

## X-RAY 6000 PRO / X-RAY 6000 PURE

Measurement of diameter, ovality, wall thickness and concentricity

For the continuous quality control in hose and tube extrusion lines or directly during the insulation respectively jacketing process of wires and cables, the X-ray measuring devices X-RAY 6000 PRO / X-RAY 6000 PURE are recommended. Both systems provide precise and reliable measuring values regarding diameter, wall thickness, concentricity as well as ovality and allow to keep the required product specifications.

# Measurement of diameter, ovality, wall thickness and concentricity

### X-RAY 6000 PURE for single layer pipes and hoses

For over 20 years, SIKORA has been internationally known for its reliable and safe X-ray measuring systems. For single-layer applications, we have developed the X-RAY 6000 PURE. The new X-RAY 6070 PURE and X-RAY 6120 PURE models are available on the market, for measuring tubes and hoses from 6 to 65 mm and 10 to 110 mm, respectively. In addition to single-layer tubes and hoses, the total wall thickness of many multi-layer products can also be measured. In combination with the exclusive [ECOCONTROL PURE](#), a processor system with a high-resolution 15" touchscreen display, the measured values are clearly displayed for further analysis.

### X-RAY 6000 PRO for multi-layer products

The X-RAY 6000 PRO is the "advanced" version of the X-RAY 6000 and measures the wall thickness, the concentricity, the diameter and ovality of up to 3 different material layers. The system includes as a standard the display and control device [ECOCONTROL](#) 6000 with a vertical arranged 22" TFT monitor. Directly during the online measurement the measuring values of both measuring axes and the regarding, calculated wall thickness values, which are offset by 45 °, are visualized. For the operator, the graphical display of the 8 values on the circumference is perfect. He sees how an adjustment of the injection tools affects the centricity. The [ECOCONTROL](#) 6000 is operated comfortably via a touch screen and shows all measuring values numerically and graphically as well as trend and statistic data. A line representation with pictograms of the connected devices provides a clear overview.

### Your Benefits

- Measurement of the wall thickness, the concentricity, the diameter and the ovality of up to 3 different material layers
- Automatic control of line speed or extruder rpm under consideration of the minimum values (in combination with the processor system of the ECOCONTROL Series)
- Selectable measuring rate from 1 to 3 Hz (optionally 10/25 Hz)
- No calibration

### Specifications X-RAY 6000 PRO / X-RAY 6000 PURE

\*25 Hz are optionally available at X-RAY 6035 PRO and X-RAY 6070 PRO

<b>Measuring Principle</b>	Non-contact with modern X-ray technology
<b>Measuring Rate</b>	1 - 3 Hz / 3 Hz (optional 10/25* Hz)
<b>Interfaces</b>	RS232, USB Optionally: LAN (Ethernet   OPC DA/UA) Industrial field busses such as CANopen, EtherNet/IP, DeviceNet, ProfiNet, Profibus-DP
<b>Power Supply</b>	100 - 240 V AC ± 10 %, 50/60 Hz, 1,200 VA

## Specifications X-RAY 6020 PRO and X-RAY 6035 PRO

Model	X-RAY 6020 PRO	X-RAY 6035 PRO
<b>Diameter</b>	0,65 - 15 mm min. wall: 0,1 mm	5 - 30 mm
<b>Measuring Accuracy</b>	5 µm	5 µm
<b>Sight Field</b>	20 mm	35 mm
<b>Opening</b>	25 mm	100 mm

## Specifications X-RAY 6070 PRO / X-RAY 6070 PURE

<b>Diameter</b>	6 - 65 mm
<b>Measuring Accuracy</b>	10 µm / 15 µm
<b>Sight Field</b>	70 mm
<b>Opening</b>	100 mm

## Specifications X-RAY 6120 PRO / X-RAY 6120 PURE and X-RAY 6200 PRO

Model	X-RAY 6120 PRO / X-RAY 6120 PURE	X-RAY 6200 PRO
<b>Diameter</b>	10 - 100 mm / 10 - 110 mm	20 - 180 mm
<b>Measuring Accuracy</b>	10 µm / 15 µm	20 µm
<b>Sight Field</b>	120 mm	200 mm
<b>Opening</b>	180 mm	350 mm

## Specifications X-RAY 6300 PRO

Larger measuring ranges up to 500 or 650 mm on request

<b>Diameter</b>	30 - 270 mm
<b>Measuring Accuracy</b>	30 µm
<b>Sight Field</b>	300 mm
<b>Opening</b>	400 mm

## Technical Articles

Composite Pipes

[Multi-layer composite pipes circle the earth 53 times](#)

Rubber Hoses

[5.4 billion meters of rubber hoses were installed in passenger cars in the year 2014](#)