

**SCREEN**

**POD**

Creating a Future in Print

*Truepress Jet*  
**L350uv**

*JetConverter*  
**L350**

UV Inkjet Label Printing System

**The total solution for label printing!**



**EQUIOS**  
**ART & UX**

# The total label printing solution has arrived

## The three system answer to your printing needs

Digital production is now an everyday reality in the label printing industry. With its introduction, printing companies are naturally looking to further reduce the cost of handling diverse, small lot jobs. But beyond this, they are also seeking improved functionality and ideas that will help them unlock new business opportunities.

At SCREEN, we are constantly working to resolve the many challenges facing our customers. To create practical, optimized solutions that reflect real needs, we have focused on combining technologies in three areas: digital printing, post-production lines and integrative workflows. This complete label printing package is here for you now.



Totally optimized workflow from data input to post-processing and final submission

**EQUIOS**



**An industry-leading solution that combines outstanding print quality and handling for short run, small lot jobs**

*Truepress Jet*  
**L350UV**

Point

**1**

Top level productivity

Point

**2**

Low odor UV inks with minimal buildup

Point

**3**

Smooth output of gradations

Point

**4**

Easy operation and maintenance

Point

**5**

Easy on the environment

## Cost simulation

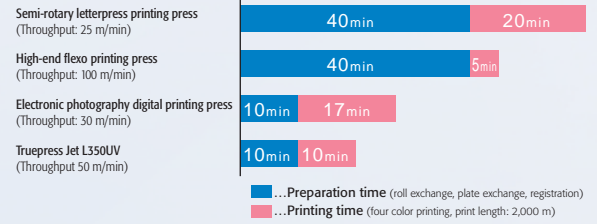
Digital printing significantly reduces production times by eliminating conventional steps such as plate setup and the registration and color adjustment usually required at the start of output. This dynamic format helps to create a streamlined workflow from data submission right through to output.

The Truepress Jet L350UV delivers high-speed processing of up to 50 meters (164 feet) every minute, along with consistently high color quality. Compared to both conventional and other digital presses, this represents a major reduction in printing time for small as well as medium size jobs.

As digital presses do not require plates, they also have a clear advantage over conventional systems in terms of production costs. Again, this advantage is particularly evident for small to medium size jobs.

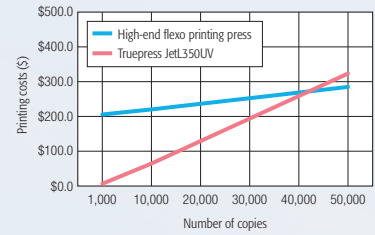
SCREEN's proprietary Truepress inks reduce fluid usage to a minimum to achieve top quality finishing. Costs associated with increasing sheet counts are likewise minimized, greatly improving break even points. These inks also provide greater flexibility for handling variable sheet counts.

## Comparison of printing times



## Comparison of printing costs

Conditions: four color printing of 85 x 200 mm seals, estimated platemaking cost of \$204 for flexo printing



**The main units for label processing are integrated into a single system**  
**Shorter turnaround times significantly improve customer satisfaction**

# JetConverter L350

Full range of processing functions

Coating

Laminating

Cold foiling

Die-cutting

Slitting





Richly detailed, high-grade printing and advanced functionality capture the vibrancy and energy of everyday scenes



## High image quality boosts product appeal

Truepress Jet  
**L350UV**

The Truepress Jet L350UV features proprietary SCREEN printheads with four step droplet technology. The outstanding expression of color gradations enabled by the system's high-resolution screening, coupled with the wider color gamut of our proprietary UV inks, create an impressive depth of natural beauty.

## Post-processing adds value to labels

JetConverter  
**L350**

Gold stamping using gold foil and die-cutting as well as surface processing such as varnishing and film laminating can all be applied with the JetConverter L350. Linking to this system allows the production of high value added labels with rapid turnaround.



\* Food and beverage applications subject to an effective migration barrier.





### Improved handling opens up new opportunities

The Truepress Jet L350UV is able to accommodate a repeat length of 2,400 mm and media width of 350 mm. This provides an unprecedented level of space usage and delivers the high degree of design freedom and visibility required in the display sign field. This functionality expands the printing market and opens up new business opportunities.

Media width	100 to 350 mm (3.9" to 13.7")
Printing width	Up to 322 mm (12.6")
Repeat length	50.8 to 2,400 mm (2" to 94.4")
Roll diameter	Up to 750 mm (29.5")
Media thickness	0.09 to 0.35 mm (3.6 to 13.7 mil)
Inks	CMYK, white
Media types	Tacking paper, PP, PET, BoPP



### White ink

White ink enables CMYK printing on transparent film. Weather-resistant and eye-catching in a variety of situations, this type of printing represents an attractive new option to present to customers.





# Cutting-edge functionality delivers unprecedented accuracy that marks the start of a new era in digital print quality

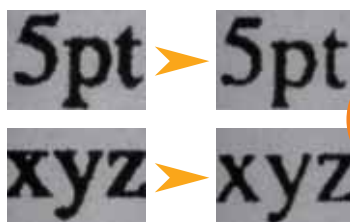


## Sharp and reliable printing of even fine characters

The Truepress Jet L350UV is able to clearly print text as small as four points. The choke function also prevents thickening of outline text, providing excellent legibility even for the large amounts of information usually found on pharmaceutical and supplement labels. These features enable one pass processing of individual lot numbers and other variable printing jobs.



