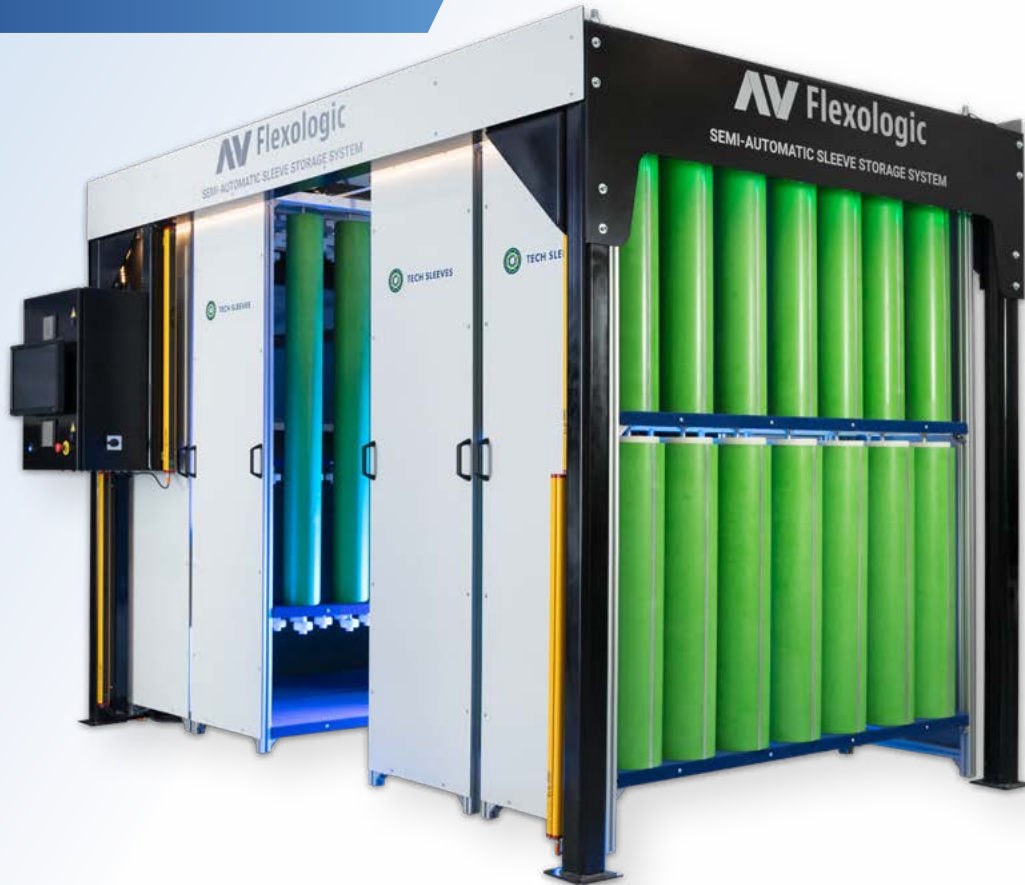


## Sleeve Storage System



### Description

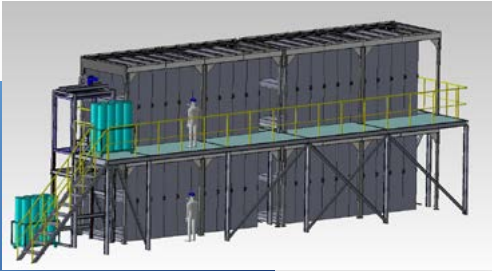
This customized **Sleeve Storage** system allows easy access, storage and retrieval of sleeves with an optional Semi-automatic feature. The Semi-Automatic feature entails that the horizontal movement of the racks is motorized by use of electric motors. This feature allows the user to input a repeat number or job on a touchscreen interface, through which the racks automatically "open" to the specific rack where the sleeves are stored.



# Details

The operator enters a repeat size on the **22" touchscreen interface**. The system then automatically 'opens' to this specific job. All racks can move simultaneously so the correct sleeve racks are opened within a minimal amount of time. A **pressure-sensitive floor mat** is placed along the complete length of the system, disabling movement of racks when it is triggered (for example when someone steps on the mat).

