



VERSION 1.5



# LABEL FINISHING AND CONVERTING SOLUTION

***Brotech***  
*HP Indigo Global Partner*

**BROTECH DIGITAL GRAPHICS CO.,LTD**

Shenzhen Headquarter  
Add: 1st Floor, 8th Building, TongFuYu Industrial Park, YongHe Road, Fuyong town,  
Baoan District, Shenzhen, China.  
Tel: +86-755-8373 3867

Jiangsu Factory  
Add: No.1 YangFan Road, New District, Zhenjiang, Jiangsu, China.  
Tel: +86-511-8880 0886

**BROTECH DIGITAL GRAPHICS NORTH AMERICA**

Add: 1203 Murdock Ct Naperville, IL 60540  
Tel: +1630 7190 1968

***Brotech***

*HP Indigo Global Partner*

[WWW.BRO-TECH.NET](http://WWW.BRO-TECH.NET)

**HIGH PRECISION**  
**HIGHER SPEED**  
**HIGHER QUALITY**  
**HIGHER EFFICIENCY**  
**HIGH FLEXIBILITY**

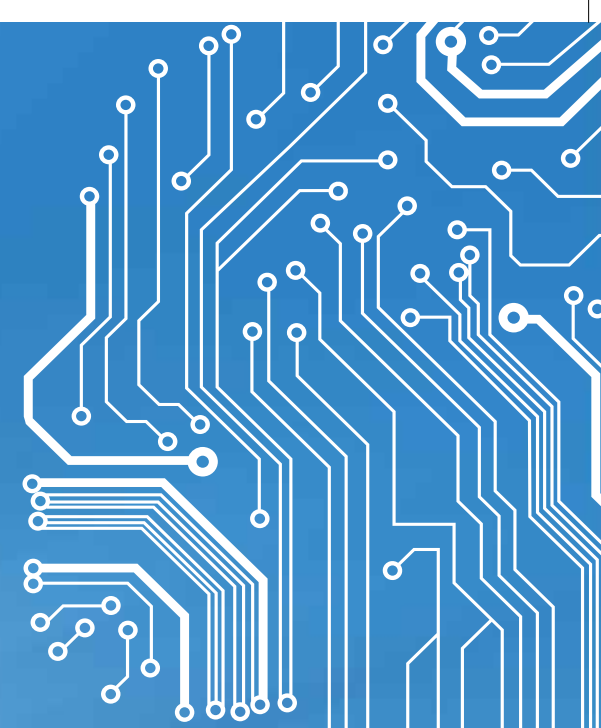
Brotech's systems are designed not only for normal pressure sensitive labels, but also for EAS, RFID, IML, tickets and tags, and new solutions for booklet labels. Brotech has become one of the leading digital finishing system suppliers in the world, developed full line of digital finishing systems which are dedicated for digitally printed labels & packaging.

## **HP INDIGO GLOBAL PARTNER**

Brotech, Established in 2004, with headquarter in Shenzhen, China and newly established state of the art modern manufacturing facility in Zhenjiang (near Shanghai), and subsidiary offices and show rooms in Italy, USA, Mexico and Thailand.

Brotech Digital Graphics provides full range of converting, finishing solutions and hybrid digital & finishing solutions for the label and flexible packaging industry, especially digital printed label section.

Brotech machinery lines cover wide range of products such as pressure sensitive label, IML label, shrink sleeve, cut & stack label, EAS, RFID, tickets and tags, booklet labels etc. and flexible packaging as well.



# MODULAR CDF 330/420

*CDF Digital Label Finishing System*



## TECHNICAL SPECIFICATIONS

MODEL	CDF 330	CDF 420
Max web width	340mm	430mm
Max unwind diameter	700mm	700mm
Max rewind diameter	600mm	600mm
Max die cutting width	330mm	420mm
Max semi-rotary die cutting speed	70m/min	70m/min
Max semi-rotary repeat length	457mm	457mm
Max mechanical speed	130m/min	130m/min
Die cutting registration tolerance	±0.15mm	±0.15mm
Air supply	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE
Size (length × width × height)	3.7×2.1×1.6m	3.7×2.2×1.6m
Machine weight	2.5T	3T

## DESCRIPTIONS

The Modular CDF is a perfect cost effective multi-functional digital label converting system on the market today. It's fully servo driven, has full-rotary flexo and semi-rotary die cutting. The standard CDF features flexo printing, spot varnish, super varnish, cold foil, lamination, full-rotary/semi-rotary die cutting, slitting, and dual rewind. Complete with a high performance UV/LED UV system, it is easy and convenient to operate and reduce the waste greatly.

## FUNCTIONING UNITS

### STANDARD FEATURES:

Full-rotary flexo unit, for printing, spot varnish, super varnish, cold foil, lamination.  
 Full-rotary/semi-rotary die cutting unit, matrix remover, slitting and dual rewind.  
 Suitable for magnetic cylinder or solid cylinder.



Die Cutting



Flexo Unit with Cold Foil



Touch Panel

## FEATURES & ADVANTAGES

1. Fully automatic servo driven flexo unit, for flexo printing, cold foil, lamination, varnish and super varnish. UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds.
2. Servo driven die cutting unit is with automatic registration system, can be exchanged between full-rotary and semi-rotary mode. Suitable for short run or medium run jobs, especially for digital printed labels.
3. Hot air(I/R) dryer is as option for water-based primer, coating, lamination.



Hot Air(I/R) Dryer (Option)



IML



## Applications

All digitally printed finishing electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.