Print result using outline font (5 pt)



Choke width:  
0.02 mm

Variable printing of serial numbers



Ritu Manoj Jethani / Shutterstock.com

## Exceptional registration accuracy and micro-droplets support security printing

A remarkably stable transport mechanism tightly controls paper feeding to prevent meandering and maintain optimal transfer conditions. In combination with the Truepress Jet L350UV's highly efficient printheads and proprietary inks, this ensures consistently high registration accuracy and small droplet size. This precision is essential for the output of detailed dot codes such as QR and barcodes, as well as any other security printing requiring a high level of accuracy.

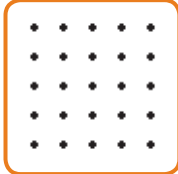


### Visible type

These security marks are usually attached to high-grade or imported products. The marks can be read with a smartphone and compared with registered information stored on a server, providing a check of the items' authenticity. Precise printing is of course required to enable correct reading of marks. The Truepress Jet L350UV is certified to use Seal Vector® from Advanced Track & Trace®.

### Invisible type

These dot codes usually can not be seen when just glancing at an item. A specialized pen or smartphone (with adaptor) is used to read the unique codes for comparison with registered information. The system is effective for identifying various types of counterfeit goods. If a pen that can read audio data is used, this technology also enables the "play back" of pronunciation lessons from teaching materials. It also has various other applications including, for example, audio guides for tourists.



Screen code







# An industry-leading solution that combines outstanding print quality and handling for short run, small lot jobs

Point  
**1**  
Top level productivity

## World-class high-speed printing

SCREEN's proprietary grayscale printheads deliver around 80 million droplets per second, allowing high-speed printing of up to 50 meters (164 feet)\* every minute. The throughput for 350 millimeter wide paper makes the Truepress Jet L350UV one of the world's leading systems for inkjet printing of labels.

\* For a resolution of 600 x 600 dpi



These three devices combine to ensure the media is kept perfectly straight during printing – even at the industry-leading speed of 50 meters (164 feet) per minute.

Point  
**2**  
Low odor UV inks with minimal buildup

## Wider color gamut without characteristic UV issues

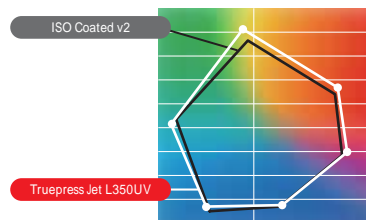
### Low odor

UV inks have a characteristic odor due to the materials used in their production. Truepress inks use specially selected materials that effectively reduce this odor.

### Wider color gamut

Truepress inks are produced using a proprietary formula, enabling the reproduction of a wider color gamut using the CMYK color space.

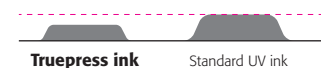
#### Comparison of color gamuts



### Minimal buildup

With its combination of small droplet heads and reduced ink thickness enabled by the use of proprietary inks, the Truepress Jet L 350UV delivers a more natural appearance with minimal quality variation. It also decreases ink buildup, an issue with conventional UV inkjet systems, to achieve a smoother finish.

#### Comparison of ink thickness (image)



Point  
**3**  
Smooth output of gradations

## Smooth and natural gradations from highlights to shadows

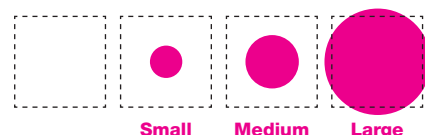
The adoption of grayscale printheads allows droplets to be printed in four steps. This provides much smoother reproduction of halftone images, enabling smooth color reproduction from highlights to shadows with minimal graininess.

### Industry-leading 3 picoliter droplet size and more natural finishing for highlights

The Truepress Jet L350UV features ultra-fine three picoliter grayscale printheads and a resolution of 600 dpi. It also incorporates SCREEN's color management and screening technology. This functionality enables natural expression of gradations.

### Smoother gradations using four step droplet size

The Truepress Jet L350UV also features a proprietary four step droplet size. Color blending allows even subtle tones to be expressed beautifully, enabling the output of photo-level quality whenever required.



One pixel includes four droplet sizes



## Point 4

Easy operation and maintenance

### Straightforward operation and maintenance

With the Truepress Jet L350UV, all output-related processing can be performed from the front touch panel. This ensures any operator can easily achieve excellent print quality. Daily cleaning of printheads can also be performed at the touch of a single button. This and other simple maintenance procedures ensure the system is always in top condition, significantly increasing operational efficiency.

#### Easy operation

The controller is easy to operate, thanks to its touch panel. The intuitive interface allows all operations to be performed entirely from the touch panel.

#### One-touch automatic cleaning

To clean the printheads, the operator simply issues a command from the touch panel's maintenance screen during startup or shutdown. Ink mist and other substances causing nozzle clogging are cleaned automatically, preventing problems before they occur.

- Daily maintenance can be performed from the touch panel.
- Periodic purging of ink helps to prevent clogging of the printheads.
- Specialized wipers remove ink at the touch of a button without any damage to the printheads.
- Regular performance of automatic cleaning helps to extend the life of the printheads and preserve print quality for a longer period.

