# 20 mm Recoilless De-Armer Disruptor

## Model : EAD-20S, EAD-2050




EAD-20S and EAD-2050 are recoilless Disruptor- Dearmer designed for disrupting the IEDs and UXOs with a high probability of avoiding detonation. It answers for requirement of a medium powered and accurate disruptor. The disruptor can be employed with a multitude of support arrangements like its stand or on an EOD robot with its mount. The disruptor design pays special attention to simplicity, safety and speed of operation. Recoilless operation is achieved by ejecting water load rearward at the same time as the forward load.

### Key features

- ***Manufactured with Stainless Steel & Aluminum corrosion-resistant alloys.***
- ***98% recoilless and lightweight, ideal for robot applications.***
- ***Special attachment for standard camera tripod for quick aiming / multiple attack angles.***
- ***Variety of De-armer function projectiles- Solid and frangible***
- ***Picatinny rail for Laser and other aiming features.***
- ***Power cartridge options - Standard electrically initiated 0.5-inch or 20mm or percussion debulleted cartridges.***
- ***Quick and Error-free assembly features with keyway and Acme Threads.***
- ***Multiple attachments and optional accessories make it true fourth generation disruptor.***



The disruptor breech has a safety pin to keep the terminals short and cartridge gets connected just when it has been deployed. This enables minimum time at IED ensuring speedy yet safe deployment. The disrupter can be provided with standard 0.5 inch (EAD-2050) or 20mm cartridge (EAD-20S).

## Specifications

| Item | Specifications | Item | Specifications |
|---|---|---|---|
| **Length assembled** | 525 mm | **Width Recoil Body** | 150 mm |
| **Filled Water qty** | 210 cc | **Bore diameter** | 20 mm |
| **Attack Height with stand** | Min 0.5 meters<br>Max 1.3 meters | **Weights** | **Disruptor** 6 kg<br>**Stand** 2 Kg<br>**Aiming device** 0.2 Kg |
| **Stand turn azimuth** | 360º | **Stand turn elevation** | 180º |
| **Danger area forward** | 140 m | **Danger area rear** | 30 m |
| **Cartridge EAD-20S** | CT-20/ 12 bore (both electrical) | **Cartridge EAD-2050** | 0.5 inch electrical CT-05D, CT-05W |
| **Recoil system** | 98% recoilless | | |
| **Breech electric firing** | Standard breech non-leaded cartridges -450 grams<br>Separate breech for leaded cartridges - 300 grams (optional) | | |
| **Standard accessories** | Packing & carrying box, Tripod stand, Removable Cleaning Brush, Push rod, Spanner Tube, Dual pin wrench, Water bottle, Allen key, Recoil sleeve head, Recoil sleeve. | | |
| **Optional Accessories** | Tough polypropylene or Cordura case, Laser aiming head, Robot Mount, laser pointer, light, range finder, rifle scope, Day night LCD sight, remote detonation system integration, Penetrator end caps<br>Accessories to make De-armer- Thread protector, Steel Slug Blunt, Steel slug chisel, Steel Slug pointed nose, Cutting Fork, blade slug, loading sleeve, Special slugs can be made on customer's requirement. | | |
| **Initiation** | Initiate with exploders/ blasting machines and supplied separately. | | |
| **Composition** | Specially treated Stainless Steel alloy and Aluminum alloy recoil body. | | |

# Optional items EAD-20S/2050

## Cartridge Versatility

The disruptor can be supplied with 20 mm cartridges (EAD-20S), .50 caliber (12.7 mm) cartridges (EAD-2050), or electrically initiated 12 Bore cartridge. Since many EOD establishments are already using 0.5 inch cartridge with other EOD systems we do have option that the disruptor is provided according to their existing cartridge type. This ensures much greater logistical flexibility.



20 mm cartridge



0.5 inch cartridge with lead
as well as without lead

## Breech types

Three types of breech systems are available:

**Standard Breech with Safety Pin:**

- Designed to fire electrically initiated cartridges (non-leaded 20 mm or 0.5 inch) which is the standard breech type.

**Breech for Leaded Cartridges:**

- Specifically configured for legacy electrically initiated 0.5 inch cartridges with lead.

**Specialized Breech for Percussion Firing:**

- Capable of firing 12-bore cartridges or 0.5-inch cartridges, initiated by a firing pin.
- Includes a debulleting kit, allowing the use of standard 0.5-inch cartridges.

## Robot installation

These disruptors are ideally suited for installation on Robots due to its reliable recoilless feature. If the robot's mounting details are provided, an installation adapter can be supplied. These adapters also can be integrated with camera and laser pointers.



Our IED disruptor is equipped with a variety of aids to ensure accurate firing. To enhance its versatility and precision, we incorporate a Picatinny rail system, which allows the attachment of a wide range of accessories. These include aiming devices, laser pointer, optical sights, and other modular components, enabling operators to adapt the disruptor to different scenarios and operational needs.



## Laser sight (optional)

Two laser sights are installed on either side of the disruptor mount on Picatinny rail for a quick identification of the targeted area of the disruptor.



### Range Finder (optional)

With 225 grams of weight, it is a handy tool for decision making at the incident control point as well as at the IED. Can be installed on the rails of the disruptor. Can measure up to 700 meters and displays on illuminant OLED screen.

### Multi-function 3-10x42 Rifle scope (optional)

In this all in one solution we have a laser sight, Optical scope and a red dot sight. It can easily be installed and removed from the Picatinny rail. You can add in more accessories on this unit to add in more features.





### LED Flashlight with Laser sight (optional)

Quick release mounting of a laser sight and flashlight. Flashlight / laser sight can be operated together as well as independently. Black solid ABS body. Operate with 2 x CR123 battery.



### Day & Night LCD sight (optional)

Aiming the target on disruptor mounted riflescope can be aided with a vision kit and LCD. During the night a waterproof 850nm Infrared LED illumination gives good vision for 350 Meters. Camera provides a sharp and clear image during the day as well. Easily switch between day (Color) and night mode (IR monochrome).

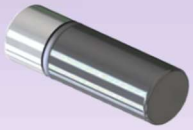
**Penetrator Cap** not only seals the water but with its metallic tip achieves an entry hole in metallic walled IEDs



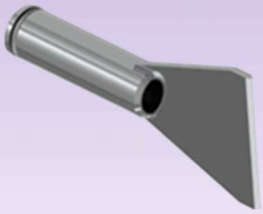
**Closure Cap** seals water inside the barrel when attaching soft targets



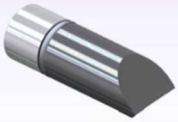
## Dearmer Slugs types which can be fired



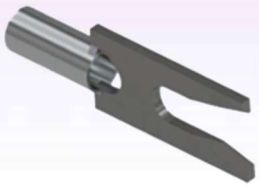
**Blunt Slug**
Blunt ended steel projectile, fitted with an 'O' Ring to attack UXB fuse



**Blade Slug**
Blade slug is designed to cut targets such as pipe bombs in two



**Chisel Slug**
Chisel end shaped projectile for cutting action.



**Fork Slug**
Fork used for wire and soft skin.

## RF System for disruptors

Integration of RF initiation system with the disruptor provides flexibility and speed of IEDD operation. The EOD operator no longer has to carry the demolition wire to the IED. Our Wireless Initiation system such as RDS-6722 and RDS-6725 are provided with mounting & fittings to be installed on Disruptor's standard mount or the system can be installed with International Picatinny rail mount standard.






Quick clip-on type also offered