Repeat sizes are programmed into a database during installation. Each repeat size corresponds with a specific location in the system. Custom ERP connections can be made for even higher levels of automation and planning of production workflow.



Given the space restrictions, the sleeve storage system is custom engineered to store **sleeves of different dimensions**. We suggest to use a multiple level system, the easiest to handle sleeves on the upper level. Features of the sleeve storage system include a customized steel frame that accommodates suspended sleeve racks and a holder on the ceiling that prevents the sleeves from falling off when the racks move. This system can also be expanded in the future with additional racks.

## Benefits

- Custom Engineered
- Sturdy modular design
- Made from tubular steel
- Organized way of storage
- Prevents sleeve damage

## Options

- Manual
- Semiautomatic

## Safety features

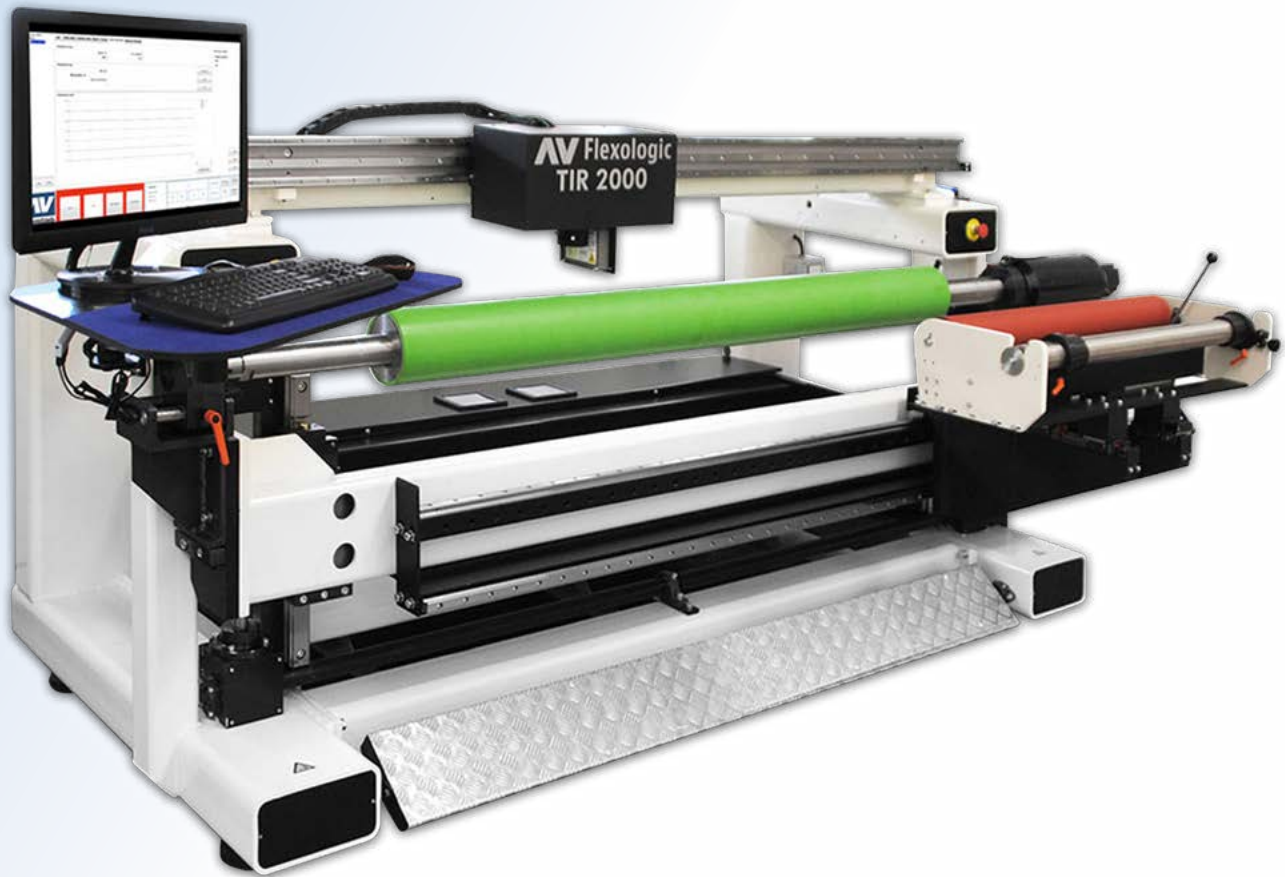
- Multiple light beam safety devices

# Advantages of Semi-automatic Sleeve Storage

- ✓ Easy and fast retrieval of sleeves
- ✓ No manual labor required to move sleeve racks
- ✓ Possibility to connect to ERP system for further automation
- ✓ Automatic security system
- ✓ Fully customized project



