

SAFE & EFFICIENT DEMILITARIZATION

WITH WATERJET TECHNOLOGY

INDUSTRIES

- Ammunition Producer
- Demil Companies
- Ministry of Defense

CHALLENGE

Cutting large explosive bombs into manageable pieces while considering the RSP

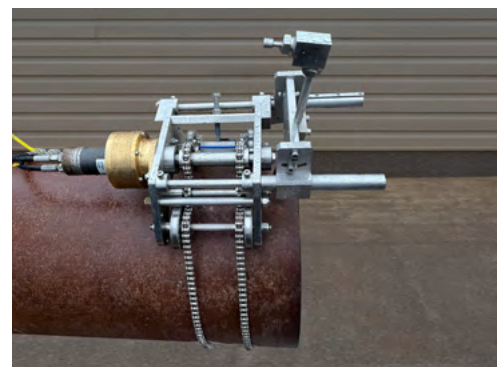
SOLUTION

Water Abrasive Suspension
Cutting with specialized
remote manipulation systems

INTRODUCTION & PROJECT OVERVIEW

Demilitarising expired ammunition is a challenging task that requires expertise, special equipment and high safety standards. New technologies for more environmentally friendly and safer disposal are constantly being developed. Expired ammunition in stockpiles can also lead to considerable logistical problems. Contamination of the environment poses a further challenge and requires special handling.

In particular, large explosive devices pose a challenge as they are difficult to handle due to their heavy weight. To solve this problem, we conducted a case study with our Mobile Abrasive Cutting Equipment (MACE) from ANT AG. This high-pressure waterjet technology enables precise and safe dismantling of ammunition without heat or sparks. Our approach supports the controlled disposal of hazardous materials while minimising risks to personnel and the environment.



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Alexander Dölger
Head of Sales ≤ 700bar
mace@ant-ag.com





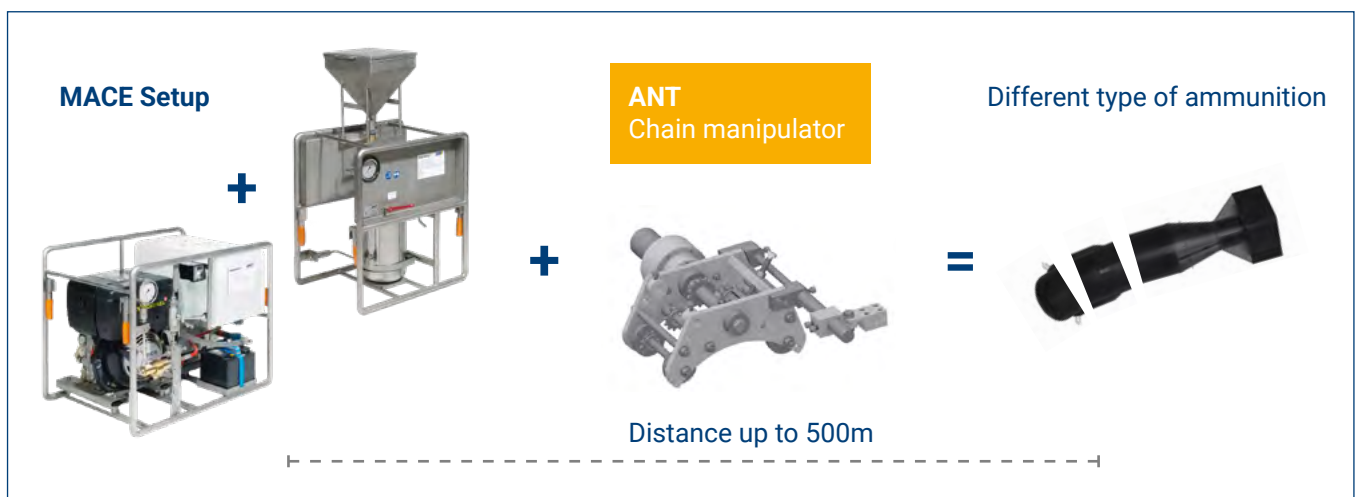
KEY ADVANTAGES

- /// **Maximum Safety** – The system eliminates heat and sparks, reducing the risk of unintended detonations.
- /// **High Precision** – Water jet cutting allows for accurate and controlled dismantling of complex ammunition structures.
- /// **Rapid Deployment** – The compact and mobile design enables quick on-site setup, minimizing logistical challenges.
- /// **Cost Efficiency** – By reducing transportation needs and operational risks, the system lowers overall disposal costs.
- /// **Environmental Sustainability** – MACE minimizes waste and supports material recovery, ensuring an eco-friendly disposal process.

CONCLUSION

Using high-pressure water-abrasive cutting, the MACE system enables precise, controlled dismantling of ammunition without heat or shock, reducing accidental detonation risks. Remote operation ensures maximum safety for personnel while maintaining efficiency in handling hazardous materials.

This technology provides a reliable, mobile, and environmentally responsible solution for demilitarization, helping organizations improve safety standards and streamline disposal. Its adaptability and effectiveness make it essential for both military and civilian applications, setting new benchmarks in ammunition disposal.



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ANT AG - Applied New Technologies
Hinter den Kirschkatzen 32, 23560 Germany
www.ant-ag.com

