

**Case Study:** Shop Floor Support -  
Design of Foreign Object Debris  
(FOD) Prevention System

**Customer:** Boeing Integrated Defense Systems  
Philadelphia

**Services:** Development & Manufacturing

**Commencement:** April, 2007

**Sales Volume to date:** \$75,000



### Customer Profile

As a unit of The Boeing Company, Boeing Integrated Defense Systems is one of the world's largest space and defense businesses. Headquartered in St. Louis, Boeing Integrated Defense Systems is a \$30.8 billion business with a large rotorcraft facility located outside of Philadelphia, PA. They provide network-centric system solutions to their global military, government and commercial customers. Their achievements include:

- The leading provider of intelligence, surveillance and reconnaissance systems
- The world's largest military aircraft manufacturer
- The world's largest satellite manufacturer
- A foremost developer of advanced concepts and technologies
- A leading provider of space-based communications
- The primary systems integrator for U.S. missile defense
- NASA's largest contractor
- A global leader in sustainment solutions and launch services.

The Boeing Company develops and produces military rotorcraft and provides support services worldwide from its production facilities in Philadelphia and Mesa, Arizona. Among its products are the AH-64D Apache Longbow Attack Helicopter, CH-47 Chinook and the V-22 Osprey Tiltrotor Aircraft.

### Project Summary

Ehmke has entered into a Mentor-Protégé Agreement with the Boeing Company to help incorporate LEAN Enterprise initiatives throughout our entire organization. As a result, Ehmke works closely with Shop Floor Operations at Boeing Rotorcraft Division implementing a Foreign Object Debris (FOD) Prevention System. FOD damage accounts for hundreds of millions of lost revenue throughout the aerospace and aviation industries. Using LEAN principles, Ehmke has developed visual organizers for various curtains, covers and caps that are used to protect delicate instruments throughout Boeing's assembly line process.

