Benet Laboratories’ mission is to support the warfighter with high quality weapon systems and components as soon as they can be delivered. The 60 mm Mortar System is effective, lightweight and portable — a practical system for the terrain in Afghanistan. Because of its applicability, there is high demand for its manufacture and expedited delivery to the troops is paramount. In an effort to reduce the production cost and times, the U.S. Army Watervliet Arsenal initiated a Lean Effort program for the system; one of the program’s goals was to optimize the CNC programs used to manufacture the system Handle using Production Module 3D, a Third Wave Systems software modeling product.

**The Part:** Stainless steel 24-bladed fan blisk machined from a 600 mm solid workpiece, with features representative of customer components manufactured using Liechti machine tools

**The Results:**
- Cycle time savings of **20 percent**
- Optimized toolpath in use
- All time-critical component CNC programs for Watervliet Arsenal to be optimized in Production Module by Benet Laboratories

“The use of Third Wave Systems’ Production Module software is key to our rapid delivery.”
— Dan Baker, Benet Laboratories