meet industry needs



Deliver commitment to sustainability through smart technologies



# SLITTING

## IND Wide Web Slitter with Individual Rewind Station

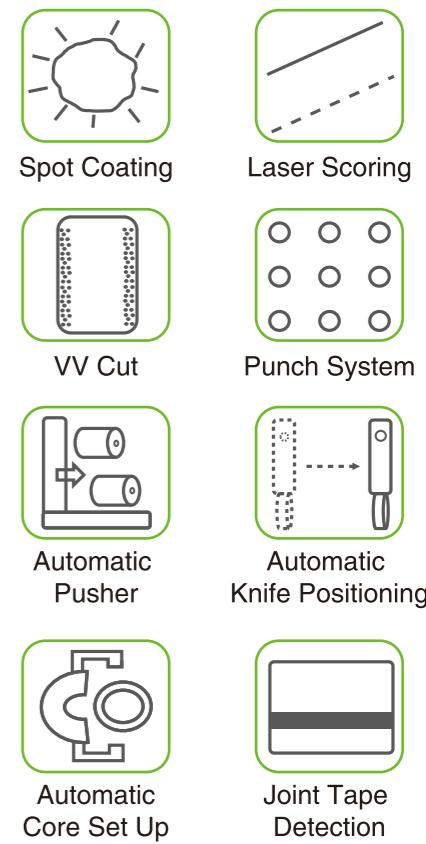
Engineered for peak output and unparalleled precision, the SLIT-IND is Yo Den's high-performance solution for efficiently converting large rolls of flexible packaging and specialized films. The core technology is the IND Center Winding Concept, which employs individually driven rewind stations, each equipped with a contact roller. This advanced system ensures the best winding quality in the industry, maintaining consistent, precise tension control necessary for:

Light Gauge Films: BOPP, BOPET, CPP and more.

Delicate Substrates: Thin films, label stock, laminates and coated papers



## UHS-TR ULTRA TURRET Increased Production with Turret Rewind



### Specifications

- Speed: 600m / min
- Web Width: 2500-3600 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 / 1500 mm
- Rewind Diameter: 1000 / 1200 mm
- Rewind Width: 350-1200 mm
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

- Center Winding Technology for Precise Tension Control
- Shaftless Unwind with Roll Lift System
- Driven Unwind with Double Dancer Control
- Automatic Knife Position System
- Automatic Unloading System

### Specifications

- Speed: 500 / 600 m/min
- Web Width: 1300 / 1600 / 1800 mm
- Min. Web Width: 300 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 mm
- Rewind Diameter: 600 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

- Unrivaled Efficiency & Speed
- 40s Stop-to-Restart Cycle
- Shaftless Unwind with Roll Lift-up
- Turret Rewind System
- Full Automation for Labor Savings
- Automatic Cut and Transfer
- Automatic Tape Device
- Automatic Knife Positioning System
- Automatic Finished Roll Handling

## JHS ULTRA MAX High-Speed Performance



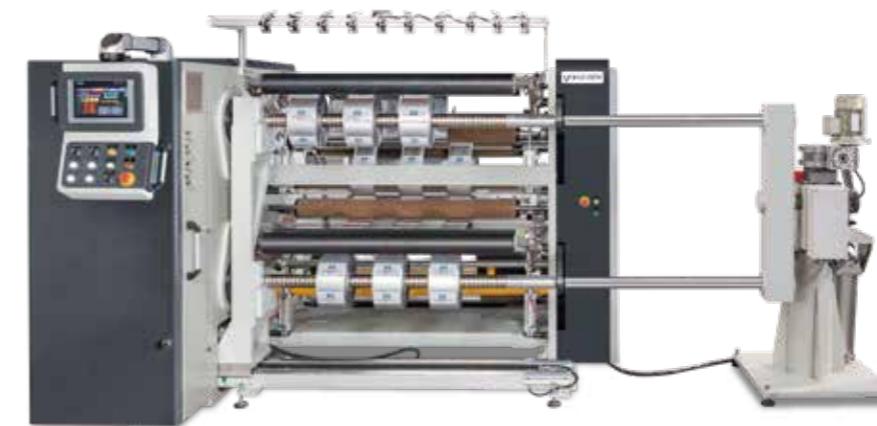
### Specifications

- Speed: 600 / 800 m/min
- Web Width: 1300 / 1600 / 1800 mm
- Min. Web Width: 300 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 mm
- Rewind Diameter: 800 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

