

watttron

The benchmark of efficiency

Increased material efficiency and reliable
processing of mono-materials
with digital heating systems

What does watttron offer?

We develop **heating systems** that enable **precise heating of plastic films** in the packaging process and support our customers in **switching to mono-materials** and **minimizing the use of materials**.

Products

cera**2**heat

Our solution for
thermoforming applications

cera**2**seal

Our solution for sealing
applications



Who is watttron?

We are a **technology company** with **extensive experience** in the optimization of **processing and packaging processes**



2016
founded



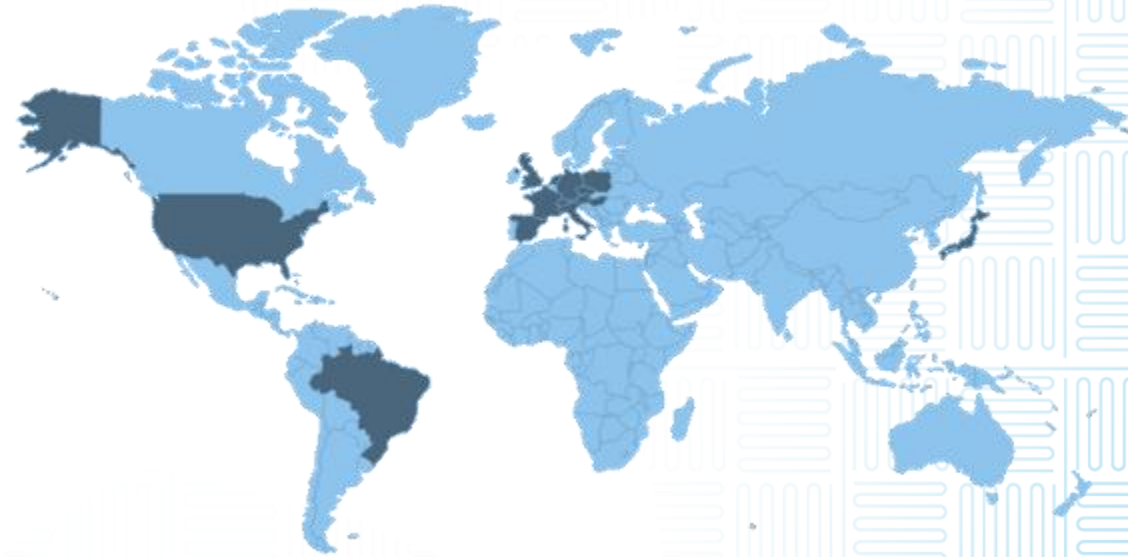
80+
Professionals



2 Locations
(GER/USA)



100+ customers
worldwide



Numerous awards (excerpt)



WORLDSTAR
GLOBAL
PACKAGING
AWARDS



THE
SUSTAINABILITY
AWARDS



Some customers

GEA

IMA 

illig

 MULTIVAC

 SCHUBERT

KIEFEL
TECHNOLOGIES



Do you know these challenges?



Quality problems when processing mono-material (PP, APET)



Extended heating and cooling times of the heating systems lead to prolonged format change durations.



Reduction in output when changing materials



Uneven material distribution in the molded part



Need to reduce material thickness and energy consumption



Plug wear and associated maintenance costs

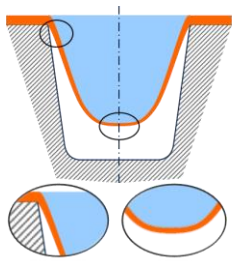
The cause: inadequate control of the heating process

Previous solutions ...

Materials of greater initial thickness

- higher material costs
- longer preheating time
- lower output
- more frequent roll changes
- higher tax

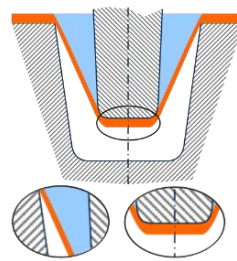
Molding without plug
Thin base



Use of pre-stretch plug

- uneven material distribution
- plug marks
- complex adjustment
- wear and tear

Molding with plug
Thin wall area



Longer heating times

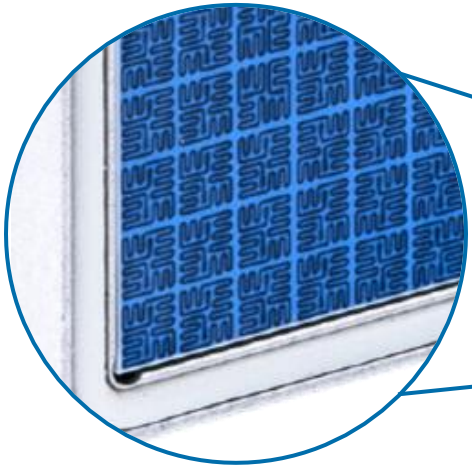
- reduction in output
- costly system conversion

... will not lead to the goal!

