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# CASE STUDY

## CONTRACT ASSEMBLY FOR A MULTI-YEAR DEFENSE RADAR PROGRAM

### PROJECT OVERVIEW

A major defense OEM engaged PEKO to support a highly visible, multiyear program.

The program centered around the mechanical infrastructure of an advanced radar system. The core deliverable—a ruggedized 8'x8' precision assembly—serves as a mission-critical platform in both domestic and international defense markets.

### THE CHALLENGE

#### What were the problems

The OEM faced significant challenges due to the structure's complexity, strict tolerance requirements, and limited capacity among existing suppliers.

They needed a reliable U.S.-based partner to fabricate, assemble, and deliver high-precision units at production scale under a rigorous quality system.

- COMPANY:** DoD Prime Contractor
- INDUSTRY:** Defense & Military
- LOCATION:** United States
- TIMEFRAME:** Multi year program w/  
annual batch builds

### PROJECT RESULTS

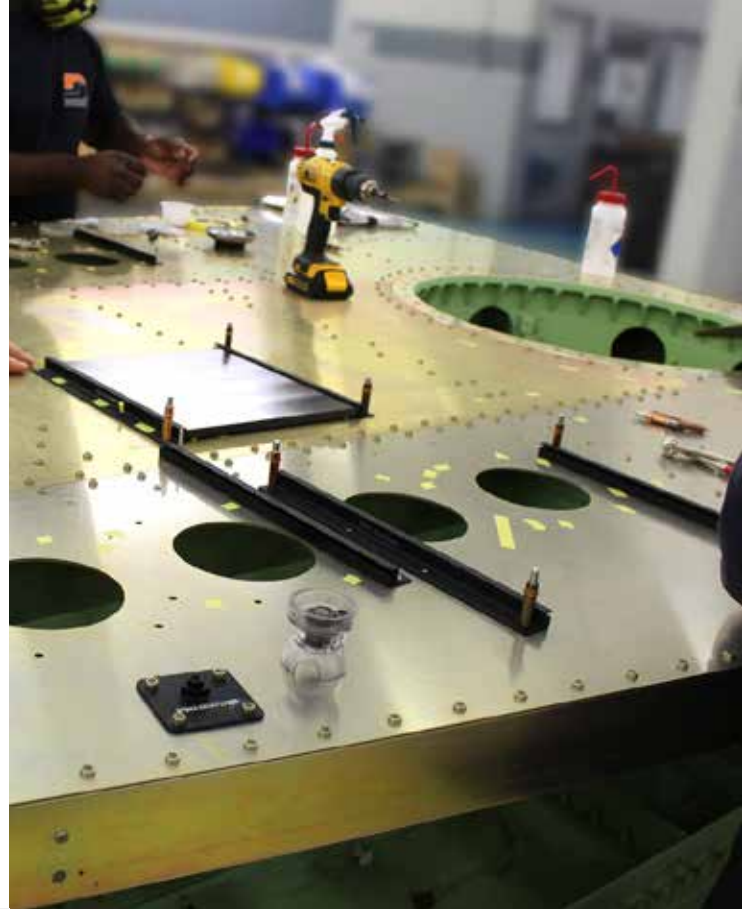
- ✓ Consistent, high-quality production
- ✓ Complete assemblies shipped to line
- ✓ Met all quality, compliance, and delivery requirements across builds
- ✓ Expanded OEM capacity by 40%
- ✓ Formation of long-term partnership

# THE SOLUTION

## What we proposed

PEKO manufactured nearly all parts in-house using large-format CNC machining and sheet metal fabrication processes. A dedicated assembly cell was developed and managed internally to ensure high throughput and consistent quality. The team utilized riveted fastener techniques and applied wet-paint coatings in controlled environments to meet stringent military specifications.

PEKO collaborated closely with the OEM to develop customized control plans, visual work instructions, and verification protocols. Source inspections were conducted at PEKO's facility to streamline delivery and maintain compliance. PEKO also managed all outsourced operations as part of a comprehensive turnkey assembly model.



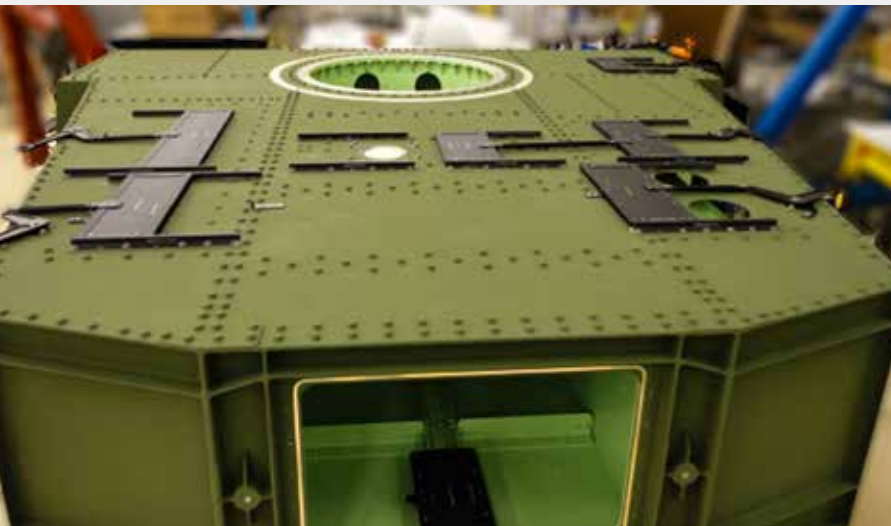
## CAPABILITIES UTILIZED

- ▶ Large-format CNC machining
- ▶ Sheet metal fabrication
- ▶ Mechanical assembly
- ▶ Wet paint coat finishing
- ▶ Test development engineering
- ▶ Supply chain management
- ▶ Quality control & assurance
- ▶ Packaging & logistics

## THE SUCCESS

PEKO enabled the OEM to expand production capacity by over 40%, easing bottlenecks while meeting all quality, delivery, and compliance requirements.

The program's success positioned PEKO as a long-term manufacturing partner for the radar platform and resulted in multiple follow-on contracts for similar defense infrastructure programs.



## CONTACT PEKO

### PEKO Precision Products

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