



Revolution 50 Roll-to-Roll

Highly efficient operation



*The Revolution 50 Roll-to-Roll
includes the Unwinder u50 and
the Rewinder r50*

- ✓ **Speed up to 250 mpm - 820 fpm**
- ✓ **Web width up to 584 mm - 23"**
- ✓ **Remote diagnostic capabilities**
- ✓ **Automatic tension control system**
- ✓ **Maximum printer productivity**

Empower your fastest web-fed digital color inkjet press with an efficient roll to roll system for high uptime. The Revolution 50 Roll-to-Roll solution reliably unwinds and rewinds rolls across the widest breadth of applications, keeping your inkjet press running.

Featuring adjustable controls, Revolution 50 Roll-to-Roll accommodates the wide range of tensions required for varying papers to be run by the newest high-speed color inkjet presses. Center-shaft driven, this solution rewinds rolls at speeds up to 820 feet per minute (250 m/min), and is ideal for commercial print applications. With proven reliability, operators can count on extended run times as well as minimal intervention.

Revolution 50 Roll-to-Roll features next generation controls for compatibility with the "Internet of Things" (IoT). The system includes natural-language error reporting on the user screen and onboard diagnostics to help keep the system up and running. IoT options are available for remote monitoring and diagnostics, automatic software updates and preventive maintenance aids.

This system is a member of TecnaU's Revolution 50™ series, a family of products featuring high-speed operation, IoT compatibility, and media flexibility as required in today's demanding digital print environments. TecnaU products increase productivity, cut labor and paper costs, and even make new applications possible – TecnaU solutions truly empower digital print to help you do more with less.



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The Revolution 50 Roll-to-Roll features the Unwinder u50 and Rewinder r50 each with an internal loop control to produce high quality, tightly wound rolls for problem-free feeding of inserters or other finishing equipment. The solution has an enhanced servo motor system control to optimize and reduce power consumption, decrease heat output and consume less energy.

The center-shaft driven Unwinder u50 features a new airshaft design for smooth high-speed feeding of a paper roll up to 23" wide and 52" in diameter. The Unwinder u50 features a highly

accurate web control to provide the stable, regulated paper flow required for the newest digital color inkjet presses. The internal loop control acts as a buffer between the press and the Unwinder u50.

The Rewinder r50 then rewinds up to a 52" roll of paper at speeds up to 820 feet per minute (250 m/min). Standard features of the Rewinder r50 include an interactive touch screen display and compatibility with multiple core sizes. Once printed forms are rewound, they can then be transported to another Unwinder u50 to feed an inserter or offline cutter. Optional roll carts make roll handling, loading and unloading easy.

Revolution 50 Roll-to-Roll systems include Internet of Things compatible controls, motors and drives to enable an array of next generation diagnostic and analytical tools. Options are available for remote monitoring and diagnostics, automatic software updates, preventive maintenance aids and database analysis.

All components are compact, and are designed to dramatically improve work-flow.

Optional Capabilities

Center Slitter

Slit web in center and rewind two rolls together. (for Rewinder r50 only)

Splice Table

For convenient transition from one roll to the next. (for Unwinder u50 only)

WebVision™

Capture large, high-resolution images of the entire web with no operator adjustments. WebVision verifies bar codes for readability, detects small image artifacts, and more. WebVision installs at the Rewinder r50 infeed to minimize footprint and your costs.



Roll Carts

Easily move, store and load paper rolls.



Technical Specifications

Performance / Media

Speed max.	820 ft/min	250 m/min
Rewinding at speeds above 690 fpm (210 mpm) requires 6"/150 mm core shaft on the rewinder		
Paper weight	27# text - 130# cover, 40 - 350 gsm	
Roll diameter	4" - 52"	100 - 1320 mm
Roll weight max		
Standard roll shafts	1784 lbs.	800 kg
Heavyweight roll shafts	1984 lbs.	900 kg
Core size	3", 5", 6"	70, 150, 200 mm
Web width	8" - 22.5" Up to 23" upon request	200 - 570 mm Up to 584mm upon request

Electrical

Power	200-240 VAC, 1phase, 50/60 Hz, 16A
Air	Internal compressor or direct connection to the in house air system

Configuration Example