## Point 5

Easy on the environment

### More environment and user-friendly design

Unlike earlier label printing systems, the Truepress Jet L350UV does not require the creation of plates and it also markedly reduces the generation of waste sheets. This system likewise dispenses with the requirement for skilled operators to perform preprocessing, allowing virtually anyone to operate the equipment.

In addition, Truepress inks comply with the EU's REACH regulation and RoHS directive, and do not include any substances prohibited under the 8th Revised Edition of the Exclusion List for Printing Inks and Related Products, published by the European Printing Ink Association (EuPIA). The Truepress Jet L350UV truly supports the creation of a printing workflow that is friendly to both the people who use it and the environment.



## Options

#### Splice detection sensor

The splices in joined media (splice media) are detected with dedicated sensors. Following detection, the printheads move up and down while the processing speed is maintained. This makes it possible to continue output without stopping the equipment.



#### Web cleaner

With its combination of a cleaning roller and adhesion roller, the web cleaner effectively removes dust including paper particles and powder. This device ensures low maintenance and stable, uninterrupted operation.



#### Mark sensors

The mark sensors read light sensitive marks that have been printed in advance, allowing them to be used as references for performing high-precision overprinting.



#### Corona unit

Performing corona discharge onto the media before printing improves the surface and increases ink adhesion.



# EQUIOS increases the efficiency and reliability of the label/package printing workflow from data creation right through to post-processing

## Universal Workflow

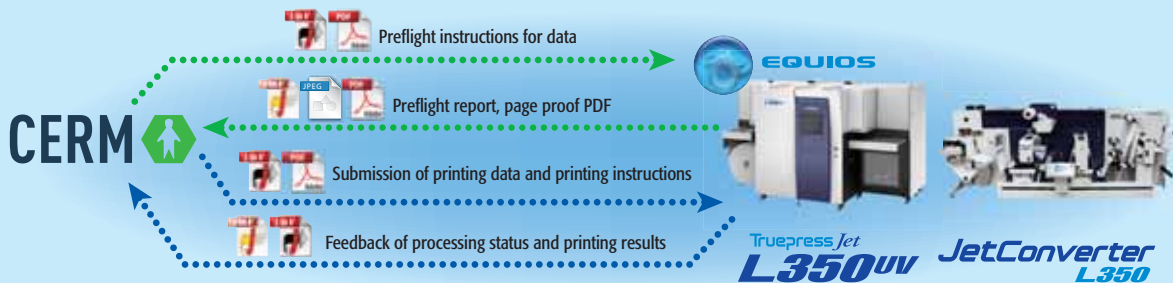
# EQUIOS

EQUIOS, the universal workflow system, is bundled with the Truepress Jet L350UV as a standard package. EQUIOS provides a wealth of professional features based on SCREEN's extensive experience, including high-speed processing using the latest RIP core, proprietary color management that faithfully reproduces target colors specifically for label media, and easy-to-use imposition functions incorporating SCREEN's prepress knowledge. These features ensure straightforward operation regardless of the operator's own personal experience and skills.



### Optional linking with MIS

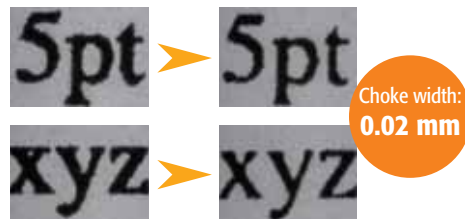
EQUIOS is able to link with a management information system (MIS) using the JDF (option). It is possible to execute processing automatically based on the JDF, with the results fed back to the MIS. This allows more precise progress management and cost control, as well as process planning.



## Text choke

In label printing, the use of outline fonts is common. However, when fonts are converted to outline text, the characters can increase in thickness by up to one pixel. EQUIOS is equipped with a function that effectively corrects for any increase in thickness. Using the function, it is possible to output text and then check and set a desired choke volume. This enables the selection of the optimal character thickness for individual applications.

