



CREATIVUS

BUILDING SMARTER MACHINES WITH SOLIDWORKS

ABOUT

Founded in 2024 and based in Johannesburg, South Africa, [Creativus \(Pty\) Ltd](#) builds custom machines, mechanical systems, and production lines.

The company specialises in robotic handling and practical machine development, taking ideas from early concept through to production-ready designs that are ready for the factory floor.

Creativus focuses on engineering solutions that are not only well designed, but also practical to manufacture, test and scale.

CHALLENGE

Creativus was developing a compact robotic machine that stores meals frozen, automatically transfers them through the cooking process, maintains them at serving temperature, and dispenses them hot and ready to serve - all within a single unit. The challenge was integrating robotics, heating and cooling zones, safety features, and smart controls into one tightly packaged machine.

SOLUTION

Implementing [SOLIDWORKS Design](#) and [SOLIDWORKS Flow Simulation](#).

RESULTS

- Validated machine layout, movement, and clearances before building hardware.
- Refined airflow and temperature control using Flow Simulation.
- Reduced physical test rounds through digital design adjustments.
- Carried final designs directly into manufacturing and supplier documentation.

“**SOLIDWORKS allows us to transform complex machine ideas into complete 3D systems, where the engineering can be refined with the clarity and confidence needed to bring real products to market.**”



Jarred Theron
Director