

LASER Series 6000

Milestones in precision diameter measurement

The LASER Series 6000 combines industrial design with highest precision and reliability. The high-end diameter measuring devices measure opaque as well as transparent stranded products and reliably detect lumps and neckdowns.

Integrated display in the gauge head

The devices include an integrated control panel with LCD display. This provides the operator with diameter values at one glance, directly at the measuring device. **Lump detector function** The high measuring rate of the diameter devices also permits the detection of lumps and neckdowns. With the two-in-one system investment costs are reduced and there is more space in the line. **Gauge head design** The opening of the gauges is twice as big as the measuring range to ensure an easy product feed through. A special feature is the swivel type gauge head, first introduced by SIKORA in 1990. It allows for the gauge head to be easily moved up out of the extrusion line. The measuring heads are open at the bottom to prevent dirt and water from falling into the measuring area. Brilliantly protected are the connection cables directly in the gauge head stand as well as the connection plugs in the gauge head.

Your Benefits

- Integrated lump detection function
- Integrated LCD display with control panel
- Up to 5,000 measurements per second
- Wide gauge head opening

Specifications for LASER 6020 XY

Product Diameter	0,2 - 18 mm
Accuracy	± 0,2 µm
Repeatability	± 0,1 µm
Exposure Time	0,2 µsec
Measuring Rate	2,500 measurements/sec/axis 5,000 measurements/sec/axis for LASER 6020 XY (optionally)
Interfaces	RS485, RS232, LAN; optional: Wi-Fi, Profibus-DP, analog interface, CANopen, Ethernet/IP, DeviceNet, Profinet IO and further industrial field buses, OPC UA
Power Supply	100 - 240 V AC ± 10 %, 50/60 Hz, 30 VA
Dimensions (W x H x D)	345 x 200 x 65 mm

Specifications for LASER 6040 XY

Product Diameter	0,5 - 38 mm
Accuracy	± 0,5 µm
Repeatability	± 0,2 µm
Exposure Time	0,2 µsec

Measuring Rate	2,500 measurements/sec/axis
Interfaces	RS485, RS232, LAN; optional: Wi-Fi, Profibus-DP, analog interface, CANopen, Ethernet/IP, DeviceNet, Profinet IO and further industrial field buses, OPC UA
Power Supply	100 - 240 V AC \pm 10 %, 50/60 Hz, 30 VA
Dimensions (W x H x D)	420 x 290 x 65 mm

Specifications for LASER 6080 XY

Product Diameter	1,0 - 78 mm
Accuracy	\pm 1,0 μ m
Repeatability	\pm 0,5 μ m
Exposure Time	0,2 μ sec
Measuring Rate	2,500 measurements/sec/axis
Interfaces	RS485, RS232, LAN; optional: Wi-Fi, Profibus-DP, analog interface, CANopen, Ethernet/IP, DeviceNet, Profinet IO and further industrial field buses, OPC UA
Power Supply	100 - 240 V AC \pm 10 %, 50/60 Hz, 30 VA
Dimensions (W x H x D)	535 x 705 x 65 mm

Technical Articles

Cable Production

[Classic and high-end – Online diameter control during wire and cable production](#)