TEP 90

The complete decontamination system

Benefits

TEP 90, the most efficient decontamination system of this class currently available with outstanding, worldwide leading technology. The container-based TEP 90 decontamination system has a consequent modular structure and consists of four decontamination modules which can be used independently and include all components necessary for carrying out thorough, mission optimized decontamination close to the contaminated troop. The TEP 90 ensures the following main functions:

- Decontamination of persons
- Decontamination of personal NBC protective clothing and personal equipment
- Decontamination of sensitive equipment
- Decontamination of large vehicles and interiors
- Decontamination of supply items and packaging receptacles
- Decontamination of limited road sections, plants and installations (infrastructure)

In addition, the decontamination system is able to support auxiliary tasks such as measures in the area of hygiene, firefighting and transport of water. The system may also be deployed after missions and before returning to the home country, in the form of epidemic prophylaxis and vermin destruction etc. during ‚out of area' operations.

Technical data

Decontamination of road sections	1.500 m²/h
Decontamination of vehicles	4 - 8/h
Decontamination of persons	20 - 40/h
Decontamination of equipment	ca. 20-30 sets/h

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The **loading crane** integrated in the transport vehicle is used not only for loading and unloading the decontamination modules at the relevant stations. After adaptation of a special at vehicles integrated personnel basket it also allows the decontamination of vehicles and other objects up to a height of 14 meters.

1 **Module 1** (remains on the transport vehicle during operation) together with the crane is used for the CBRN decontamination of vehicles in a decontamination station comprising the pre-treatment, main treatment and post-treatment stages. The preparation of vehicles for decontamination also includes underbody cleaning. This allows the treatment of 4 to 8 vehicles or the treatment of street sections of 1.500 m² per hour.

2 **Module 2** is used for the decontamination of personal equipment and CBRN protective clothes. The module comprises a vacuum decontamination chamber, a hot gas/steam chamber and a wet treatment station. An integrated water tank and power generator ensures that the module is working completely autarkic. By this it is possible to decontaminate 20 personnel sets per hour.

Integrated vacuum chamber
The chemical and biological decontamination of optical and electronic equipment which cannot be treated using aggressive liquid decontamination chemicals or by thermal decontamination methods can be carried out by special vacuum procedures.

Integrated hot gas/hot steam chamber
CB decontamination of thermally resistant personal equipment and personal permeable CBRN protective clothing can be performed in the hot gas/hot steam decontamination chamber. At least 20 complete sets of equipment can be decontaminated every hour.

Integrated decontamination platform
Personal equipment which is water resistant is placed on the fold-down decontamination platform and decontaminated using decontamination chemicals and a rinsing process. By this method, up to 20 sets of sensitive equipment can be treated every hour using a high-pressure lance and the AMGDS mini.

3 **Module 3** is always placed separately form the transport vehicle and unfolded on the ground for the decontamination of persons. The Module is working completely autarkic. In addition to the shower section it includes a special thermo-electrical energy module, a water tank, an air-conditioning unit and an inflatable tent for undressing and dressing to ensure a proper decontamination process. This module allows 20 to 40 persons to be decontaminated every hour.

4 **Module 4** provides the Decon Shuttle, which is also a complete independent Decontamination Module on a caterpillar chassis. It is used for CBRN decontamination of interiors using the technologies of spray extraction and aerosols. The thermo aerosol generator can also be carried along as an independent device.