efi Roll-to-Roll Printers

Value-added options

Power tools to boost your productivity

Fuel your versatility with options and software

EFI™ superwide and wide format roll-to-roll LED printers feature a rich collection of value-added options that transform them into all-in-one, multi-purpose platforms — expanding your capabilities, application offerings, and profit opportunities.

Compatibility

The optional features in this brochure are compatible with all or some of the following EFI printers: VUTEk® 3r+, VUTEk 5r+, Pro 32r, Quantum 3 and 5, and Matan 3 and 5. Please consult the table on page 20 to check which option is supported by each printer model.

Upgradability

Most of the roll-to-roll optional features are field upgradable for EFI roll-to-roll printers that were manufactured in 2015 and after, unless otherwise stated. Nevertheless, it is always preferable and less costly to have them factory installed.

Before you order

The roll-to-roll optional features described here may have some limitations, relevant to certain customer requirements. Those limitations may be related to specific job properties, to the combination of two or more options, or to other conditions. It is recommended to verify before ordering.

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Inline finishing options

A unique workflow that automates the complete printing and finishing process on-the-fly and in a single system, including printing, vertical slitting and trimming, printing customer information on the back of the media, horizontal cutting, and collection of the cut media.

Inline finishing workflow benefits

- Saves valuable time and eliminates bottlenecks at the finishing stations
- Replaces additional expensive finishing equipment and saves valuable floor space
- Prevents finishing, shipping, and installation errors
- Increases yield

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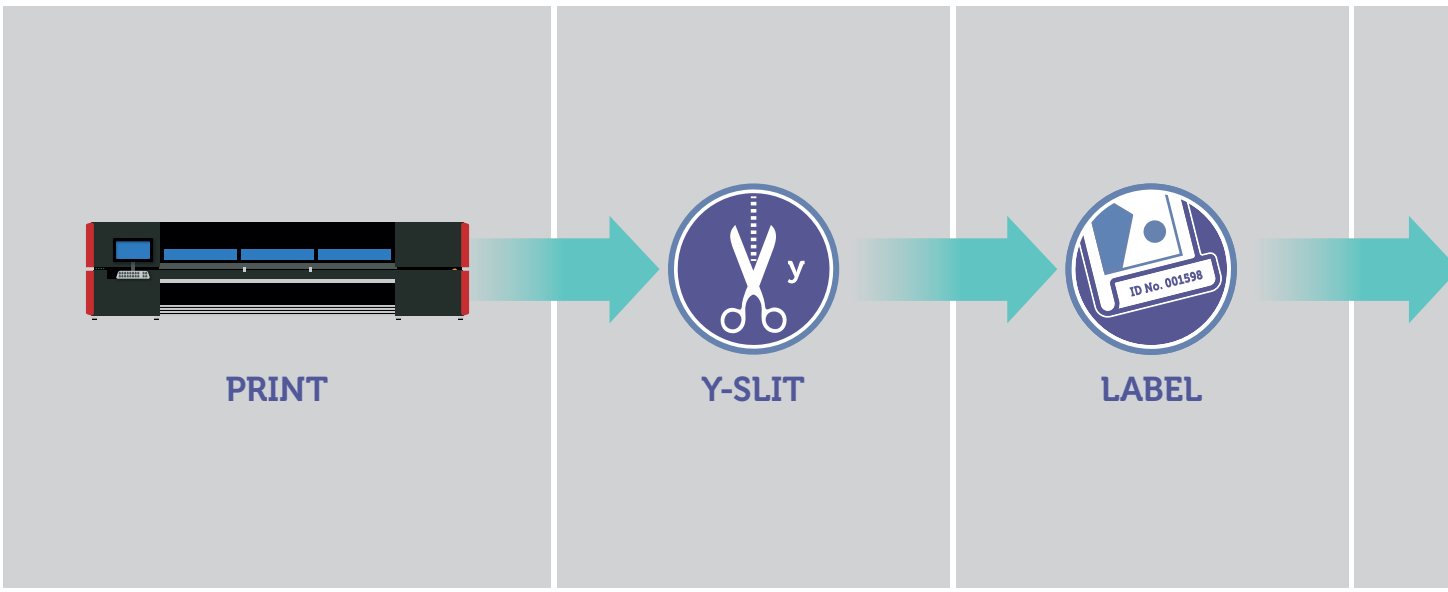
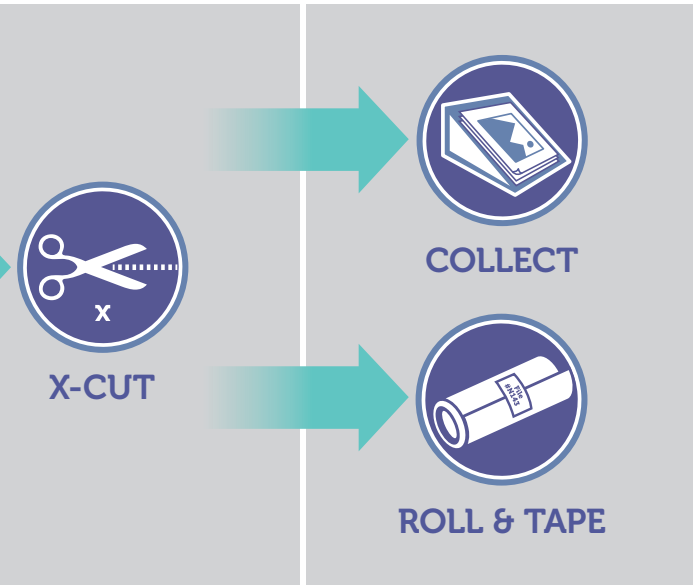
INLINE FINISHING WORKFLOW





