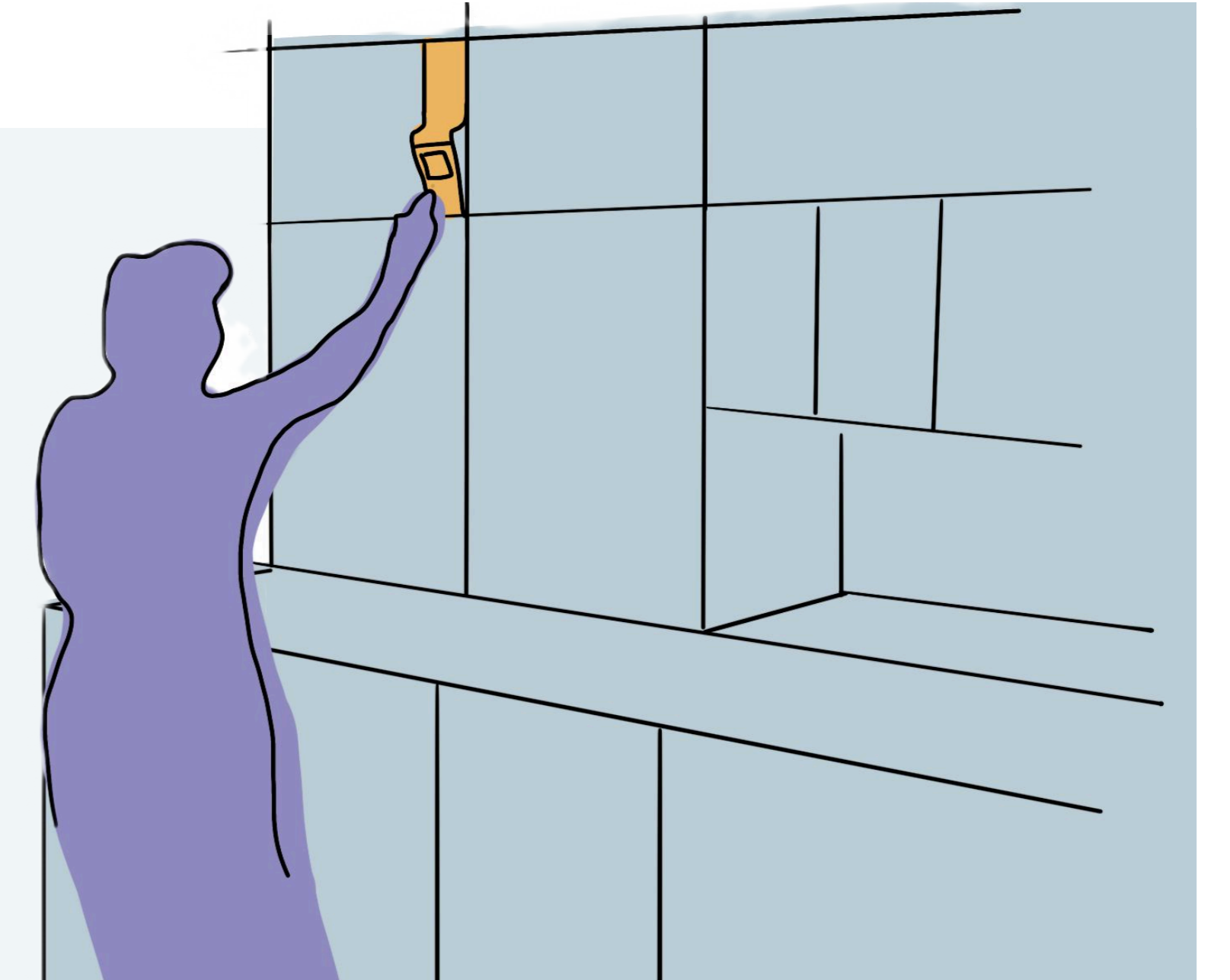


Expanding Collins Aerospace's Oven Portfolio Through Optimised Part Commonality

Context and problem definition

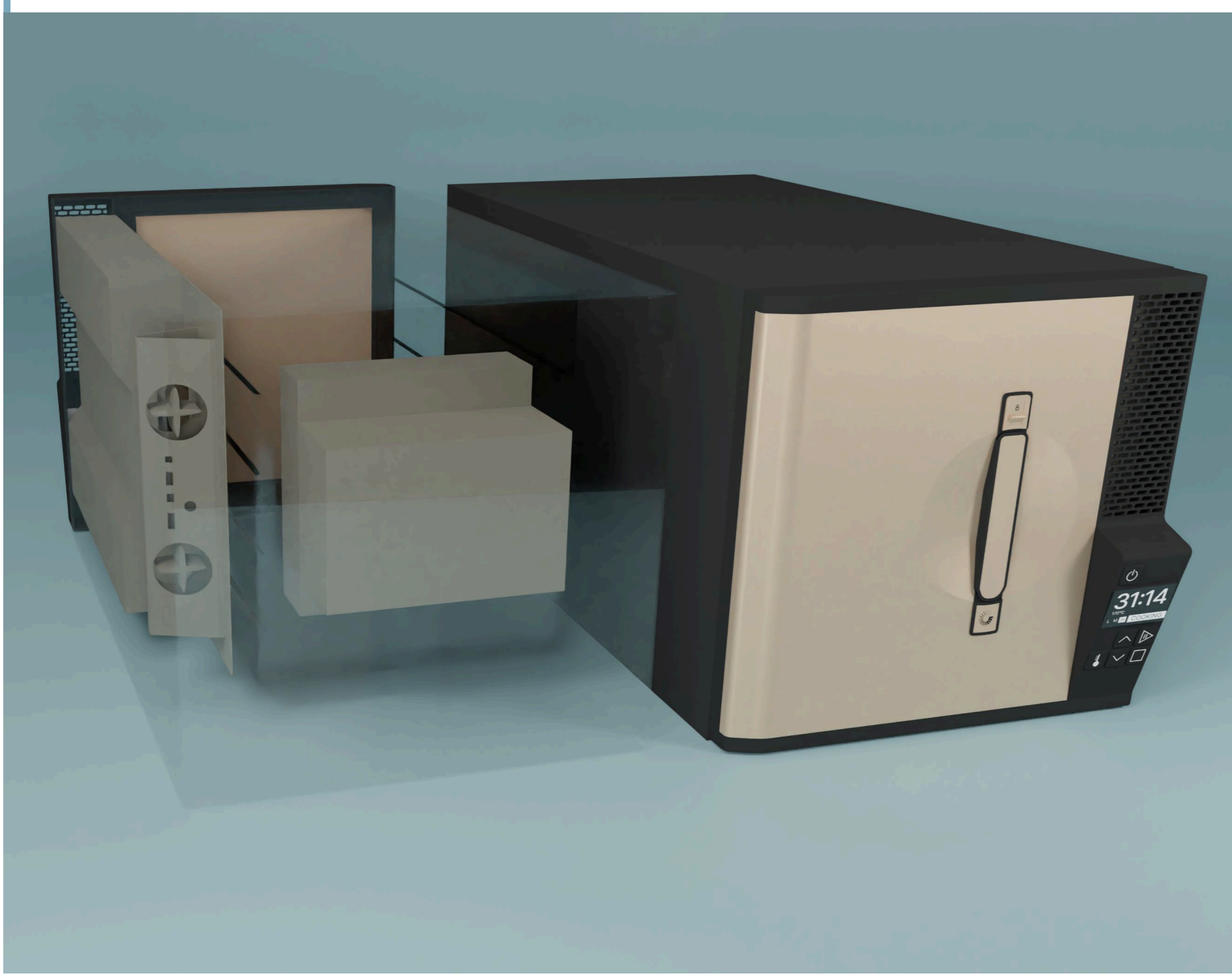
Collins Aerospace is a leading provider of aerospace solutions. Its galley inserts division specialises in designing in-flight galley equipment for commercial aircraft. These products are developed to meet strict aerospace industry standards and customer needs. Part of the galley inserts portfolio are convection and steam ovens, which heat up meals up to 170 °C, and bun warmers, which use static air to warm bread up to 80 °C. Currently, Collins Aerospace offers these products in standardised galley sizes. A limited demand for smaller sized ovens and bun warmers cannot be met due to high individual development costs of the products.

To address this problem in this project a modular concept for three products developed. The first product is a small oven, half the size of existing ovens. The other two are bun warmers, one with the same size of the oven, the other is half the size of this. Because of these small sizes, these products can be placed at small places high up in the galley. This means flight attendants have to use the products above shoulder height.



Technology

Using common components across an oven and two bun warmers, all integrated into industry-standard sized frames.



Business

The modular concept lowers development costs, making the addition of three new products, fitting the current design language, to the portfolio viable.



User

Angled interface on the side to provide easy and ergonomic use for flight attendants.



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