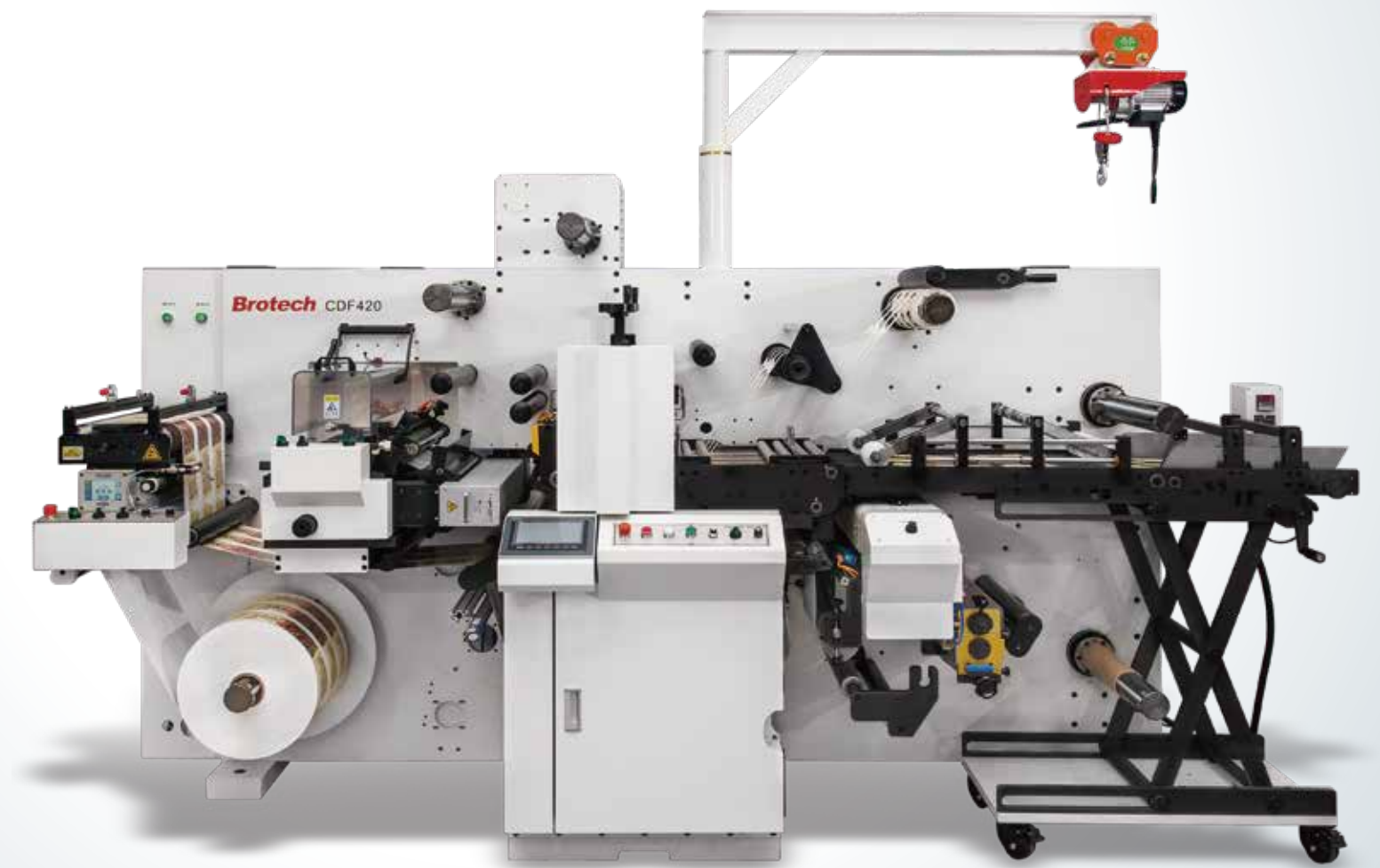


## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# CDF PLUS 330/420

*CDF PLUS Digital Finishing System  
Featuring Sheeting and Conveyor*



## TECHNICAL SPECIFICATIONS

MODEL	CDF PLUS 330	CDF PLUS 420
Max web width	340mm	430mm
Max unwind diameter	700mm	700mm
Max rewind diameter	600mm	600mm
Max die cutting width	330mm	420mm
Max semi-rotary die cutting speed	70m/min	70m/min
Max semi-rotary repeat length	457mm	457mm
Max mechanical speed	130m/min	130m/min
Die cutting registration tolerance	±0.15mm	±0.15mm
Air supply	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE
Size (length × width × height)	4.1×2.1×1.7m	4.1×2.2×1.7m
Machine weight	2.8T	3.3T

## DESCRIPTIONS

The CDF Plus is a multi-functional updated version of CDF label converting system. While providing full-rotary flexo printing, varnish, super varnish, cold foil, lamination, semi-rotary die cutting, slitting, the CDF Plus also comes with a sheeting and conveyor, stacking unit.



## FUNCTIONING UNITS

### FULL-ROTARY FLEXP UNIT:

Flexo printing, varnish, super varnish, cold foil, lamination.

### SEMI-ROTARY DIE CUTTING UNIT:

Quick and easy to exchange between full-rotary and semi-rotary mode.

Suitable for magnetic cylinder or solid cylinder.

### SHEETING:

Automatic servo driven, accomplish variable sheeting jobs without changing sheeting toolings.

### CONVEYOR:

Standard or special IML conveyor, movable and adjustable for different collection height and speed.



Flexo Unit with Cold Foil



Sheeting



Die Cutting



IML



Air Suction Unit for IML



Star Wheel Stacker

## FEATURES & ADVANTAGES

1. Fully automatic servo driven flexo unit, for flexo printing, cold foil, lamination, varnish and super varnish. UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds.
2. Servo driven die cutting unit is with automatic registration system, can be exchanged between full-rotary and semi-rotary mode. Suitable for short or medium run jobs, especially for digital printed labels.
3. Hot air(IIR) dryer is option for water-based primer, which coating, lamination, upon client request.
4. Sheeting station with conveyor.



## Applications

All digitally printed materials where roll to roll and roll to sheet capability is required. Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# NEW SDF 330/420/520

*New SDF Digital Label  
Converting & Finishing System*



## TECHNICAL SPECIFICATIONS

MODEL	NEW SDF 330	NEW SDF 420	NEW SDF 520
Max web width	340mm	430mm	530mm
Max unwind diameter	800mm	800mm	800mm
Max rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Max semi-rotary die cutting speed	70m/min	70m/min	70m/min
Max semi-rotary repeat length	457mm	457mm	457mm
Max mechanical speed	130m/min	130m/min	130m/min
Die cutting registration tolerance	±0.15mm	±0.15mm	±0.15mm
Air supply	8bar	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size (length × width × height)	4.9×3.1×2.3m	4.9×3.2×2.3m	4.9×3.3×2.3m
Machine weight	3T	3.5T	4T

## DESCRIPTIONS

The new Brotech SDF has become the industry's most demanded label converting and finishing system. The machine is fully servo driven featuring semi-rotary/full-rotary flexo print unit, semi-rotary/full-rotary die cutting unit featuring pre-registration. The SDF is modular designed and can be reconfigured as the nature of your changes. Suitable for short, medium and long run jobs. The SDF is easy to operate, providing high efficiency and precision, and has a fast ROI.

## FUNCTIONING UNITS

### FULL-ROTARY / SEMI-ROTARY FLEXP UNIT:

The patented "on the fly" feature is easy for operator to exchange the model between full-rotary and semi-rotary printing. Also provides extended print repeat range for spot varnish, super varnish, cold foil and lamination.

### FULL-ROTARY / SEMI-ROTARY DIE CUTTING UNIT:

With patented "on the fly" operator can quickly and easily exchange the model between full-rotary and semi-rotary die cutting mode. Equipped with magnetic flexible dies or solid cylinder.



New Semi-rotary Flexo



Semi-rotary Die Cutting



IML



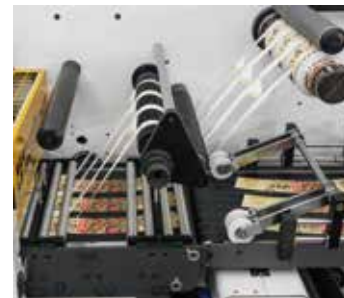
Rewind



Slitting



Web Guiding System



Air Suction Unit for IML



## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.  
The SDF can run all label varieties & applications.



## FEATURES & ADVANTAGES

1. Fully automatic servo driven flexo unit is exchangeable between full-rotary and semi-rotary, flexo printing, spot varnish, super varnish, cold foil and lamination. UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds for film applications.
2. Servo driven die cutting unit has both automatic registration system and manual registration system, can be exchanged between full-rotary and semi-rotary mode. The SDF can use magnetic flexible dies or solid cylinders, high precision and operate easily.
3. Optional hot air(I/R) dryer can be installed for water-based primer, coating, lamination etc.
4. Optional movable standard conveyor or IML conveyor for sheeting or IML.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.



# SDF-E 330/420/520

*SDF-E Digital Label Finishing System*



## TECHNICAL SPECIFICATIONS

MODEL	SDF-E 330	SDF-E 420	SDF-E 520
Max web width	340mm	430mm	530mm
Max unwind diameter	700mm	700mm	700mm
Max dual rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Semi-rotary max speed	70m/min	70m/min	70m/min
Max semi-rotary repeat length	457mm	457mm	457mm
Max mechanical speed	130m/min	130m/min	130m/min
Die cutting registration tolerance	±0.15mm	±0.15mm	±0.15mm
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size(length x width x height)	4.1×2.1×1.7m	4.1×2.2×1.7m	4.1×2.3×1.7m
Machine weight	2.5T	2.8T	3T

## DESCRIPTIONS

With modular design, SDF-E series is a perfect cost-effective and multi-functional combo, it can be expanded with options according to the process that increases the effectiveness of an operation such as additional flexo stations for coating, printing, cold foil/lamination in one pass, hot air (I/R) dryer for water-based primer or printing, auto-slitting unit, sheeting or IML stations to expand application range. A small footprint with short web path to minimize waste but highly accurate in terms of precision for cutting and registration.



## FUNCTIONING UNITS

### STANDARD FEATURES:

Full-rotary/semi-rotary flexo unit, for printing, spot varnish, super varnish, cold foil, lamination.

Full-rotary/semi-rotary die cutting unit, matrix remover, slitting and dual rewind.

Suitable for magnetic cylinder or solid cylinder.



Die Cutting



Semi-rotary Flexo Unit



Touch Panel

## FEATURES & ADVANTAGES

1. Fully automatic servo driven flexo unit, for flexo printing, cold foil, lamination, varnish and super varnish, UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds.
2. Servo driven die cutting is with automatic registration system, can be exchanged between full-rotary and semi-rotary mode. Suitable for short or medium run jobs, especially for digital printed labels.
3. Hot air(I/R) dryer is as option for water-based primer, coating, lamination etc. Also auto-slitting and IML can be installed upon client request.