- Overhead Web Path
- Shaftless Unwind with Roll Lift-up
- Driven Unwind with Dancer Control
- Auto. Knife Positioning System
- Linear Lay-on Roller Device
- Rewind Differential Shaft
- Finished Roll Push-Off Device
- Finished Roll Handling

## UHS-II ULTRA Most Versatile

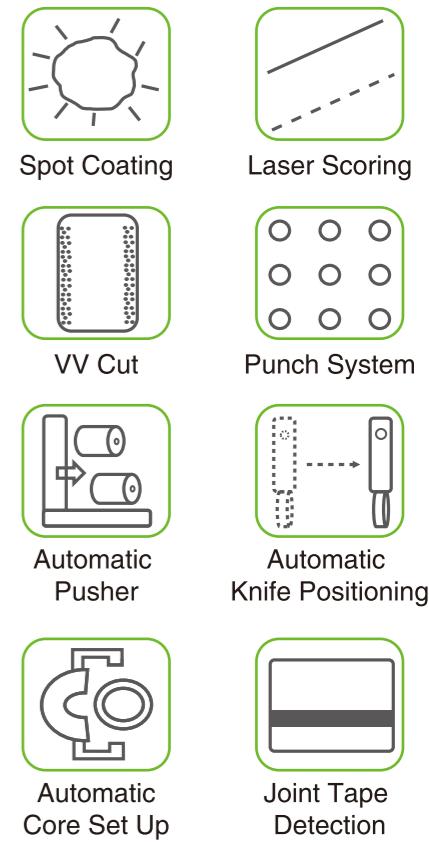
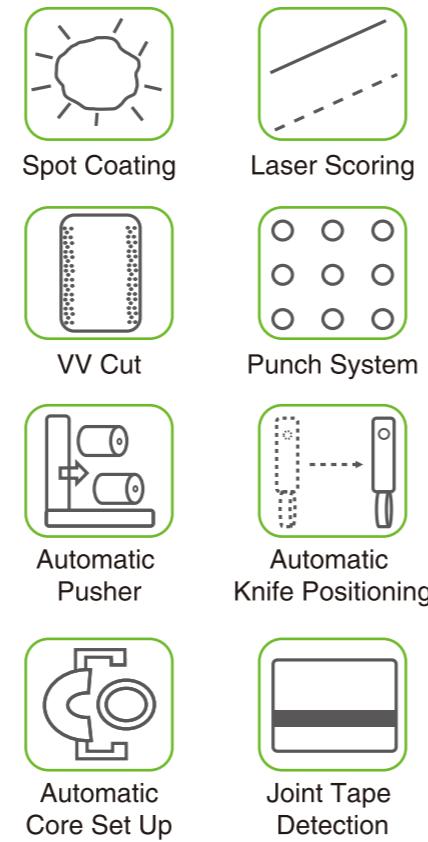


### Specifications

- Speed: 500 / 600 m/min
- Web Width: 1300 / 1600 / 1800 mm
- Min. Web Width: 300 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 mm
- Rewind Diameter: 800 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

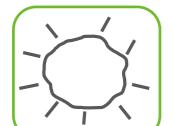
- Shaftless Unwind with Roll Lift-up
- Auto. Knife Positioning System
- Pendulum Lay-on Roller Device
- Rewind Differential Shaft
- Rewind Web Clamping
- Laser Core Positioning
- Finished Roll Push-Off Device
- Finished Roll Handling



# SLITTING



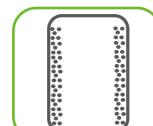
**HSI CLASSIC**  
Best Value



Spot Coating



Laser Scoring



VV Cut



Punch System



Automatic Pusher



Joint Tape Detection



**HSC COMPACT**



Laser Scoring



Punch System



Joint Tape Detection



## Specifications

- Speed: 400 / 500 m/min
- Web Width: 1300 /1600 mm
- Min. Web Width: 300 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 mm
- Rewind Diameter: 600 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

## Features

- Shaftless Unwind with Roll Lift-up
- Vacuum Roller
- Individual Lay-on Roller
- Rewind Differential Shaft
- Rewind Web Clamping
- Laser Core Positioning
- Finished Roll Handling
- Finished Rolls Push-Off Device

