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## PRODUITS OU MACHINES

**Temperature monitoring in the glass industry**

Glass has been a mainstay of human life for centuries. Be it in the form of jewelry, the facades of buildings, or drinking containers, it comes in every size, shape and color imaginable. The most translucent material places very specific demands on non-contact temperature measuring technology.

As described in detail in our Infrared Basics brochure, reflection and transmittance are serious considerations. Depending on whether one is measuring the surface temperature of the glass, or the temperature within the glass itself, specific infrared thermometers or thermal imaging cameras are recommended by Optris.

Below you will find a number of areas of application and the respective product solution.

**Area measurement**

Thermal imaging cameras are always used when temperature values within an area need to be monitored, for example in the manufacturing of sheet glass.

*Recommended device:*
Thermal imager optris PI 450i G7
Thermal imager optris PI 640i G7

*Download: Application overview:*
Temperature measurement in the glass industry

**Measurement of moving objects**

Likewise, infrared cameras are used when measurement objects are in motion, for example in the industrial production of glass beads or in packaging and filling plants which have a high output. When the objects always move within an orbit and are only to be measured at individual points instead of across the entire area, an infrared thermometer with high measurement speeds can also be used.

*Recommended device:*
Pyrometer optris CTfast LT

*Download application overview:*
Temperature measurement in the glass industry

**Measurement in confined spaces**

In practice, there is often only a very restricted space available for sensors, for example when they are being integrated into machines or systems. For this job there is a specially developed compact series glass pyrometer available.

*Recommended device:*
Infrared thermometer optris CT G5

*Download application overview:*
Temperature measurement in the glass industry

**Measurement of very small objects**

IR thermometers enable the measurement of the smallest objects from 1mm in size at a distance of 70 mm. Corresponding special developments for the glass industry enable the precise measurement of glass surfaces, for example in the manufacturing of laboratory glassware.

*Recommended device:*
Infrared thermometer CTlaser G5
Infrared thermometer CTlaser G7

*Download application overview:*
Temperature measurement in the glass industry

**Measurement through glass**

Pyrometers with a special measurement wavelength of 3.9 µm are suited for precise temperature measurement between 200 °C and 1,650 °C through flames and glass. Non-contact IR thermometers are used for the measurement of workpieces in ovens through flames, as well as for the continual temperature monitoring of brickwork in furnaces.

*Recommended device:*
Infrared thermometer CTlaser MT

*Download application overview:*
Temperature measurement in the glass industry

**Measurement in hot surroundings**

For the harshest conditions in the high temperature field, an infrared thermometer has been developed that can operate without additional cooling at ambient temperatures of up to 250 °C. This can be used in ovens and in closed chambers.

*Recommended device:*
Infrared thermometer CThot LT

*Download application overview:*
Temperature measurement in the glass industry

# HISTOIRE DE L´ENTREPRISE

Through the establishment of Optris GmbH, the founder intended to add innovative measuring and application principles to the wide range of non-contact temperature sensors. Doing this, Optris combines high quality infrared thermometers and thermal imagers with contemporary prices, in order to provide the best and modern infrared technology to as many customers as possible. Today, Optris is one of the leading innovative companies in the wide range of non-contact temperature measurement through infrared radiation since its establishment in 2003. The extensive knowledge and innovative thinking of our well-experienced engineers and physicists allow us to constantly offer optimized solutions for our customers‘ applications

Company Profile of **Optris GmbH**

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