Auto-Slitting Unit(Optional)



In Mold Label(IML)



Hot Air(I/R) Dryer(Optional)



All digitally printed finishing electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# DF800

Flexible Packaging and Label  
Converting & Finishing System



# DF800

Flexible Packaging and Label Converting & Finishing System



Full-rotary/Semi-rotary Flexo Unit



Hot Air(I/R)/ UV/LED UV Dryer



Slitting/Auto Slitting Unit



Sheeting Unit

## TECHNICAL SPECIFICATION

MODEL	DF 800
Max web width	800mm
Substrate	12-300µm
Max unwind diameter	1000mm
Max rewind diameter (dual rewinding)	700mm
Max mechanical speed	80m/min
Production speed	45-60m/min, it will depend process
Slitting accuracy	±0.15mm
Sheeting length	100-1000mm
Sheeting tolerance	±0.15mm
Air supply	8bar
Rating voltage	3PH+N+PE
Machine weight	5T

DF800 is specially designed for converting and finishing digital packaging printing products quickly and economically. It's modular design, fully servo driven tension control system, and intelligent HMI interface, making this system suitable for small and medium orders. The DF800 can be used for any off-line or in-line finishing process. Features include lamination, UV/LED UV varnishing, coating, slitting, sheeting and stacking.

DF800 is the professional finishing solution when connected in-line HP Indigo 25K digital printing system. HP Indigo 25K is widely used for flexible packaging, packaging lamination, advertisement, gift wrap, wall paper, decorative paper, photography, publishing etc.



HP Indigo Global partner HP Indigo 25K

# MF 330/420/520

*MF Label Converting & Finishing System*



## TECHNICAL SPECIFICATIONS

MODEL	MF 330	MF 420	MF 520
Max web width	340mm	430mm	530mm
Max unwind diameter	800mm	800mm	800mm
Max rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Max mechanical speed	135m/min	135m/min	135m/min
Die cutting registration tolerance	±0.15mm	±0.15mm	±0.15mm
Air supply	8bar	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size (length × width × height)	10.2×1.8×2.2m	10.2×1.9×2.2m	10.2×2.0×2.2m
Machine weight	5.2T	5.7T	6.2T

## DESCRIPTIONS

The MF multi-functional label printing & converting system combined with multiple flexo units and rotary die cutting units. The max mechanical speed can reach to 135m/min. Also it can be upgraded upon customerized request.

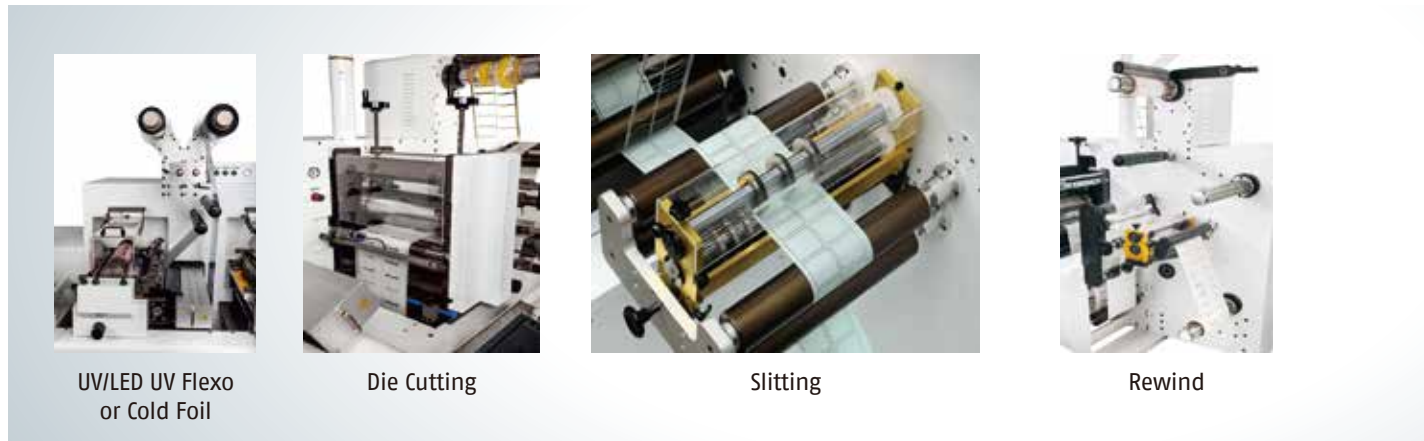
## FUNCTIONING UNITS

### FULL-ROTARY FLEXP UNIT:

Provides flexo printing, spot varnish, super varnish, cold foil, lamination.

### FULL-ROTARY DIE CUTTING UNIT:

Equipped with magnetic cylinder or solid cylinder to die cutting short run or medium run jobs.



UV/LED UV Flexo or Cold Foil

Die Cutting

Slitting

Rewind

## FEATURES & ADVANTAGES

1. Fully automatic servo driven flexo units. Function with flexo printing, cold foil, lamination, spot varnish and super varnish. UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds. Quick change of ink pan and doctor blade without tooling.
2. Servo driven die cutting unit is with automatic registration system. Suitable for die cutting short, medium, long run jobs. Can use magnetic or solid cylinders, high precision and easy to operate.
3. Hot air(I/R) dryer is optional for water-based primer, coating, lamination etc.



Hot air(I/R) Dryer (Option)



Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security. Capable of converting and finishing all label requirements.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# DL 330/420/520

*DL Multi-functional Rotary  
Die Cutting System  
In-Mould Label Die Cutting &  
Collecting Conveyor*



## TECHNICAL SPECIFICATIONS

MODEL	DL 330	DL 420	DL 520
Max web width	340mm	430mm	530mm
Max unwind diameter	700mm	700mm	700mm
Max rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Max semi-rotary die cutting speed	70m/min	70m/min	70m/min
Max semi-rotary repeat length	457mm	457mm	457mm
Max mechanical speed	130m/min	130m/min	130m/min
Die cutting registration tolerance	±0.15mm	±0.15mm	±0.15mm
Air supply	8bar	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size (length × width × height)	4.4×2.2×2.3m	4.4×2.3×2.3m	4.4×2.4×2.3m
Machine weight	2.5T	3T	3.5T

## DESCRIPTIONS

Fully servo driven rotary die cutting unit (full-rotary or semi-rotary), upgradable by modular designed; Suitable for die cutting short or medium run jobs, roll to roll or roll to sheet. With die cutting, slitting and sheet, collection, combined high efficient and easy to operate.

## FUNCTIONING UNITS

### DIE CUTTING UNIT:

Equipped with full-rotary/semi-rotary mode, with magnetic cylinder or solid cylinder to die cutting short or medium run jobs, especially for digital printed labels.

### SLITTING UNIT:

With advanced shear slitting for precise and steady, razor blade slitting or crush slitting, can be provided as option.

### CONVEYOR UNIT:

Servo driven movable standard conveyor for IML or sheeted label collection, speed is adjustable with steady sectionalized control.



Die Cutting



Air Suction Unit for IML



IML



Slitting

## FEATURES & ADVANTAGES

1. Auto/manual die cutting registration system, servo driven with magnetic cylinder or solid cylinder. High precision and reduce material waste. Both full-rotary or semi-rotary mode, for IML job with magnetic or solid cylinder to die cutting short run, medium run jobs.
2. Modular designed, upgradable by adding more flexo units and die cutting units.

## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# SDD 330/420

## SDD Digital Die Cutting System



## TECHNICAL SPECIFICATIONS

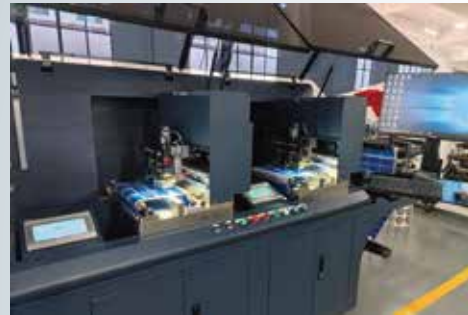
MODEL	SDD 330	SDD 420
Max web width	330mm	420mm
Max unwind diameter	600mm	600mm
Max rewind diameter	600mm	600mm
Max cutting speed	20m/min	20m/min
Max die cutting width	320mm	410mm
Die cutting tolerance	±0.2mm	±0.2mm
Sheeting repeat length	40-300mm with standard collection 300-700mm with moveable conveyor	40-300mm with standard collection 300-700mm with moveable conveyor
Digital cutting repeat length	40-700mm	40-700mm
The distance range between cutting knives (3 blades per head)	35-108mm	35-140mm
The distance range between cutting knives (2 blades per head)	35-160mm	35-210mm

## DESCRIPTIONS

SDD330 digital die cutting system (plotter) is a newly developed digital die cutting equipment with automatic camera system. Compared with rotary die cutting or flat die cutting, and it is more flexible and suitable for processing small orders, customized orders. It integrates dry laminating, digital die cutting, slitting and sheeting in one unit.



