RAPID EQUIPPING FORCE
PRODUCT OVERVIEW

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09/2015
## COMPANY SNAPSHOT

- Founded in 1981, CSI is the recognized leader in the design, manufacture and marketing of security products for the global defense and law enforcement markets.
- CSI is the premiere supplier of less-lethal systems for riot control, police tactical teams, corrections officers and military units.
- CSI’s blue-chip customer base includes the U.S. Army, U.S. Marine Corps, U.S. Navy and a majority of the US law enforcement, as well as foreign military and security forces around the world.

### Patents & Certification
- Over 35 Patents Issued
- Certifications:
  - Qualified Small Business
  - ISO 9001 Certified
  - Explosive Certified
  - ATF Controlled
  - ITAR Compliant
  - Additional Qualifications
  - 4145-26-M Safety Compliant

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## LESS LETHAL PRODUCT LINE MUNITIONS OVERVIEW

<table>
<thead>
<tr>
<th>Non-Lethal Launching Systems</th>
<th>Tactical Munitions</th>
<th>Flash-Bang &amp; Sting-Ball Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENOM™</td>
<td>Warning, Distraction &amp; Breaching Munitions</td>
<td>M104</td>
</tr>
<tr>
<td>VENOM™ MC</td>
<td>FRAG-12™</td>
<td>MK20</td>
</tr>
<tr>
<td>VENOM™ V-TAC</td>
<td></td>
<td>USMC Sting-Ball</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Penn Arms Launchers</th>
<th>Fuzes &amp; Components</th>
<th>Impact Munitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>12GA, 37MM, &amp; 40MM (XM328)</td>
<td>Fuzes, M213, M228, M201</td>
<td>12GA, 37MM &amp; 40MM</td>
</tr>
<tr>
<td></td>
<td>Precision Components</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trip Wire</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Defense Aerosol &amp; Vapor Systems</th>
<th>Chemical &amp; Smoke Munitions</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duty Patrol</td>
<td>Grenades &amp; Projectiles</td>
<td>Equipment</td>
</tr>
<tr>
<td>Crowd Management</td>
<td></td>
<td>Soft Goods</td>
</tr>
<tr>
<td>Vapor System</td>
<td></td>
<td>Handcuffs</td>
</tr>
</tbody>
</table>

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CSI employs over 265 personnel at its facility in Jamestown, PA.

The facilities span over 150 acres, 70,000+ square feet of manufacturing space, and 20 buildings.

As the industry leader in product automation, CSI utilizes state of art machinery and equipment.

Because of the high volume manufacturing processes, CSI places consistency and quality as the top priority.

CSI employs a data-driven and metric based approach to its manufacturing process in order to adhere to strict tolerances for its product line.

CSI has a full indoor and 400 meter outdoor range for live fire testing and evaluation.

CSI facilities are non-union and ISO 9001 certified.
VENOM Launching System
integrated mount on military vehicle/turret

CAPABILITY OVERVIEW

- Ten 1.65 OD, IP addressable tubes
- Smooth bore, disposable tubes
- Non-Lethal force multiplier
- Convoy force protection
- Modular design for variable effect
- Variable Payload
- Variable Range
- Static mounted on a MCTAGS US Army & USMC blast shields
- Fielded by the USMC (NSN # 1055-01-563-5749)

Deployable Rounds
- Flash-Bang
- Sting-Ball
- Colored Smoke
- White Smoke
- CS/CN Grenades
- Custom Rounds

Future Developments
- Smart Munitions
- Super Long Range
- Ext. Range Impact Munitions

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**VEENOM® MC**

- Multi-Caliber capabilities: 37mm, 40mm, & 66mm
- Can be deployed remotely or with direct tethered fire
- Non-Lethal force multiplier
- Convoy force protection
- Modular design for variable effect
- Variable Payload
- Variable Range

**Deployable Rounds**
- Flash-Bang
- Sting-Ball
- Colored Smoke
- White Smoke
- CS/CN Grenades
- Custom Rounds

**Future Developments**
- Smart Munitions
- Super Long Range
- Ext. Range Impact Munitions

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 Overview of VENOM V-TAC:

- Ten IP addressable tubes
- Compact & tactical design for versatility
- Non-Lethal force multiplier
- Convoy force protection
- Modular design for variable effect
- Variable Payload
- Variable Range