### Print result using outline font (5 pt)

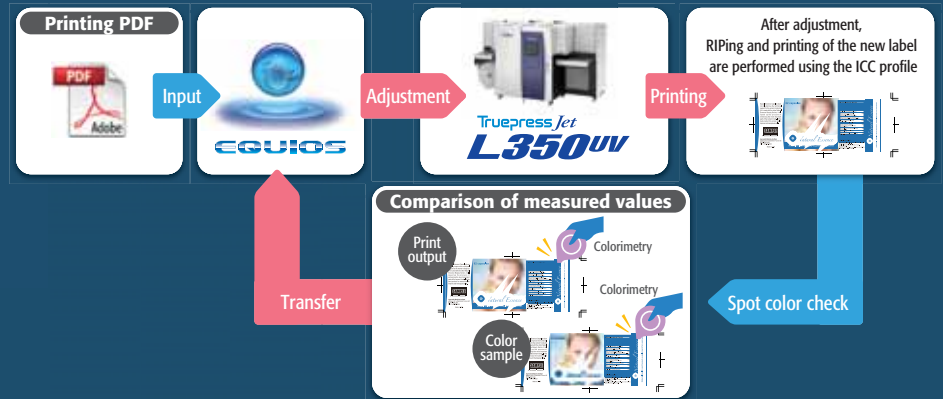




## Color matching with existing samples

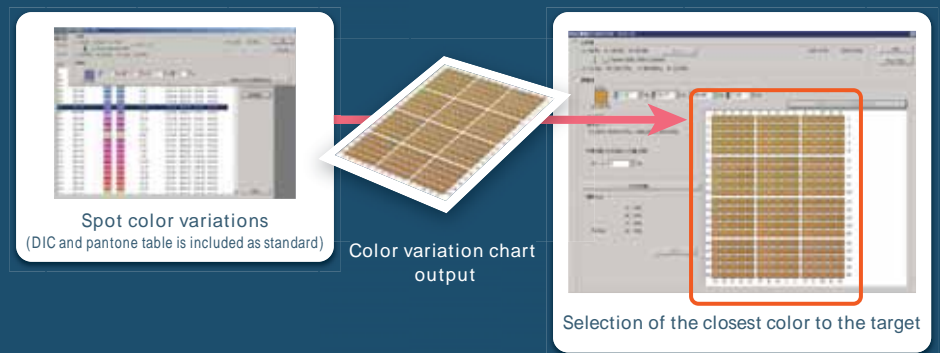
With label printing, an existing item may be supplied as a sample, and the printing company is required to match the colors. Even in a situation like this, EQUIOS is able to smoothly match the colors of new print output with existing items.

EQUIOS first picks up the standard colors in the previously created label and uses them as references to perform colorimetry. It then records the differences between the reference and actual values for the existing label in an ICC profile and finally performs color adjustment.



## Spot color adjustment tool

This function allows spot colors to be selected from a list and automatically generates a color variation chart of the selected color. Once the chart has been checked, the color closest to the target can be selected and reflected in the data. This enables simplified matching of spot colors.



## Full-color variable data processing (option) NEW

EQUIOS includes a variable data processing function that enables high-speed RIP processing of variable elements in black separations for numbering and serial barcodes as a standard feature. A dedicated function for high-speed RIP processing of full color variable data is also available as an option.





The integration of main seal and label processing units into a single system speeds up job turnaround and increases customer satisfaction

The JetConverter L350 is a compact postpress system that integrates the main devices used for seal and label finishing into a single unit. The system offers a variety of features that facilitate digital printing processes, including minimal setup time, minimal waste discharge and the use of low cost tools. When combined with the Truepress Jet L350UV, these two systems make it possible to provide one-stop conversion from print through to finishing.

### 1 800 mm unwind

**Cantilevered unwind module capable of handling a maximum substrate diameter of 800 mm**

- ▶ Automatic tension control and control of slow or stop settings for trailing edge of roll
- ▶ Air expanding unwind shaft with compact 76 mm design

### 2 Electric web guide with splicing table

- ▶ Web guide, adjustable splice table, interlocked web clamps and tape dispenser for maintaining stable media connection and transport

### 3 Semi rotary flexographic printing unit

**Servo-driven, semi rotary flexographic printing station with a coating width of 325 mm suitable for full varnish and spot varnish**

- ▶ Large ink pan with Teflon coating for easy cleaning
- ▶ Tough ceramic anilox roller
- ▶ Low energy, air cooled UV curing station (140 W/cm)

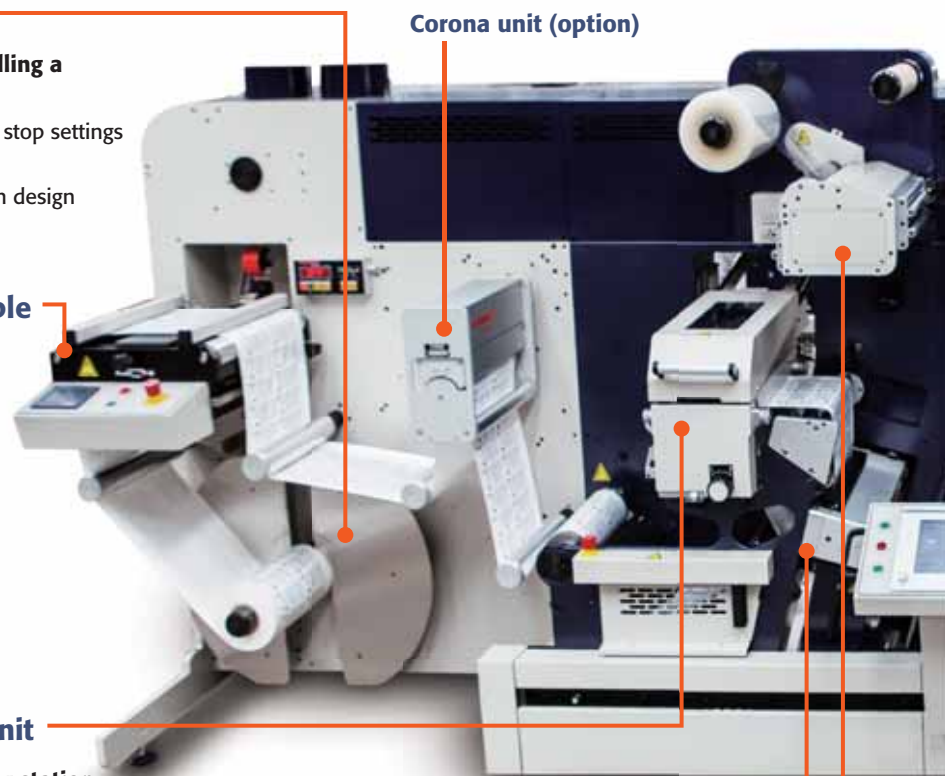
### 4 Overlaminating unit

**Lamination suitable for cold foiling and super-varnishing**

- ▶ Quick release nip roller assembly

### 5 Touch screen HMI

- ▶ Touch screen control functions
- ▶ Sliding console



Corona unit (option)