## FUNCTIONING UNITS



Digital Die Cutting Station



Web Guiding



Unwind Unit



Sheeting Unit



Rewind Unit



## Applications

All digitally printed finishing electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



## FEATURES & ADVANTAGES

1. Immediate job change, suitable for short order and urgent orders.
2. Small foot print comparing to traditional digital die cutting machine.
3. Servo driven design, simple operation, rapid replacement of accessories.
4. Support for remote monitoring, and quickly troubleshoot and problem solve.
5. Modular design, can support single-cassette cutting head and multiple-cassette cutting heads.
6. Automatic camera scanning QR code fast job changing.



## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

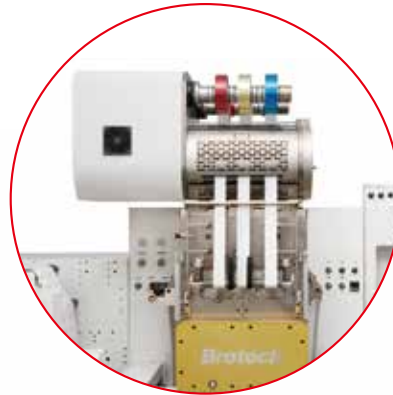
# SDF PLUS 330/420/520

## Smart Modular Designed Digital Printed Label Converting & Finishing System



### FLAT BED HOT STAMPING MODULE

- National invention patented 90° rotatable hot stamping head.
- National invention patented flat bed pressing technology.
- Servo driven control foil saver, upgradable to registered holographic stamping.
- Web and cross web direction of hot foil stamping.



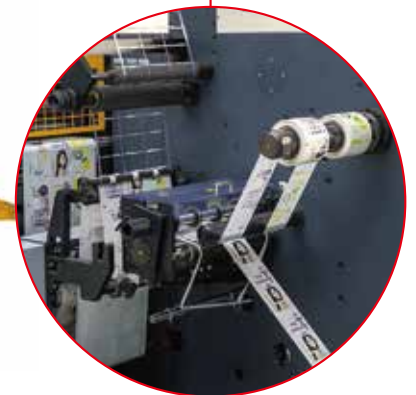
### SEMI-ROTARY FLEXO UNIT

- Semi-rotary flexo technology.
- Servo driven tension control.
- Fast and easy change between semi-rotary and full-rotary, suitable for UV/LED UV spot varnishing.
- Optional hot air(I/R) dryer.
- Optional delam and relam/turn bar.



### SEMI-ROTARY DIE CUTTING UNIT

- Servo driven tension control.
- Magnetic cylinder or solid cylinder.
- Exchangeable between full-rotary and semi-rotary die cutting mode.



### SLITTING UNIT

- Servo driven tension control.
- Stable and accurate slitting.
- Optional shear knife slitting and razor blade slitting.



WEB GUIDING, CORONA TREATER (OPTION)



FLAT BED SCREEN PRINTING (OPTION)



MOVEABLE TOUCH SCREEN

# SDF PLUS

Smart Modular Designed Digital Printed Label Converting & Finishing System

SDF PLUS 330/420/520



# SDF PLUS

Smart Modular Designed Digital Printed Label Converting & Finishing System

## FLAT BED HOT STAMPING MODULE

- National invention patented 90° rotatable hot stamping head.
- National invention patented flat bed pressing technology.
- Servo driven control foil saver, upgradable to registered holographic stamping.
- Web and cross web direction of hot foil stamping.

## FULL-ROTARY FLEXO UNIT

- Servo driven tension control, quick removal of ink cassette, easy mounting of doctor blade.
- Multi-functional flexo unit for laminating, varnishing, cold foil or printing.

## SEMI-ROTARY FLEXO UNIT

- Servo driven tension control.
- Fast and easily changing for semi-rotary and full-rotary, suitable for UV/LED UV spot varnishing.
- Optional hot air(I/R) dryer for water base priming or varnishing.

## SEMI-ROTARY DIE CUTTING UNIT

- Servo driven tension control.
- Magnetic cylinder or solid cylinder.

## MOVEABLE TOUCH SCREEN

- Operator friendly, maximize operation efficiency.

## SLITTING UNIT/AUTOMATIC SLITTING UNIT

- Servo driven tension control.
- Stable and accurate slitting.
- Optional shear knife slitting or razor blade slitting.

## OPTIONAL ROTARY SILKSCREEN UNIT

## OPTIONAL DELAM AND RELAM/TURN BAR

## OPTIONAL LASER DIE CUTTING UNIT

## OPTIONAL FLAT BED SCREEN PRINTING

## OPTIONAL FLAT BED DIE CUTTING

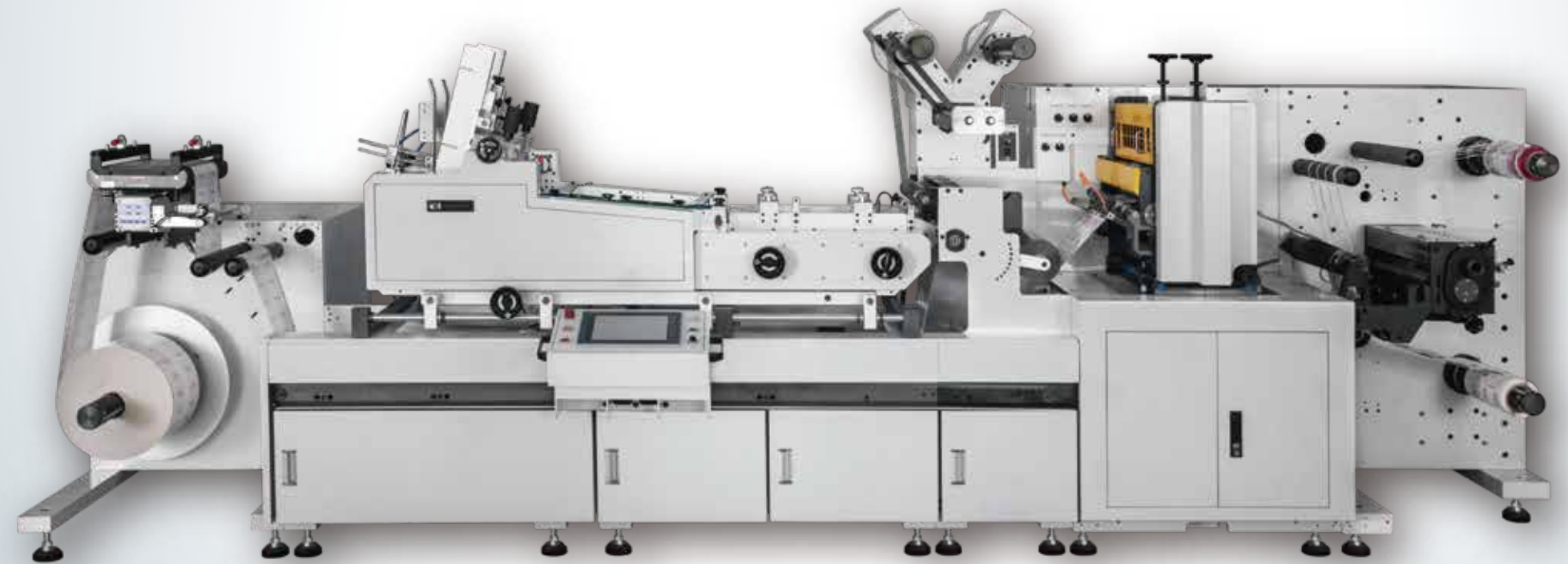
## OPTIONAL AUTOMATIC SLITTING UNIT

## TECHNICAL SPECIFICATION

MODEL	SDF 330	SDF 420	SDF 520
Max web width	340mm	430mm	530mm
Max unwind diameter	800mm	800mm	800mm
Max rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Semi-rotary max speed	70m/min	70m/min	70m/min
Semi-rotary max repeat length	457mm	457mm	457mm
Flat bed die cutting max mechanical speed	130m/min	130m/min	130m/min
Die cutting tolerance	±0.15mm	±0.15mm	±0.15mm
Air supply	8bar	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE

# BF 330/420

## Booklet(ECL) Label Converting System



## TECHNICAL SPECIFICATIONS

MODEL	BF 330	BF 420
Max web width	340mm	430mm
Max unwind diameter	700mm	700mm
Max rewind diameter	600mm	600mm
Max die cutting width	330mm	420mm
Max running speed	12000pieces/hour	12000pieces/hour
Die cutting registration tolerance	±0.15mm	±0.15mm
Air supply	8bar	8bar
Rated voltage	3PH+N+PE	3PH+N+PE
Size (length × width × height)	5.1×2.8×1.8m	5.1×2.9×1.8m
Machine weight	2.5T	3T

## DESCRIPTIONS

The Brotech BF has been developed for the converting system roll to roll booklet (ECL) label converting market sector. It is capable of complete converting and finishing of booklet (ECL) labels of 4 to 24 pages and 50-250mm in length. Brotech's patented feeder is designed to ensure stable and smooth registered feeding, quickly set up time and easy to operation. Alignment is controlled with 2 belts for transfer and equipped with accurate side registration, suitable for the folding of a broad variety of labels.



## FUNCTIONING UNITS

### FEEDER:

Motorized modular design feeding knife with blocks for smooth and stable feeding.

### ALIGNMENT:

2 belts transfer with accurate side-position registration for folding a wide variety of labels.

### LAMINATION:

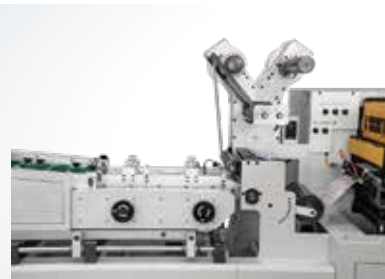
Magnetic particle clutch to control smooth unwind/rewind, max lamination roll 350mm.

### DIE CUTTING:

Full-rotary for use with magnetic or solid cylinders.



Feeder



Belt Transfer



Alignment



Die Cutting

## FEATURES & ADVANTAGES

Brotech's patented feeder is equipped with servo motor to ensure smooth delivery and accurate registration. As well Brotech design offers a modular designed feeding knife and blocks for smooth and stable feeding with perfect registration. A dual belt transfer system provides accurate side-position registration for folding a vast variety of labels. The fully servo driven die cutting station equipped with magnetic or solid cylinders for easy and highly efficient use and job change over.



## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security, industrial/chemicals.

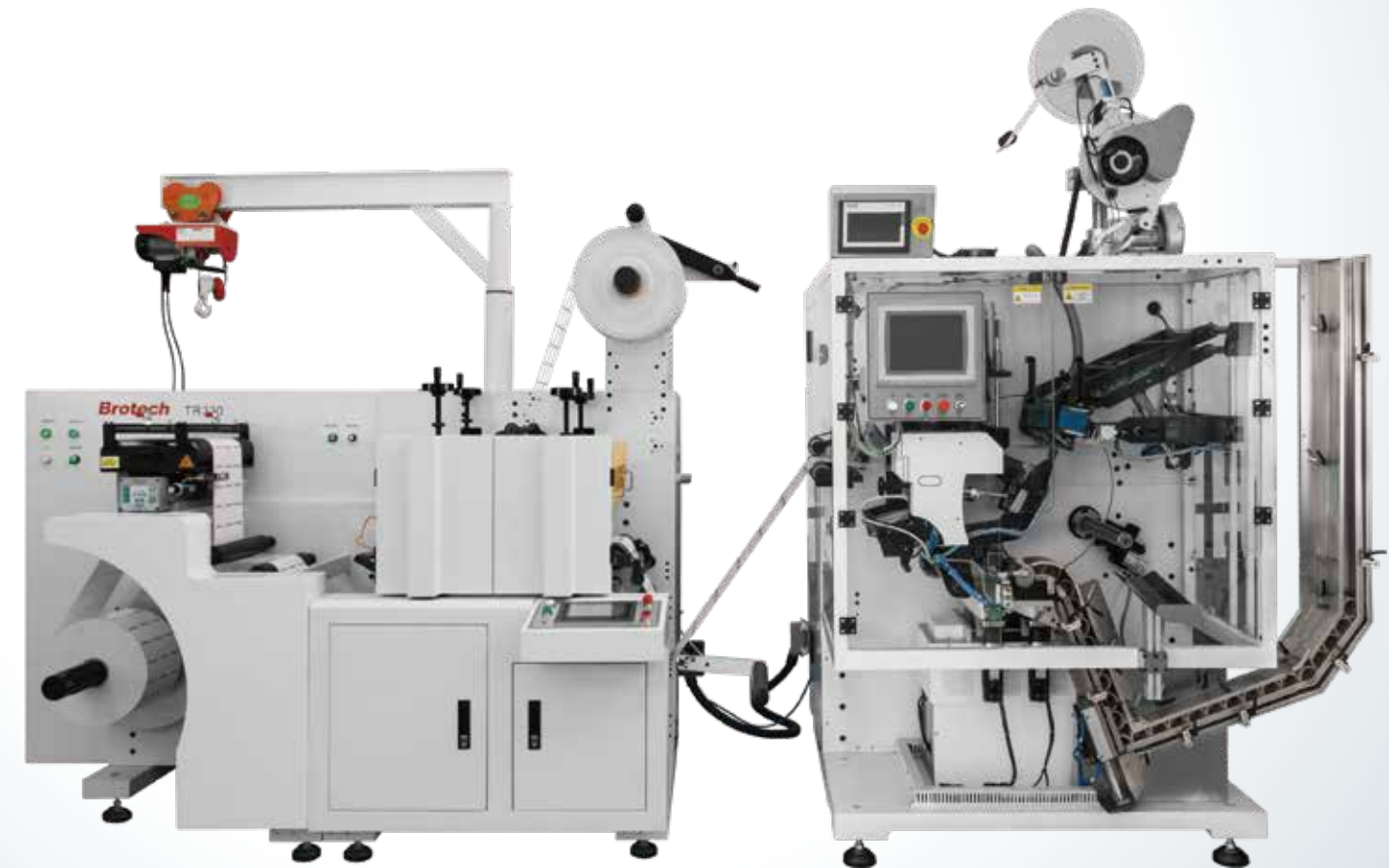


## SUBSTRATES

Standard material thickness is 35 $\mu$ m~280 $\mu$ m of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# TR 330/420/520

## TR Turret Rewind System



## TECHNICAL SPECIFICATIONS

MODEL	TR 330	TR 420	TR 520
Max web width	340mm	430mm	530mm
Max unwind diameter	800mm	800mm	800mm
Max rewind diameter	350mm	350mm	350mm
Min slitting width	35mm	35mm	35mm
Air shaft spindle size	1"-3"	1"-3"	1"-3"
Max mechanical speed	150m/min	150m/min	150m/min
Air supply	100P.S.I	100P.S.I	100P.S.I
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size (length×width×height)	4.8×2.3×2.2m	4.8×2.4×2.2m	4.8×2.5×2.2m
Machine weight	1.5T	2T	2.5T

## DESCRIPTIONS

Brotech's most popular turret rewind system featuring, four servo driven rewind spindles. Auto hot melt gluing system or glue-less core loading system for core gluing and roll end closure producing non-stop rewind. Also featuring label length or label quantity counting. Ergonomically designed, easy to operate, improves daily efficiency and shift output while drastically reducing waste.



## FUNCTIONING UNITS

### SLITTING UNIT:

With advanced shear slitting for precise and steady slitting, optional razor blade slitting or crush slitting.

### REWIND UNIT:

4 air shaft spindles for non-stop rewind. Mandrel sizes 1"-3".

Core adapters available for 4"-6" applications. Features both length and label count.