**Deployable Rounds**
- Flash-Bang
- Sting-Ball
- Colored Smoke
- White Smoke
- CS/CN Grenades
- Custom Rounds

**Future Developments**
- Smart Munitions
- Super Long Range
- Ext. Range Impact Munitions
### ROUNDS AND EFFECTS: V3037 & V TAC

<table>
<thead>
<tr>
<th>Area/Impact Type Rounds</th>
<th>Operational Range</th>
<th>Elevation Angle (degrees)</th>
<th>Operational Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effects</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Multi 7 Smoke</td>
<td>Low muzzle velocity (very low Ballistic Coefficient)</td>
<td>80-100m</td>
<td>105-125m</td>
</tr>
<tr>
<td>7 Smoke pellets, each with burn time of approximately 30+/−10 seconds (ignite at muzzle)</td>
<td>Impact area dependent upon muzzle elevation</td>
<td>150m</td>
<td>250m</td>
</tr>
<tr>
<td>2 Super Long Range Smoke</td>
<td>Medium muzzle velocity-impact area dependent upon muzzle elevation</td>
<td>150m</td>
<td>250m</td>
</tr>
<tr>
<td>Single spin stabilized smoke projectile with burn time of 20+/−5 seconds (begin emission 1 seconds from muzzle)</td>
<td>450m</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aerial burst/Time Type Delay Rounds</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Effects</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 M4094 Multi 4 Flash Bang</td>
<td>Low muzzle velocity (muzzle velocity-4 flash bang submunitions)</td>
<td>40-65m</td>
<td>40-85m</td>
</tr>
<tr>
<td>4 flash bang submunitions, each with greater than 1 million candela and 165 dB overpressure</td>
<td>Time delays from 1 to 4 seconds with very low Ballistic Coefficient. Muzzle elevation affects burst height at greater extent than range.</td>
<td>140-180m</td>
<td></td>
</tr>
</tbody>
</table>

### ROUNDS AND EFFECTS: VENOM MC

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<tr>
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<td>250m</td>
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<tr>
<td>Single spin stabilized smoke projectile with burn time of 20+/−5 seconds (begin emission 1 seconds from muzzle)</td>
<td>450m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 High Payload Smoke/ Iritant Smoke</td>
<td>Medium muzzle velocity-impact area dependent upon muzzle elevation</td>
<td>75m</td>
<td>100m</td>
</tr>
<tr>
<td>66 mm smoke or irritant smoke grenade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aerial burst/Time Type Delay Rounds</strong></td>
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</tr>
<tr>
<td><strong>Effects</strong></td>
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</tr>
<tr>
<td>3 Extended Range Warning Munitions (ERWM)</td>
<td>Low muzzle velocities up to 300m, increasing to around 850 fps for 1000m round (time delays from 1 to 4 seconds)</td>
<td>100m</td>
<td>200m</td>
</tr>
<tr>
<td>Single spin stabilized flash bang projectile with greater than 3 million candela and 170 dB overpressure</td>
<td>Burst height to greater extent than range.</td>
<td>450m</td>
<td></td>
</tr>
<tr>
<td>4 M4094 Multi 4 Flash Bang</td>
<td>Low muzzle velocity-4 flash bang submunitions (time delays from 1 to 4 seconds)</td>
<td>40-65m</td>
<td>40-85m</td>
</tr>
<tr>
<td>4 flash bang submunitions, each with greater than 1 million candela and 165 dB overpressure</td>
<td>Time delays from 1 to 4 seconds with very low Ballistic Coefficient. Muzzle elevation affects burst height at greater extent than range.</td>
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### Sample of VENOM MC Munitions & Effects

- **Delivery of high payload (seven projectiles) of irritant (CS) or obscuration smoke over a wide area from the given distance**
- **Delivery of smoke as a deterrent or determination of intent or warning capability to unknown approaching vehicles or persons**
- **Delivery of single projectile of irritant (CS) or obscuration smoke over a wide area from the given distance**
- **Delivery of smoke as a deterrent or determination of intent or warning capability to unknown approaching vehicles or persons**
- **Delivery of a single warning/determination of intent capability at varying distances out to extended stated ranges**
- **Delivery of four flashbang submunitions in a vertical pattern perpendicular to the ground with the highest/uppermost munition detonating first**
- **Use in crowd control, vehicle, vessel and checkpoint escalation of force scenarios as the pre-lethal option**

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