



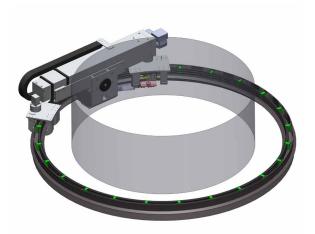
skymex

Capacitive Gauging System for Blown Film Lines

SKYMEX is a capacitive thickness gauge for blown film lines. It provides a continuous profile measurement around the bubble and is installed on an patented positioning device with an oscillating ring connected to an auto profile control.

PRINCIPLE OF OPERATION

SKYMEX is based on capacitive technology. Dielectric charecteristics of the film that is in contact with the sensor, produce a variation of the signal proportional to the film thickness.



MAIN FEATURES

PATENTED TRIPLE TELESCOPIC SYSTEM

The triple telescope is based on a movement mechanism that makes the positioning of the sensor precise and safe, overcoming the common stability problems of classic systems on the market (Patent WO2015/155621).

The telescopic beam on which the sensor is mounted is positioned on two carriages that move simultaneously around the extruded bubble.

Skymex meets 4 fundamental requirements of the designers: rigidity, absence of vibrations, large radial measuring radii and minimum overall dimensions during rotation.

Skymex has no radial overhang and no intermediate "junctions" between the bogies.

BELT FREE MOTION

Movement is "belt free" so no maintenance or belt replacement is required.

AVAILABLE UP TO 14 METER LAYFLAT

SKYMEX is available in different sizes up to 14 mt lay flat.

BIG MIN-MAX RATIO

Thanks to its patent triple telescopic device oscillating ring SKYMEX is able to guarantee $4 \div 1$ ratio between minimum and maximum bubble diameter.

ULTRASONIC DISTANCE SENSOR

SKYMEX is equipped with an ultrasonic sensor for keeping the distance from sensor to bubble always constant.

360° ENCODER BAND

SKYMEX is equipped with a 360° encoder band which allows to know the angular position with the maximum precision.

360° ROTATION SYSTEM

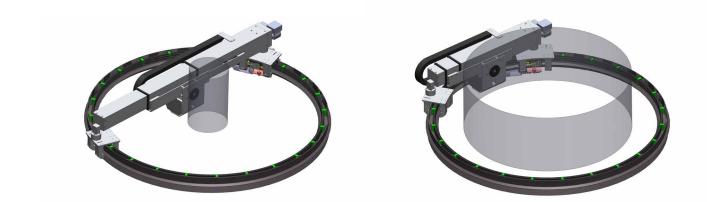
As option SKYMEX can rotate continuously at 360° in one direction thanks to a powered rail and an industrial Wi-Fi.

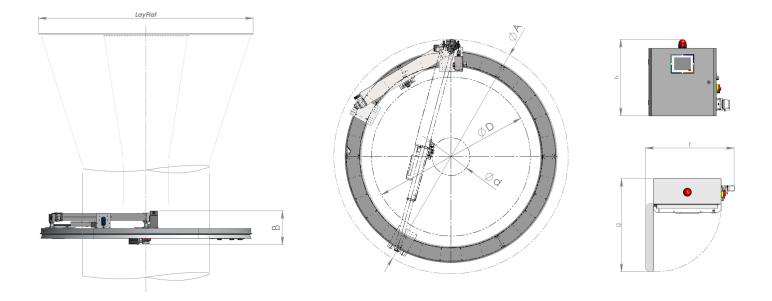
INDUSTRY 4.0 & IoT

SKYMEX is equipped with PLC integrated with OPC-UA proptocol for industry 4.0.

skvmex.

TECHNICAL DATA





Model	Dimension	Dimension	Dimension		LayFlat		Power	Weight	f	g	h
	Ø A (mm)	B (mm)	Ø d (mm)*	Ø D (mm)*	LF min*	LF max*	(kW/h)	(Kg)	(mm)	(mm)	(mm)
250-1650	2475	500	159	1050	250	1650	0,5	130	- 660	255	435
450-1900	2475	500	287	1210	450	1900		150			
500-2550	3125	500	318	1623	500	2550		175			
700-2800	3125	500	480	1750	750	2750		200			
875-3500	3470	500	557	2228	875	3500		250			
1125-4500	4245	500	716	2865	1125	4500		300			
1400-5600	5050	658	891	3565	1400	5600		360			
1800-7200	6220	658	1146	4584	1800	7200		520			

 \ast indicates the cold film, during processes the diameter could be increased up to 5%