### TAIL GLUE AND ROLL CLOSURE:

2 sets of automatic hot melt gluing system for rewind (glue-less core loading).



Slitting Unit



Rewind Unit



Gluing Unit

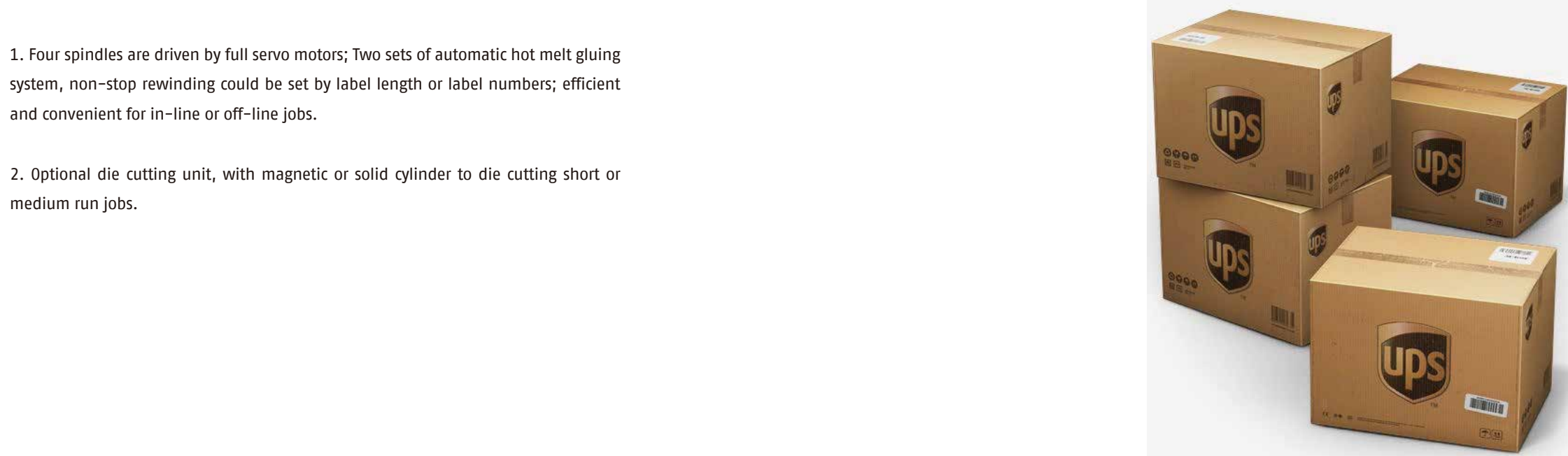
## FEATURES & ADVANTAGES

1. Four spindles are driven by full servo motors; Two sets of automatic hot melt gluing system, non-stop rewinding could be set by label length or label numbers; efficient and convenient for in-line or off-line jobs.
2. Optional die cutting unit, with magnetic or solid cylinder to die cutting short or medium run jobs.



## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.

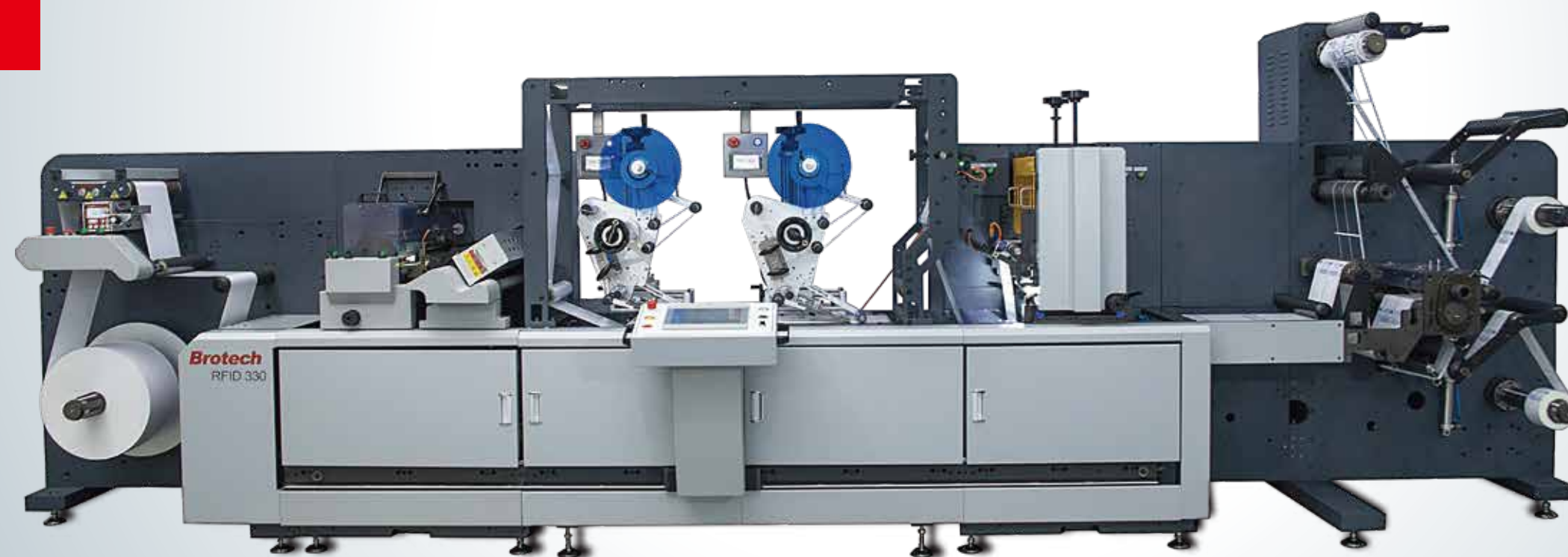


## SUBSTRATES

Standard material thickness is 35μm~280μm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# RFID 330/420/520

*RFID Smart Label & EAS  
Label Converting System*



## TECHNICAL SPECIFICATIONS

MODEL	RFID 330	RFID 420	RFID 520
Max web width	340mm	430mm	530mm
Max unwind diameter	700mm	700mm	700mm
Max rewind diameter	600mm	600mm	600mm
Max die cutting width	330mm	420mm	520mm
Max mechanical speed	120m/min	120m/min	120m/min
Die cutting registration tolerance	±0.15mm	±0.15mm	±0.15mm
Air supply	8bar	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE	3PH+N+PE
Size (length×width×height)	2.6×1.8×1.6m	2.6×1.9×1.6m	2.6×2.0×1.6m
Machine weight	2.5T	3T	3.5T

## DESCRIPTIONS

Brotech RFID is a multi-functional modular converting system designed for the production of smart labels (RFID), security labels/cards and EAS applications. System is with functions of flexo printing, varnish, spot varnish & super varnish, cold foil, chip and antenna insertion, delam/relam, lamination, die cutting, slitting, rewinding. This highly efficient machine provides the ultimate in registration accuracy and production. The unit generates no waste or wasted/crushed antennas or chips. Suitable for the high end security label, packaging industry!



## FUNCTIONING UNITS

### FULL-ROTARY FLEXO:

Flexo printing, varnish, super varnish, cold foil, lamination.

### FEEDING & LABELLING:

With special feeder or high precision label dispenser for inserting, then labelling.

### DIE CUTTING/SHEETING:

Equipped with magnetic or solid cylinder, manual/auto registration, highly efficient and accurate for die cutting or sheeting of laminated chip and antenna labels.



UV/LED UV Flexo



Insertion & Labelling



Die Cutting

## FEATURES & ADVANTAGES

1. Fully automatic servo driven system providing flexo print capability, cold foil, delam/relam, lamination, super varnish, spot varnish and custom drop in colors/coatings. UV/LED UV dryer with chilling roller to keep stable tension and steady temperature at all speeds for film applications. Quick change ink pan and doctor blade requires no tooling.
2. Special feeder for high precision dry inlay/wet inlay insertion for inserting label or card before delam/relam.
3. Servo driven die cutting unit is complete with pre-registration, and automatic registration system for accurate chip/antenna. Supporting use magnetic flexible dies or solid cylinder tooling.
4. Movable HMI operator control providing easy for operation.



Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



## SUBSTRATES

Standard material thickness is 35 $\mu$ m~280 $\mu$ m of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# NEW FS 330/420/520/560

*NEW FS Label Slitting & Rewinding  
& Inspection System*



## TECHNICAL SPECIFICATIONS

MODEL	NEW FS 330	NEW FS 420	NEW FS 520	NEW FS 560
Max web width	340mm	430mm	530mm	580mm
Max unwind diameter	750mm	750mm	750mm	750mm
Max rewind diameter	600mm	600mm	600mm	600mm
Max inspection width	330mm	420mm	520mm	560mm
Min slitting width	20mm	20mm	20mm	20mm
Max mechanical speed	300m/min	300m/min	300m/min	300m/min
Air supply	8Bar	8Bar	8Bar	8Bar
Rating voltage	3PH+N+E	3PH+N+E	3PH+N+E	3PH+N+E
Size (length×width×height)	3.1×1.0×1.8m	3.1×1.1×1.8m	3.1×1.3×1.8m	3.1×1.5×1.8m
machine weight	1.5T	2T	2.5T	2.8T

## DESCRIPTIONS

New FS is a label quality inspection, slitting, and rewinding system, with servo driven 3"/76mm air shaft for unwind/rewind. Can stop automatically against winder diameter. The unwind unit can choose close-loop tension control. Equipped with world leading automatic inspection system and shear knife, suitable for max 750mm diameter label roll slitting, rewinding, and 100% inspection system.



## FUNCTIONING UNITS

### INSPECTION:

World leading automatic inspection system, mark and classify all the defects, limit waste, increase customer's satisfaction and improve return on investment.

### SLITTING:

Advanced progressive shear knife for precise and steady slitting, optional razor blade slitting or both.



Inspection Platform



Slitting



Inspection System



Unwind

## FEATURES & ADVANTAGES

1. World leading automatic 100% inspection system, mark and classify all defects, limit waste and improve ROI.
2. Advanced progressive shear knife for precise and steady slitting, optional razor blade slitting or both.



## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.

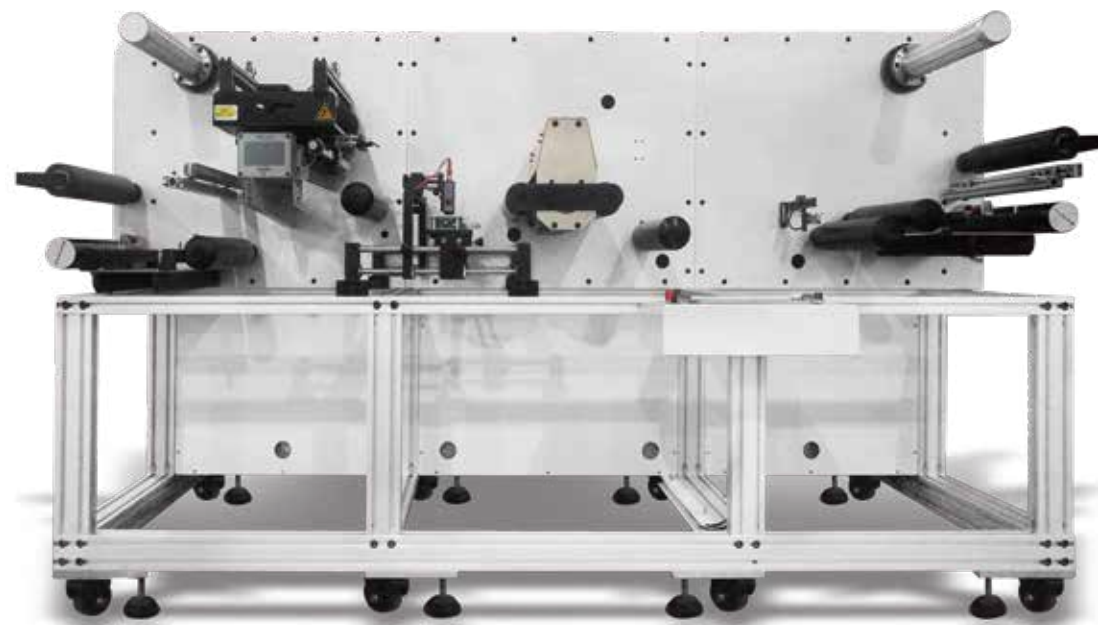


## SUBSTRATES

Standard material thickness is 35µm~280µm of film / paper / adhesive material / light carton board. Other special materials need to be tested.

# RFID FS 330/420

**Tagsurance Intelligent Label Smart Label  
Performance Detection System**



## TECHNICAL SPECIFICATIONS

MODEL	RFID FS 330	RFID FS 420
Max web width	340mm	430mm
Max unwind diameter	410mm	410mm
Max rewind diameter	410mm	410mm
Max inspection width	330mm	420mm
Max mechanical Speed	80m/min	80m/min
Air supply	8bar	8bar
Rating voltage	3PH+N+PE	3PH+N+PE
Machine weight	1.5T	2T

## DESCRIPTIONS

The Brotech Voyantic Tagsurance equipment is a servo driven with closed loop tension controlled quality assurance system. Its electronic web guiding system provides smooth and accurate web control to prevent SIM card and antenna damage. Brotech has equipped their unit with the Voyantic Tagsurance label inspection system to inspect label's quality and consistency with respective radio frequency. The machine features "auto error placement" when the defective label is found. The unit finds the defect and marks it with an inkjet mark allowing the operator to address the defected label.

## FEATURES & ADVANTAGES

### SPOT TEST:

Set different frequency to choose defect labels under smallest initial power.

### SENSITIVITY TEST:

Could observe the changes of label initial power, very convenient for operating.

### INITIAL POWER MODE:

Capable of testing the minimum label initial power under certain setting frequency.

### WRITE/READ:

Capable of reading all testing functional orders, and stores the data and results into database for validation purposes.



## SUBSTRATES

Standard material thickness is 35 $\mu$ m~280 $\mu$ m of film/paper/adhesive material/light carton board. Other special materials need to be tested.

## Applications

ALL RFID/EAS and security label scanning  
and QA/QC validation.



# TDL 330

## Table Top Die Cutting Machine



## TECHNICAL SPECIFICATIONS

MODEL	TDL 330
Max web width	340mm
Max unwind diameter	350mm
Max rewind diameter	350mm
Max mechanical speed	15m/min
Die cutting registration tolerance	±0.20mm
Rating voltage	3PH+N+PE
Size (length × width × height)	1.2 × 1.3 × 1.6m
Machine weight	650KG

## DESCRIPTIONS

The Brotech TDL table top die cutting machine, a compact label finishing system which focuses on small run production orders including self-adhesive film lamination. Perfect for small to medium size production and proofing at low and medium speeds. Compact footprint allows easy and fast operation and flexible digital job changes in a limited space like office.

## FUNCTIONING UNITS



Unwind & Lamination Unit



Rewind Unit

## FEATURES & ADVANTAGES

1. Focus on small-volume production and compact label post-processing system, suitable for production and proofing of low-speed, small-volume orders. The operation is simple and quick, and the order conversion is flexible.
2. Small size of the machine, it can be placed directly in the office and other places, regardless of space constraints, depending on the conditions of use, whether or not have pneumatic for whole machine is required.
3. Now upgrade to add dry lamination & razor blade & slitting function to achieve one-stop office label proofing.

## Applications

Electronics, cosmetics, packaging, logistics, toys, pharmaceutical, garments, security.



