



RAYXSCAN

X-Ray Gauging System

The **RAYXSCAN** uses an X ray beam transmission through the homogeneous material to be measured, from which it can measure the thickness, usually shown in micron or the weight [g/m²].

PRINCIPLE OF OPERATION

An X-ray source is situated in a housing, while another housing contains the receiver and is positioned opposite the transmitter at a set distance (Gap). When a homogeneous layer of material is positioned between the transmitter and receiver, part of the energy transmitting to the receiver is absorbed by the material. The part which is not captured by the receiver is directly proportional to the thickness of the measured film according to the main features of the material.



MAIN FEATURES

NON RADIOACTIVE

Following the regulations EURATOM 96/29, RAYXSCAN is not considered a radioactive source because the tension on the anode is lower than 5 kV, for this reason this scanner does not need to follow the radio protection regulations and hence a safety certificate is not necessary.

INDUSTRY 4.0 & IoT

RAYXSCAN is equipped with PLC integrated with OPC-UA protocol for industry 4.0.

SYNTROL CONTROL

RAYXSCAN is equipped with Control cabinet along with PC touch screen, keyboard, mouse and printer.

PROCESSES

RAYXSCAN can be used on different process such as stretch film lines, non-woven lines, BOPP lines, coating lines, Blown film lines.

LIMITLESS PERFORMANCES

The measurement is not influenced by color, transparency or by material composition.

HEAVY DUTY STRUCTURE

The heavy duty engineering offers excellent resistance to bending of the main frame and guarantees perfect measurement stability.

EASY ACCESS FOR MAINTENANCE

The RAYXSCAN has been designed to guarantee easy access for maintenance operations.

FAST SET UP

The average startup is done in less than 2h.

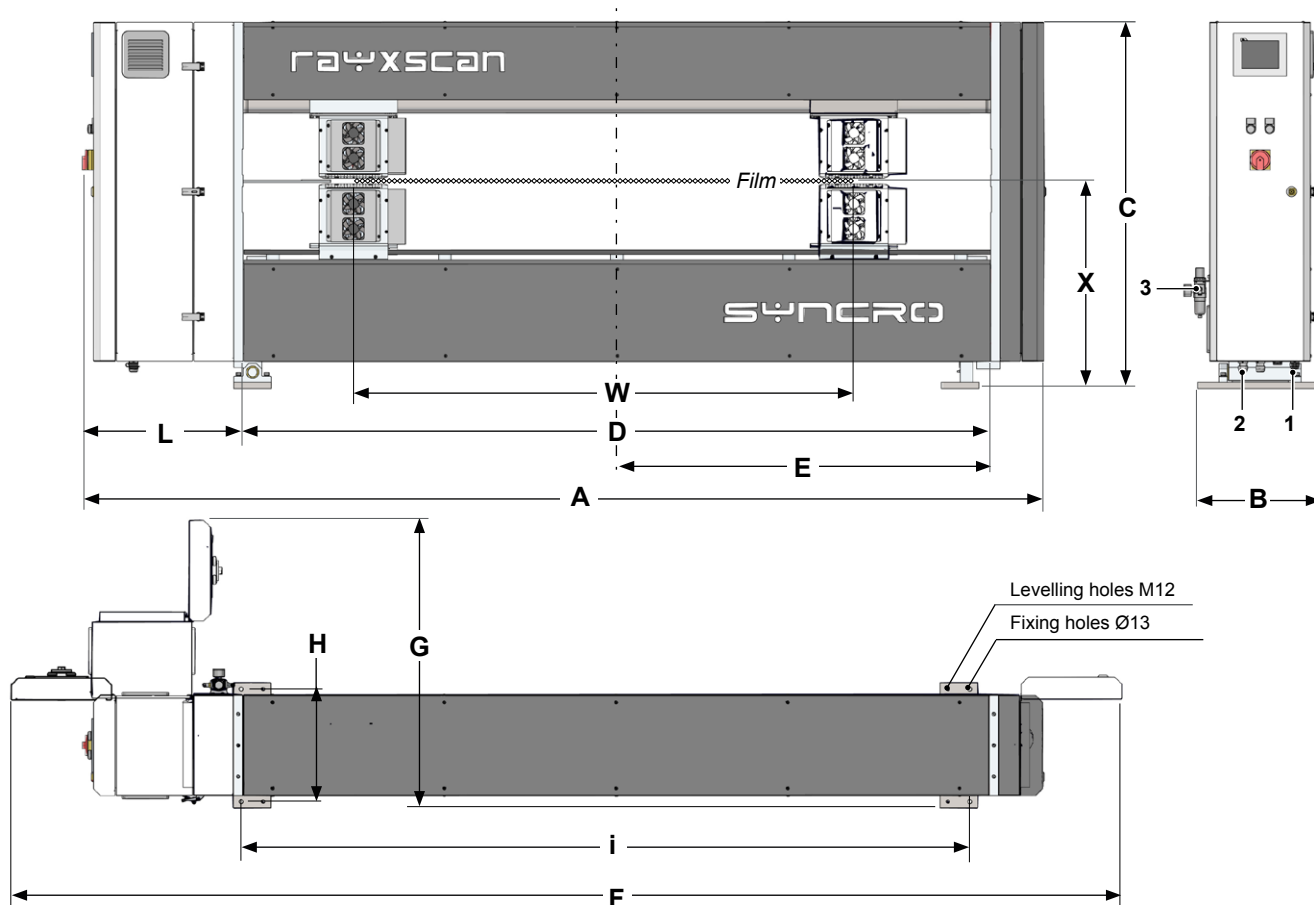
STABLE AND PRECISE

Extremely stable and precise measurement: down to 0.02 micron of repeatability with a max. drift without standardization in 12 h of 0.085 microns. True air gap density compensation with pressure and temperature measurement.

AUTO PROFILE CONTROL

As option RAYXSCAN can be connected to SYNTROLGAUGE to control automatically the thermal bolts used on flat dies or automatic air ring on blow film lines to regulate the film/sheet profile.

TECHNICAL DATA



Model	W max Film width (mm)	X h. Film (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	i (mm)	L (mm)	Max Thickness (µm)	Power (kW)	Weight (kg)
1000	1000	663,5	2480	400	1200	1790	938	2942	945	360	1733	514	500	0,8	475
1200	1200		2600			1910	958	3062			1853				495
1400	1400		2840			2150	1098	3302			2093				535
1600	1600		3080			2390	1238	3542,5			2333				570
1800	1800		3200			2510	1258	3662			2453				595
2000	2000		3440			2750	1398	3902,5			2693				630
2200	2200		3680			2990	1538	4142			2933				680
2400	2400		3800			3110	1558	4262			3053				700
2600	2600		4040			3350	1698	4502			3293				740
2800	2800		4280			3590	1838	4742			3533				780
3000	3000		4400			3710	1851	4862			3653				800
3200	3200		4640			3950	1998	5102,5			3893				855
3600	3600		4880			4190	2138	5342			4133				880
4000	4000		5480			4790	2438	5942			4733				980
4400	4400		5840			5150	2598	6302			5093				1040
4800	4800		6200			5510	2758	6662,5			5453				1095

1_ Communication interface; 2_ Power supply; 3_ Compressed air inlet.