



**SITEXCOLABEL**



# LASER CLEANING TECHNOLOGY

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# IMPACT OF INEFFECTIVE ANILOX CLEANING

- ✓ Inconsistent print quality
- ✓ If anilox cannot carry specified ink volume :
  - ✓ Desired ink film thickness gets affected
  - ✓ Colour matching
  - ✓ Changes in ink recipe
  - ✓ Ink densities
  - ✓ Print quality
  - ✓ Even run press at lower speeds
- ✓ Excessive waste
- ✓ Each press stoppage due to uncleaned anilox :
  - ✓ Increased Press downtime
  - ✓ More substrate, ink & solvent wastage
  - ✓ More Operator's time wastage

# LASER CLEANING PROS

- ✓ No water or chemicals are needed.
- ✓ The original cell volume is mostly restored.
- ✓ It is the only cleaning technology that performs a deep cleaning. In any geometry and in any line screen.
- ✓ The ink recipe will be uniform, saving time and pigment.
- ✓ The roller can be used immediately after cleaning.
- ✓ Low maintenance.
- ✓ Location flexibility  
(no need of water supply, drain, safety equipment, consumables storage...)
- ✓ No bearing or gear removal.
- ✓ It does not harm the health of the operator.
- ✓ it is a waste-free and sustainable cleaning method. Remove costs of waste disposal
- ✓ Eco friendly, laser cleaning is the most environment friendly cleaning method.



# OTHER TECHNOLOGIES PROS AND CONS

## Other technologies Pros:

- ✓ Lower investment.
- ✓ Easy to use.
- ✓ Useful for companies with limited anilox inventory.
- ✓ Good as supplementary cleaning.
- ✓ They have a lower purchase price.

## Other technologies Cons:

- ✓ High and continuous expenses on water and consumables.
- ✓ Generate waste (even some toxic waste)
- ✓ Requires high maintenance.
- ✓ Not reliable for all inks or line screen anilox.
- ✓ Time consuming for a por- cleaning result.
- ✓ They are harmful to people and the planet.
- ✓ They damage the anilox ceramic (cavitation, transport, wear,...)



# NARROW WEB

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# NARROW WEB PRINTING

## What is Narrow Web Flexo Printing?

- ✓ **Narrow web** flexo printing focuses on a **small print runs**.
- ✓ Is **more useful** to companies that want labels and other items printed in **small volumes**.
- ✓ For **small and mid-sized** manufacturers, deciding the right printing options **for their products** can be a challenge.

# NARROW WEB PRINTING

## Uses and characteristics of narrow web flexographic printing

- ✓ Narrow web printing **is used** for a lot of different **packaging solutions**, such as flexible packaging, PS and wrap-around labels and sleeves, poly bags, light carton boxes ...
- ✓ **Narrow web characteristics:** Printing width **ranging between 16" and 10"** wide.
- ✓ Narrow-web flexo has been defined as **any web width less than 20"** (508mm). However, the vast majority of narrow-web presses are 16" (406mm) or less, and most are 10" (254mm) or smaller.

# SITEXCO SOLUTIONS FOR NARROW WEB



	SNP 1.0	L 10
Maximum cleaning length	850mm / 33,46"	500 mm / 19,68"
Maximum roller diameter	135mm / 5,31"	120mm / 4,72"
Minimum roller diameter	45mm / 1.77"	35mm / 1,38"
Total weight of rollers	80Kg / 176.5lb	20Kg / 44lb

# SITEXCO PLUS SNP1.0 vs SITEXCO LABEL L10

## **PLUS Range:**

Premium technology and fully equipped.  
Focused on the narrow and mid-web market.

## **LABEL Range:**

The best basic option. LOGICAL COST concept: resigns all the accessories and features that do not concern the cleaning result.  
It is a range focused on the narrow-web market.  
All the advantages of laser cleaning at the price of traditional technology.

SITEXCO **PLUS**: EXCEEDS EXPECTATIONS.

SITEXCO **LABEL**: MEETS NEEDS.