UV curing system



## 6 Semi rotary die unit

- ▶ Semi rotary die-cutting station complete with a 648 cm (25.5 inch) magnetic cylinder as standard, enabling the adoption of a structure that simplifies registration, ejection of die-cuttings and vertical operations
- ▶ Auto throw off of rotary die (option)
- ▶ Servo-driven pressure increase and reregistration of rotary die

## 7 Back scorer

- ▶ Back scorer equipped with two knives
- ▶ Automatic presetting of knife positions (option)

## 8 Contact waste matrix stripping

(maximum outer diameter of 800 mm)

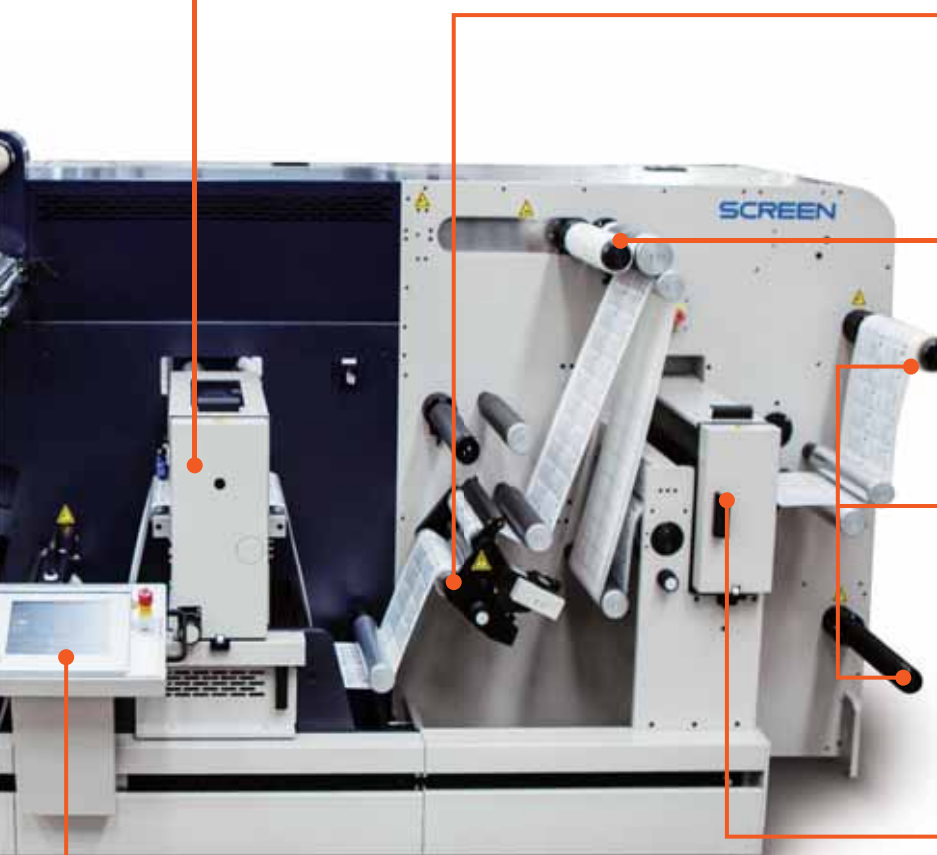
- ▶ One contact waste matrix stripping module
- ▶ Independent motor drive for tension control
- ▶ Foot pedal attachment for easy removal operation
- ▶ Automatic detection for cutting during winding (option)

## 10 Twin spindle rewind

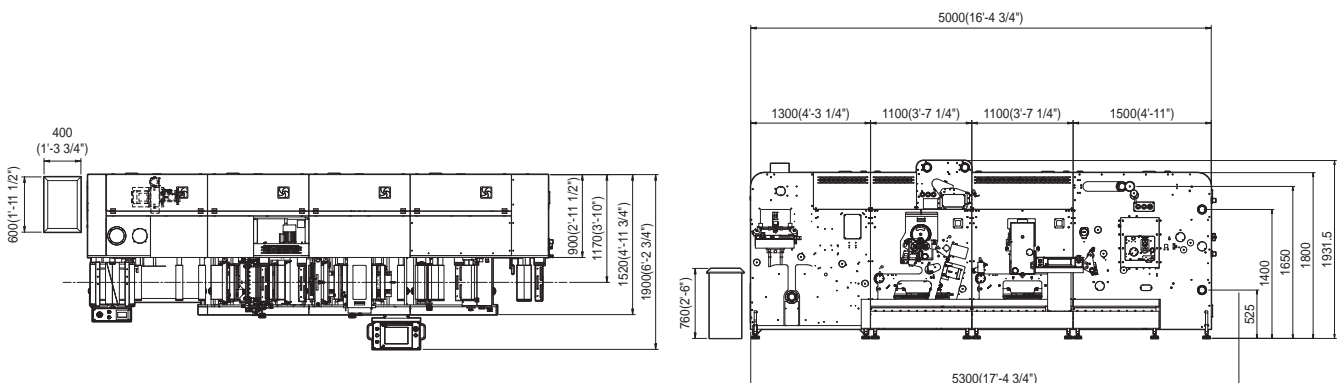
- ▶ Twin spindle (upper and lower position) product rewinder complete with 76 mm air shaft and suitable for winding labels in/out with variable tension control
- ▶ Maximum OD of 600 mm for upper and 800 mm for lower
- ▶ Label count sensor with batch and pause facility