Y-slitter

For vertical trimming of margins or slitting of a single media into multiple jobs.

- Cuts media on the y-axis on the fly, simultaneously with printing
- Modifiable configuration:
  - Single-bladed for trimming margins
  - Double-bladed for slitting of single media into two jobs (blades are fixed 0.31 in (8 mm) apart)
- Simple and easy installation with no tools required
- Easy manual adjustment of position along printing table
- Retractable blades for maximum safety
- Minimize media waste and increase the printing area

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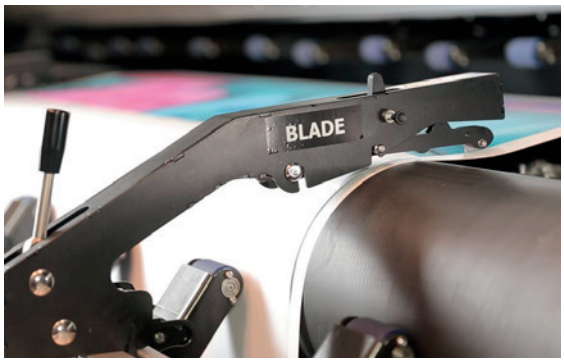


Inline finishing options

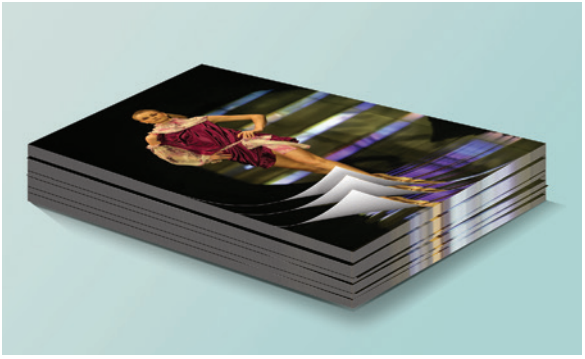
Roll-to-sheet X-cutter

Unique roll-to-sheet horizontal cutter incorporated in the printer.

- Automatically cuts media on the x-axis between jobs, on the fly
- Controlled via the front-end software
- Does not affect productivity
- Saves valuable time at finishing station
- Replaces expensive cutting equipment and saves space
- Prevents finishing errors and increases yield

Specifications:

- Maximum cutting width in 196.85 in (5 m) printers: 197 in (500 cm)
- Maximum cutting width in 118.11 in (3 m) printers: 118 in (320 cm)



