



Transforming  
**tomorrow.**

## CASE STUDY

# Custom Military Transformer Delivers ROI

An established military parts supplier sought to increase the return on investment of its three-phase transformer through improved efficiency and reduced shipping costs.

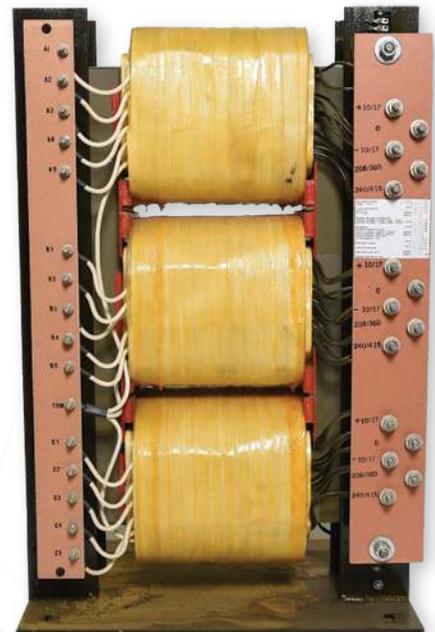
From engineering and design to packaging, SNC optimized the custom transformer and delivered a cost-savings solution that was on budget, on time and without defect.

## THE CHALLENGE

The Florida-based supplier's objective was to provide a smaller, yet more efficient three-phase transformer that would be less expensive to ship. SNC was charged with engineering a custom solution that out-performed the existing transformer in both function and form.

### The Custom Transformer Requirements

- Military application
- Quality sourcing and materials
- 150KVA
- 100 units
- Fully crated packaging



## THE STRATEGY

SNC's engineering team conducted an on-site analysis of the customer's current military transformer. After a review of size, specs, electrical capabilities and overall functionality, the SNC team produced a sample unit and documented testing plan for testing purposes.

After successful testing completion, SNC produced 100 more units. This required SNC to alter its manufacturing processes to accommodate for custom transformer winding. This included implementing an innovative hydrogen welding system, assembling the unit's large brackets and cleaning the insulation on magnet wires.

### Other custom features included:

- Advanced fabricating
- Tank fixtures for special large coil intake
- Specific assembly carts
- Special packaging procedures

The weight (1,000 lbs per unit) and quantity of the custom transformers required special detail to packaging and shipping. SNC collaborated with its customer to adjust the crating process for a peaked roof style, making pallet stacking impossible thereby minimizing unit damage and saving costs.

## THE RESULTS

All 100 units were created to meet the needed specifications and technical capabilities of the customer's previous three-phase, military transformer. The project was completed on time, within budget and ultimately produced a greater return on the investment. It required extensive analysis and new processes that resulted in a high-quality, defect-free custom transformer delivered to the customer without damage.

### Fitting all Custom Transformer Needs

When it comes to designing and building custom transformers for any application, we can help. Our team of engineers is eager to support you through the entire process, from concept to production to shipping.

Visit [sncmfg.com/custom](http://sncmfg.com/custom) to learn more about our custom transformer capabilities and to tell us more about your specific needs.



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