SYNCRO GROUP

SONYCSCAN

Ultrasonic Gauging System

SONYCSCAN is based on the ultrasonic absorbtion measurement principle to measure the weight, usually shown in g/m^2.

OPERATING PRINCIPLE

SonYcscan sensor uses ultrasonic wave technology, that overcomes the limitation of other electromagnetic (radioisotope or X-ray) measuring devices. Using a series of special software procedures that measure the material's wave characteristic absorption and compensating the measurements for thermal drifts and local humidity variations, the system is able to detect the thickness/weight of the material without needing specific calibration.

MAIN FEATURES

ACCURACY
Accuracy less than 0.3% of the measured value, with resolution 0.02 micron.

NON RADIOACTIVE
SonYcscan doesn't use any type of ionizing radiation and therefore doesn't require any radiation protection measures against damage to the health of operators, nor any special precautions, procedures, cheks and medical examinations to protect the health of the operators and the general public typical of radioactive sources.

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

NO CALIBRATION
No calibration required for different materials. Automatic calibration and setup.

SYNTROL CONTROL
SonYcscan can be controlled by a SYNTROL supervision system including PC touch screen, keyboard, mouse and printer.

AUTO PROFILE CONTROL
As option SonYcscan 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 thickness profile.

EASY & FAST INSTALLATION
The average installation time is less than 2h.

HEAVY DUTY STRUCTURE
Machine design offers excellent resistance against bending of the main frame and guarantees measurement stability.

EASY ACCESS FOR MAINTENANCE
SonYcscan has been designed to guarantee easy access for maintenance operations. Long lifetime, easy to clean, rugged and robust sensor.

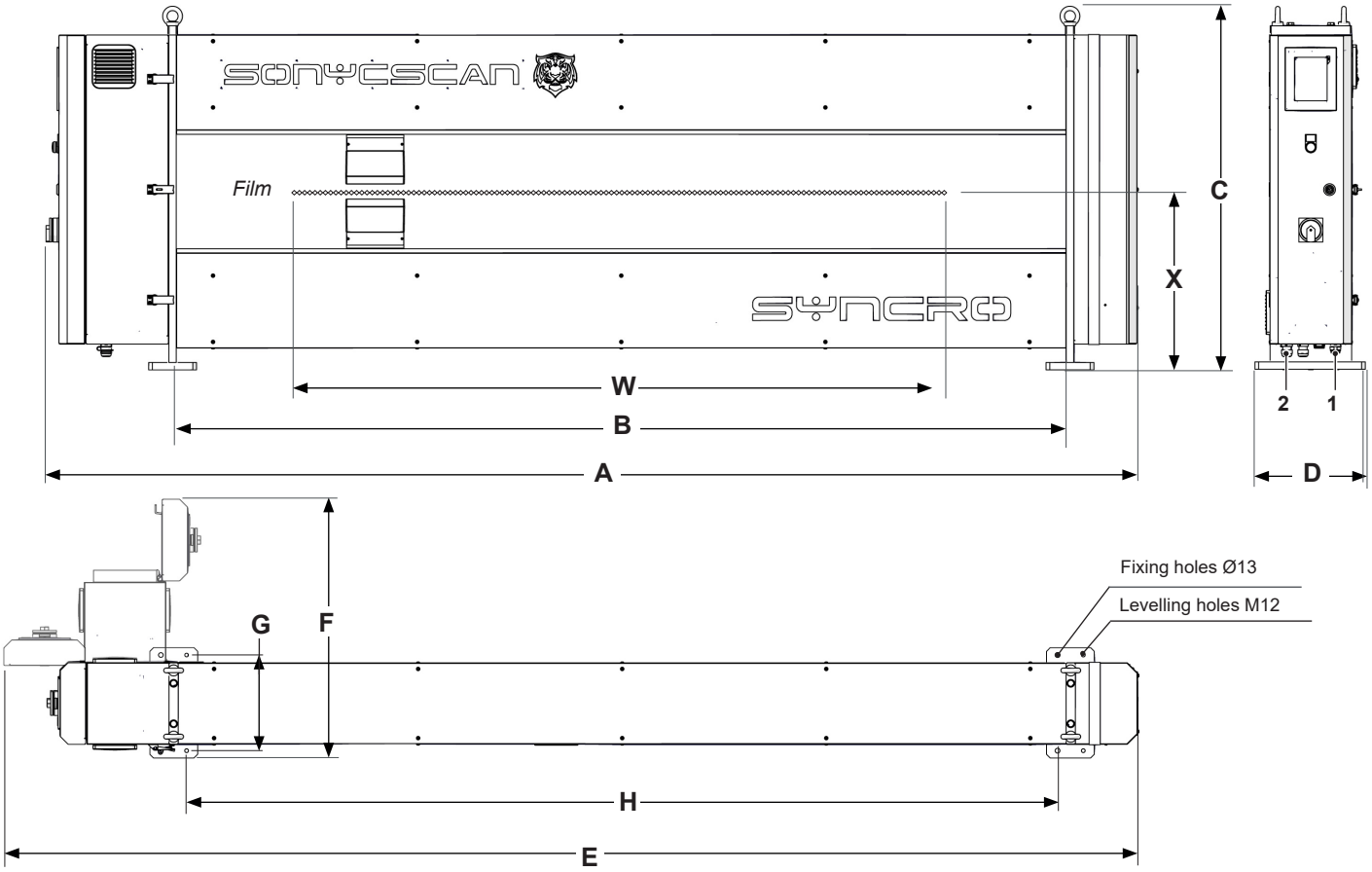
STABLE AND PRECISE
Extremely stable and precise measurement: down to 0.05% of the measured value repeatability.
Internal compensation of the temperature and humidity of the scanning heads and of the measurement gap guarantee the correct measurement in different conditions of use.

LIMITLESS PERFORMANCE
SonYcscan calculates the basis weight in real time regardless of material, colour or position and is suitable for paper, metals, plastic, technical fleece, fabrics and many more materials. The spot of measurement is very small.

SPECIAL VERSION
Available also as laboratory line or unit.

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 max Film width (mm)	X h. Film (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Max Thickness (mm)	Power (kW)	Weight (kg)
400	400	485	1365	820	990	300	1485	710	260	770	2	0,8	190
600	600		1565	1020			1685			970			200
800	800		1765	1220			1885			1170			210
1000	1000		1965	1420			2085			1370			230
1200	1200		2165	1620			2285			1570			240
1400	1400		2365	1820			2485			1770			255
1600	1600		2565	2020			2685			1970			270
1800	1800		2765	2220			2865			2170			285
2000	2000		2965	2420			3085			2370			300
2200	2200		3165	2620			3285			2570			325
2400	2400		3365	2820			3485			2770			335
2600	2600		3565	3020			3685			2970			355
2800	2800		3765	3220			3885			3170			375
3000	3000		3965	3420			4085			3370			385
3200	3200		4165	3620			4285			3570			415
3600	3600		4365	3820			4485			3770			425
4000	4000		4565	4020			4685			3970			475
4400	4400		4765	4220			4885			4170			505
4800	4800		4965	4420			5085			4370			535

1_ Communication interface; 2_ Power supply.