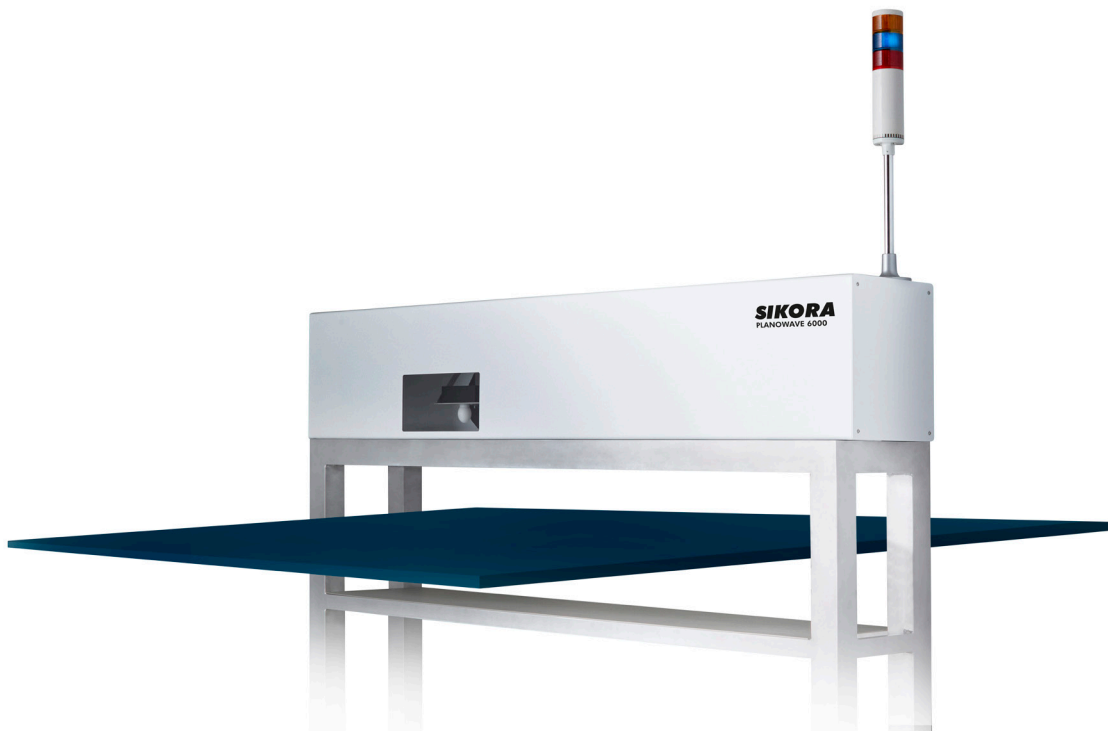


PLANOWAVE 6000

Thickness measurement in sheet extrusion
– non-contact, innovative, precise –



PLANOWAVE 6000



Certified according to
DIN EN ISO 9001

Innovative millimeter wave measuring system for quality assurance in sheet extrusion lines

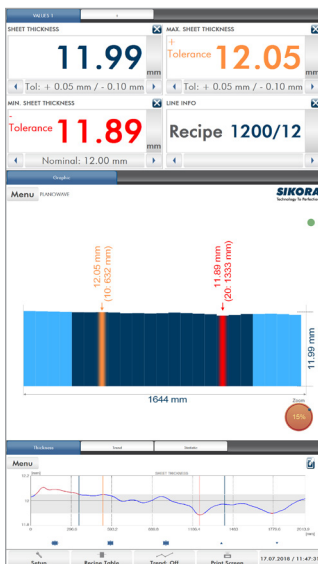
Precise online thickness measurement of plastic sheets

The PLANOWAVE 6000 is a non-contact measuring system that is used for a non-destructive thickness measurement during the extrusion of plastic sheets. The system is designed for sheets made of technical plastics such as POM and high-performance plastics like PEEK. The PLANOWAVE 6000 is also predestined for the measurement of transparent and advertising plastics like PMMA and PVC-FOAM as well as for glass. Innovative millimeter wave technology offers a precise thickness measurement with a clean, non-radioactive radiation, independent from material and temperature of the sheet. A calibration on the material is not needed.

The PLANOWAVE 6000 can both be integrated at the hot and cold position directly into the production line. The measurement of the sheet is accomplished by using millimeter waves, according to the FMCW* runtime method. A linear moveable transceiver continuously sends and receives frequency modulated millimeter waves. From the runtime difference, the thickness of the sheet is precisely determined.

The visualization of measuring values is processed in real time. The processor system ECOCONTROL 6000 offers a numerical display of the measuring values at any number of measuring points over the width of the sheet with a graphical visualization as well as extensive trend and statistical data.**

The PLANOWAVE 6000 contributes to repeatable processes, high quality and productivity during sheet extrusion.



* Frequency Modulated Continuous Waves

** A correlation with the adjusting screws of the sheet extrusion line is also possible.

The measuring values are visualized on the monitor of the processor system ECOCONTROL 6000

Typical features

- Non-contact measurement of the sheet thickness with innovative millimeter wave technology
- Easy operation without presetting the product parameters
- Measurements independent from material and temperature
- Free from radioactive radiation
- Precise measuring values immediately after starting the line, correlated with the adjusting screws of the extrusion line
- Reliable without any calibration
- Assurance of sheet quality
- Repeatable processes and highest productivity

Technical Data PLANOWAVE 6000

Measuring Principle

Non-contact on the basis of FMCW* millimeter wave technology

Application

Sheet extrusion, thickness measurement of sheets

Material

Any kinds of sheets from technical plastics (e.g. PE, PP, ABS, PET, POM, PA etc.), high-performance plastics (PEEK, PVDF etc.), transparent and advertising plastics (PMMA, PC, SAN, PVC-FOAM etc.) as well as glass and glass fiber reinforced sheets

Measuring Range

Sheets from 0.5 mm

Sheet Width

The width of the PLANOWAVE 6000 is individually adjusted to the width of the line: up to 5,500 mm as standard, larger line widths on request

Interfaces

USB
Optional: industrial fieldbus (e.g. Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet), LAN, OPC DA-UA, analog output

Power Supply

100 - 240 V AC \pm 10 %, 50/60 Hz

Measuring Frequency

80 to 300 GHz, max. 10mW

Measuring Rate

370 Hz

Technical data is subject to change

SIKORA AG (Headquarters)

Bruchweide 2
28307 Bremen

Germany

Ph.: +49 421 48900 0
email: sales@sikora.net

www.sikora.net

BRAZIL

sales@sikora-brazil.com

CHINA

sales@sikora-china.com

FRANCE

sales@sikora-france.com

INDIA

sales@sikora-india.com

ITALY

sales@sikora-italia.com

JAPAN

sales@sikora-japan.com

KOREA

sales@sikora-korea.com

MALAYSIA

sales@sikora-sea.com

MEXICO

sales@sikora-mexico.com

RUSSIA

sales@sikora-russia.com

TURKEY

sales@sikora-turkey.com

UKRAINE

sales@sikora-ukraine.com

UNITED ARAB EMIRATES

sales@sikora-uae.com

USA

sales@sikora-usa.com