

Case Study

Kitting Solutions

Business Challenge

A large aircraft engine manufacturer was relying on its historical system for distributing C-class hardware.

In order to ensure parts were available at the point of use, a series of Direct Line Feed Carousels were introduced across their production facilities.

However, the solution was not designed to be a control measure for the parts. Through continuous improvement projects, it was clear that a more advanced delivery solution for C-class hardware was required in order to meet the increased production volumes and aerospace quality requirements.

Results

Through Incora's kitting services, the customer was able to create long-term savings, reduce complexity and waste and remove non-value-add internal activity. Operators had easy access to everything needed for part build. This streamlined operations in several ways.

- **33% reduction in engine build time:** the kits reduced their engine build takt time from 60 to 40 hours
- **100% of required product available:** all necessary parts were guaranteed to be in kit
- **Improved shop floor capacity:** kitting solution allowed the customer to remove the large carousels and redesign their production line
- **Reduction in Foreign Object Debris (FOD):** missing parts easily identified and reported
- **Simple implementation:** the solution was designed so it could be easily implemented across global facilities
- **Reduced inventory:** achieved through line feed solutions and improved capacity planning

Incora™ Solution

Incora implemented a fully customized kitting solution tailored to the customer's specifications. Each kit provided a consolidated quantity of material for a specific part of the engine build and was delivered directly to the corresponding build area.

The kits were further designed to be:

- Fully traceable with an audit trail for all parts and kits
- User-friendly, with layouts sequenced to meet build requirements while improving efficiency and build productivity
- Tamper-proof to ensure delivery of exact quantities needed
- Cost saving by reducing total acquisition cost through competitive part pricing
- Environmentally friendly with returnable and reusable packaging

**Incora now supplies
the customer
with 2000+ kits
every week across
multiple global
locations**