## 9 Scissor slitting

- ▶ Scissor slitting module equipped with lift-out knife shafts
- ▶ Automatic presetting of knife positions (option)



## Space requirements



Full after-sales service network ensures more reliable system operation, helping to build a stronger production base and greater peace of mind for customers

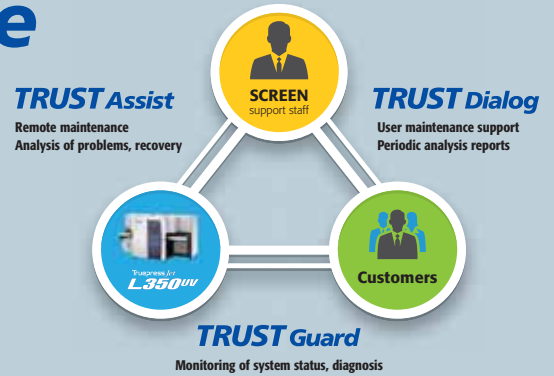
Real-time maintenance minimizes down time

# TRUST Network Service

On-demand printing requires an ability to handle jobs with extremely short turnarounds. If equipment is vulnerable to unexpected problems, these deadlines become difficult to meet and more importantly, a company's reputation can be badly damaged, with both sales and client confidence suffering.

TRUST Network Service is a proprietary support program provided by SCREEN to address these very real concerns. This program offers a full menu of services including predictive diagnosis based on monitoring of normal equipment conditions, as well as regular analytical and maintenance reports. If trouble does occur, it is also able to precisely identify the area of malfunction.

In essence, TRUST Network Service is designed to minimize downtime and help build a stable base for effective production.



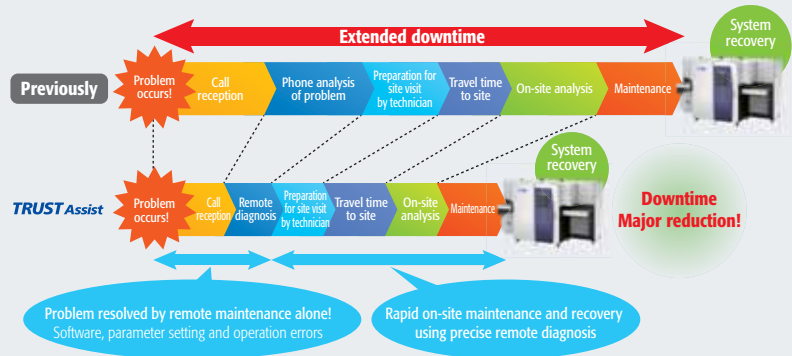
Precise identification of errors minimizes downtime

## TRUST Assist

TRUST Assist is a remote service used to perform protective maintenance and if necessary, recovery of a system. If there is a problem, the SCREEN Group's specialized personnel perform a highly detailed and precise analysis of the equipment status using the error logs, allowing them to quickly classify the malfunction.

Problems with equipment software, parameter settings and operations can usually be effectively resolved simply through remote maintenance. Even when hardware malfunctions occur, SCREEN technicians can gain an accurate understanding of the equipment status using remote diagnosis, enabling them to make appropriate preparations before visiting the site.

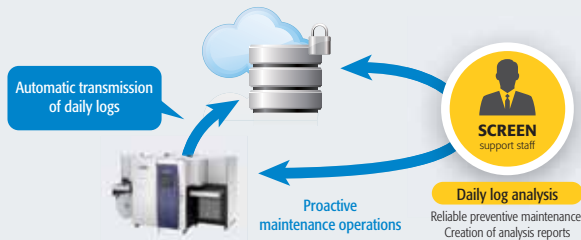
This advance knowledge helps them to quickly and reliably perform repair work and thereby reduce downtime to an absolute minimum.



Predictive diagnosis helps to identify potential problems

## TRUST Guard

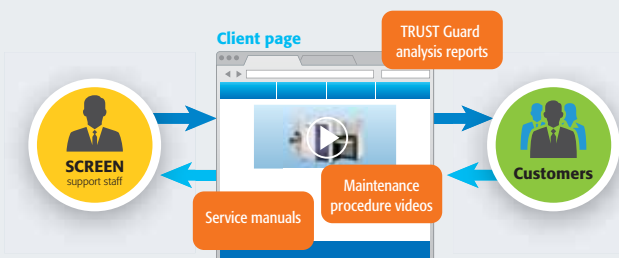
TRUST Guard is a service that allows SCREEN's specialized personnel to precisely understand the current condition of a system using log information and based on this, to reliably diagnose any potential problems. It also enables them to identify the optimal replacement timings for periodic maintenance parts and to create analytical reports that can be used for production and cost management.