## Specifications

- Speed: 300 / 400 m/min
- Web Width: 800 / 1300 mm
- Min. Web Width: 300 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 800 / 1000 mm
- Rewind Diameter: 600 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

## Features

- Shaftless Unwind with Roll Lift-up
- Nip Roller
- Pendulum Lay-on Roller Device
- Rewind Differential Shaft
- Rewind Web Clamping
- Mechanical Core Positioning
- Finished Roll Handling

## N Narrow Web Slitter with Surface Center Winding



## B Paper Slitter with Surface Winding



### Specifications

- Speed: 150 m/min
- Web Width: 500 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 500 mm
- Rewind Diameter: 400 mm
- Rewind Width: 5 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

- Compact and Space-Saving design
- Cantilevered Design for Easy Loading & Unloading
- High-Precision Slitting System
- Special Rewind Differential Shaft
- Wide Material Compatibility
  - Flexible Packaging
  - Label Manufacturing
  - Electronics & Specialty Films
- Customizable Configuration Available

### Specifications

- Speed: 300 / 400 m/min
- Web Width: 1300 / 1600 mm
- Unwind Roll Cores: 3"(76), 6"(152)
- Unwind Diameter: 1000 / 1200 mm
- Rewind Diameter: 800 / 1000 mm
- Rewind Width: 50 mm upwards
- Rewind Roll Cores: 3"(76), 6"(152)

### Features

- Robust & Stable Construction
- Efficient Unwinding & Rewinding System
- Shear & Razor Slitting Options
- Wide Material Compatibility
  - Printing & Packaging
  - Specialty Paper Products
  - General Paper Converting
- Customizable Configuration Available

# SLITTING

## Automation that Accelerates Productivity

Efficiency is no longer just an advantage—it's the foundation of growth.

Our slitting machine, enhanced with full automation, transforms every step of the process. From automatic core loading to precision slitting and automated unloading, production flows faster, smoother and more reliably than ever.



Pick-up Table



Fixed Type

Pivoting Type

Motorized Type

## Slitting Section

YO DEN offers two slitting systems. Depending on the materials to be processed either razor slitting in groove and air or shear slitting. Shear slitting is offered with individual manual or pneumatically operated top knife holders. Automatic knife positioning for top and bottom knives is optional.



Razor Cutter System



Shear Knife System



Pneumatic Knife System  
(Auto. / Manual set up)

## Differential Rewind

All models come with differential rewind shaft, two rewind shaft designs with ball lock friction elements for precision rewind tension control. Standard rewind shafts remain unchanged for any slit width of 50 mm and up. Options are available for 25 mm and up.



◀ Piston Design

Double row of balls expand by inner piston, creating lower winding tension.  
Width of friction ring: 25 mm



◀ Inner Friction Design

Double row of balls expand by inner tube holding core tightly in place.  
Excellent friction performance is suitable for sensitive films.  
No spacers and no adjustment for various slit width.  
Width of friction ring: 25 mm

## Individual Lay-On Roller

Easy and quick change from full width to individual lay-on rollers to compensate for large thickness variations or low rewind tension requirements.



## Web Clamping Device

On the unwind / rewind side with the web clamping device to keep the tension as well as the web position. Easy to start new jobs.



Unwind Web Clamp



Rewind Web Clamp

## Paper Core Positioning System

For precise and quick core setting.



Laser

Mechanical

## Splicing Table

For a precision splice of a new web to an existing web.



## Edge-Trim Rewinder Machine

### Core Type

Synchronizes with the line speed of the slitting machine. Liner guide is equipped for stable oscillation.



### Coreless Type

Mechanical expanding shaft for winding trims, no need paper core and easy unloading.



# INSPECTION

## INSPECT-S

### Post Print Inspection



## INSPECT-SB

### Double Side Inspection

Two models are offered for wide web inspection after printing or laminating. Defect detection systems for 100% continuous inspection are optional. Inspected materials can be laminated and slit with zero defects.

#### Specifications

- Speed: 300 / 400 m/min
- Web Width: 1300 / 1600 mm
- Min. Web Width: 400 mm
- Unwind Diameter: 800 / 1000 mm
- Rewind Diameter: 800 / 1000 mm

#### Features

- Shaftless Unwind and Rewind
- Roll Lift-up System
- Auto. Reverse Function
- Inspection Table
- Integration of 100% Inspection Camera
- Edge Trim Slitting
- Ergonomic Design for Double Side Inspection (For INSPECT-SB)

## INSPECT-V

### Finished Roll Inspection



The Inspect-V model is suitable for rewinding out of spec. finished rolls and inspecting for defects. The three motor drive and advanced control system ensures stable tension regulation.

