wattron

The benchmark of efficiency

cera2seal
Flexible Sealing Head
SRHF

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Application Range and USPs

Glass Cans

- Can have un-even sealing surface
- Current flexible solutions do not provide an appropriate temperature control or are wearing down very fast
- very wide format ranges for glass cans

Cosmetics/Pharmezeutics

AI generated

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USPs

Mono-Material Processing

The accurate sealing temperatures enables processing of mono-materials with small processing windows (small sealing temperature window)

Money Saving

More cost-effective materials can be processed, achieving the same or even higher machine output with mono-materials

Energy Saving

Up to -50 %

watttron technology saves up to 50% energy during continious operation and up to 90% during ramp-up.

means: lower thermal load in the machine and therefore lower thermal stress and deformation of the packaging material

Fast Ramp-Up and Cool-Down

Typ. 10 to 20 °C/s

Due to the low thermal mass and the high power densitiy watttron sealing tools can quickly heat up and cool down. The system is ready for operation within seconds and can be turned-off in production stops for energy saving or safety reasons.

Easy Machine Integration

The fully-integrated design and the small components makes it possible to design sealing tools for every kind of machine and application to perfectly fit into the existing space.

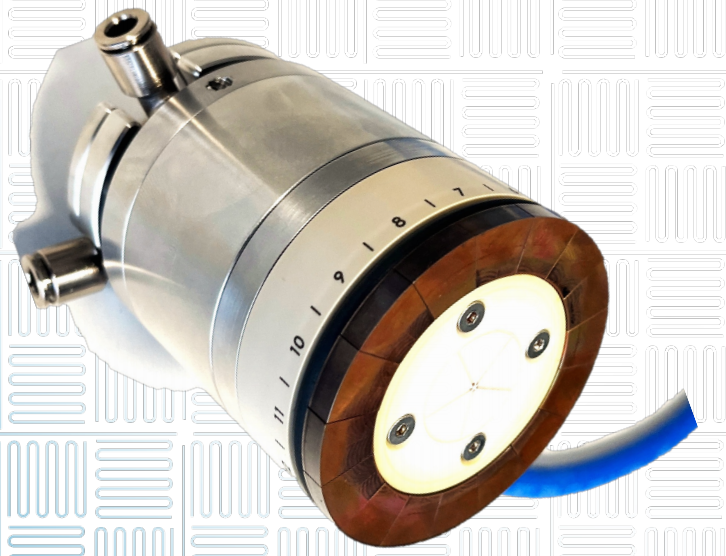
Increase of productivity

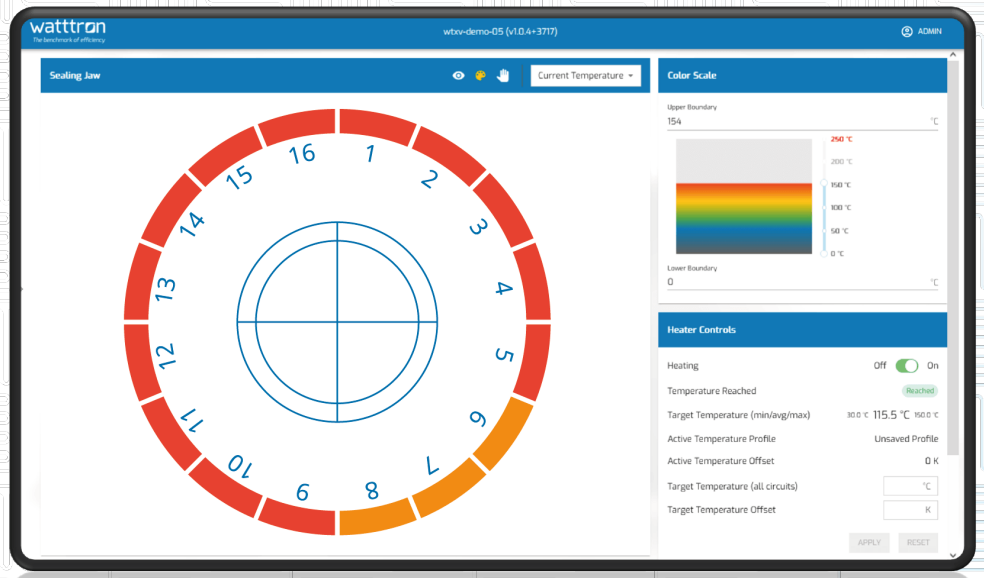
The reduction of incorrectly sealed parts increases the total quantity of good parts.

Core USPs

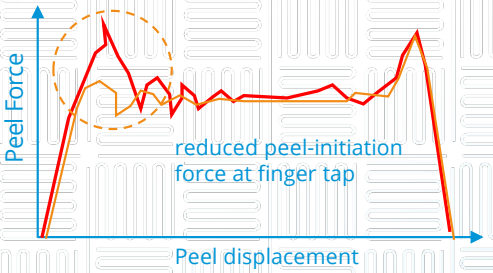
Full Temperature Control

- **Pixel-wise heating**
- The set temperature is kept very precisely (+/- 1°C)
- Temperature profiling may may assist easier to open the packaging by lowering seal temperature at the finger tab