# SITEXCO LABEL L10

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L10

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L10

## TECHNICAL SPECIFICATIONS

- ✓ Maximum length of the roller:
  - Maximum cleaning length 500 mm /19,68 ”
  - Maximum roller length (shafts) 800 mm/31,49”
- ✓ Maximum diameter of the roller 120mm /4,72 ”
- ✓ Minimum diameter of the roller 35mm /1,38 ”
- ✓ Total weight of the roller 20Kg / 44lb
- ✓ Electrical power 1.5 KW
- ✓ Electrical supply 120/230V (Single or Dual phase) 50/60Hz

# DATA SHEET

## OVERALL DIMENSIONS

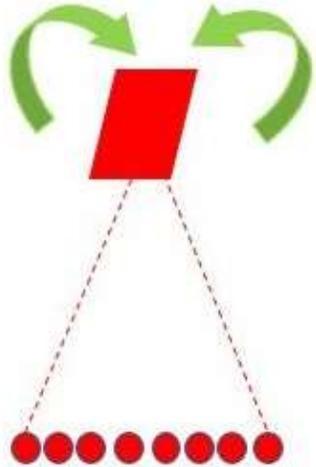
- ✓ Length 885 mm / 34,85"
- ✓ Height 750 mm / 29,53"
- ✓ Width 475 mm / 18,70"
- ✓ Weight 100 Kg.



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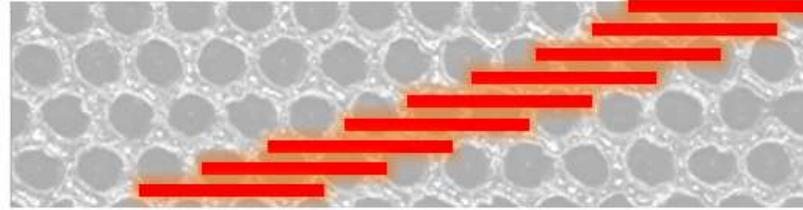
# LASER TECHNOLOGY = SITEXCO PLUS TECHNOLOGY

## GALVO LASER BEAM



Displacing laser shooting  
Laser on/off synchronized with  
galvo system

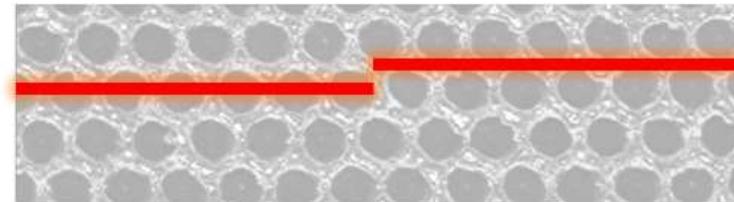
## Competitors



### High surface impact

- Lots of passes. Cleaning by superposition.

## Sitexco



### Low surface impact

- Just one pass. Cleaning applying the required energy density.

Like the Sitexco PLUS range, the L10 incorporates **cell by cell** selective cleaning technology, that prevents overlapping.

Cleaning results are **excellent, safe and fast**. PLUS Technology's selective cleaning programs ensure excellent cleaning quality on any surface and with most of inks and coatings.

# SITEXCO PLUS vs SITEXCO LABEL

## Common features:

- ✓ Optimum cleaning quality.
- ✓ Maximum safety.
- ✓ No need for water or chemicals.
- ✓ No waste (Ecofriendly).
- ✓ Intuitive and easy operation.
- ✓ No need to remove any part of the roller before cleaning.
- ✓ Maximum cell volume recovery.
- ✓ Full control of the laser, that enables cell by cell cleaning in a controlled manner.
- ✓ Components from leading manufacturers.
- ✓ Minimal Maintenance.
- ✓ Insignificant noise and/or olfactive pollution.
- ✓ Roller can be used immediately after cleaning.
- ✓ Saves time in formulation and pigment, as the ink recipe is always the same.
- ✓ Control of the cleaning and waste costs.
- ✓ High capacity filter (dimensioned to the model).

# SITEXCO PLUS vs SITEXCO LABEL

## SITEXCO LABEL L10, Differential features

- ✓ It is a light, tabletop machine, with an attractive design and no sophistication.
  - ✓ The "less is more" concept becomes the formula that brings the most value to the customer.
  - ✓ Focused on the real needs of the Narrow Web sector. It is a simple, reliable, safe machine with nothing superfluous.
  - ✓ A machine with cutting-edge technology at the price of traditional systems.
- ✓ Cleaning of most inks and coatings in any lineature and geometry.
  - ✓ Only needs electrical connection.
  - ✓ Single cleaning speed, there is only one version per model.
  - ✓ Managed by HMI.
  - ✓ No optional add-ons.
  - ✓ No Internet connection.
  - ✓ No automatic focus.