#### Specifications

- Speed: 300 m/min
- Web Width: 600 / 800 mm
- Min. Web Width: 70 mm
- Unwind Diameter: 600 / 800 mm
- Rewind Diameter: 600 / 800 mm

#### Features

- Cantilevered Unwind and Rewind
- Auto. Reverse Function
- Inspection Table with Stroboscope
- Integration of 100% Inspection Camera
- Edge Trim Slitting

## DOCTOR-FB

### Narrow Web Inspection



This inspection rewinding machine is typically used for narrow web labels inspection. With closed-loop tension control, this machine keeps a stable tension and run smoothly at high speed.

#### Specifications

- Speed: 400 m/min
- Web Width: 300 / 400 mm
- Min. Web Width: 30 / 40 mm
- Unwind Diameter: 600 mm
- Rewind Diameter: 600 mm

#### Features

- Cantilevered Unwind and Rewind
- High Speed Roll Doctoring with Precision
- Auto. Reverse Function
- Unwind and Rewind Edge Guides
- Closed Loop Tension Control
- Pneumatic Lay-on Rollers

# INSPECT-PS

## Available Integration with Technology

The model INSPECT-PS provides opportunities to integrate advanced technologies, making the inspection rewinding machine more versatile, efficient and capable of adding significant value to the packaging process.



## Choices of Technology

### Laser Perforation

Laser perforation technology provides a new easy-tear design for pouch finishes, allowing consumers to open packages with effortless ease and enjoy the delights inside.



### Punching System

The punching system makes breathable holes on materials for many purposes such as ventilation and hanger holes.



### Powder Spray

Spraying powders like cornstarch onto the surface of the film make material easier to handle in downstream processes.



### Corona Treatment

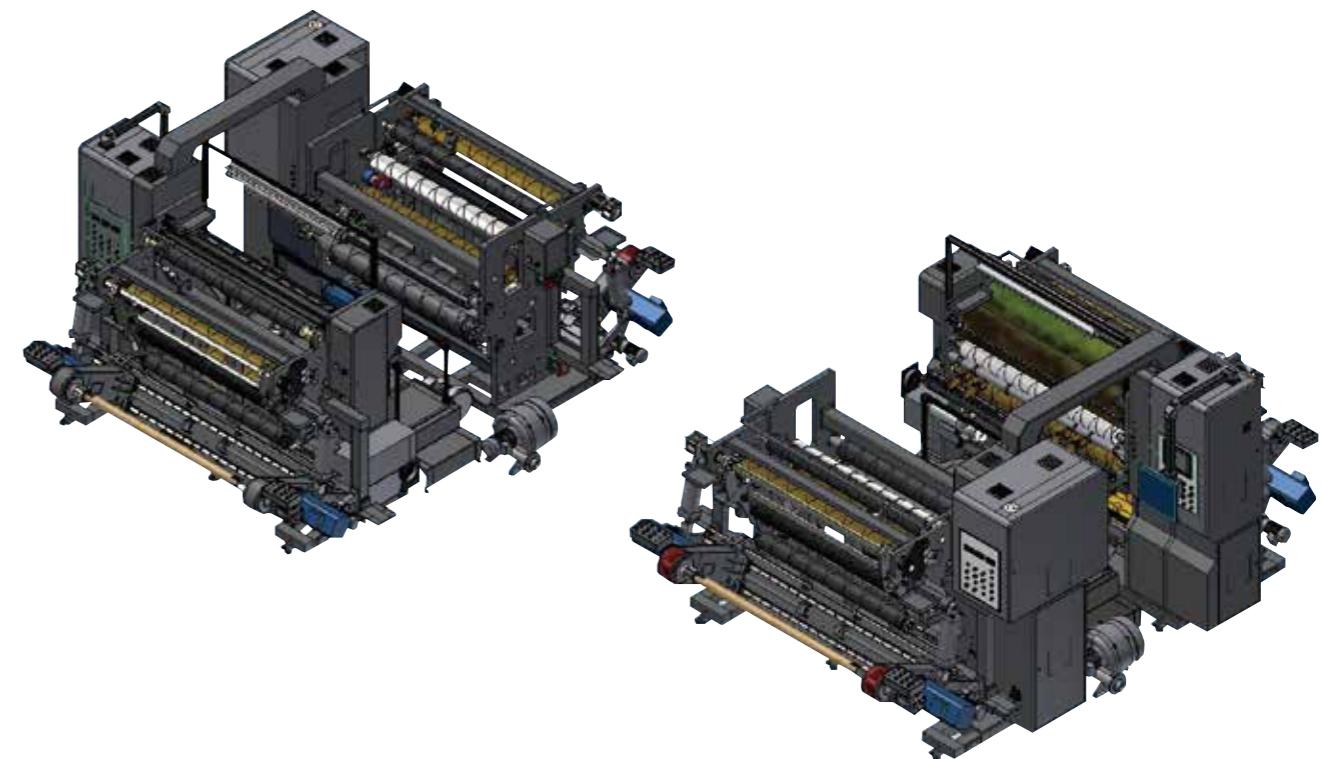
By combining corona treater into the rewinding process, film surface activation can be achieved while winding, which greatly enhances production efficiency.