Peel force peak reduced by lower temperature at finger tab



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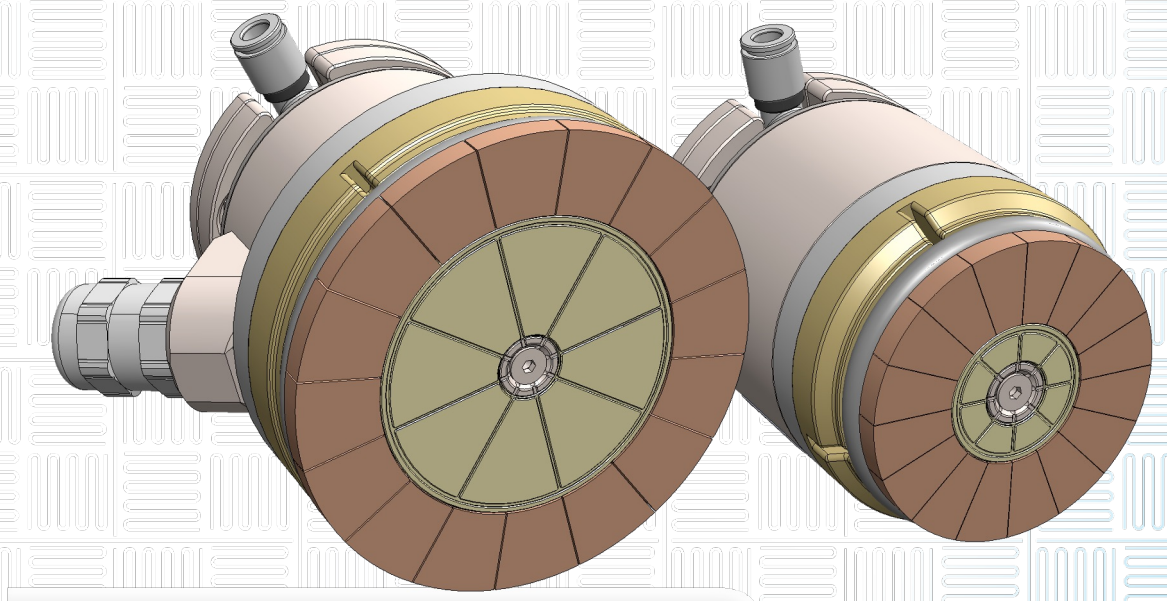
Flexible Sealing Head SRHF

Flexible Sealing Head

- 16 individual temperature controlled, spring loaded sealing area segments
- multi-format-Range:
  - from 34 to 62mm sealing diameter
  - from 63 to 95mm sealing diameter
- Angle-compensation
- Interchange-able long-lasting elastomer ring
- Vacuum functionality for lid holding and placement



diameter 63 to 95mm

diameter 34 to 62mm

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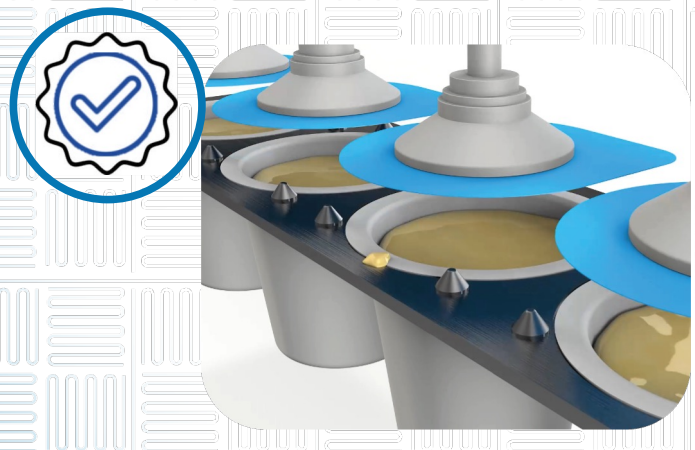
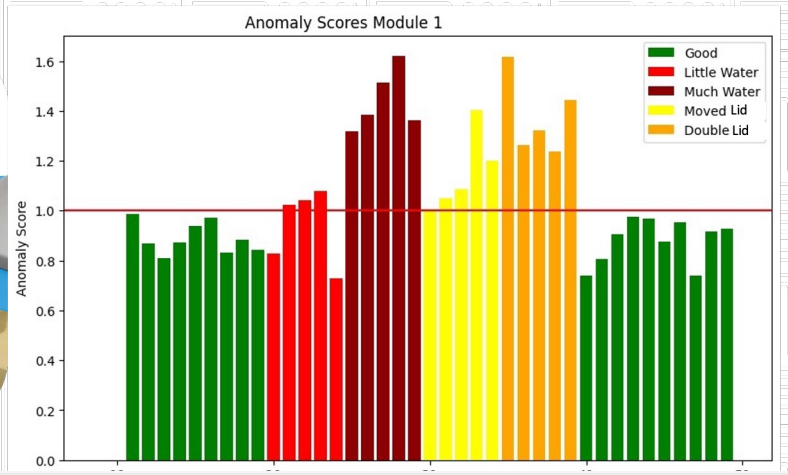
Temperature and Power Monitoring

- Lots of temperature data and power-usage (seal power) recorded as base for **Inline-Quality-Control**





Principle:

- Measuring power/heat flow for every single heat pixel – approx. every 100ms
- Contamination (fluid) means more heat needed to hold temperature (enthalpy of vaporization)
- Displaced or doubled lids also affect the heat flow (more/less heat)