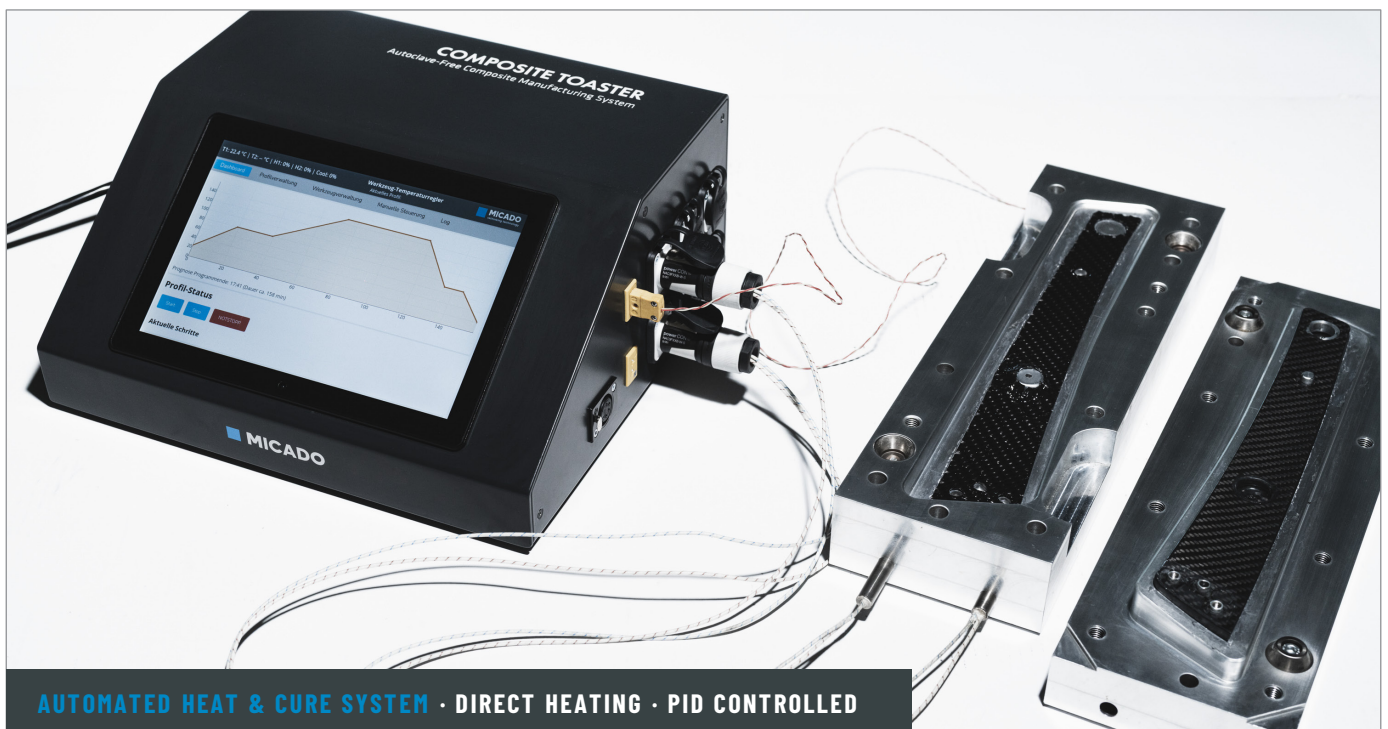


COMPOSITE TOASTER

From the lab to small-series production — simplified.

Precision-controlled curing **directly at the component** — **without an autoclave**. Heat is not simply generated, but engineered, monitored, and optimized. Autoclave-level performance in a compact format ready for both laboratory and small-series production.



MEASURABLE. REPEATABLE.
COST-EFFECTIVE.

Four concrete benefits — from the very first component, in every application.

-75%

ENERGY SAVINGS

Up to 75% lower energy consumption compared with curing in a large oven.

▼ CAPEX

REDUCED INVESTMENT

Significantly lower equipment costs — delivering faster ROI even during development.

▼ CO₂

LOWER FOOTPRINT

Direct energy transfer and smaller heating volumes reduce emissions per component.

Plug·In

MINIMAL INFRASTRUCTURE

No autoclave, no compressed air, no facility modifications — install within existing operations.

HOW IT WORKS

DIRECTLY HEATED. PID-CONTROLLED.

01

DIRECT HEATING

Heating elements integrated directly into the tool – heat exactly where the component needs it.

02

PID CONTROL

Integrated control with real-time temperature and pressure sensor feedback.

03

MULTI-STAGE PROFILES

Programmable curing curves – auditable and reproducible.

04

SAFETY

Overtemperature protection and continuous process monitoring.

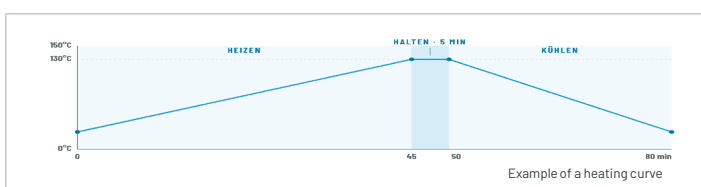
TECHNICAL DATA

AT A GLANCE.

MAX. TEMPERATURE	over 200 °C
TYPICAL PART SIZE	up to 1.5 m length
OUTPUT	2-10 kW
HEATING METHOD	Direct heating elements in the tool
CONTROL	Integrated PID controller
MONITORING	Temperature & pressure sensors
SAFETY	Overtemperature monitoring

CURING PROFILE

HEAT. HOLD. COOL.



01 · HEAT

45 min

Controlled ramp-up to process temperature.

02 · HOLD

130 °C

Constant for 5 min – crosslinking & polymerization.

03 · COOL

30 min

Controlled cooling – minimizes residual stresses.

APPLICATION AREAS

THREE INDUSTRIES. ONE PLATFORM.



01 · AEROSPACE

LAB TESTS

Material qualification, curing trials, and prototype development – precisely documented.



02 · AUTOMOTIVE

PRE-DEVELOPMENT

Material tests and concept samples – flexible, without large-scale production commitment.



03 · SPORTS & LEISURE

LAB & SMALL-SERIES

From design studies to pilot series – fast cycles for agile products.

NEXT STEP

SCHEDULE A LIVE DEMONSTRATION.

At MICADO's facility in Oberlienz or at your site.

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