



## ROAD RANGE™

Meggitt Training Systems' Road Range™ is a self-contained mobile firearms training facility that integrates live-fire and virtual simulation capabilities to provide a total weapons training solution in a transportable environment. Law enforcement and military agencies around the world use the Road Range™ for a flexible alternative to traditional firearms training options.

The ballistically secure trailer range is equipped with systems and components to produce a three position, state-of-the-art, live fire range. The Road Range™ can also be customized to provide training for less lethal and non-lethal options such as verbal commands, baton, chemical spray and TASER®.

The Road Range™ is distinctive, offering a traveling training environment that provides much-needed range time for law enforcement, militaries and security forces. By bringing the range to the users, departments are able to conduct routine qualifications for their officers or units based on their timeframe and requirements.

The Road Range™ provides a comprehensive solution for marksmanship, sustainment and judgmental training including force escalation/de-escalation, use of force and shoot/no shoot training.

The Road Range™ also saves money.

- Removes the need for a permanent shooting range, capitalizing on operations and maintenance savings
- Eliminates property taxes associated with permanent installations
- Allows departments to subcontract the management, maintenance and associated training to a third party
- Savings through on-site training versus moving to a permanent training facility
- Environmentally friendly solution that saves on costly clean up

### Road Range™ features

#### Trailer

The standard Road Range™ is a three-lane shooting range built inside an over-the-road 53 ft. trailer that is USDOT certified for use on all unrestricted roads. It is powered by standard electrical connections or can be equipped with an optional built-in generator.





The interior of the Meggitt Road Range™ is designed with a range-control room separated from the shooting range. This division creates an 'airlock' entrance vestibule between the shooting range and the exterior of the trailer to help maintain range ventilation (similar to permanent fixed facilities). Each area has independent HVAC and lighting systems. The area's dividing wall has the same ballistic capabilities as the shooting range.

Meggitt's Road Range™ systems are customizable for many applications, including a crime lab, simulation range and advanced training, and can be configured using multiple trailers.

Additional arrangements include:

- Side-by-Side: six shooting lanes; operates as one range or as two separate, three-position ranges
- End-to-End: three shooting lanes; units combined end-to-end; 75 foot distance

### GranTrap™ bullet trap

The Road Range™ is equipped with Meggitt's GranTrap™, a granular rubber bullet trap that captures rounds virtually intact, utilizing the latest technology in bullet capture and containment. The Gran Trap™ is designed to stop incoming rounds by employing the most efficient, safe and proven practices available in the industry, including:

- A cleaner and safer range environment
- Simplifies the lead removal process
- Extends the life of ventilation air filters
- A quieter solution by eliminating noise from rounds impacting steel plates



### Shooting stalls

Clear-view shooting stalls organize the firing line into three defined shooting positions, provide a location for mounting individual shooter controls and are a standard feature on the Road Range™. Each shooting stall includes:

- Swing down shooters shelf with resilient surface, raised edges to prevent accidental drop off, and a recessed tray area
- Wing or full gate barricades to simulate shooting around obstructions
- Acoustical blast shield extensions to further shelter adjacent shooters

The clear ballistic panel gives the range operator and shooters an unobstructed view of the firing line, while also providing protection from the hazard of a misdirected shot.

### Security system

The firing line is monitored by a photoelectric system for indiscriminate movement forward of the line. A violation will trigger an alarm to alert all range occupants of the intrusion and automatically edge the targets and halt further target movement.

### XWT Gen 3

The XWT wireless, 360° turning target retrieval system moves along a rail system. The quiet, smooth, low-maintenance wireless carrier is easily operated and programmable, essential for successful training and usability.



The operator can easily control courses of fire, whether basic qualifications or more advanced reactive and decision-making shooting exercises. They can also control the speed of the targets, which is great for "Advanced/Retreat" training.

### RangeMaster™ 9000

The RangeMaster™ 9000 (RM9K) is an easy-to-use range control system, offering instructors the ability to write, store and run training scenarios. The RM9K can control any, all, or a combination of lanes, and optional lanes may be added, including:

- Control of pop-up and secondary target systems to improve the user's performance in a variety of scenarios
- Security systems for facility lock-down and safety while training exercises are in progress
- Targets follow commands to travel, conceal, expose or edge as directed

Complementing the RM9K system, the RM10K provides complete system control through wireless tablets, allowing personnel to leave the control room while maintaining complete control of the range. The tablet's portability allows instructors the freedom to interact with shooters at the line and offers immediate feedback and correction.



### Control room

A separate control room provides the range operator full control of the RoadRange™ and all components. An audio system allows the range operator to communicate with the shooters, and the ballistic glass window provides the operator with a visual view of the firing line and range. Controls for the target system, firing line security system, target and general lighting, ventilation systems, and generator are all easily accessible to the range operator. A heating and cooling unit in the control room provides a comfortable climate controlled environment for the range operator.

### Ventilation system

A 100% outside air system, or purge system, comes standard in the Road Range™. Outside air is drawn in and transformed into laminar airflow to produce an average 75 fpm airflow across the firing line. The exhaust air is filtered through two stages of filtration with a final stage of 99.97% HEPA filtration before being safely discharged.

Road Range™ can be customized with these optional systems:

- Power Generator
- HVAC Recirculation System
- Infrared Heaters
- Split Jacks
- HEPA Vacuum System

### Electrical system

The electrical system is 208 60Hz 3 phase input power, configurable for 220V single phase, 60 Hz and/or 220V 50 Hz, and is upgradeable to on-board 20 KW power supply with fuel capacity for 30 hours of run time.

Road Range™ lighting includes switched fixtures for general/service lighting at the firing line and target areas, and dimmable fixtures for target lighting arranged in banks for target exposure distance. The range operator room has both general lighting and dimmable track-lighting fixtures, and an exterior fixture above the stairs at the trailer entrance.



### Ballistics

Meggitt's Road Range™ ballistics are designed for each customer's needs. To maintain the safety of range users, occupants and persons outside the trailer, Meggitt Training Systems specifically prohibits the use of any armor-piercing ammunition, tracer rounds or incendiary devices in the Road Range™.

Wall and floor lining at a minimum provides protection/containment of shots from all handguns and shotguns with velocities of 900-2000 ft/sec and 2200 ft.-lbs. of energy. Customized ballistic protection includes all handguns and rifles with velocities of 900-3600 ft./sec. and up to 3600 ft.-lbs. of energy (including 5.56/.223 caliber and 7.62/.308 caliber).



**Acoustic material (model AAF)**

The Road Range™ acoustics are compliant to ASTM E-84 Class 1 flammability requirements and UL1715 corner burn trials. The material has successfully completed a variety of tests including:

- Passes UL code 94 (electronics)
- Passes ASTM G 21 (fungus resistance) and UL 121 (microbial growth)
- Sound Absorption Coefficients per ASTM C423-90a

Frequencies (Hz) 125 250 500 1,000 2,000 4,000 NRC Mounting  
Coefficients 0.07 0.26 0.77 1.01 0.99 1.00 0.75 B

**Rubber 'combat floor' material**

The combat floor material has a density of 50 pcf, tensile strength of 160 psi and elongation greater than 160%. The combat floor material complies with ASTM D-2859 flammability requirements and has a flash point greater than 650° F.

**To learn more about the Road Range™ or other Meggitt products, please contact:**

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