



OPTICAL FIRE CONTROL LABORATORY

LABORATORY INFORMATION FACT SHEET

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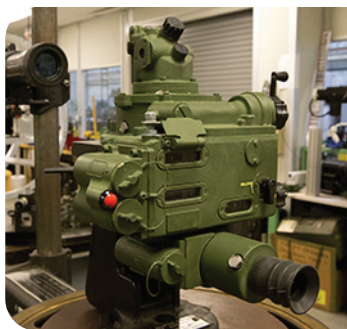


The Optical Mechanical Fire Control Lab is a 1000 square foot climate controlled space used to facilitate the repair, calibration, overhaul and inspection of optical fire control equipment used for towed artillery and mortars weapon systems including the M777 Series and M119 Series Towed Howitzers and the Paladin Self Propelled Howitzer.

TECHNOLOGY/FACILITY DESCRIPTION:

The Optical Fire Control Lab capabilities include disassembly, diagnostics, repair, reassembly,

calibration, inspection, optical adjustments, nitrogen purging and charging and magnetic compass alignment. Along with repair and test of Optical Fire Control Systems, the Lab also holds training sessions for test and repair upon request. Optical fire control assets that are common to the lab include but are not limited to: M171 Series Mounts, M172 Series Mounts, M187 Series Mounts, M186 Series Mounts, M18 Series Quadrants, M17 Series Quadrants, M138 Series Telescopes, M90 Series Telescopes, M137 Series Panoramic Telescopes, M1A2 Gunner's Quadrant, M1A1 Aiming Circle, M1A1 Infinity Collimator and M154/M140 Alignment Device. The Optical Fire Control Lab also contains equipment required to complete weapon system bore sight and alignment, along with survey, gun laying and target alignment. The OFC lab is also conveniently located inside the Prototyping facility making item unique repairs and "one-off" modifications and fixturing a quick and easy process.



EQUIPMENT AND EXPERTISE AVAILABLE:

- Three azimuth test stands
- Two straight telescope test stands
- Two cross leveling fixtures
- Equipment required to complete weapon system bore sight and alignment, along with survey, gun laying and target alignment
- Disassembly
- Diagnostics
- Repair
- Reassembly
- Calibration
- Inspection
- Optical adjustments
- Nitrogen purging and charging
- Magnetic compass alignment