# SMS 500/700

## Shrink Sleeve Label Finishing System SMS500/700 Shrink Sleeve Label Seaming System



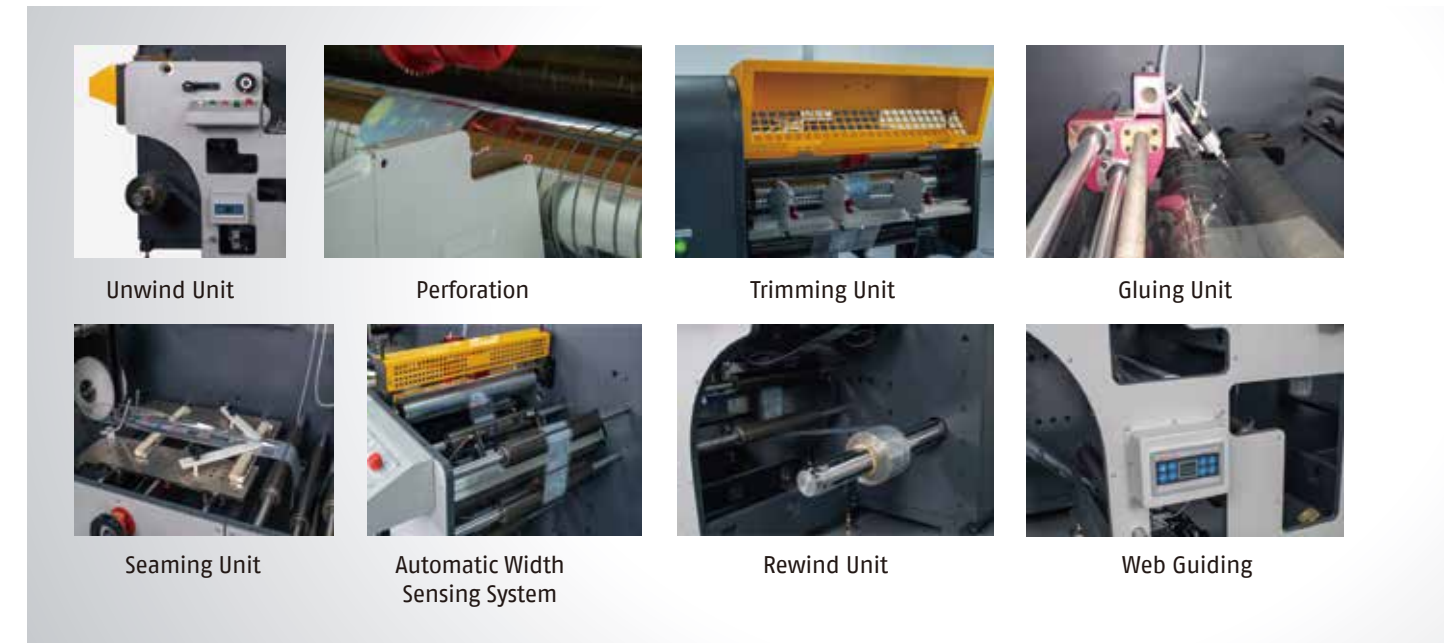
### TECHNICAL SPECIFICATIONS

MODEL	SMS 500	SMS 700
Max web width	520mm	720mm
Max unwind diameter	600mm	600mm
Max rewind diameter	600mm	600mm
Finishing products width	250mm	350mm
Max speed	400m/min	400m/min
Width precision accuracy	0-0.5mm	0-1mm
Solvent application width	1mm	2mm
Paper core size	3" (Option 6")	3"(Option 6")
Width web measuring device	Yes	Yes
UV detection	Yes	Yes
Dispensing valve	Yes	Yes
Rating voltage	3PH+N+E	3PH+N+E

### DESCRIPTIONS

SMS series is specially used for seaming PVC, PET, PE, POF and other color-printed shrink film materials into roll-shaped packaging materials, beverage label etc. The seam is where the edges of the shrink material are glued together to make sleeves.

### FUNCTIONING UNITS



### FEATURES & ADVANTAGES

1. Cantilever design, full servo control.
2. Ultrasonic web guiding sensor.
3. A variety of seaming unit can accurately control the width of the material after seaming, and the seaming width remain unchanged at any speed.
4. Precisely control the amount of glue applied to avoid glue breakage, glue leakage.
5. Oscillating transversal movement rewinding, winding closed loop tension control.
6. Trimming unit, lateral air trim extractor, perforating , vent hole functions as option unit.

### Applications

Food, beverage, healthcare, household chemicals, health and beauty.



# SMI 330/420 & SMC 330/420

**Shrink Sleeve Label Inspection System & Shrink Sleeve Label Cutting System**



## TECHNICAL SPECIFICATIONS

MODEL	SMI 330	SMI 420	SMC 330	SMC 420
Max web width	250mm	350mm	250mm	350mm
Max unwind diameter	600mm	600mm	600mm	600mm
Max rewind diameter	600mm	600mm	/	/
Max inspection width	250mm	350mm	/	/
Max inspection speed	150m/min	150m/min	/	/
Max sheeting length	/	/	>380mm	>380mm
Max sheeting speed	/	/	40m/min, 150 strokes/min	40m/min, 150 strokes/min
Paper core size	3''(Option 6'')			
Rating voltage	3PH+N+PE			

## DESCRIPTIONS

SMI shrink sleeve label inspection system is used to analyze the sleeving construction and search for imperfections.

SMC shrink sleeve label cutting system can cut the rolls into individual pieces, if customer would like to apply them manually.

## FUNCTIONING UNITS

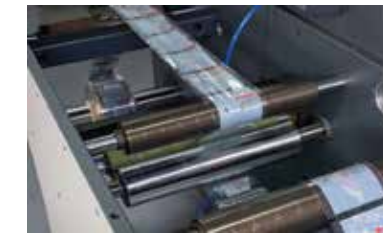
### SMI



Unwind Unit



Web Guiding



Lengthened Inflatable Inspection Path

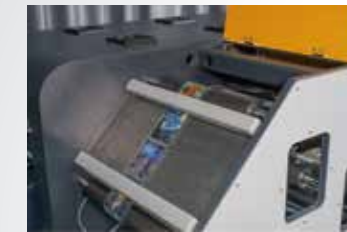


Rewind Unit

### SMC



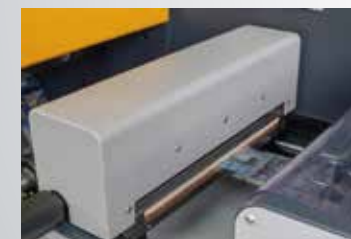
Unwind Unit



Pneumatic Clamping Device



Web Guiding



Positioning Device & Dotted Line Device



Sheeting Unit



Conveyor

## Applications

Food, beverage, healthcare, household chemicals, health and beauty.



# LABEL FINISHING AND CONVERTING SOLUTION



CDF P1



CDF PLUS P5



NEW SDF P9



SDF-E P13



DF800 P17



MF P19



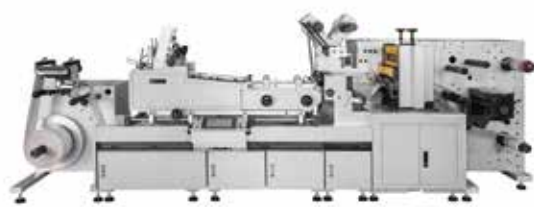
DL P23



SDD P27



SDF PLUS P31



BF P35



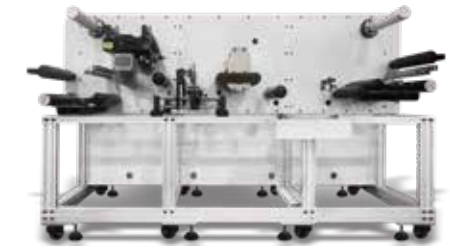
TR P39



RFID P43



NEW FS P47



RFID FS P51



TDL P53



SMS P55



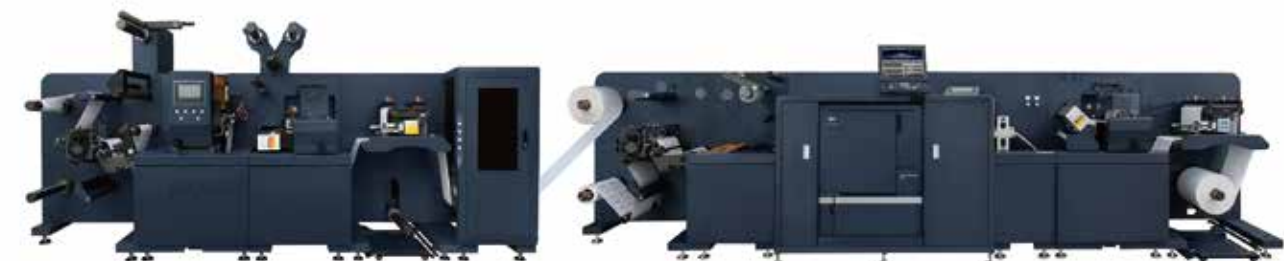
SMI P57



SMC P58



AccurioLabel 230 Hybrid Digital Finishing System



Near Line Digital Finishing System

