SYNCRO®
MEMBER OF SYNCRO GROUP

optyscan

Optical sensor Gauging System

OPTYSCAN represents the latest technology on the market in film thickness gauging. Thanks to its compact design and the same film side sender / receiver reading allow the installation on the chill roll frame. The extrusion lines will benefit from these characteristics resulting compact and the gauging being very close to the die head will guarantee a fast feedback and control particular appreciated during the start-up process.

PRINCIPLE OF OPERATION

Optyscan uses NIR (Near Infra-Red) technology. Its optical sensor is based on low coherence interferometry. The material is illuminated with a broadband near infrared light source; The optical head collects the reflection from upper and lower boundaries of the film and makes it possible to obtain the difference between the two measurements.

MAIN FEATURES

NIR TECHNOLOGY

NIR technology, based on the interferometer concept, avoid any certification needed for radioactive systems.

INCREASED ACCURACY

Optyscan has a 1 mm measuring spot with accuracy down to 0.1 micron. Precision of the measurement is improved and increased versus either IR, X-ray or Beta-ray which have measuring spots between 5 and 20 mm.

STABLE AND PRECISE

Thanks to the installation on the casting unit, Optyscan won't suffered any vibration that will affect the measurement and the quality of the measurement is kept the same independently of the film movement.

LIMITLESS PERFORMANCES

The system guarantees an absolute thickness gauging and doesn't need any calibration once set up.

COMPACT AND VERSATILE

Optyscan is backscatter so it doesn't need any receiver; Due to that it's installation directly on to the casting unit enable the length of the line to be reduced by about 2-3 meters saving space, frame structure and rolls.

FAST START UP

Thanks to the unique installation on the chill roll Optyscan will guarantee a faster response in auto profile control due to its proximity to the die, especially during start-up where each meter of film extruded is important.

EASY ACCESS FOR MAINTENANCE

Optyscan has been designed to guarantee easy access for maintenance operations.

PROCESSES

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

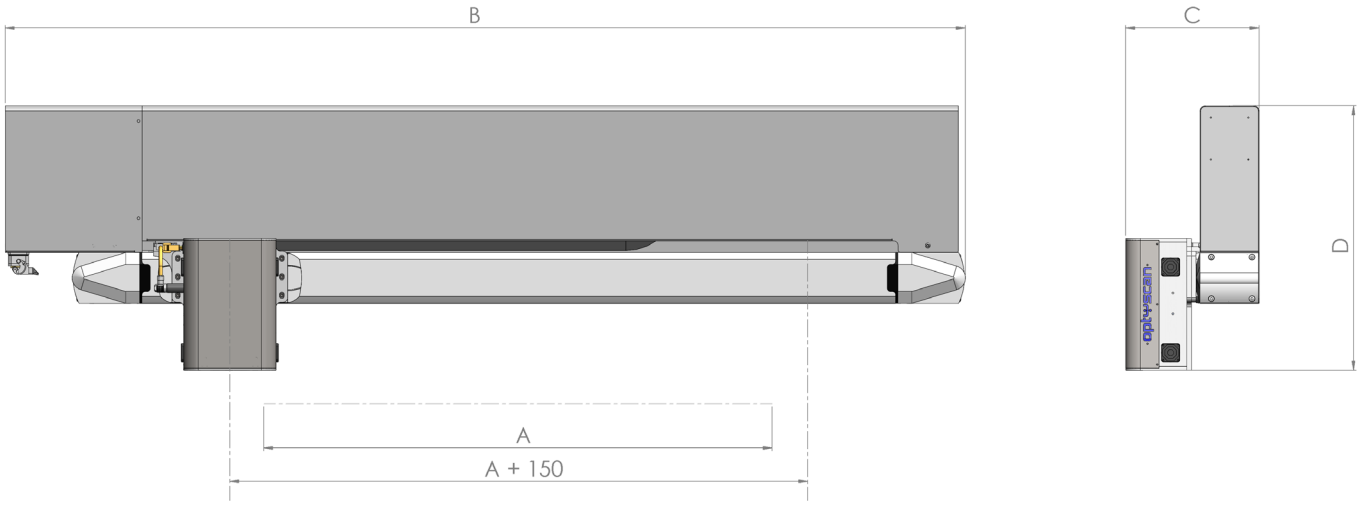
SYNTROL CONTROL

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

INDUSTRY 4.0 & IoT

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

TECHNICAL DATA



Model	A (mm)	B (mm)	C (mm)	D (mm)	Power (kW/h)	Weight (Kg)
1100	1100	2077	290	740	2.3	70
1300	1300	2277	290	740	2.3	73
1500	1500	2477	290	740	2.3	78
1600	1600	2577	290	740	2.3	80
1700	1700	2677	290	740	2.3	82
1800	1800	2777	290	740	2.3	85
1900	1900	2877	290	740	2.3	87
2100	2100	3077	290	740	2.3	90
2300	2300	3277	290	740	2.3	95
2500	2500	3477	290	740	2.3	105
2700	2700	3677	290	740	2.3	120
2900	2900	3877	290	740	2.3	135
3100	3100	4077	290	740	2.3	150
3300	3300	4277	290	740	2.3	165
3500	3500	4477	290	740	2.3	180