

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.

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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

Measuring Principle	Non-contact with modern X-ray technology
Measuring Rate	1 - 3 Hz / 3 Hz (optional 10/25* Hz)
Interfaces	RS232, USB Optionally: LAN (Ethernet OPC DA/UA) Industrial field busses such as CANopen, EtherNet/IP, DeviceNet, ProfiNet, Profibus-DP
Power Supply	100 - 240 V AC \pm 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
Diameter	0,65 - 15 mm min. wall: 0,1 mm	5 - 30 mm
Measuring Accuracy	5 µm	5 µm
Sight Field	20 mm	35 mm
Opening	25 mm	100 mm

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

Diameter	6 - 65 mm
Measuring Accuracy	10 µm / 15 µm
Sight Field	70 mm
Opening	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
Diameter	10 - 100 mm / 10 - 110 mm	20 - 180 mm
Measuring Accuracy	10 µm / 15 µm	20 µm
Sight Field	120 mm	200 mm
Opening	180 mm	350 mm

Specifications X-RAY 6300 PRO

Larger measuring ranges up to 500 or 650 mm on request

Diameter	30 - 270 mm
Measuring Accuracy	30 µm
Sight Field	300 mm
Opening	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](#)