



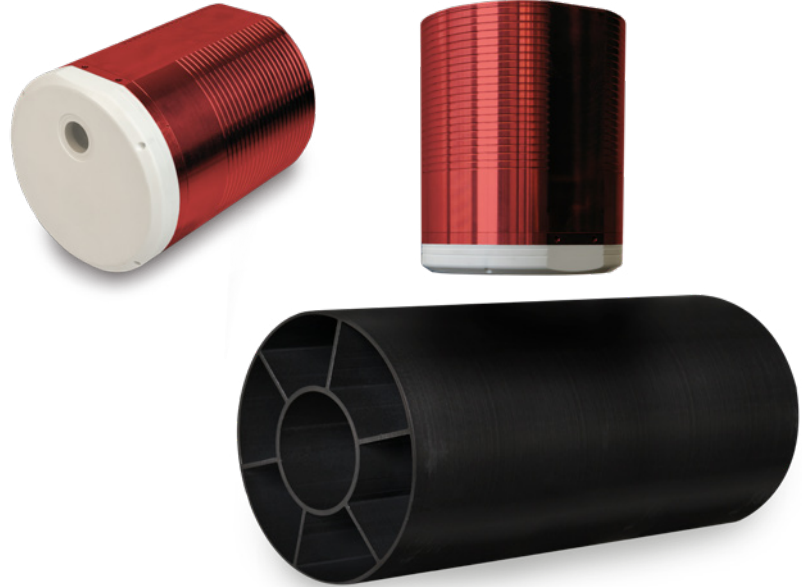
THICKNESS DETECTION SENSOR STHA2



Bianco® Instrumentation is a complete range of components for optimal control of fabric processes at various stages of finishing.

Bianco® Instrumentation includes:

- Bianco® FLUO
- Bianco® MISTAV SCM1
- Bianco® FTC7
- Bianco® Uncurler-M
- Bianco® Uncurler-P
- Bianco® Ecotex SE1
- Bianco® Hygrotex SH1
- Bianco® Termofix SP2
- Bianco® INRAM
- Bianco® TGC02
- Bianco® SPC2/SCS1
- Bianco® STHA2
- Bianco® VDTEX
- Bianco® WEIGHTEX SWB1/SWT2
- Bianco® SSCANS/SSCANM
- Bianco® SSCANL/SSCANXL



STHA2

The measurement head consists of an eddy current sensor combined with an optical sensor, both on the same mechanical support and a roller on which run the tape under measure. The eddy current sensor continuously measures the distance of the measurement head from the cylinder, while the optical sensor measures the distance of the measurement head from the surface of the tape flowing on the cylinder. The difference between the two measures provides the punctual thickness of the tape.

measurement principle	optical sensor+eddy current sensor
gap for tape	from 6 to 30mm
maximum resolution	1µm (when gap is 6mm)
precision	±5µm (in laboratory and when gap is 6mm)
sensor temperature range	0÷55°C (0÷70 with optional cooling unit)
control panel temperature range	0÷55°C
installation positioning	fixed or on a traversing frame
traversing systems translation speed	from 1 to 30 m/min depending on the application

WEIGHTEX + STHA2

In coating processing on textile supports a part of the coat penetrates into the fibers of the support while a part remains on the surface increasing the thickness. Depending on the amount of material that penetrates into the fibers, different weights can be obtained for the same thickness or vice versa, equal thicknesses with different weights. Using Bianco® Weightex combined with the Bianco® STHA2 thickness detector, both variables can be monitored.

