



MOBILE REPAIR RESOURCES, MATERIAL SUPPLIES, AND INFORMATION SUPPORT IN OPERATIONAL LOGISTICS

Operational logistics plays a crucial role in maintaining the combat readiness of military units. A vital aspect of this area is the execution of maintenance and repairs in field conditions, which is closely related to operational material supplies, including the provision of spare parts and consumables. This article focuses on the issues of mobile repair resources, operational material supplies, logistical information support, and the ability of current users to effectively use these information systems.

Mobile Repair Resources

In mid-July 2024, a contract was signed between the Czech Ministry of Defence and the Military Technical Institute, for the supply of mobile repair resources. Field repairs include locating non-operational equipment, diagnosing the extent of damage, and deciding whether to repair the equipment on-site or transport it for more extensive repairs. Many armies have established rules for carrying out repairs of equipment using both internal capabilities and services of civilian companies. Simple repairs are typically handled internally, while more complex repairs are entrusted to external specialists. Recent war conflicts have highlighted the need to carry out repairs at a safe distance

from the front lines, out of the reach of enemy forces.

Field equipment repairs often require the ability to respond quickly to changing battlefield conditions. Mobile repair resources must be designed to offer maximum flexibility, protection, and speed in conducting repairs. This includes not only technical equipment but also highly qualified personnel capable of working under challenging conditions.

Operational Material Supplies

Effective maintenance and repairs of equipment require the availability of operational material supplies. These supplies must be dis-

tributed at the tactical level, among individual military organisational elements (such as battalions), and at higher levels, such as brigades and divisions. Central warehouses and selected organisational elements of the Armed Forces of the Czech Republic serve as storage sites for strategic supplies. The maintenance and repair system must be designed to include spare parts and consumables stored directly within the equipment, at organisational elements (repair platoons or companies), and at higher repair levels (battalions and repair bases). This ensures the availability of necessary material in various situations and conditions.

Operational material supplies are the cornerstone of successful logistical support for

military operations. Proper allocation and management of these supplies enable military units to maintain a high level of readiness and the ability to respond swiftly to unforeseen events on the battlefield.

Information Support

Today's logistics operations cannot be effectively managed without information support. The Logistics Information System (LIS) used by the Czech Ministry of Defence and the Armed Forces of the Czech Republic supports the dynamic creation, replenishment, and management of mobile supplies. Among other features, the system enables:

- Standardisation and cataloguing of material, integration with spare parts catalogues.
- Use of support tools for material handling.
- Overview of current stock levels across various organisational elements.
- Ability to allocate mobile supplies and manage strategic stockpiles.

An important function of the LIS is also the ability to establish rules for material storage, automatic replenishment, and interchangeability of key materials, which is crucial for dealing with equipment repairs. The LIS provides a comprehensive overview of stock levels and enables quick and efficient distribution of materials where they are most needed.

The LIS provides both a general and specific overview of the current status of operational supplies within the relevant organisational elements. This includes not only stationary facilities, such as warehouses, but also field organisational elements. The system also supports the creation of both real and virtual organisational elements, enabling efficient tactical and operational movement of material.

The Logistics Information System was developed in collaboration with foreign military logistics experts with extensive practical experience. However, it is essential that the current users, even after organisational changes, can fully use the system's potential. Effective use of the LIS involves not only technical knowledge but also consistent ap-



plication of standardisation and the ability to manage operational material supplies.

The Logistics Information System is a key tool for ensuring the continuity and efficiency of logistics operations. Its implementation and proper use allow all organisational elements to maintain a high level of readiness and operational capability, which is essential for the successful conduct of military operations in today's dynamic environment.

Mobile repair resources and operational material supplies are crucial for maintaining the combat readiness of military units. The information support provided by the LIS enables

efficient management of these activities. Users must be able to fully exploit the available information technologies and systems, which requires continuous education and application of acquired knowledge in practical use.

This article provides an overview of current challenges and potential solutions in the area of mobile repair resources and operational material supplies. Effective use of information support is undoubtedly crucial for the successful execution of maintenance and repairs in field conditions.

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