



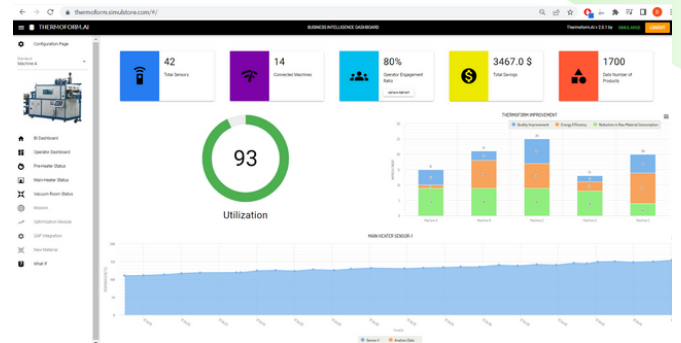
HEAT TRANSFER DIGITAL TWIN

Reduces the defect on thermoforming process up to 50%, reduces the material consumption at least 5% and increases the OEE by around 10%

SOLUTION DESCRIPTION

This Thermoforming Digital Twin (SaaS) specifically caters to **appliances and automotive companies**, going beyond mere monitoring solutions available in the market. It **prevents scrap generation and optimizes plastic thickness and energy consumption**, ensuring enhanced efficiency in production.

This advanced digital twin simulates both thermal effects and material deflection caused by thermomechanical loads. It utilizes temperature measurements to calibrate heating elements, employing radiative heat transfer formulations for precise adjustments.



MAIN BENEFITS

- ▶ Helps thermoformed plastic part manufacturers to reduce raw material & energy consumptions thanks to its optimization algorithm and defect prevention capability
- ▶ Reduces the thickness, scrap and cost
- ▶ Reduced cycle time
- ▶ Increased throughput

PRODUCT OWNER:


SIMULARGE



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