



# SKYLAB offline

## Off-line measurement and sample characterization

**SKYLAB** it is a single laboratory station for measuring and characterizing off-line blown film samples according to laboratory standards.

### OPERATING PRINCIPLE

The samples, taken from the line, are cut and placed on the handling unit that carries the film to the machine's measuring surface. The system automatically detects the presence of the sample and begins the measurement procedure. The film is simultaneously measured using two sensors: a mechanical micrometer and a capacitive sensor. The micrometer measures the average thickness and standard deviation according to the standards for characterizing samples in the laboratory, the capacitive sensor creates a verified and calibrated profile on the results of the micrometer.



### MAIN FEATURES

#### CERTIFIED MEASUREMENT

The SkYlab's measurement and micrometer follow all regulations for the certification of plastic film thickness measurements in the laboratory. The sample can be conveniently retrieved at the end of the measurement.

#### PRODUCTION VERIFICATION

Thanks to the two sensors, two results are obtained simultaneously: the micrometer analyses the average value and the thickness deviation characterizing the sample, while the capacitive sensor creates a profile that, being calibrated on the certified results of the micrometer, can be compared with those obtained on line to verify its reliability.

#### SINGLE STATION

SkYlab offline is a single laboratory station dedicated to automatic ring control, allowing sample analysis procedures to be carried out directly in the laboratory.

#### AUTOMATED PROCEDURE

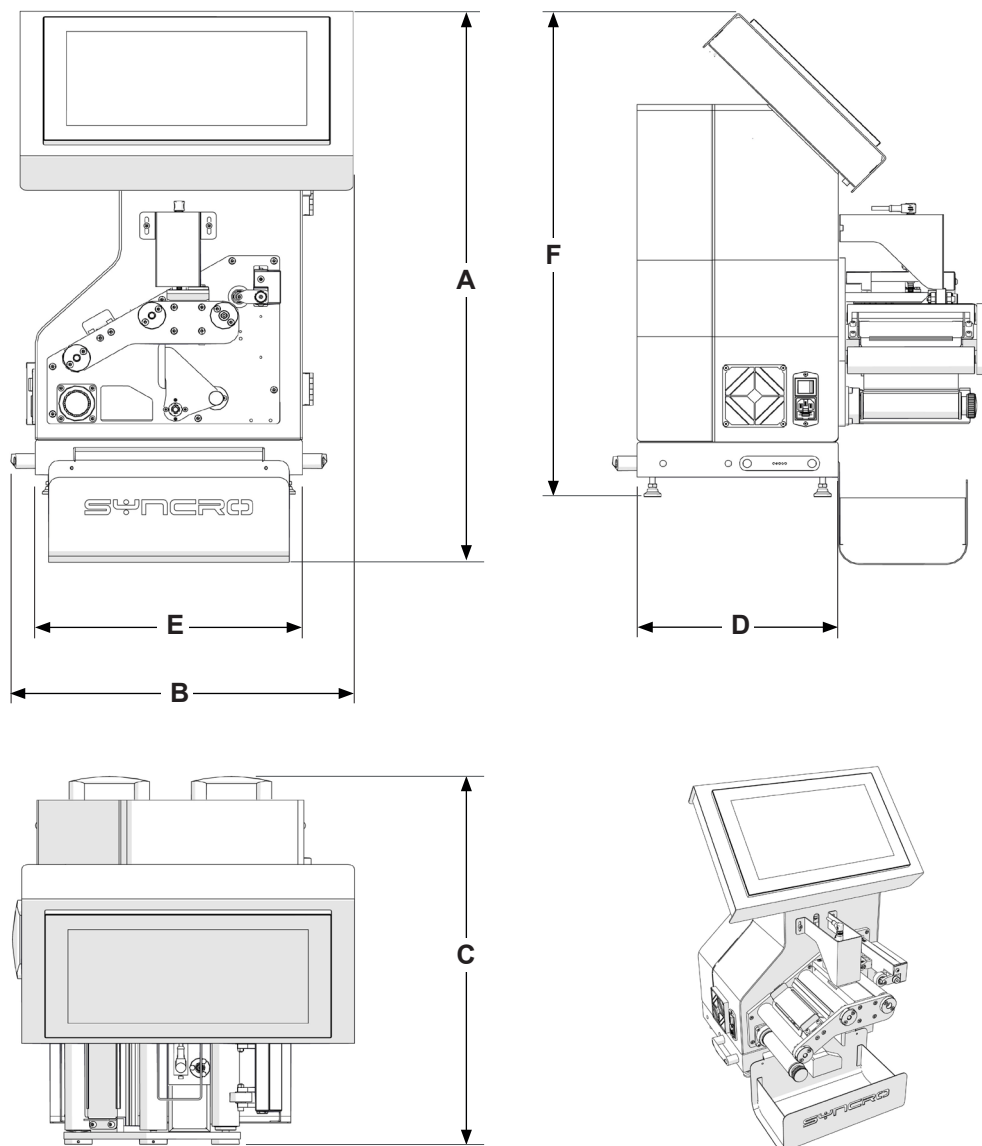
Once the sample profile has been measured, the system is able to compare it with the profile measured online, suggesting a series of troubleshooting operations if the two measurements differ from each other.

The entire procedure of sample measurement analysis and result printing is fully automated, freeing the operator from the task of making measurements manually.

#### INDUSTRY 5.0 & IoT

All SYncro machines are ready to be integrated with third party supervisory controls and ERP systems using the latest generation of OPC-UA protocols as standard.

## TECHNICAL DATA



|                                     | A                         | B      | C      | D      | E      | F      |
|-------------------------------------|---------------------------|--------|--------|--------|--------|--------|
| <b>Dimensions</b>                   | 815 mm                    | 495 mm | 545 mm | 290 mm | 385 mm | 710 mm |
| <b>Sample width</b>                 | 150 mm                    |        |        |        |        |        |
| <b>Maximum measurable thickness</b> | 1000 micron               |        |        |        |        |        |
| <b>PC</b>                           | 15" \ 21"                 |        |        |        |        |        |
| <b>Weight</b>                       | 200 Kg                    |        |        |        |        |        |
| <b>Temperature range</b>            | 5°C - 40°C (41°F - 104°F) |        |        |        |        |        |