

# VTECH

ADVANCED MATERIALS

APPLICATION BROCHURE

## Integrated & Vision

MDF integrated multi-functional digital finishing systems, RDF / RD-R modular rotary die-cutting, and VS-series vision-inspection slitting — Rosen's integrated and vision platforms, represented by Vtech Singapore.

### Territory Coverage

Sole Authorized Distributor for Singapore and Malaysia

Regional Distributor for Southeast Asia

### Commercial Contact

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## Integrated Finishing • Vision Inspection

MDF330/420/520 multi-functional digital finishing — modular flexo, screen, hot-stamp, emboss, die-cut and slit in one full-servo line. Plus RDF/RD-R modular rotary die-cutters and VS-A370 / VS-C370 inspection-slitting machines for label and film converters demanding 100 % quality control.



### Why Converters Choose VTech

01

Commercial Proposals aligned with manufacturing priorities and ROI expectations

02

Faster coordination for quotation review

03

Professional installation planning support

04

Responsive after-sales service and prompt technical support

05

Competitive pricing and reliable machinery

# INTRODUCTION

## Rosen and Vtech Singapore

The MDF integrated finishing platform is engineered for converters who want one machine for everything – modular intermittent flexo and screen printing, flatbed hot-stamp and emboss with 90° rotation, optional cold-foil, intermittent die-cutting (full or semi-rotary), and inline slitting with auto back-cut. Three web widths (330 / 420 / 520 mm).

The vision-inspection slitting line (VS-A370) layers a multi-camera CCD inspection array onto a 300 m/min slitter for 100 % defect detection. Through Vtech Singapore, customers configure the right module mix and get full in-region commissioning and after-sales.

### Commercial access

A single commercial contact for quicker quotation flow and clearer project communication.

### Competitive positioning

Practical proposal support aligned to application fit, ROI expectations, and production priorities.

### After-sales confidence

Coordinated support for installation planning, troubleshooting follow-up, and service response.

### Sales Contact

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## Commercial Positioning

- Reliable converting solutions for sustained production performance
- Commercially competitive proposals aligned with manufacturing priorities
- Structured coordination across installation planning, service response, and follow-up
- Prompt local engineering support – based out of Singapore, in-region for Southeast Asia



# ROSEN

Rosen Precision Machinery (Guangdong) Co., Ltd

# Integrated Finishing • Vision

All-in-one digital finishing, modular rotary die-cut, and 100 % CCD inspection slitting in one platform family.

Module	Function	Capability	Application Sweet-Spot
<b>MDF330 / 420 / 520</b>	<b>Integrated print-and-convert</b>	Modular flexo + screen + foil + die-cut + slit	All-in-one digital finishing – modular intermittent flexo and screen, flatbed hot-stamp + emboss (90° rotatable), optional cold-foil, intermittent die-cut (full or semi-rotary), inline slitting and double-servo rewind
<b>RDF330 / 420</b>	<b>Standalone digital die-cut</b>	Compact full / semi-rotary die-cut	Compact digital finishing module focused on die-cutting – same full/semi-rotary speed, accuracy and repeat length as the MDF, in a smaller footprint with sheeting capability
<b>RD-330R / 370R</b>	<b>Modular rotary die-cut module</b>	Servo full/semi-rotary, snowball waste rewind	Standalone rotary die-cut for digital print finishing – exchangeable full/semi-rotary die-cut unit, single-servo rewind shaft (forward + reverse), snowball waste rewind
<b>VS-A370</b>	<b>Vision-inspection slitting</b>	100 % CCD inspection at 300 m/min	100 % inline CCD optical inspection layered onto a 300 m/min slitter – print, registration, color and defect detection at full line speed for zero-defect label and film converting
<b>VS-C370</b>	<b>High-speed slitting (servo)</b>	Quick-change knives • 300 m/min	Compact servo-driven high-speed slitter with semi-automatic turret rewinder, electronic web-guide, quick-change shear and razor knife cassettes, and linear meter counter

All platforms – full-servo control, recipe-driven HMI, CE-Certified, in-region commissioning and after-sales by VTech engineers.

## WIDELY USED IN

Premium Labels • Pharma Labels • Cosmetics & Wine Labels • Digital-Printed Labels • Self-Adhesive Films • Security & Track-and-Trace Substrates

# MDF330 / 420 / 520

## Integrated Multi-Functional Digital Finishing System

All-in-one digital finishing – modular intermittent flexo and screen, flatbed hot-stamp + emboss (90° rotatable), optional cold-foil, intermittent die-cut (full or semi-rotary), inline slitting and double-servo rewind



### Model Specifications

Parameter	MDF330 / 420 / 520
Variants	MDF330 / MDF420 / MDF520
Max paper width	330 / 420 / 520 mm
Max unwind / rewind diameter	800 mm / 600 mm
Max die-cut speed	Rotary 0–120 m/min • Semi-rotary 0–60 m/min
Printing / die-cut accuracy	±0.15 mm
Max die-cut repeat length	457 mm
Plate / magnetic cylinder (std)	152 T / 176 T
Hot-stamp speed	200 times/min
Hot-stamp area	310 × 310 / 420 × 400 mm • varies (520)
Total power	50 kW
Machine size (L×W×H)	7150 × 1700 × 2050 / ×1800 × / ×1900 × mm
Machine weight	6.5 t / 6.8 t / 7 t

