



Monica Remote Case Entry System

CBW Sampling & Disposal



A new way of thinking about CBW Disposal.

Fast sampling & disposal using invasive technology

The MMIC Monica equipment is the first system to offer a complete solution for the disposal of CBW in conventional or improvised devices. Utilising innovative technology it is the only equipment capable of invasively interrogating any device without leakage into the surrounding environment. One seal penetration gives access for sampling, disposal or visual investigation - CBEI has never been simpler.

100% Certainty

Most CBW threats will be deployed or stored in a sealed container but standard chemical agent monitors depend on an agent release into the environment for them to function. Non-invasive detection methods, such as neutron activation analysis will provide information on the elemental composition of materials but not direct evidence of their chemical structure. The only totally reliable technique for the analysis of the contents is to take a physical sample. Monica offers a field proven capability to sample and dispose of any chemical or biological threats, regardless of vessel without contaminating the environment.



Applications

- Conventional CBW or CBIED sampling and disposal.
- Sampling of any chem/bio agents or TICs. Gas, liquid or powder.
- In-situ decontamination or neutralisation without agent release.
- Separation of agent and explosive elements.
- Further investigation using endoscopes or other devices.

IEDs or conventional CBW sampling & disposal.



Sample all sizes of device in any orientation.



In-situ decontamination or decant agent from the device.

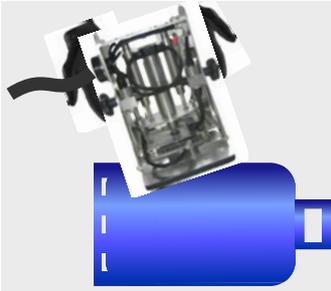




Monica Remote Case Entry System

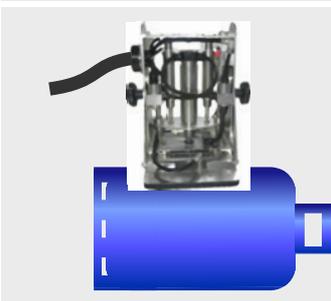
CBW Sampling & Disposal

4 Step Operational Sequence



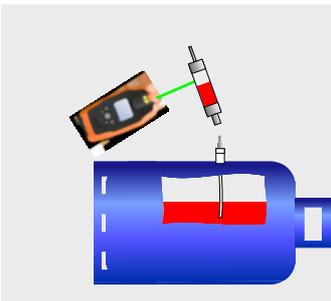
Step 1 - Attach

Using Monica's unique vacuum system the drilling head can be attached to any diameter of target regardless of shape or surface condition. An experienced operator can fix Monica in less than 30 seconds after arrival. The drilling head has no significant EM or RF signature



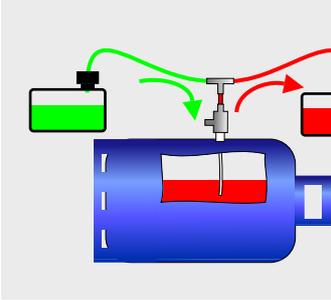
Step 2 - Drill

Monica's innovative drilling system can drill any metal (including stainless steel) or plastic in under 2 minutes. The compressed air motor cools the probe and target surface as it drills. The whole operation can be completed from up to 500m away with simple controls which provide feedback to the operator.



Step 3 - Sample

The MMIC sampling system can extract a sample of any known agent in gas, liquid or powder form. Drip free seals ensure no agent is released. Once sampled the syringe contents can be analysed quickly by Raman spectroscopy. The result can be double checked using GCMS on the physical sample if required.



Step 4 - Dispose

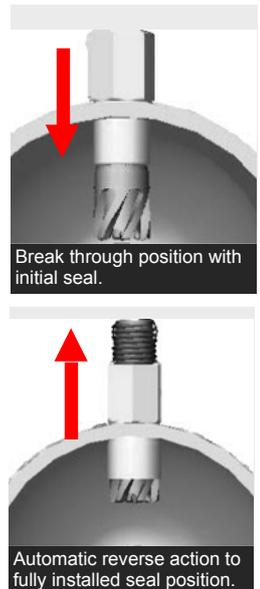
Using the same penetration for the sample, the agent can be pumped from the target for disposal using the MMIC MATS system. Alternatively decontaminant can be pumped into the target for in-situ disposal. The system can handle even the most viscous substances.

Advantages

- **Fast** - Disposal under 20 minutes from arrival.
- **Simple** - Designed to be used intuitively in full NBC protective clothing.
- **Portable** - Can be easily carried by 2 man-team.
- **Safe** - System ensures no agent release in the event of a power failure.

Complete Sealed Solution.

The equipment is designed to insert a gas-tight self-sealing probe through the target casing. It can deal with a wide range of materials including metal and plastics over a considerable range of wall thickness. Once installed the probe gives fully sealed access for sampling, extraction and in-situ neutralisation of the contents.



Power is supplied by compressed air from standard SCBA cylinders making the system man-portable. It can be deployed by a 2 man team in under 5 minutes.

Performance Data

Power	1hp compressed air motor
Materials	All metals, composites, plastics & wood
Agents	All, including powders and viscous liquids
Target Dimensions	Wall Thickness: 1.6mm to 20mm Diameter: 75mm to flat plate
Target attachment	Flexible, vacuum feet
Max Internal Pressure	120psi
Drilling Time	1 to 3 minutes

Current Users of the Monica System.

- UK MoD Dstl
- UK SIBCRA team
- US Army
- US ECBC
- SWEDEC
- Australian IRR
- Classified Users

Further Information.

More information can be found at www.mmic-eod.co.uk or contact us as mail@mmic-eod.co.uk