Customers are updated with the latest maintenance information

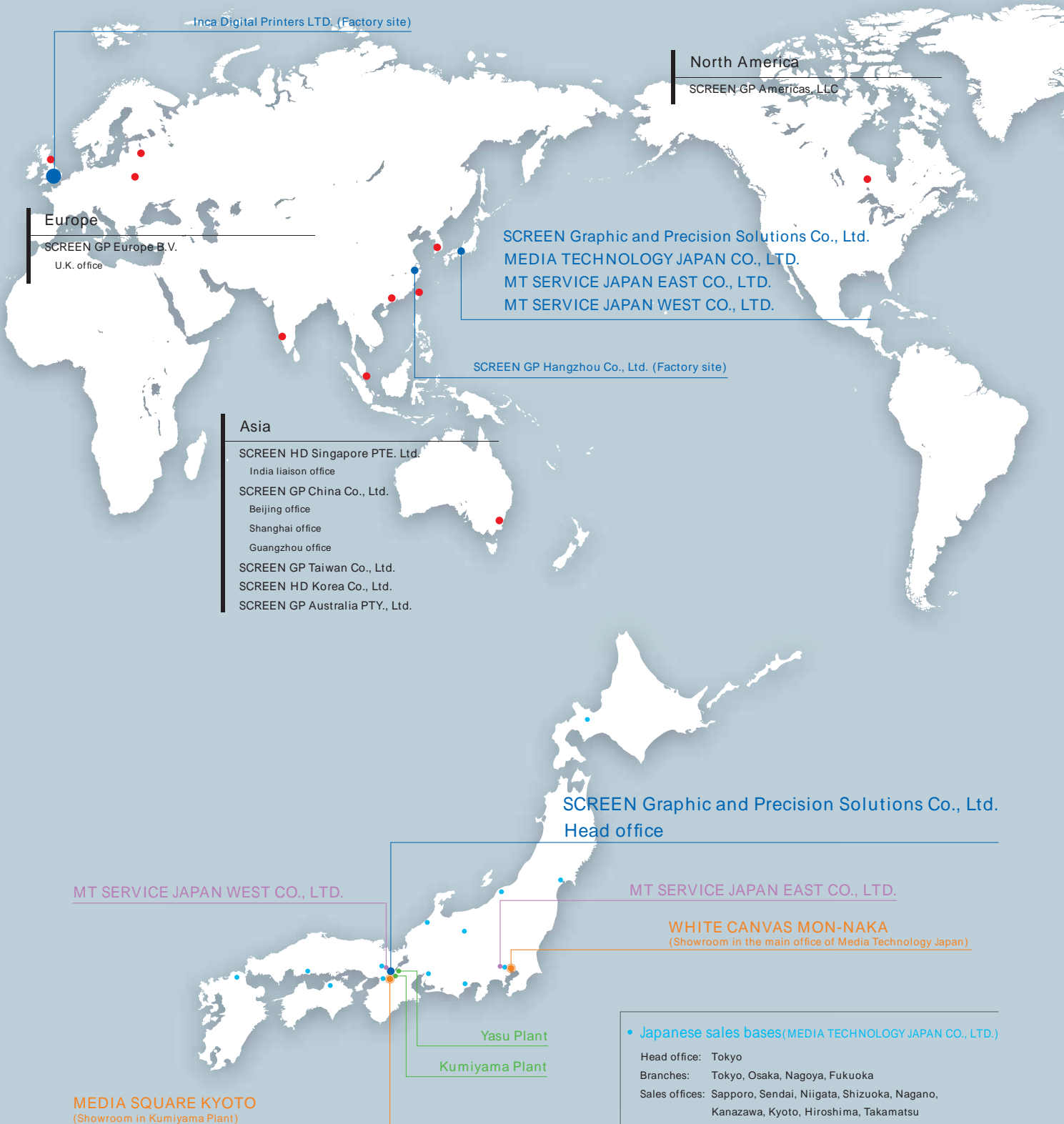
## TRUST Dialog

TRUST Dialog is a cloud-based service that provides individual clients with their own "page". Along with service manuals and videos introducing topics such as maintenance procedures, this is where clients can receive reports analyzing the operational efficiency of their systems and the latest maintenance data.