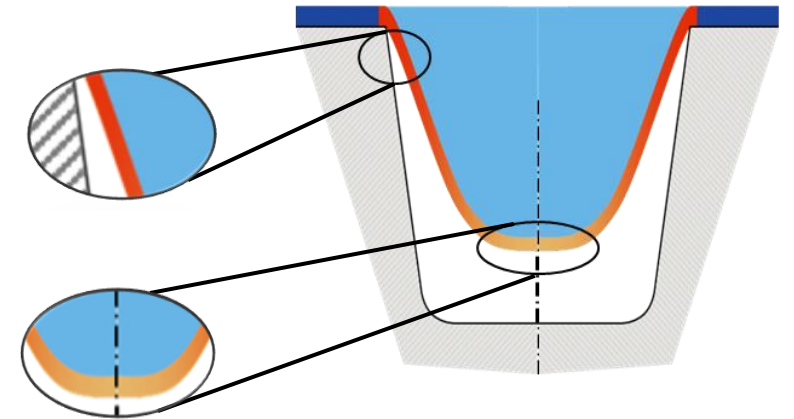
How it works

Rapid heating and cooling due to low heat capacity

Pixel-wise heating with fully temperature control ensures defined heating of the plastic web



Minimized material thickness through optimized temperature profile



Fully reproducible thermoform results – no temperature deviation from stroke to stroke

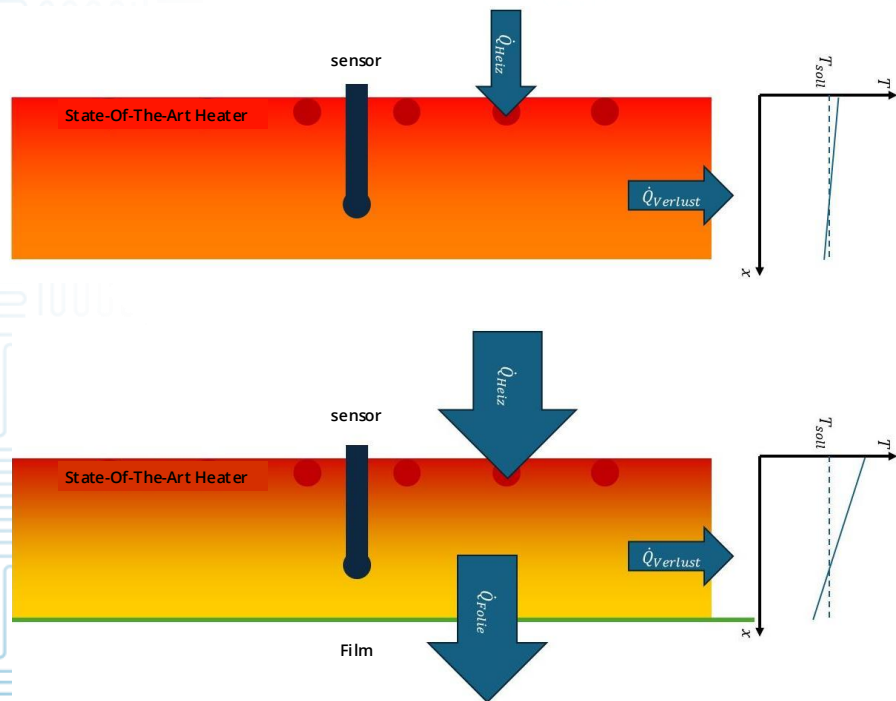
$\Delta T^* < 2\text{ }^{\circ}\text{C}$ All over the heating surface

*guaranteed by documented calibration for every product!

