



MANUFACTURING AND PROTOTYPING TECHNOLOGY FACILITY

LABORATORY INFORMATION FACT SHEET

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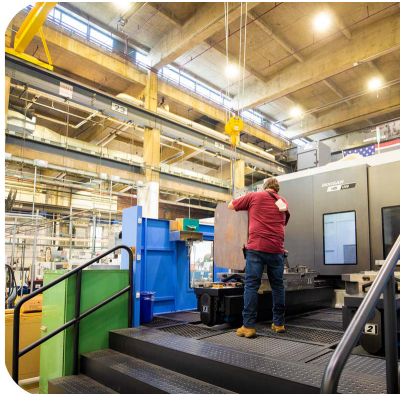


The Manufacturing and Prototyping Technology Facility delivers manufacturing expertise and prototypes for armament components and systems.

TECHNOLOGY/FACILITY DESCRIPTION:

The M&P Technology facility includes 100,000sq ft of adaptable manufacturing space used to create prototypes, demonstrate manufacturing operations, and validate technical data. The facility and expertise can support non-energetic operations and assembly

of parts ranging from small caliber subcomponents to large weapons, vehicle components and test fixtures. The facility is capable of a wide array of subtractive manufacturing operations, mechanical and welding joining techniques, sheet-metal forming, press operations, tooling design/creation, as well as the supporting inspection requirements.



EQUIPMENT AND EXPERTISE AVAILABLE:

- High precision 5-axis milling for small to large components
- High precision mill-turn capabilities up to 10 degrees of freedom
- Laser-cutting ferrous and non-ferrous metals including plate and tube raw-stock
- Manual and robotic welding
- Plate and sheet-metal press-brake forming
- Sheet-metal prototype container fabrication including seam welding
- Manual Mill/Lathe toolmaking capabilities
- Small component forming - multi-stage transfer press
- Manual Assembly/Refurbishment
- Wire and die electrical discharge machining
- Multi-station automated component assembly
- Multi-spindle screw machining
- Surface and profile grinding
- Production demonstration up to LRIP
- Technical Data Package analysis for Manufacturability
- Solid model generation and analysis
- Production cost estimation
- On-board vision and contact inspection equipment
- High precision optical and CMM standalone inspection