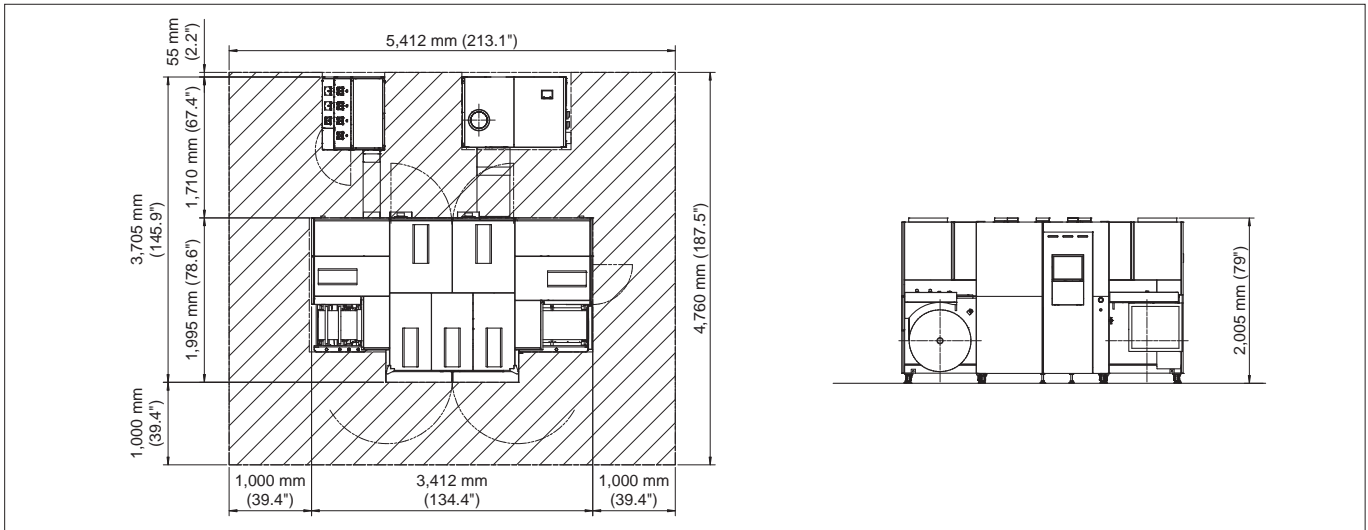




# SCREEN bases



## Installation location



## Truepress Jet L350UV specifications

Printing system	Piezo single-pass printing, four tones per drop
Resolution	600 x 600 dpi
Printing speed	16.1 m <sup>2</sup> (173.3 ft <sup>2</sup> )/min at 50 m (164 ft)/min
Printing size	Width: Maximum 322 mm (12.6") Repeat length: 50.8 mm to 2,400 mm (2" to 94.4")
Media size	Width: 100 mm to 350 mm (4" to 13.7") Roll diameter: Maximum 750 mm (29.5") Weight: Maximum 120 kg (264 lb)
Media thickness	0.09 mm to 0.35 mm (3.6 to 13.7 mil)
Inks	Truepress inks for L350 CMYK+White or CMYK Ink tank capacity: 8 liters per color Ink bottle capacity: 4 liters per color
Heads	4 step grayscale printheads
Controller (bundled)	Controller for L350
RIP (bundled)	EQUIOS for L350
Options	Web cleaner, mark sensors, corona unit, full color variable data processing, MIS connection (CERM), splice detection sensor
Dimensions (W x D x H) / Weight	Printer: 3,415 x 2,065 x 2,000 mm (134.5" x 81.3" x 78.8") / 3,350 kg (7,370 lb) Main tank: 760 x 896 x 1,120 mm (30" x 35.3" x 44.1") / 230 kg (506 lb) Power supply box: 1,327 x 909 x 1,625 mm (52.3" x 35.8" x 64") / 580 kg (1,276 lb)
Power requirements	Three phase 200/208/220 V, 3 W, 50/60 Hz, 55 A Three phase 380/400/415 V, 4 W, 50/60 Hz, 45 A Earth leakage circuit breaker (200 mA sensed current) must be installed.
Operating environment	Required temperature and relative humidity: 15 to 25°C (59 to 77°F) / 40 to 70°C (no condensation) Warranted temperature and relative humidity: 18 to 24°C (64.4 to 75.2°F) / 40 to 70°C (no condensation)
Incidental utilities	Air-pressure utilities such as compressor Connection to exhaust duct

## JetConverter L350 specifications

Basic specifications	Media width	200 to 350 mm
	Running speed	Up to 64 m (209.9 ft)/min (may vary depending on media and repeat length)
Unwind	Roll diameter	Up to 800 mm (31.4")
	Shaft diameter	76 mm (2.9")
	Roll weight	Up to 210 kg (462 lb)
Semi rotary flexographic printing unit	System	Semi rotary flexographic system
	Repeat length	50 to 647 mm (2" to 25.4")
Overlaminating unit	Coating roller width	325 mm (12.7")
	Roll diameter	Up to 450 mm (17.7")
Semi rotary die unit	Shaft diameter	76 mm (2.9")
	System	Semi rotary
	Die	Flexible rotary die
	Repeat length	Up to 622 mm (24.4")
Contact waste matrix stripping	Rewind diameter	Up to 800 mm (31.4")
Twin spindle rewind	Roll diameter (upper)	Up to 600 mm (23.6")
	Roll diameter (lower)	Up to 800 mm (31.4")
	Shaft diameter	76 mm (2.9")
Scissor slitting		Available
Power requirements		Three phase 380/415 V, 40 A
Air requirements		6 BAR / 300 LPM

**TRUST Network Service**

The Truepress Jet L350UV is covered by the Network support program.



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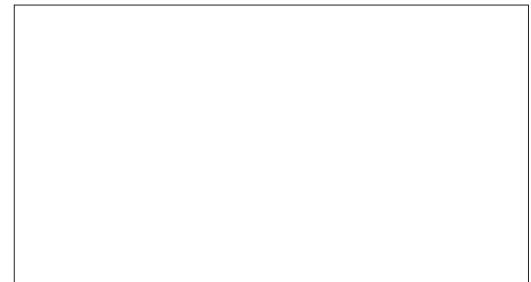
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