



LILIT

Intelligent curing process
control. Real-time.
Contactless. Reliable.



TAU Industrial Robotics

LILIT® at a glance

LILIT® is the quality and process control system which monitors the polymerization level of thermosetting polymers in real time and in-line in less than one second.

Response Time Makes the Difference

- Immediate identification of quality flaws and scrap minimization
- Integrated error alert with a comprehensive data feedback for fast adjustments of production parameters
- Provides regular equipment checks
- Easy training of the algorithm on collected data for non-stop improvement of the production process



Fast and precise optimization of the process parameter



Real-time testing with no interference with the production process



Quick adaptation to production changes to maximize productivity

Easy to use and implement

1

Non-destructive inspection with a NIR probe



2

Compact central unit, easily movable



3

Real-time remote quality control



A closer look at LILIT technology

The LILIT technology makes use of NIR (Near Infra-Red) spectroscopy and artificial intelligence algorithms to control in real-time and in-line the curing level of insulating, protective and functional polymers.

It features a configurable system architecture: up to 8 probes can be positioned to monitor curing phase and connected by optical fibers to the central unit which contains the spectrometer and the CPU.

The quality parameters are visualized by the operator on a customized software interface and can be transmitted to the company's data processing systems through the network.



Maximum test
quality and precision



Immediate feedback with
50% reduction in the
production start-up time



Innovative machine
learning technologies

Test and Processing Capabilities

Applications

- Decorative varnishes
- Electric motors
- Optical fiber
- Transformers
- Generators

Materials

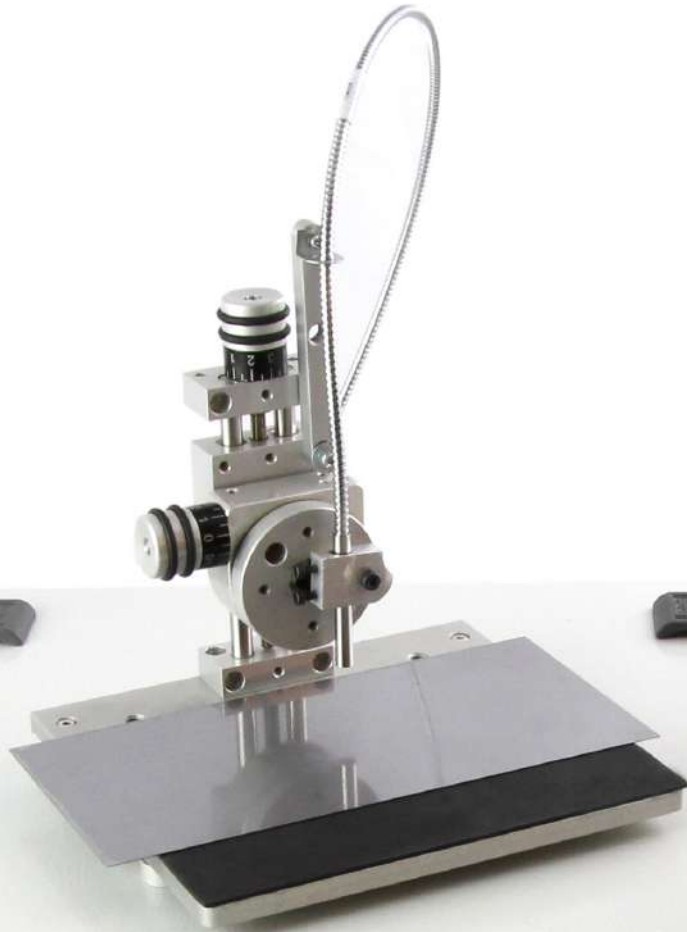
- Epoxy
- Acrylate
- Polyvinyl formal (PVF)
- Polyester (PE)
- Polyester-imide (PEI)
- Polyurethane (PU)
- Polyimide (PI)





LILIT

Light In-Line Insulation Test



TAU Industrial Robotics

www.tauindustrialrobotics.com
sales@tirobotics.it
Lungo Dora Colletta 83
10153 Torino
Italy