Encapsulator™ Grantrap

Granular Rubber Trap

Range Systems’ expertise in ballistic containment ensures the effectiveness and integrity of our full complement of bullet trap models. We consider the environmental and safety requirements of firing ranges in our design criteria to ensure our customers receive a bullet containment system that meets their specific need and situation.

Range Systems Encapsulator™ Grantrap safely stops and captures rounds intact with virtually no lead dust or bullet fragmentation. This allows shooters to advance downrange and engage targets at extremely close distances, even at acute angles with no concern of ricochet or back-splatter.

To contain rounds, Encapsulator™ Grantrap utilizes a thick layer of granulated recycled rubber is supported by an inclined steel structure. A self-feeding reservoir at the top of the trap allows supplemental granular rubber to filter down to maintain a proper depth of rubber in the trap. Ballistic rubber Dura-Bloc™ at the toe of the bullet trap provides a ricochet-free border to contain the rubber granulate material.

Encapsulator™ Grantrap is an environmentally-friendly bullet containment system. When a bullet strikes the trap, the rubber granular material absorbs the round's energy and safely decelerates the bullet. The round is captured in the rubber media creating no lead dust from bullet impact and fragmentation and eliminating the noise generated from rounds impacting a steel bullet trap. These product attributes lower the sound level in the range and reduce airborne lead contaminants. In addition, because bullet fragmentation at the trap is nearly eliminated, subsequent airborne lead is also reduced, which may result in less frequent filter changes for the range ventilation system.

Encapsulator™ Grantrap is designed for high volume use and defeats conventional pistol and rifle rounds up to 7.62mm (M80 Ball) and 5.56mm (M855 Ball). Tracer or incendiary rounds are NOT permitted.
Encapsulator™ Grantrap provides these benefits:

- Lower acquisition cost versus steel traps.
- Ideal for high volume range use.
- Safely captures rounds fired at close range or at any angle.
- Bullets remain virtually intact, thus reducing lead dust.
- Significantly lowers bullet impact noise in the range.
- No moving parts eliminates potential of mechanical failure.
- Requires no power to operate.
- Modular design provides easy installation.
- Provides a small footprint.

Provides a cleaner range environment than steel bullet traps

Encapsulator™ Grantrap as manufactured by Range Systems for capturing jacketed, semi-jacketed and non-jacketed, shot and slug projectiles with velocities 600 feet per second (FPS) (183 meters) to .308/7.62 mm grade, certified up to 3600 foot-pounds (4881 joules) of impact. Encapsulator™ Grantrap captures projectiles fired from oblique angles and point-blank range without back-splatter or ricochet. Tracer or incendiary rounds are NOT permitted.

- Trap Assembly includes a support frame inclined relative to the direction of incoming projectiles.
- Support frame includes an inclined support surface fabricated from 10 gauge steel and supported by a steel truss structure arranged and configured to properly support the granular rubber media.
- Rubber granulate material fills the area within the support frame.
- Dura-Bloc™ ballistic rubber forms the front edge of the trap assembly to contain the rubber granulate fill and capture errant rounds. An optional rubber cover for outdoor range application reduces debris from entering granulate.
- A hopper located above the target region of the trap provides a supplemental volume of rubber granulate to maintain a constant depth of material. The front facing of the hopper is constructed of AR 500 steel and covered with 2 inch (51 mm) thick Dura-Panel™ rubber to provide ballistic protection and capture errant shots. To accommodate lower ceiling height, trap assembly will be complete without hopper components.

Suitable for indoor or outdoor firing ranges