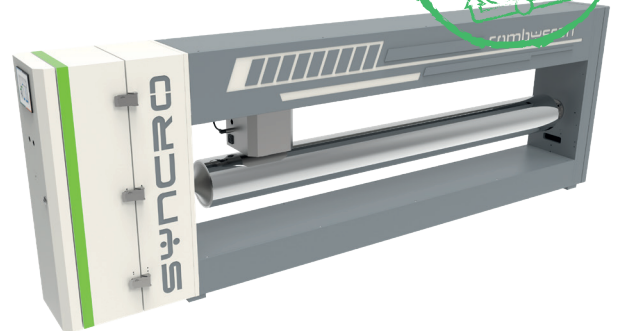




# combyscan

## Combined Capacitive & Inductive

**COMBYSCAN** is a measuring system based on non-contact inductive/capacitive technology. The new sensor allows the measurement of sheet or film thicknesses using the cylinder as a datum.



### OPERATING PRINCIPLE

CombYscan uses inductive technology to measure the distance between the sensor and the cylinder. The second capacitive sensor measures the dielectric of the material and combined with the first, provides a more accurate thickness value. CombYscan is used on flat die lines or blown film lines.

### MAIN FEATURES

#### NON CONTACT

The sensor is positioned with a gap of 4 to 6 mm from the film laid on the roller, without air cushioning.

#### SYNTROL CONTROL

CombYscan is equipped with a control cabinet along with PC touch screen, keyboard, mouse and printer.

#### PROCESSES

CombYscan can be used both on flat die liners or on blown film lines. On Blown Film lines, CombYscan is installed after the haul off and thanks to a special SYNCRO patented software design, it is able to measure the collapsed film and calculate the reel profile quickly, avoiding the need to wait for a complete haul off rotation.

#### IDEAL FOR BARRIER FILM IN BLOWN LINE

CombYscan can work with complex film structures such as barrier films because the measurement is not influenced by material composition.

#### HEAVY DUTY STRUCTURE

The heavy duty construction ensures no deflection of the main frame and guarantees perfect measurement stability.

#### EASY ACCESS FOR MAINTENANCE

The CombYscan has been designed to allow easy access for maintenance operations.

#### ROLLER SURFACE MAPPING

Thanks to mapping of the surface of the cylinder, a high resolution measurement scan is guaranteed with all possible variances eliminated.

#### FAST PROFILE CALCULATION - BLOWNLINES

On a Blown Film Line CombYscan shows the first profile after just 3 scans.