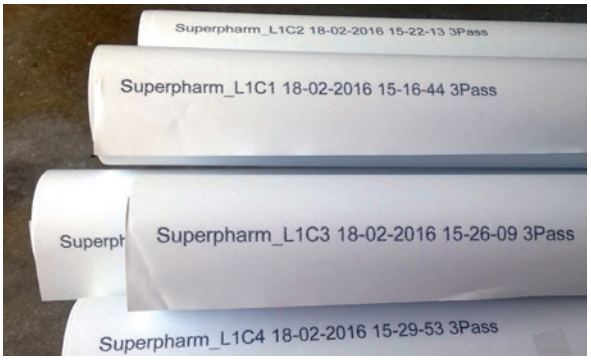
ID backprint

A printing device that prints file information on the rear of the media, facilitating the identification of the finished job for packing, shipping, and installation.

- Printed data includes:
  - File ID
  - Printing date and time
  - Print mode
  - Copy number and more
- Eliminates the need for manual labelling
- Helps prevent shipping errors
- Saves time during installation of printed job

Notes:

- Does not support barcodes or QR codes
- Applicable to jobs of linear 39 in (100 cm) length and longer



Sheet collector

Efficiently and neatly collects printed sheets cut inline.

- Collects sheeted prints as they are produced
- Allows for easy and orderly collection and arrangement of printed cut sheets
- Easily attached to printer platform; no electrical or compressed air connections needed
- Foldable to small footprint for easy storage

Specifications:

- Unit width: 63 in (1.6 m); two or three units to support multi-roll printing
- Fits sheets up to 63 in (160 cm) x 77 in (195 cm)
- Requires 118.11 in (3 m) of free space in front of printer
- Folded dimensions (W x D x H):
  63 in x 27.5 in x 79 in
  (160 cm x 70 cm x 200 cm)

Roll & tape

Automated device that takes printed cut sheets directly from the printer, rolls them into scrolls, and tapes their edges with labels that have job information printed on them.

- Synchronized with the inline finishing workflow
- Delivers labelled printed rolls immediately following printing

Specifications:

- Maximum media width: 63 in (1.6 m)
- Minimum media width: 15.7 in (40 cm)
- Maximum total linear media length (single sheet or multiple copies rolled together): 157.48 in (4 m)
- Maximum roll diameter: 2.3 in (6 cm)
- Printers supported: VUTEk 3r+ and 5r+
- Productivity: Supports all print modes (from one pass up)
- Media type support: A wide range of flexible display graphics media, such as vinyl, paper, and PVC banner
- Multi-roll printing: Supports 63 in (1.6 m) rolls; two units for VUTEk 3r+, three units for VUTEk 5r+

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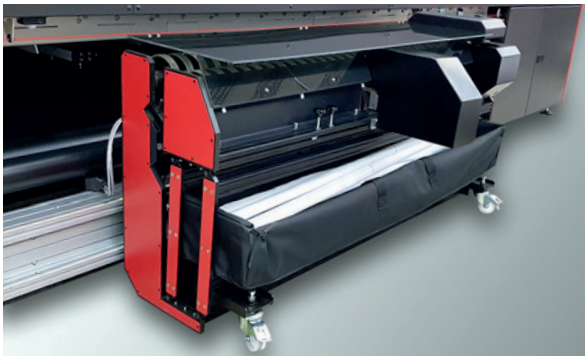

Double-sided printing

EFI roll-to-roll printers offer three double-sided printing solutions. All solutions combine proprietary software, dedicated electronics, and hardware to facilitate those challenging applications.

Automatic blockout printing

An automatic system that enables printing on both sides of opaque blockout media, resulting in excellent registration between sides.

- Accuracy of ≤ 0.20 in (5 mm) over 33 linear feet (10 linear meters)
- Includes an optical sensor system, dedicated electronics and software
- Simple, easy, and fully automatic system
- Eliminates the need for guesswork and manual manipulation
- Reduces required operator skill level
- Two available workflows, to be defined before printing:
  - Head-to-head printing for short jobs where media is rolled back, flipped over and reinstalled with side B up
  - Head-to-tail printing for longer jobs where printed media is collected on a front core, flipped over and reinstalled with side B up

Notes:

- Automatic blockout supports multi-roll printing on side A, and single-roll printing for side B
- Use of X-cutter and Y-slitter with automatic blockout is partial
  - Slitters can be used according to built-in instructions
  - Cutter can be used for side B

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Automatic backlit printing

Automatic patented system for perfectly aligned double-sided backlit printing on backlit media.