### Common Specifications

Architecture	Modular, full-servo control
HMI	Touchscreen with recipe management
Tension control	Multi-zone, auto-balanced
Drive system	Servo motors, individually controlled
Edge guidance	EPC auto-correction
Materials	Films, papers, foils, foams, label stock
Power supply	380V / 3-phase
Integration	Standalone or inline retrofit
Safety	Light curtains, e-stop, lock-out (CE-Certified)
Service	VTech engineers – installation, training, maintenance
Sourcing	Premium components – servo motors, sensors, PLCs
Quality	100% pre-shipment factory acceptance

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Digital Labels

Track & Trace

Security

# RDF330 / 420

## Digital Finishing Machine (Die-Cut Module)

Compact digital finishing module focused on die-cutting – same full/semi-rotary speed, accuracy and repeat length as the MDF, in a smaller footprint with sheet



### Model Specifications

Parameter	RDF330 / 420
Variants	RDF330 / RDF420
Max paper width	330 / 420 mm
Max unwind / rewind diameter	800 mm / 600 mm
Max die-cut speed	Rotary 0–120 m/min • Semi-rotary 0–60 m/min
Die-cut / sheeting accuracy	±0.15 mm
Max die-cut repeat length	457 mm
Standard magnetic cylinder	176 T • Optional 60–204 T
Total power	20 kW
Machine size (L×W×H)	3900 × 1700 × 2000 / 3900 × 1800 × 2000 mm
Machine weight	2800 kg / 3000 kg

### Common Specifications

Architecture	Modular, full-servo control
HMI	Touchscreen with recipe management
Tension control	Multi-zone, auto-balanced
Drive system	Servo motors, individually controlled
Edge guidance	EPC auto-correction
Materials	Films, papers, foils, foams, label stock
Power supply	380V / 3-phase
Integration	Standalone or inline retrofit
Safety	Light curtains, e-stop, lock-out (CE-Certified)
Service	VTech engineers – installation, training, maintenance
Sourcing	Premium components – servo motors, sensors, PLCs
Quality	100% pre-shipment factory acceptance

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# RD-330R / 370R

## Modular Rotary Die-Cutting Machine

Standalone rotary die-cut for digital print finishing – exchangeable full/semi-rotary die-cut unit, single-servo rewind shaft (forward + reverse), snowball waste re



### Model Specifications

Parameter	RD-330R / 370R
Variants	RD-330R / RD-370R
Max paper width	330 / 370 mm
Max unwind / rewind diameter	800 mm / 600 mm
Max die-cut speed	Full rotary 120 m/min · Semi-rotary 60 m/min
Die-cutting accuracy	±0.15 mm
Drive	Full servo motor control
Die-cut mode	Full or semi-rotary, exchangeable
Rewind direction	Forward and reverse (single servo)
Waste rewind	Snowball-style
Total power	12 kW
Machine size (L×W×H)	2200 × 1620 × 1500 / 2200 × 1670 × 1500 mm
Machine weight	1500 kg / 1600 kg
Optional	IML, gap-master, auto slitting, sheeting, dual rewinds

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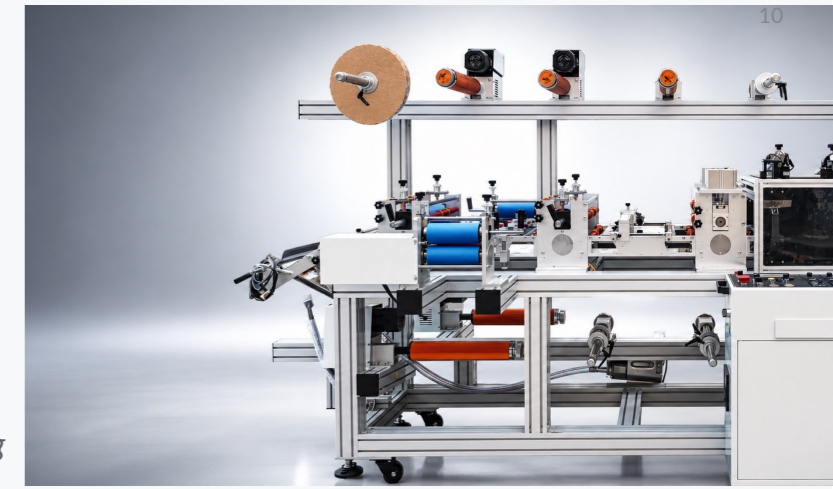
### Common Specifications

Architecture	Modular, full-servo control
HMI	Touchscreen with recipe management
Tension control	Multi-zone, auto-balanced
Drive system	Servo motors, individually controlled
Edge guidance	EPC auto-correction
Materials	Films, papers, foils, foams, label stock
Power supply	380V / 3-phase
Integration	Standalone or inline retrofit
Safety	Light curtains, e-stop, lock-out (CE-Certified)
Service	VTech engineers – installation, training, maintenance
Sourcing	Premium components – servo motors, sensors, PLCs
Quality	100% pre-shipment factory acceptance

