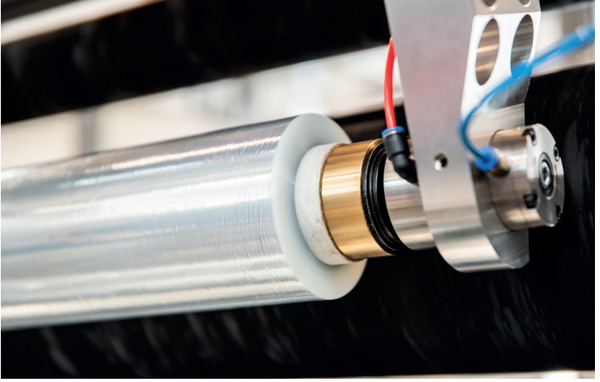


# Optional Equipment

## PRE-STRETCH

A motorized roller system enables to obtain high quality finished products with stretch ratios from 150% up to more than 350%*. Motor-activated adjustable edge folding device, powered material oscillator, and optional hole detection system complete the pre-stretch module.

(*Depending on the type of the material used)

## MINI-ROLL

Produce up to 10 bands from the initial mother roll with different widths. The supporting tray can hold up to 9 blades and the different rollers available will spread the material to guarantee a better quality of the finished products.

Most common mini-roll widths are:

- 2 x 250/300 mm
- 3 x 166 mm
- 4 x 125 mm
- 4 x 125 mm on cores 140 mm in length
- 5x 100 mm
- 5 x 100 mm on cores 140 mm in length
- 7 x 70 mm
- 10 x 50 mm

Custom widths available on request.

## ALI-KIT FOR FOOD GRADE MATERIALS

Food grade certified rubber belts, food grade certified rolls, and heatless cutting system will replace standard parts on the machine to prevent any contamination of the food grade material during the rewinding process.

## PRE-CUT FOR ALI-KIT

High-speed rotating blade cutting system to produce pre-cut sheets of material. This allows to produce a more refined product without reducing the rewinding speed.

## CUSTOM DEVELOPMENTS

At Maklaus we can customize all the machine features depending on the customer actual production needs.

**PDF version**

Via Lombardia, 26 - 21018 Sesto Calende (VA) - Italia - T: +39 0331 155016 - info@maklaus.com

www.maklaus.com

# RES-UNI

# Processing Stretch Film at its finest

## Description

**RES-UNI** is Maklaus top of the range fully automatic rewinding unit.

**All-arounder.** Versatile, reliable, and quick to set up, it allows to cover all the stretch film products requested by the market with a single machine. Produce hand-rolls, machine-rolls, pre-stretch rolls, mini-rolls and much more with the same unit thanks to its specific optional equipment.

**Designed for simplicity.** All manual operations including maintenance can be easily performed.

**Connected.** RES-UNI supports internet connection thanks to a last generation HMI and a dedicated software. Send job orders to the machine directly from your ERP and activate online connection for remote assistance to reduce machine down times when assistance is needed*.

* Internet connection and software integration requested. Contact Maklaus to check ERP compatibility.

**Watch it at work**

## Technical features

| | |
|---|---|
| Max. rewinding speed | **1500 m/min**** |
| Max. diameter of mother roll | **480 mm** |
| Max. weight of the mother roll | **83 Kg** |
| Max. width of mother roll | **600 mm** |
| Mother roll core internal diam. | **76 mm** |
| Max. diameter of finished roll | **300 mm** |
| Max. weight of finished roll | **20 Kg**** |
| Max. width of finished roll | **600 mm** |
| Finished roll internal diameter | **50 mm, 76 mm** (opt. 30, 32, 38, 42 mm - custom diam. available) |
| Max. material width | **600 mm** |
| Min. material width | **350 mm** (opt. 300 mm) |
| Material thickness supported | **5 -50 µm**** |
| Cardborard Cores Hopper Capacity | **up to 250 cores** diameter 38mm<br>**up to 150 cores** diameter 50mm<br>**up to 50 cores** diameter 76mm |
| Motors | **3 servo driven brushless motors** |
| Installed power | **28 kW** |
| Average consumption kWh | **Approx. 4 kWh** (8 kWh for production with 3 motors) |
| Voltage | **400 V** |
| Air pressure | **6 bar** |
| Compressed air consumption | **Approx. 60 Nl/min** |
| Dimensions | **1630 x 1880 x h 2240 mm** |
| Weight | **960 kg** |
| Presence of cores sensor | ☑ |
| Film wrapped on cylinder sensor | ☑ |
| Material presence sensor | ☑ |
| End of mother roll sensor | ☑ |
| Touch screen display | **10" colour display** |
| Remote connection | ☑ |
| Industry 4.0 Ready | ☑ |
| Intuitive touchscreen with multi-language operator and maintenance menu | ☑ |

| | |
|---|---|
| Cycle production time | **Approx. 11,5 sec for a 150 m roll* ***<br>**Approx. 15,5 sec for a 250 m roll****<br>**Approx. 25,5 sec for a 500 m roll****<br>**Approx. 65,5 sec for a 1.500 m roll**** |
| Electronic rewinding tension control | ☑ |
| Pneumatic lifting of the mother roll | ☑ |
| Motorized system for centering of the mother roll | ☑ |
| Mother roll automatic alignment system | **Option** |
| Automatic change of the output roll | ☑ |
| Rewinding of material by pre-set of meters | ☑ |
| Simulation of diameter and weight of the finished roll | ☑ |
| Kit for the production of finished rolls with air | ☑ |
| Production in 8 hours, including Jumbo change | **Transformation of approximately 53 Jumbos of 6000 m each** (finished rolls of 150 m on 50mm cores)<br>**Transformation of approximately 64 Jumbos of 6000 m each** (finished rolls of 250 m on 50mm cores)<br>**Transformation of approximately 75 Jumbos of 6000 m each** (finished rolls of 500 m on 76mm cores)<br>**Transformation of approximately 85 Jumbos of 6000 m each** (finished rolls of 1500 m on 76mm cores) |

** *Depending on material type and accessory used*

## Products

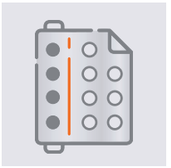
### Stretch & Pre-stretch film

**Hand rolls**

**Machine rolls**

**Mini-rolls**

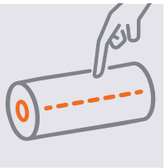
**Pre-stretch rolls**



**Rolls with holes**

**Cling film rolls**

**Pre-stretch cling film rolls**



**Pre-cut cling film rolls**