- Accuracy of ≤ 0.08 in (2 mm) over 33 linear feet (10 linear meters)
- Camera-guided software automatically corrects registration on the x, y, and tilt axes
- Includes two cameras, a LED strip along printing table and dedicated software
- Simple, easy and fully automatic system
- Eliminates the need for guesswork and manual manipulation
- Reduces required operator skill level

Notes:

- Minimum image width: 16.54 in (42 cm)
- Automatic backlit is not compatible with multi-roll printing
- Use of X-cutter and Y-slitters with automatic backlit is limited
  - Slitter is not supported
  - Cutter is available on B side, according to built-in instructions

Backlit printing

Semi-automated system that simplifies double-sided backlit printing on backlit media.

- Simple and user-friendly GUI
- Operator manually enters alignment instructions into software dialogue
- Smart software algorithm corrects registration in the x, y, and tilt axes, while printing
- No need for manual manipulation of media
- Includes an LED strip along printing table for inline proofing

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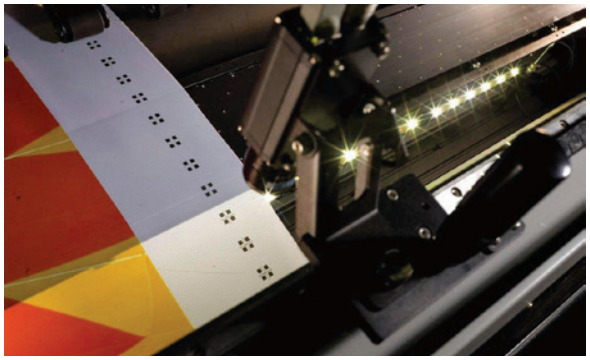

Color options

In addition to the standard CMYK colors, EFI superwide roll-to-roll printers offer optional white and seven-color printing, as well as clear ink, adding a wide range of high-margin applications to your portfolio.

White printing

- Enables printing on colored and transparent media
- Opens up a myriad of creative possibilities
- Instant uptime of white printheads thanks to advanced circulation system in the ink tanks and along the entire ink system

- Multiple white print modes for various challenging applications:
- White only
- White as background
- White on top of color
- White for backlit applications (c-w-c)
- Five-layer printing (c-w-k-w-c) for blockoutprinting on clear
- Various additional three- and five-layer print modes