# VS-A370

## High-Speed Inspection Slitting Machine

100 % inline CCD optical inspection layered onto a 300 m/min slitter – print, registration, color and defect detection at full line speed for zero-defect label and film converting



### Model Specifications

Parameter	VS-A370
Max paper width	370 mm
Max unwind diameter	700 mm
Max rewind diameter	Upper 500 · Lower 700 mm
Slitting speed	0–300 m/min
Inspection speed	0–120 m/min
Min slitting width	16 mm
Total power	8 kW
Machine size (L×W×H)	2600 × 1300 × 1400 mm
Machine weight	1500 kg

### Common Specifications

Architecture	Modular, full-servo control
HMI	Touchscreen with recipe management
Tension control	Multi-zone, auto-balanced
Drive system	Servo motors, individually controlled
Edge guidance	EPC auto-correction
Materials	Films, papers, foils, foams, label stock
Power supply	380V / 3-phase
Integration	Standalone or inline retrofit
Safety	Light curtains, e-stop, lock-out (CE-Certified)
Service	VTech engineers – installation, training, maintenance
Sourcing	Premium components – servo motors, sensors, PLCs
Quality	100% pre-shipment factory acceptance

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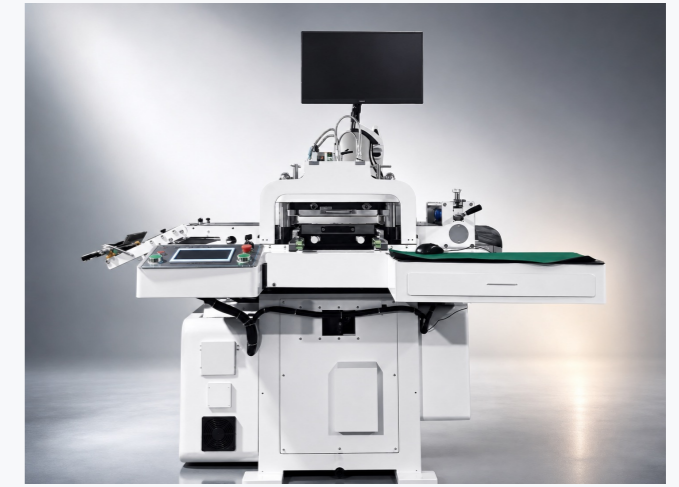
Track & Trace

Security

# VS-C370

## High-Speed Slitting Machine

Compact servo-driven high-speed slitter with semi-automatic turret rewriter, electronic web-guide, quick-change shear and razor knife cassettes, and linear meter counter



### Model Specifications

Parameter	VS-C370
Max roll width	370 mm
Max mechanical speed	300 m/min
Max unwind / rewind diameter	800 mm / 450 mm
Drive system	Servo motor (unwind + rewind)
Semi-automatic turret rewriter	Yes
Electronic web-guide	Yes
Slitting accuracy	±0.2 mm
Knife systems	Shear + Razor (quick-change cassette)
Trim waste extraction	Yes • Linear meter counter: Yes
Power consumption	12 kW • 100 psi air
Power supply	3PH + N + PE
Machine size (L×W×H)	1800 × 1450 × 1825 mm
Machine weight	1.5 t
Optional	Second lower rewind shaft

### Common Specifications

Architecture	Modular, full-servo control
HMI	Touchscreen with recipe management
Tension control	Multi-zone, auto-balanced
Drive system	Servo motors, individually controlled
Edge guidance	EPC auto-correction
Materials	Films, papers, foils, foams, label stock
Power supply	380V / 3-phase
Integration	Standalone or inline retrofit
Safety	Light curtains, e-stop, lock-out (CE-Certified)
Service	VTech engineers – installation, training, maintenance
Sourcing	Premium components – servo motors, sensors, PLCs
Quality	100% pre-shipment factory acceptance

Optional USED IN

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# Factory Access. Local Service.

Imported converting machinery often leaves operators stranded – distant OEM support, slow spares, weak after-sales response when a line goes down.

**VTech fixes that.**

Full Rosen factory pricing and full lineup, paired with in-region engineering, demo capability, and prompt local response – all based out of Singapore.

**01**

### Factory Direct

Direct manufacturer pricing – no middle-layer markup, no mystery margins.

**02**

### Faster Lead Times

In-region planning and consolidated logistics shorten delivery vs. ad-hoc imports.

**03**

### One-Stop Source

Every Rosen platform – print, die-cut, hot-stamp, slit, laminate, integrate, inspect, laser. One supplier, one PO.

**04**

### Local Demo

Live demos and spec consultations in-region before you commit to a machine.

**05**

### Trained Engineers

Commissioning, training, and ongoing support from VTech engineers – not a remote help desk.

VTECH | ROSEN PARTNERSHIP

VTECH

ROSEN

**Exclusive Rosen Distributor**

Singapore · Malaysia · South-East Asia

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