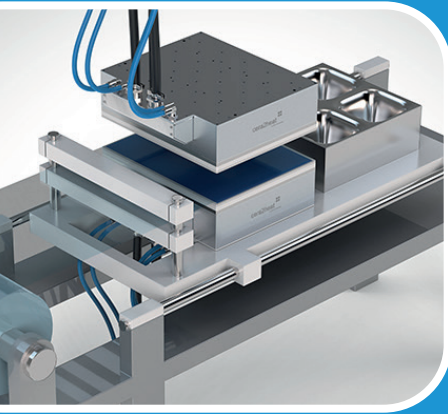


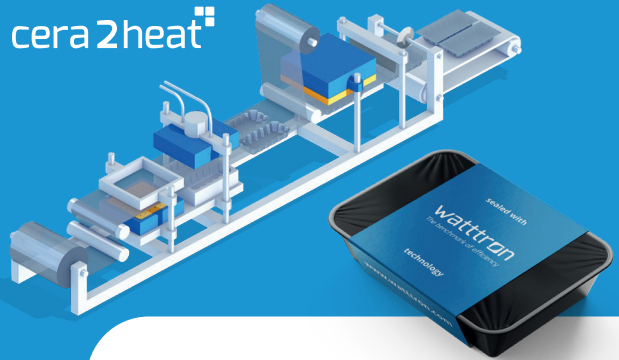
# Material Reduction in Thermoforming with Digital Hea- ting Technology

watttron  
*The benchmark of efficiency*

Matrix Heater



cera 2heat<sup>2</sup>







## Challenges

- Plastic and CO2 taxes lead to higher prices of thermoplastic films
- Input material thickness is selected based on the thinnest part of the packaging, causing often excessive plastic consumption
- Conventional measures allow very limited material savings and are very expensive

## Solution

- pixel-wise temperature control and profiling for **uniform wall thickness**
- Very localized heat supply for **best energy efficiency** and **lowest material treatment**

## Benefits

-  Fast heat up and fast cool down of tools
-  Control of wall thickness distribution
-  Precise temperature control allows switch to mono-material by same productivity
-  Saves up to 50 % of plastic material

## Contact

[www.watttron.com](http://www.watttron.com)

Telephone: +49 (0)351 27180800

E-Mail: [info@watttron.com](mailto:info@watttron.com)

# watttron

*The benchmark of efficiency*

## Matrix Heater Standard

MH



cera2heat<sup>®</sup>



**WORLDSTAR  
GLOBAL  
PACKAGING  
AWARDS**