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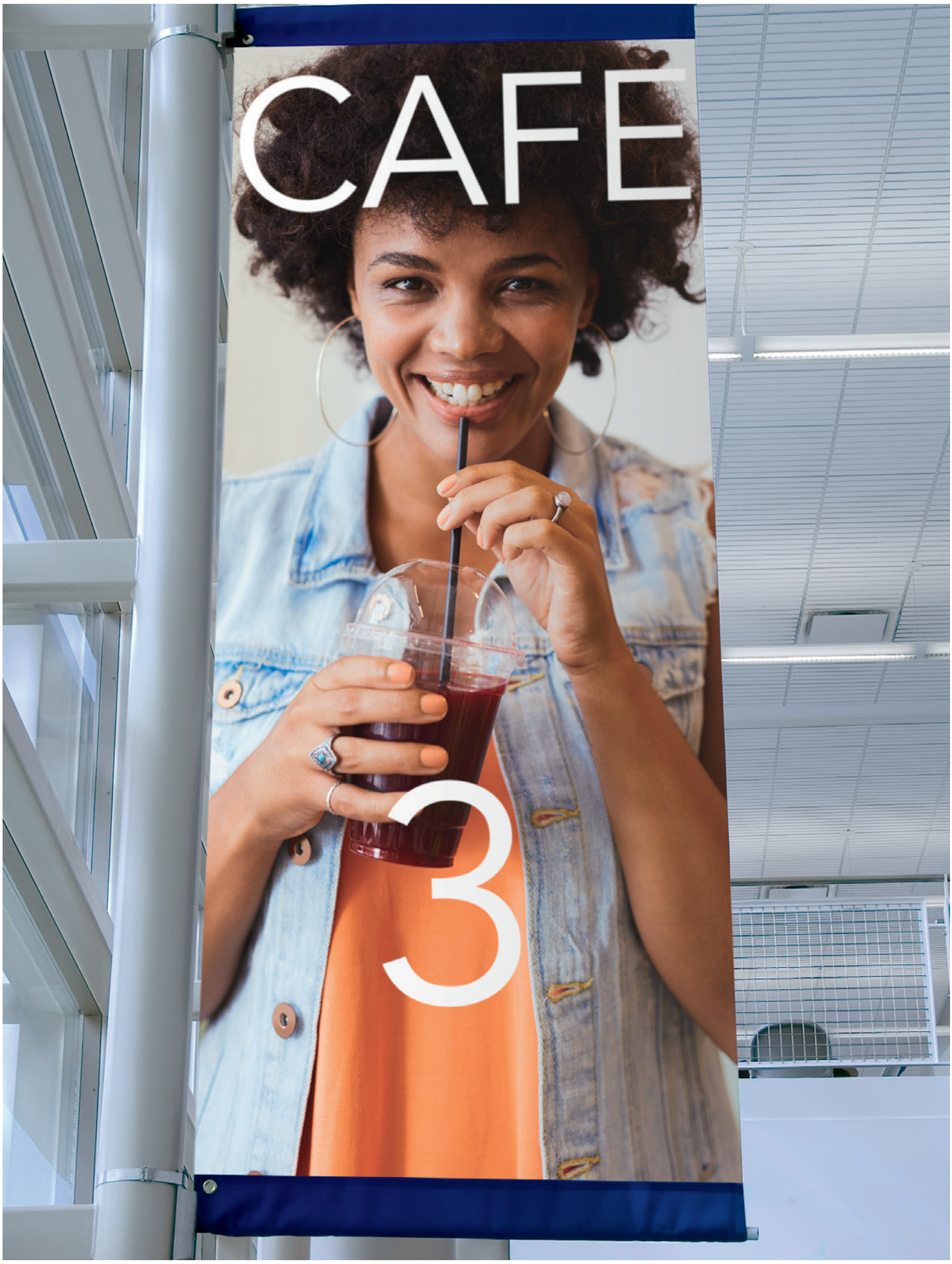
Seven-color printing

- Enables seven-color printing by adding three light colors
  - Light cyan, light magenta, and light black
- Based on existing printhead configuration, without adding more heads
- Benefits:
  - Expanded color gamut
  - Smooth gradient transitions
  - Vivid and crisp colors
  - Fine details
  - Smooth skin tones

Note: Seven-color printing is not supported on the EFI Pro 32r

Clear ink

- Provides a shiny gloss effect on selected areas
- Enhances the output, adding extra pop to the colors
- Offers a myriad of beautiful creative possibilities
- Uses the white ink channels, offering a choice between white or clear
- Printed on top of the color layer
- Spot or full flood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Media handling accesories

EFI roll-to-roll printers offer multiple media handling accessories to facilitate neat media feeding and collection, enable handling of media rolls at various weights, and support continuous, uninterrupted work.

Three-meter super duty unwinder

Fully integrated unwinder or rewinder option for the EFI VUTEk 3r+ and 5r+ printers.

- Enables working with heavy 118.11 in (3 m) media rolls up to 1,750 lbs (793 kg)
- Enables continuous, uninterrupted work without stopping to change rolls
- Increases productivity in high-volume runs due to less makeready
- Equipped with dancer and external motor
- Material width: 126 in (320 cm)
- Maximum media diameter: 27.5 in (70 cm)
- Standard 3 in core; optional 6 in core

Notes:

- Max weight refers to 126 in (3.2 m) full-width rolls only
- For information on narrower roll widths, please contact customer service

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Five-meter heavy roll loader

Integrated loader option for 196.85 in (5 m) printers for feeding large media rolls up to 1,654 lbs (750 kg).

- Maximum media diameter: 23.6 in (60 cm)
- Equipped with dancer and external motor

Media handling accesories

Motorized winder

Integrated winder and unwinder solution with motorized pneumatic inflatable core shafts for precise media collection.

