



PROTECTED, HIGHLY MOBILE **ROLE 2B** MEDICAL TREATMENT FACILITY (MTF)



For the armed forces, operational readiness does not begin in combat – it continues with the ability to provide emergency surgical care to the wounded and seriously injured under threat, to evacuate them and to ultimately ensure their survival. As the reality of combat in Ukraine shows, medical facilities are no longer protected rear areas – they have become specific targets and part of the battlefield.

NATO armed forces have established Role 2 structures. However, these are primarily designed for inpatient or semi-inpatient deployment scenarios. In the scenario of national and alliance defence, this gives rise to three key challenges:

1. Insufficient protection against modern threats such as drones
2. Limited tactical mobility
3. Limited ability to deploy quickly

The result is an operational gap between injury and surgical stabilisation under combat conditions. Rheinmetall's protected, highly mobile Role 2B closes this gap.

The Rheinmetall Role 2B MTF stands for an advanced surgical capability with substantial treatment and bed capacity and offers:

- Damage Control Surgery (DCS) and Damage Control Resuscitation (DCR)
- Emergency medical first aid and treatment
- Postoperative intensive care capacity

- Postoperative monitoring and care
- Diagnostic capabilities (e. g., clinical chemistry laboratory and radiology)

The Rheinmetall Role 2B MTF is thus the central operational hub between frontline care (Role 1) and further treatment (Role 3 and Role 4). It is indispensable in high-intensity scenarios.

The entire system operates in the area of deployment of the highly mobile mechanised forces in order to provide medical support within the scope of its specialist capabilities in all scenarios of land-based operations. It is essential to be able to switch quickly between the functional states of march and treatment under the possible conditions of deployment in a scenario of national and alliance defence.

THE SOLUTION: RHEINMETALL'S PROTECTED, HIGHLY MOBILE ROLE 2B MTF

Rheinmetall's Role 2B MTF is designed in such a way that a closed and protected functional space with different treatment areas can be created by gradually combining or connecting independently deployable individual elements. The multifunctional containers (MFC) play a central role here, allowing specific treatment stages (first aid, emergency surgery and post-operative intensive care) to be carried out in such a way that, depending on the situation, both patients can be moved within the overall system and treatment teams can rotate.

The planned capability combines:

- Full Role 2B medical care
- Protected platform technology
- High tactical mobility
- Modular scalability

Protection

Ballistic and splinter protection ensure operational capability even in threat zones. Medical personnel operate under secured conditions – not in an unprotected container.

Mobility

The facility is:

- On- and Off-road capability
- Air transportable, including in the A400M
- Quick to assemble and dismantle

Medical performance:

- Triage
- Multiple operating theatre capability with life-saving, emergency surgical and intensive care first aid
- Postoperative intensive monitoring
- Clinical chemistry laboratory (KCL)
- Blood supply
- Postoperative short-stay ward, basic nursing care and monitoring
- Subsequent transfer of the wounded to the casualty evacuation service

The goal is clear: stabilisation within the "golden hour" and preparation for strategic evacuation as part of MedEvac.

Taking responsibility for our soldiers.

NATO Brigades and divisions must be credibly ready for action. This credibility also includes medical support.

The protected, highly mobile Role 2B:

- Fulfils the duty of care towards soldiers
- Strengthens the endurance of large NATO units
- Increases alliance capability
- Reduces strategic vulnerability

It is therefore not just a medical project – but also a security policy signal – for NATO.



PROTECTION BECOMES A SECURITY MULTIPLIER – MEDICINE A STRATEGIC FACTOR.

Rheinmetall's R2B MTF:

- *shortens* evacuation routes
- *reduces* mortality from serious injuries
- *stabilises* patients more quickly
- *enables* flexible deployment in the event of a threat
- *ensures* freedom of operation

The protected, highly mobile Role 2B is based on:

- Already available protected carrier platforms
- Modular, commercially available medical technology
- NATO-compliant Role 2B requirements
- Integrable command and information systems such as D-LBO

Development risks are thus significantly minimised and rapid procurement for the armed forces is possible. This phased implementation approach enables rapid troop testing, scalable series procurement and controllable life cycle costs. It is a reliable, systematic integration of existing technologies into a protected overall system.

At the same time, Rheinmetall's R2B MTF offers considerable industrial and innovation potential, as it creates significant synergies between military emergency medicine and civil disaster control capabilities through the use of military medical technology, digital networking in the field and dual-use innovations.

The critical capability gap in national and alliance defence is closed.

The R2B MTF's operational readiness does not end with combat. It continues with the ability to save lives under threat. Rheinmetall's protected, highly mobile Role 2B is an essential component of resilient, credible and sustainable armed forces and an integral part of the medical rescue chain.