**IT IS A DIFFERENTIAL PRODUCT, NOT A LUXURY**

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# FILTER



## TBH Filter

- ✓ Stage filtering system
- ✓ External filter.
- ✓ Fully mounted (incl. casters for mobile use).
- ✓ Full control over the system



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# CONTROL PANEL

## Main menu:



## Control and management panel features

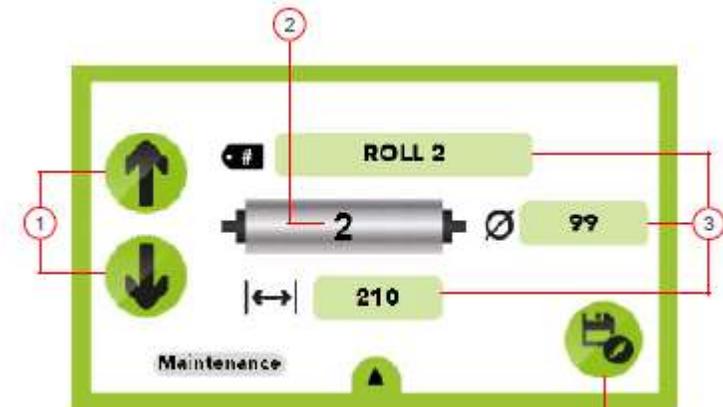
Touch screen for setting roller characteristics, displaying system status, alarms and to set the parameters.

To select the cleaning program and start the cycle.

It does not allow an offset at the start of the cleaning, it has no traceability or historical or IoT capabilities.

The characteristics of up to 16 rollers can be stored in the system memory.

It allows to edit the reference, diameter and length of the roller fields and save the configuration in the memory.



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# SUPPORT TABLE

## Support Table

### OVERALL DIMENSIONS

- ✓ Length: 990 mm
- ✓ Height: 920 mm
- ✓ Width: 650 MM
- ✓ Weight: 15 Kg.





# PREVENTIVE MAINTENANCE & SPARE PARTS

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# MAINTENANCE & SPARE PARTS

## Preventive Maintenance

- Clean the lens every 500 hours of use (procedure specified in the operator's manual).
- Clean the laser head cooling fan and the dust suction nozzle every 500 hours of use.
- Clean/ change the vacuum filter when required (visual indicator on the display).

## Spare Parts:

- Lens.
- Modular Filter:
  - Filter Z-line F6
  - Filter 2 stages BF5/BF10

## Warranty:

- 14 months from installation.
- Laser guarantee: 2 years.

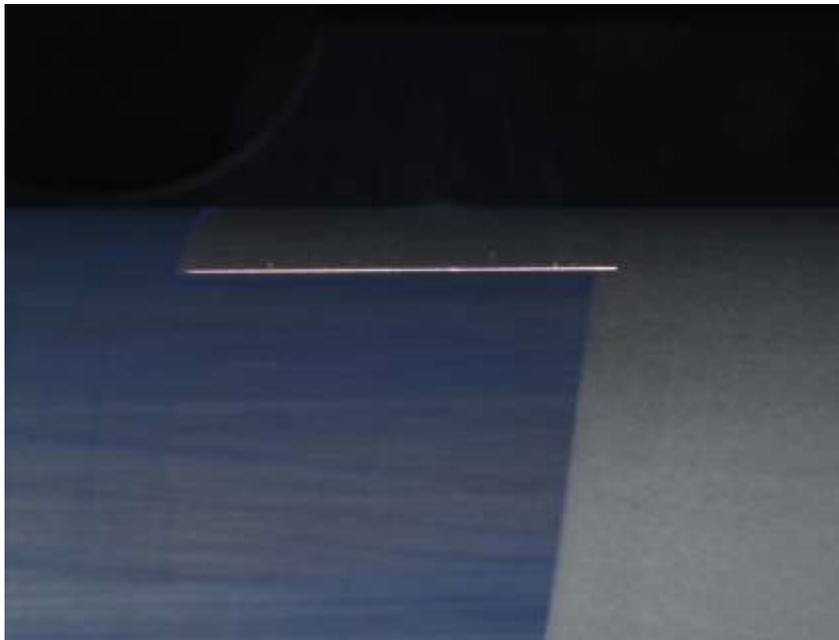


# OPERATION

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# OPERATION

The roller rotates on the wheels while the laser moves parallel to the roller. The energy of the laser beam is absorbed by the dirt layer and evaporates. The dust is suck in the suction system and directed to the filter.



We control the laser energy to obtain a beam powerful enough to blast the contamination but without damaging the surface of the roll.

The laser is light, so it reaches any part of the cells, whatever the geometry or line screen.

Parts such as bearings do not need to be removed before cleaning.