- Improves media advance and print quality
- Allows for larger and heavier rolls
- Supports full printer width media as well as multi-roll:
  - 78.74 in (2 m) x 63 in (1.6 m) units for VUTEk 3r+ front/back
  - 118.11 in (3 m) x 63 in (1.6 m) units for VUTEk 5r+ front/back
- Applicable only for VUTEk 3r+ and 5r+ printers

Specifications:

- Basic unit–front/back: 63 in (1.6 m) width/ 3 in core
- Max media weight: 882 lbs (400 kg)
- Max media diameter: 19 in (50 cm)
- Additional airshaft cores-front/back:
  - 63 in (1.6 m) width/6 in core
  - 126 in (3.2 m) width/3 in core
  - 196.85 in (5 m) width/3 in core
- All flexible media types supported

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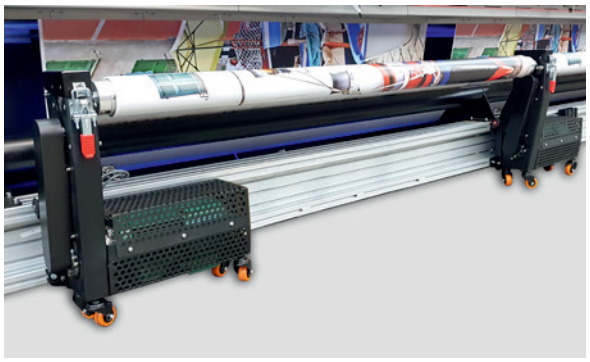

Media spreaders

A pair of clamp-like devices that stretch the media sideways to enable neat media inlet to the printer.

- Helps prevent potential media wrinkles
- Improves media advance
- Facilitates printing on various types of challenging media
- Easy to install at both ends of the press beam on the rear of the printer
- Position and tilt angle are adaptable to the media type and width
- Two units are included with the VUTEk 5r+

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Media collection kit

A set of accessories that facilitate neat media feeding/collecting, holding in place media rolls that are positioned directly on the rear or front printer rolls, preventing them from shifting sideways.

- Delivered with EFI roll-to-roll printers (excluding the EFI Pro 32r), the standard kit for single-roll media collecting includes:
  - One pair of back media limiters
  - One pair of front media limiters
  - One pair of media disks for attaching to both ends of 3 in core (can be used for both front and back)
- Additional multi-roll media collection kits (front) can be ordered separately (one for 118.11 in (3 m), two for 196.85 in (5m))

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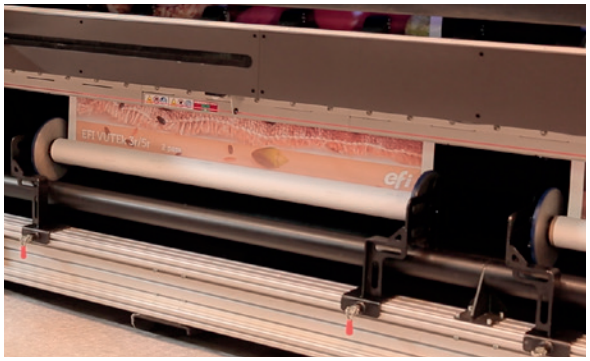

Vacuum plate

Turns an EFI roll-to-roll printer into a true flatbed printer capable of printing on thin sheets and rigid boards.

- Widens media and applications options
- Allows printing on challenging and exotic substrates, such as corrugated cardboard, Coroplast, styrene, and more
- Maximum media thickness of up to 0.43 in (11 mm)
- Available in a selection of sizes:
  - 4 ft x 8 ft (1.21 m x 2.43 m)
  - 5 ft x 10 ft (1.52 m x 3.05 m)
  - 6.5 ft x 9.8 ft (2 m x 3 m)
- Collapsible with small footprint for easy storage

Note: Vacuum plate is a factory installed option and not field upgradable.

General options

Wrinkle analyzer

Helps avoid head strikes caused by media wrinkles, preventing ruined jobs and enabling use of low-cost media.

