The Brutus 155MM MHS directly supports the mission of field artillery to destroy, neutralize or suppress the enemy. This innovative system re-purposes existing cannons, fire control equipment, basic issue items and vehicles to deliver enhanced firing capabilities, mobility and reduced crew vulnerability.

By leveraging fielded cannons, existing ballistics kernel and reusing the fielded prime mover, the “time to field” is significantly improved. Additionally, reduced testing, commonality of parts, reduced maintenance needs and limited training requirements all result in an affordable and sustainable solution – backed by the global lifecycle support from AM General.

REVOLUTIONIZING THE DELIVERY OF FIRES
**Mobility**

The Brutus 155MM MHS greatly increases artillery batteries’ responsiveness and provides significant enhancements to emplace, shoot, displace and maneuver over traditional towed howitzer systems. It features the off-road mobility to keep pace with its supported maneuver units and enables the firing units to deliver timely and responsive direct and indirect fires.

**Survivability**

“Shoot and scoot” capability enables rapid displacement after firing that greatly enhances the survivability of the crew from counterfire or attack drones. Firing batteries and platoons can emplace, fire and displace before enemy units can find, fix and return fire.

**Lethality**

An advanced digital fire control system featuring enhanced navigation, integrated muzzle velocity radar and improved sighting/targeting capabilities greatly enhances lethality. The system can provide precision fires in a fraction of the time of traditional towed howitzer units. The 155MM cannon delivers high explosive rounds at a range of up to 18.75 miles.

**Maintainability**

The hybrid hydro-pneumatic soft recoil system greatly reduces the number of components compared to traditional towed cannon systems (250 vs. 2,500). With 90% fewer parts, maintenance is greatly simplified, and repair is accomplished at the lowest level. The elevation and direction system incorporates a simplified design that significantly increases reliability.

**Reduced Manpower**

Crewed with 5-7 personnel, based on mission needs, the system frees up personnel who are normally required to emplace, fire and displace a towed howitzer. The system enables fielding of additional howitzers without increasing manpower, which results in even greater lethality.

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**Weapon System 155 mm Mobile Hybrid Soft Recoil Howitzer**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caliber</td>
<td>155 mm (6.10 in.)</td>
</tr>
<tr>
<td>Length</td>
<td>25 ft. (7.6 m)</td>
</tr>
<tr>
<td>Width</td>
<td>8 ft. (2.44 m)</td>
</tr>
<tr>
<td>Height</td>
<td>11 ft 6 in. (3.5 m)</td>
</tr>
<tr>
<td>Total System Weight</td>
<td>29,620 lb.</td>
</tr>
<tr>
<td>M776 Cannon w/Breech</td>
<td>3,700 lb.</td>
</tr>
<tr>
<td>Cradle/Recoil Mechanism</td>
<td>1,170 lb.</td>
</tr>
<tr>
<td>Total Tipping Parts</td>
<td>4,870 lb.</td>
</tr>
<tr>
<td>Top Carriage Group</td>
<td>1,500 lb.</td>
</tr>
<tr>
<td>Total w/o Fire Control</td>
<td>6,370 lb.</td>
</tr>
<tr>
<td>M171A1 Telescope Mount</td>
<td>75 lb.</td>
</tr>
<tr>
<td>M17A1 Fire Control Quadrant</td>
<td>8.5 lb.</td>
</tr>
<tr>
<td>M137A2 Panoramic Telescope</td>
<td>24 lb.</td>
</tr>
</tbody>
</table>

**MG9000 Digital Fire Control System**

- Crew Requirements: 5-7 personnel (extreme conditions: 5 personnel)
- Cannon: 155 mm, M776
- Projectile Travel: 200 in.
- Caliber: 39
- No. of Grooves: 48
- Muzzle Brake Double Baffle: 250 lb.
- Breech Block: Screw Block
- Recoil Mechanism: Hydro-Pneumatic, Soft Recoil
- Carriage: Aluminum Alloy
- Traverse limits: 6,400 mils (360°)
- Elevating limits: 89 to 1,173 mils (-5° to +72°)

**Temperature Range**

- Lower Limit: -40°F (-40°C)
- Upper Limit: +125°F (+52°C)

**Fire Control - Optical**

M1372A Panoramic Telescope
M171A1 Telescope Mount

**Fire Control - Digital**

Pointing and Aiming System; Inertial Navigation System; GPS Antenna; Muzzle Velocity Radar System; Direct Fire Sight with Laser Range Finder; Gunners Display Unit

**Ammunition**

Uses all ammunition currently fired by M776 Cannon

**Rate of Fire**

- Maximum: 5 rounds per minute
- Sustained: 2 rounds per minute

**Maximum Range**

- Charge 5: 15.5 mi. (25 km)
- RAP: 18.75 miles (30 km)