

GENERAL DYNAMICS
Ordnance and Tactical Systems
Marion Operations

MARION OPERATIONS

Load, Assemble,
& Pack Operations

OTS FACILITIES

MARION, IL

LOCATION OVERVIEW

The General Dynamics' facility in Marion, IL was originally built by the United States Department of Defense to support World War II. There were 14 areas developed across 40,000 plus acres, which employed over 10,000 people to produce bombs and large munitions. In 1947, the "Illinois Ordnance Plant" was transferred from the United States Department of Defense, to the United States Department of Interior. Olin began their lease on this location in 1956 and has had a steady presence ever since. Initially producing solid propellant products, Olin gradually grew its portfolio to include medium caliber ammunition. In 1997, Olin spun off the medium caliber ammunition business, which became Primex Technologies. In 2001, General Dynamics purchased Primex Technologies. Marion Operations has 133K square feet of manufacturing space and 629K square feet of storage space. General Dynamics also owns its own Ballistic Test Range just 7 miles north of the facility totaling 289 acres.

FAST FACTS

- » 2001 – General Dynamics acquires Primex Technologies
- » 2005 – Installed a fully automated production line for Mortar Propelling Charges
- » 2010 – Stood up production line for LW30mm M789 HEDP for Projectile Assembly
- » 2011 – Transitioned the Material Staging location into a 120mm Tank Load, Assemble, and Pack operation
- » 2015 – Installed fully automated Demilitarization line to tear down 105mm and 120mm Tank ammunition for destruction or recapitalization
- » 2019 – Set up 50mm assembly operation



**20MM MEDIUM
CALIBER AMMUNITION**



PGU27 PGU28 PGU30 M53 API M55 TP M56 HEI MK149 MK244

**25MM MEDIUM
CALIBER AMMUNITION**



M791 M792 M793 M910

**30MM MEDIUM
CALIBER AMMUNITION**



PGU15 PGU14 PGU13B M788 M789 XM950 XM1198 MK239 MK264 PGU13D/B PGU15A/B

**60MM, 81MM AND 120MM
MORTAR PROPELLING CHARGES**



**120MM LARGE
CALIBER AMMUNITION**



M865 TPCSDS-T

KE-W A1

M490 TP-T

IM HE-T

M1002 TPMP-T

M1028 CANISTER



KEY PROCESS CAPABILITIES

Marion Operations is an industry leading, fully developed Load, Assemble, and Pack operation. Marion is a prime producer of a large selection of 20mm, 25mm, and 30mm Cartridges; 60mm, 81mm, and 120mm Mortar Propelling Charges; and 8 different configurations of 120mm Tank ammunition. Most of the manufacturing equipment is custom designed and micro-processor controlled. General Dynamics leverages the abilities of sophisticated inspection systems, which include X-Ray, High-Definition Vision, and Eddy Current machines. There are also 16 operational robots which can handle parts ranging in weight from a few ounces to 150 pounds.

Even though Marion Operations focuses heavily on Load, Assemble, and Pack operations, other capabilities include: loading and assembly of High Explosive and Multi-purpose projectiles, trace loading, incendiary and trace composition fabrication, and ignition pellet material mixing and pressing. This includes the manufacturing and assembly of 20mm Semi Armor Piercing High Explosive Incendiary, 25mm and 30mm High Explosive Incendiary, and 30mm High Explosive Dual Purpose projectiles.