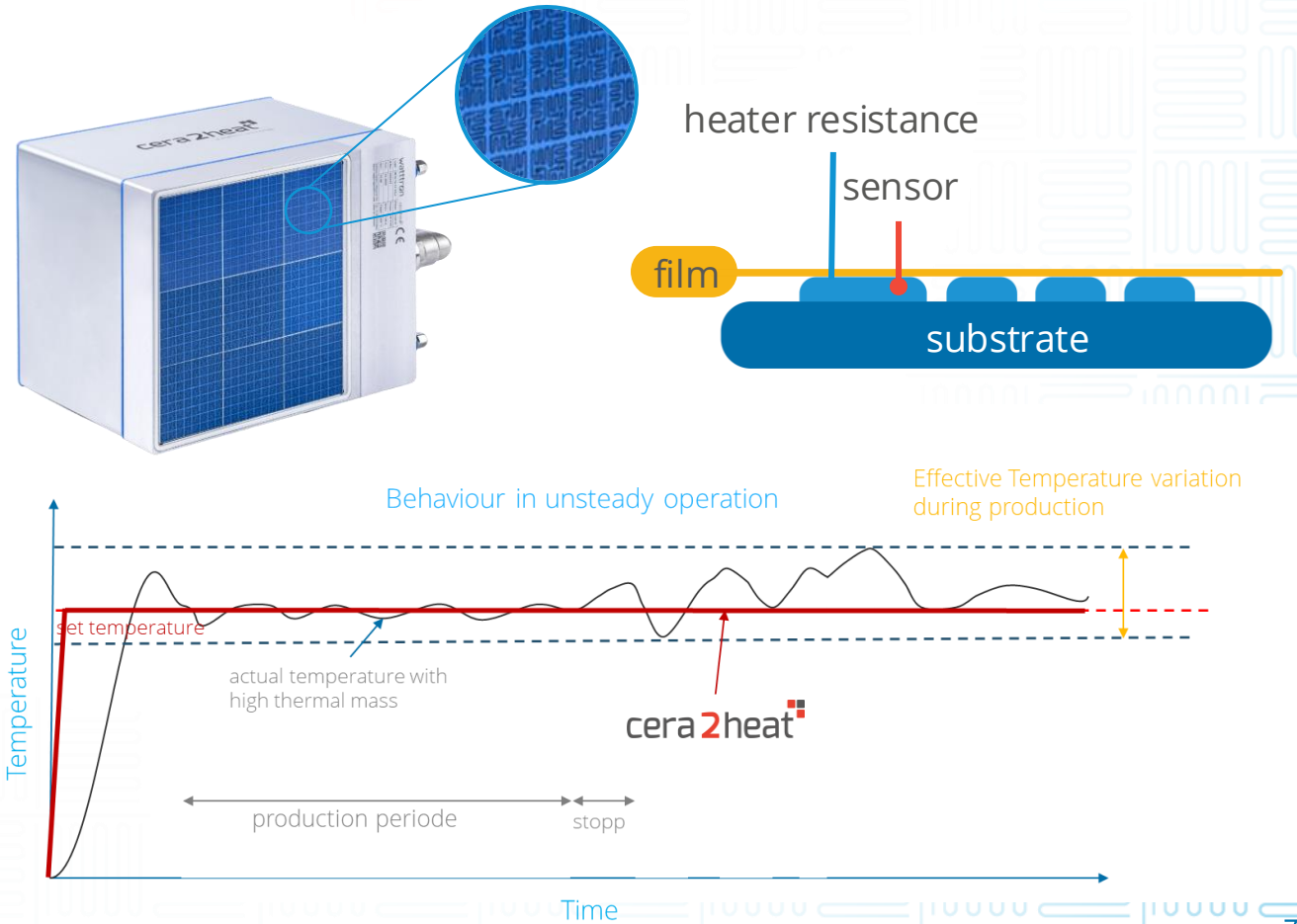
SEE DEMONSTRATION VIDEO

Dynamic Heating

Traditional Heating Plate



watttron Technology



What is the benefit?

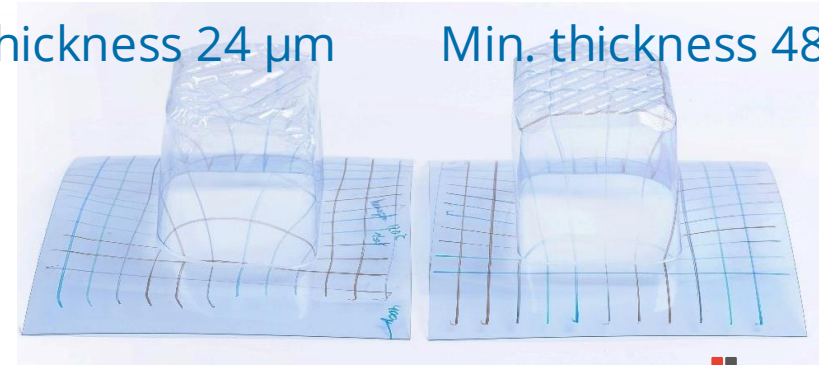


Minimization of material usage

- Reduction of material costs
- More material/roll - Reduction of downtime costs
- Reduction of tax burden (CO2- and plastic-tax)

Min. thickness 24 μm

Min. thickness 48 μm



cera²heat

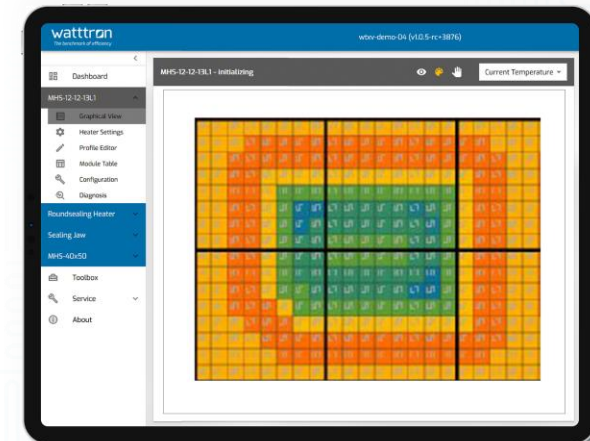


Precise temperature control

- Processing of mono-materials
- Reduction of downtime costs



Better packaging quality



Contact

See you soon!

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