

X-RAY 6000 / X-RAY 6000 PRO

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 as well as X-RAY 6000 PRO 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.

X-RAY 6000 for single layer products

The X-RAY 6000 is specially made for the measurement of the wall thickness, concentricity and the inner and outer diameter of single layer hoses and tubes as well as for single layer cables to measure the wall thickness, the concentricity and the outer diameter. The X-RAY 6000 is especially interesting for production lines where only one material layer is measured. For multi-layered cables, the overall wall thickness is measured. The production data is clearly displayed on a 7" monitor, which is integrated directly into the measuring system. The operation is intuitive via a touch screen. In combination with a processor system of the [ECOCONTROL](#) Series, an automatic control of the line speed as well as the extruder rpm is possible.

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 for X-RAY 6000 PRO 10/25 Hz)
- Intuitive touch screen operation
- No calibration

Specifications X-RAY 6000 and X-RAY 6000 PRO

Larger measuring ranges up to 500 or 650 mm on request

Model	X-RAY 6000	X-RAY 6000 PRO
Measuring Principle	Non-contact with modern X-ray technology	Non-contact with modern X-ray technology
Measuring Rate	1 - 3 Hz	1 - 3 Hz (optional 10/25 Hz)

Interfaces	RS232, RS485 Optionally: LAN (Ethernet) Industrial field busses such as CANopen, EtherNet/IP, DeviceNet, ProfiNet, Profibus-DP	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	100 - 240 V AC \pm 10 %, 50/60 Hz, 1,200 VA

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

Larger measuring ranges up to 500 or 650 mm on request

Model	X-RAY 6020	X-RAY 6035	X-RAY 6035 PRO
Diameter	0,65 - 15 mm min. wall: 0,1 mm	5 - 30 mm	5 - 30 mm
Measuring Accuracy	5 μ m	50 μ m	5 μ m
Sight Field	20 mm	35 mm	35 mm
Opening	25 mm	100 mm	100 mm

Specifications X-RAY 6070/6070 PRO

Larger measuring ranges up to 500 or 650 mm on request

Model	X-RAY 6070	X-RAY 6070 PRO
Diameter	6 - 65 mm	6 - 65 mm
Measuring Accuracy	60 μ m	10 μ m
Sight Field	70 mm	70 mm
Opening	100 mm	100 mm

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

Larger measuring ranges up to 500 or 650 mm on request

*Expanded measuring range up to 110 mm on request

Model	X-RAY 6120*	X-RAY 6120 PRO*	X-RAY 6200 PRO
Diameter	10 - 100 mm	10 - 100 mm	20 - 180 mm
Measuring Accuracy	60 μ m	10 μ m	20 μ m
Sight Field	120 mm	120 mm	200 mm
Opening	180 mm	180 mm	350 mm

Specifications X-RAY 6300 PRO

Larger measuring ranges up to 500 or 650 mm on request

Model	X-RAY 6300 PRO
Diameter	30 - 270 mm
Measuring Accuracy	30 µm
Sight Field	300 mm
Opening	400 mm

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