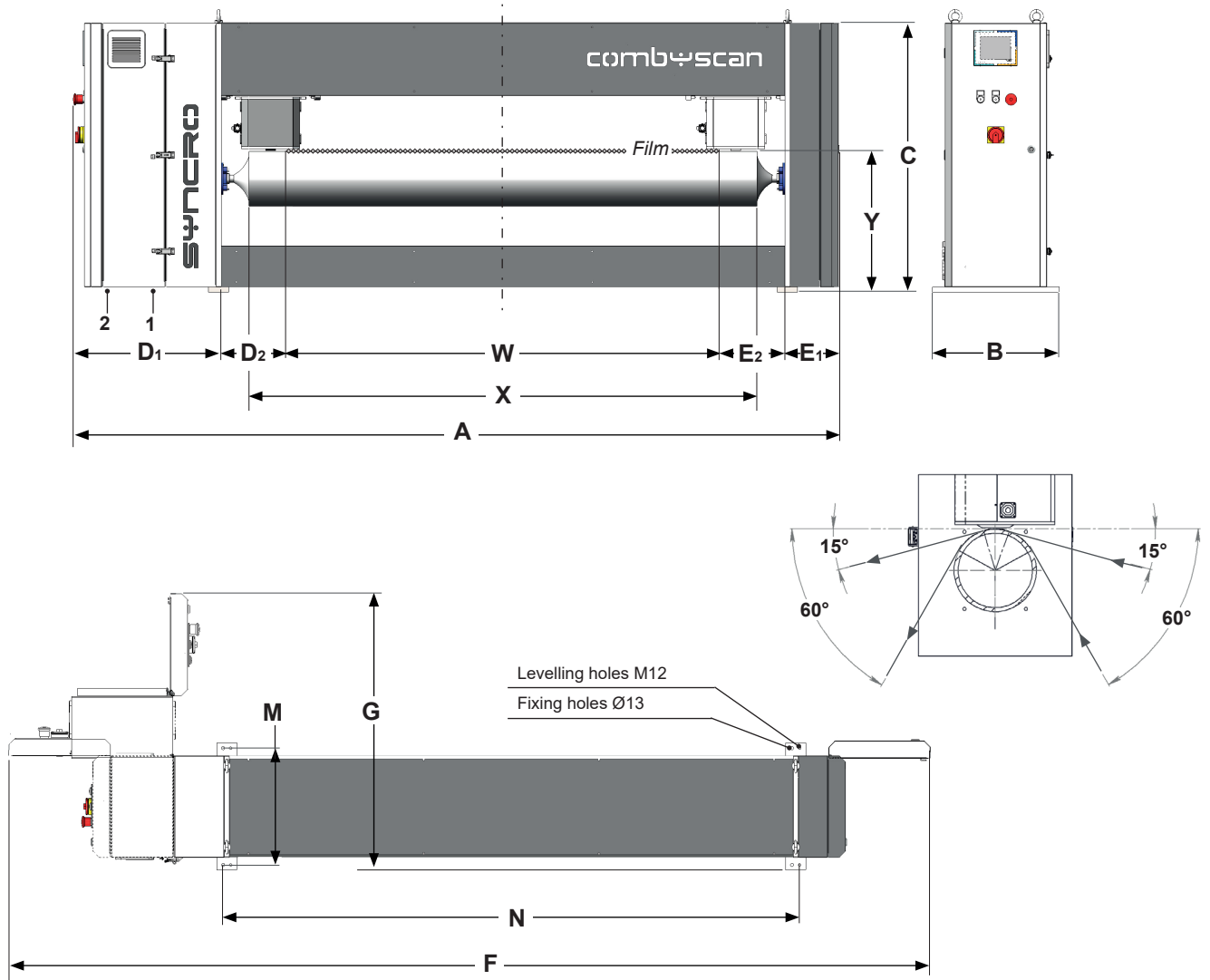
#### AUTO PROFILE CONTROL

As an option, CombYscan can be connected to SYntrolgauge to automatically control the thermal bolts used on flat dies or automatic air rings on blown film lines to regulate the film/sheet profile.

#### INDUSTRY 4.0 & 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



Model	W Width max film (mm)	Y h. film (mm)	X (mm)	A (mm)	B (mm)	C (mm)	D1 (mm)	D2 (mm)	E1 (mm)	E2 (mm)	F (mm)	G (mm)	M (mm)	N (mm)	Max Thickness (µm)	Power (kW)	Weight (kg)
<b>900</b>	900	553	1200	2220	500	1060	585	195	325	215	2870	1100	460	1470	500*	1,38	420
<b>1100</b>	1100		1400	2420							1670			450			
<b>1300</b>	1300		1600	2620							1870			480			
<b>1500</b>	1500		1800	2820							2070			520			
<b>1700</b>	1700		2000	3020							2270			600			
<b>1900</b>	1900		2200	3220							2470			650			
<b>2100</b>	2100		2400	3420							2670			670			
<b>2300</b>	2300		2600	3620							2870			680			
<b>2500</b>	2500		2800	3820							3070			700			
<b>2700</b>	2700		3000	4020							3270			720			

1\_ Communication interface; 2\_ Power supply.

\* In case of collapsed tubular the measure thickness is the sum of the two film layers' thickness.