MICADO

RETHINKING COMPOSITE CURING

HIGH-PERFORMANCE STRUCTURES WITHOUT
AUTOCLAVE CONSTRAINTS

COMPOSITE TOASTER

The Composite Toaster replaces heavy infrastructure with intelligent, precision-controlled heat. Designed for laboratories, development teams and agile small-series production.

KEY ADVANTAGES:

- Significantly reduced CAPEX (ROI)
- Energy savings of up to 50%
- Minimal infrastructure requirements
- Modular heating rod architecture
- Reduced CO_2 emissions

FROM HEAVY INFRASTRUCTURE TO INTELLIGENT CONTROL

Composite manufacturing should not require:

- High capital investment
- Large footprint production systems
- Complex tooling infrastructure
- Long setup and curing cycles
- High energy consumption

The Composite Toaster changes the equation.
Instead of relying on large-scale autoclave systems, the Composite Toaster delivers precision-controlled curing through integrated heating rod architecture and intelligent PID control.

What this enables

- Autoclave-level process control in a compact format
- Reduced infrastructure requirements
- Faster development and iteration cycles
- Reproducible, high-quality curing results
- Scalable lab and small-series production

Reduced CAPEX / Reduced energy demand

How it works

- Direct heating rods integrated into the mold setup
- Internal control unit monitors temperature & pressure
- Multi-step programmable heating curves
- Integrated PID-based regulation
- Continuous process monitoring and safety control

Heat is not simply applied – it is engineered, monitored and optimized.

TECHNICAL OVERVIEW

Parameter	Specification
Max Temperature	150 °C
Heating Method	Direct heating rods
Control	Integrated PID controller
Monitoring	Temperature and pressure sensor feedback
Safety	Overtemperature & system monitoring
Application	Lab & small-series production
Power	2–10 kW

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