# INSPECT-D

## Paper Roll Inspection

The model INSPECT-D is designed for paper-based roll materials such as release paper and coated substrates. It performs inspection, trimming and rewinding operations. The machine features an independent unwind stand, a precise tension control system and a clamping device for secure web handling, ensuring stable operation and consistent product quality.



### Specifications

- Speed: 300 m/min
- Web Width: 1300 / 1600 mm
- Min. Web Width: 500 / 700 mm
- Max. Web Thickness: 150 gsm
- Unwind Diameter: 1200 mm
- Rewind Diameter: 1200 mm

### Features

- Independent Unwind Stand
- High-Tension Control System
- Clamping Device on Both Sides
- Integration of 100% Inspection Camera
- Edge Trim with Shear Cut



## PRO LABEL

### Self Adhesive Label Stock

## PRO COMBI

Unsupported Film Structures & Self Adhesive Label Stock



KSI FEATURES	Pro Label	Pro Combi
Materials	Self Adhesive Label Stock	Unsupported Film Structures & Self Adhesive Label Stock
Available Width	350 / 450 mm	450 / 650 mm
Speed	300 m/min	300 m/min
Unwind Diameter	700 / 1000 mm	800 / 1000 mm
Rewind Diameter	500 mm	600 mm
Unwind Splice Table	Standard	
Unwind Tension System	Auto. Control by Calculation	Auto. Control by Load Cell
Unwind Shaft	Cantilever Air Shaft	
Unwind Tension Control	Powder Brake	Driven AC Vector Motor
Unwind Edge Guide	E+L Germany - Ultrasonic Edge Guide Line & Edge (Optional)	
Separate Unwind for 1000mm Diameter Unwind Rolls	Optional	
Nip Design	Driven AC Vector Motor Pneumatically Actuated	
Rewind Operator View Table	Standard Synchronized Stroboscope	
Rewind Shafts	Single Shaft Bi-Directional	Twin Shaft Bi-Directional
Rewind Standard Shafts	Quick Change Air Shaft	
Rewind Differential Shaft	N/A	Width 15 & 25 mm (Optional)
Rewind Tension System	Auto. Control by Independent Load Cell	Auto. Control by Independent Load Cell for Each Shaft
Rewind Tension Control	Driven AC Vector Motor	Independent Twin Driven AC Vector Motor
Lay-on Roller for Rewind Shafts	N/A	Standard
Web Clamps for Rewinds	Standard	
Waste & Trim Removal	Optional	
Splice Table	Standard	
Razor Slitting	N/A	Standard - 3 Knives
Shear Slitting	Standard - 3 Knives	3 Knives - Cartridge (Optional)
Flag Detection	Optional	
Missing Label & Label Counting Function	Optional	
Capacitive Sensor	Optional	
Reflective Sensor	Optional	
Vision System for 100% Inspection	· Accumulation included for fault position, fault will stop at operator viewing table	
Separate Stand for Vision System	· If fault defect confirmed, operator jogs fault to splice table	
Installation	· Machine speed during 100% inspection - 300 m/min	
	· Web guide system and mechanical device for swing table for vision system requirements (Optional)	