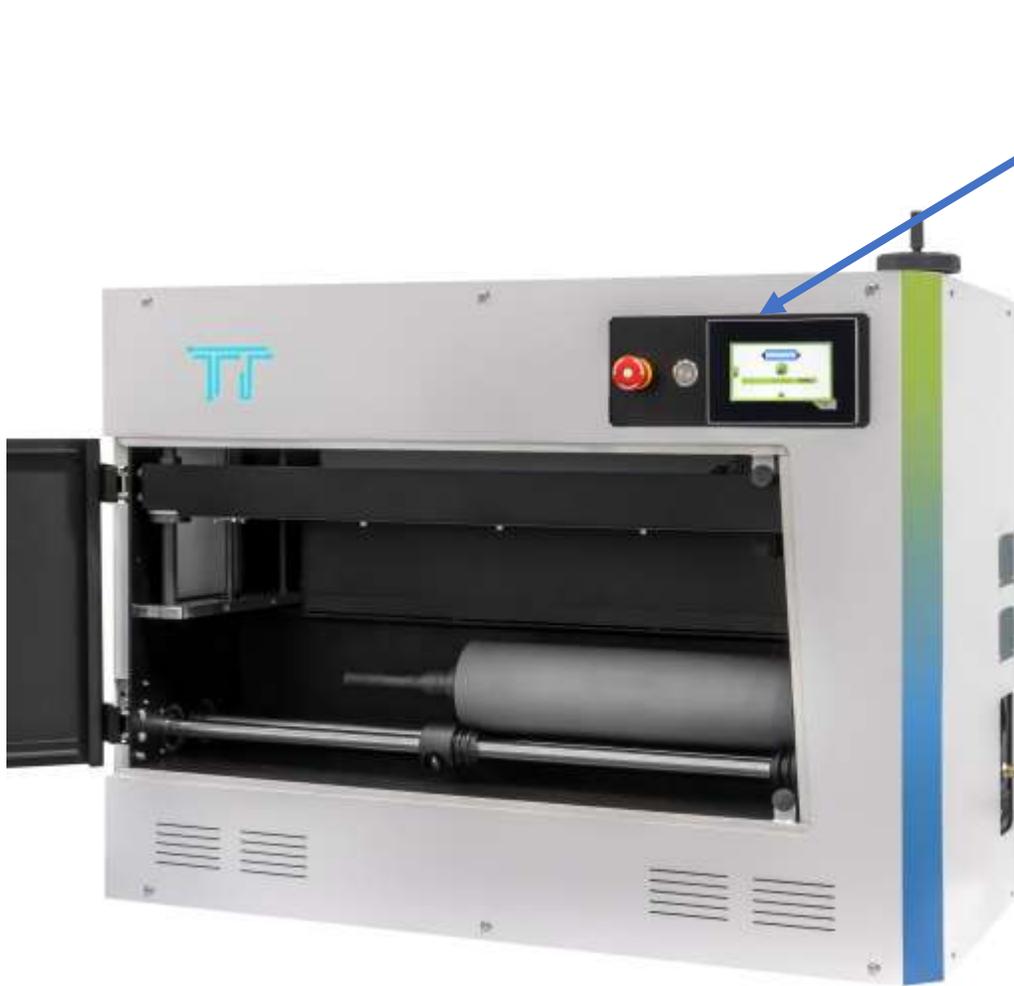
# OPERATION



Introduce the roller into the machine and adjust the supports on the left side.

Enter the diameter and length of the roller on the touch screen. This can be done manually or by selecting a previously stored cleaning configuration.

# OPERATION



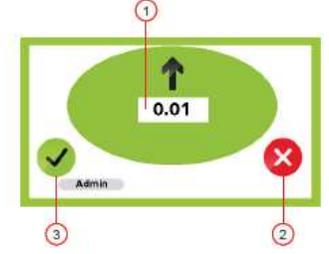
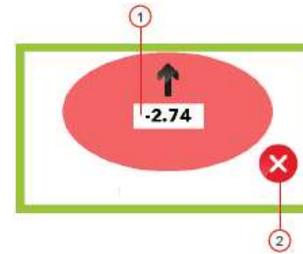
Select the cleaning program on the main screen.

As a rule, start with the light cleaning program and increase only if the cleaning is not satisfactory.

Three programs are available:

- ✓ Light cleaning: Gentle cleaning. Regular cleaning program.
- ✓ Medium cleaning: Cleaning for low lineatures or for more difficult inks.
- ✓ Intensive cleaning: Cleaning for heavily soiled rollers, highly reflective inks: white, gloss, coatings, hardeners.

# OPERATION



## FOCUSING IS MANUAL:

- ✓ Close the door and press the "START" button.
- ✓ The laser moves to the start position and the focus assistant appears on the display.
- ✓ When the focal length is correct, the background of the graphic will turn green.
- ✓ Cleaning can be started.
- ✓ The cycle is automatic, no further assistance is required.

