

# POWER PACKS AND ECS SYSTEMS

# ARMY



**Van Halteren Special Products has more than decades of experience in series production and complete Maintenance, Repair and Overhaul (MRO) of all kinds of diesel engines, transmissions and Environmental Control Systems (ECS) for military armoured vehicles.**

Our specialism include:

- Overhaul and repair of diesel engines and transmissions
- Overhaul and repair of technical sub components
- Damage analysis and technical expertise
- Maintenance and Spare parts
- Series production

Design and development of:

- CBRN systems
- AC systems
- Special Cooling Systems

**Van Halteren Special Products B.V.  
is specialist on:**

- MTU Engines
- Deutz Engines
- RENK Transmissions
- RECO Transmissions

## POWER PACK

### A POWER PACK CONSIST OF AN ENGINE WITH A TRANSMISSION

#### MRO on Power Packs

Proper maintenance effects in a lower through live costs of valuable components such as transmissions and engines. However, proper maintenance is time consuming and requires special knowledge and skills. Van Halteren Special Products has developed these skills due to our many years of experience with numerous engine types. During our inspections we investigate the conditions and performance of the engine. Based on our findings a report is drawn up identifying the actual condition of the equipment and the actions to be taken in the short or long run to correct or improve the performance and reliability.

Our strength is that, besides being capable to execute overhauls exactly according to the OEM specifications, we offer overhauls that are tailored to the actual use of the engine and are optimised to reduced costs. This can be by extending maintenance intervals and by only replacing parts with extensive wear and tear. Due to our years of monitoring and documenting the maximum reliability limits of wear parts are replaced with the "safety critical and still usable for requested operational time"-limits.

#### Test facilities

The test facility is designed to provide an environment where engine and transmission operation can be simulated. Each test cell is equipped with all the necessary equipment to measure every kind of parameter like temperatures, pressures, flows, consumption & emissions. We can offer the following tests:

- Check on leakages;
- Functional tests;
- Performance tests;
- Factory acceptance test witnessed by a client or a Quality Assurance Representative

#### Military Industry Partner

Van Halteren Special Products is used to work for End users such as the Dutch Army as well as Military Industry companies such as Krauss-Maffei Wegmann, Rheinmetall and BAE Systems Hägglunds.



#### AQAP 2110

Especially for military end users and industry, we are qualified for AQAP 2110. So Design and Development process as well as our Production and MRO process complies with the high military standards.

We have QAR in house for national and foreign military programs.

#### CBRN

Van Halteren is Original Equipment Manufacturer (OEM) for CBRN Filter systems, essential for an armoured vehicle operating under the threat of an attack by warfare agents, such as TICs and TIMs (Toxic Industrial Chemicals & Toxic Industrial Materials). CBRN can be part of an ECS system.

#### AC Systems

Van Halteren is OEM of CBRN Filter Systems, stand alone or part of an ECS System, essential for an armoured vehicle operating wherever in the world in the most demanding climates

#### R&D engineering

- Development, new-build and extensive service programmes;
- Dedicated knowledge of and experience with everything from engines and transmissions to AC and CBRN protection Systems;
- Using cutting-edge CAD software;
- Tailor made solutions to given specifications;
- Knowledge of requirements for technical perfection in shock, vibration, EMP/EMC and climate conditions
- Optimal life cycle costs and support for the end product;
- Maintainability and availability of spare parts are the key words. New products are designed under the same technical restrictions.

#### Spare parts

For all engines, transmissions, sub-components and ECS systems. Van Halteren Special Products can offer all required spare-parts.



**VAN HALTEREN**   
SPECIAL PRODUCTS

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**LEADING THE WAY**