## TIR Measurement System



### Description

The **TIR** measurement system is the winner of the International print & innovation award 2015. It analyses the quality of the printing sleeve or cylinder by measuring the '3D landscape' of the surface. This information gives a thorough insight on the condition of the printing sleeve or the cylinder. With that, the TIR builds up a record of the exact condition of each printing sleeve or cylinder in stock. Subsequently the printing sleeves can be placed in the press with the right pre-settings.

Analyzing and interpreting the data

The measured data is analyzed in both horizontal and vertical direction and gives:

- **An overall average**
- **A maximum and minimum**
- **Out-of-roundness**
- **Topography of the complete sleeve**

The actual measured data is added to the record of the sleeve. The operator can also print out a quality report of the topography of the sleeve.



# Details

A high-quality laser takes the measurements with an accuracy of 5 microns. The accuracy of the TIR system allows monitoring the distance between the guiding rail and the full length of the axis. It calibrates any irregularities to ensure precision on micron level. A full report is generated to keep track of any irregularities. The operator can pre-set specific tolerances that define whether the sleeve is still usable.

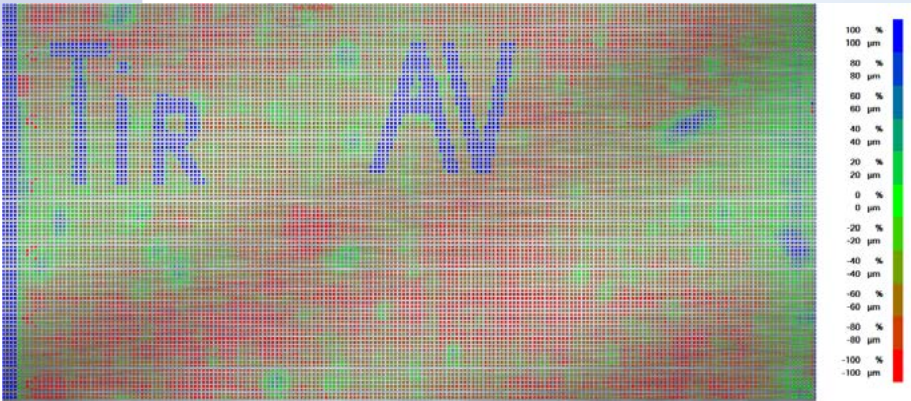
The ability to check the exact condition of each sleeve is essential for high-speed production with minimum pressure settings on the press. Worn out or damaged sleeves are easily detected, which prevents bad quality sleeve related downtime in the printing presses. It also helps to create an inventory of sleeves that are fit for use. The operator can pre-set specific tolerances that define whether a sleeve is still usable or not. In the image portrayed here it's visible how the TIR System measures the 3D surface of the sleeve, in which the blue spots indicate bulges on the sleeve's surface and the red spots indicate the dents. Bulges, dents and other imperfections such as the loss of roundness of the sleeve can seriously harm the print quality. With the TIR, press down time due to worn out sleeves can be prevented.

## Advantages

- Reduction in press downtime due to worn out printing sleeves which end up in the flexographic printing press
- Quick and easy usage
- Rigid steel construction
- Prevent press downtime
- Identify out-of-spec. sleeves
- Allows better control over the printing process
- Stores the measurement report

## Options

- Tape applicator for applying double-sided adhesive mounting tape
- Cutting knife with an adjustable depth to prevent sleeve damage while cutting tape



## Demounter



### Description

The **Demounter** is a machine designed to prevent damaging the printing plates. The Demounter efficiently removes the flexographic printing plates and mounting tape from sleeves, without any damage. Along with saving plates, the machine will also save time and allow the operator to focus on other activities in the prepress department. A motor driven silicon roller generates friction to pull the printing plates and mounting tape off the printing sleeve or cylinder. The roller divides equal force along the entire width of the printing plate, as opposed to the edges, which protects the printing plates from any damage.