- Media height detector identifies a media wrinkle before the printhead reaches it
- The front-end software prompts the user to raise the carriage just enough to avoid head strikes, which may ruin the job, and then, to resume printing
- Saves time and money
- Protects printheads from head strikes

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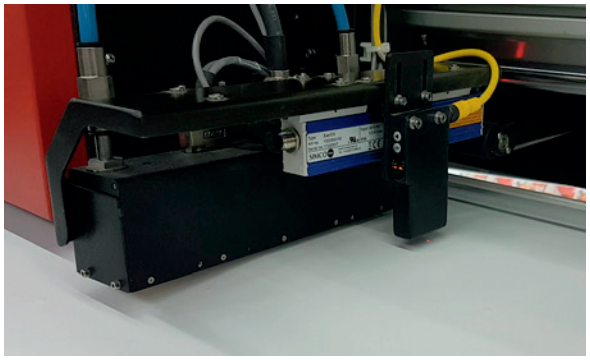

Mobile operator station

The mobile workstation can slide from its home position towards the middle of the printer.

- Saves the operator from moving back and forth between the station and the output
- Equipped with a touchscreen for quick and easy operation
- Increases productivity and usability

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Software options

Software productivity pack

A bundle of software productivity features for performance enhancements.

- Media saving wizard
- User login
- Quick machine setting per media type
- Multi-file on multi-roll
- File auto arrange
- Print resume
- Automatic left-right

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Media saving wizard

Changes the entire approach to media stock management. No more mistakes resulting from false roll length calculations. Each roll of media will be utilized to the end.

- The user enters into the software the length of the media each time a new or partially used roll is loaded
- Before the roll is removed from the printer, a label with the remaining media length is printed
- The software will alert the user before starting a job if the remaining media on the roll is insufficient for the job

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iPhone application

The EFI roll-to-roll IOS application enables print providers to keep track of their printer's production status even when they're away from the production site.

- Tracks production status via IOS devices, anywhere, anytime
- Displays the job queue for each job:
  - File preview
  - Size
  - Media
  - Printing mode
  - Estimated duration
- Current job status, including:
  - Print speed
  - Ink consumption
  - Estimated time to completion

Note: Only supports IOS devices (Android devices are currently not supported)

User login	• Each operator logs in with their own individual user ID • Operator ID is recorded in the job history database and job history log file • This data can be further used to analyze performance and machine usage • In combination with quick machine settings, each operator can save their preferred machine settings per media type
Quick machine setting	• Operators can define and group a number of different settings for each media type that are optimal for getting the best printing results on that media • For each media type, the operator uses the saved setting in order to ensure consistent and best quality printing results
Multi-file on multi-roll	• Enables simultaneous printing of different jobs on each roll in multi-roll printing
File auto arrange	• Allows uploading multiple files randomly to the queue • The software automatically arranges the files on the multi rolls in the most efficient manner to maximize media utilization
Print resume	• Following any type of interruption in the print process—either planned or unplanned—the operator can resume printing of the job from the point at which it stopped • It is also possible to specify a different starting point to reprint only a part of the job
Automatic L-R	• Enables automatic change of the left–right values when the user changes the carriage height, especially during printing

Option availability per printer model

Option	VUTEk 3r+/5r+	Quantum 3/5	Matan 3/5	Pro 32r
Wrinkle analyzer	☑	☑	√	☑
Y-slitter	√	√	√	√
White ink	√	√	√	√
Automatic blockout	√	√	√	√
Automatic backlit	√	√	√	√ semi-automated
Software productivity pack	☑	☑	√	√
iPhone app	√	√	√	√
X-cutter	√	√	√	
ID backprint	√	√	√	
Sheet collector	√	√	√	
7-color	√	√	√	
Media spreaders	☑ with 5r+	√	√	
Vacuum plate	√*	√	√	
Mobile operator station	☑	☑	√	
3m super duty winder and 5m heavy roll loader	√	√		
Motorized winder	√			
Clear ink	√			
Roll & tape	√			

√ Available ☑ Standard

EFI fuels success.

We develop breakthrough technologies for the manufacturing of signage, packaging, textiles, ceramic tiles, and personalized documents, with a wide range of printers, inks, digital front ends, and a comprehensive business and production workflow suite that transforms and streamlines the entire production process, increasing your competitiveness and boosting productivity. Visit www.efi.com or call 650-357-3500 for more information.

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