# Details

The operator loads the printing sleeve onto the shaft (one-size-fits-all), peels of the edge of the printing plate and holds it against the silicon roller. The foot pedal is pressed to move the silicon roller. Following, the operator unloads the printing sleeve from the shaft.

## Advantages

- Reduces costs due to damaged printing plates allowing a quick return on investment
- Saves time in prepress department
- Easy to use and minimal force required
- Rigid steel construction
- Plug-and-play



## Specifications

- Widths: 1700, 2000 and 2500mm
- Plates: All thicknesses
- Tape: All types

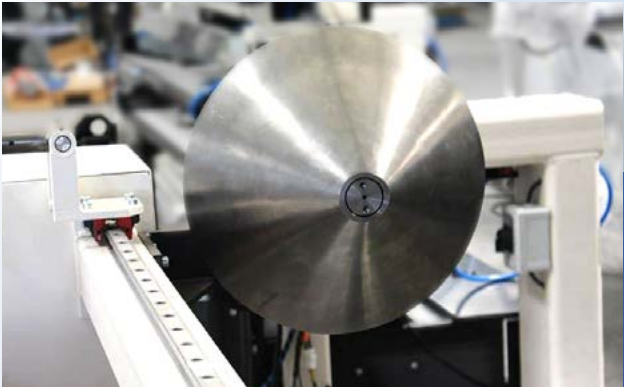
## Versions

- Sleeves
- Cylinders



## Options

- Pneumatic cones for applying tape
- Cutting knife





# Tape Applicator/Demounter



## Description

The **TAD** (Tape Applicator/Demounter) offers safe, fast and consistent tape application, while it can also be used as a Demounter to safely demount flexo plates and tape from sleeves, without damaging them.

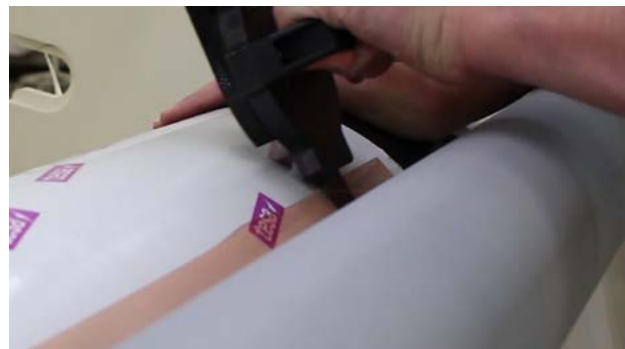
## Features

Light and sturdy tape roller

Cutting knife with an adjustable depth to prevent sleeve damage while cutting tape

Motorized rubber roller, which distributes the force equally over the entire width of the sleeve

Teflon knife for detaching the plate from the sleeve easily and without damaging the plate



## Advantages

Perfectly aligned tape without air bubbles

Minimal tape waste

Easy to use and minimal force required

Rigid steel construction

Prevents plate and sleeve damage

# Tech Cart



## Details

It is a sleeve carriage or a sleeve cart, specifically designed to eliminate discomfort. By holding the sleeves horizontally, it ensures that you can load and unload the sleeves without any extra physical effort. With the 360° rotating wheels and cart handle, you can easily maneuver the cart around.

Along with convenience, Tech Cart® also ensures safety for the sleeves. The felt covered sleeve holder prevents the inner core of the sleeve from scratches. The edge of the sleeve is protected by the rubber end ring on each sleeve holder. The tubular steel structure makes the cart extremely sturdy. Moreover, Tech Cart® can be customized to hold the number of sleeves you need and suit the sleeve sizes as per your requirement. Tech Cart® is thus the ultimate way to transport your sleeves.

## Benefits

### Features

- Customized engineering
- Ergonomically designed
- Sturdy tubular steel structure
- Felt covered sleeve holder
- Rubber end rings
- 360° rotating wheels
- Cart handle

- Easy transportation of sleeves
- Easy loading/unloading
- No physical heavy lifting
- No damages to sleeves during transportation

