

19 February 2017

Rheinmetall MAN Military Vehicles' logistic truck families: Highly mobile – highly protected – multi-mission-capable – theatre-proven

No logistics, no tactics! Now more than ever, today's fast-moving armies need to be sure that their supplies keep rolling. Contemporary asymmetric conflicts lack clearly defined front lines, challenging commanders and manufacturers of modern transport, command and multi-mission vehicles with new requirements regarding mobility, functionality and survivability.

The HX family, made by Rheinmetall MAN Military Vehicles (RMMV), rank among the most durable, reliable, versatile and cost-effective in their class. The TGM and TGS model series are based on the globally proven MAN Trucknology Generation. At the cutting edge of commercial truck technology, they set the international standard for robust design and innovative engineering.

At IDEX 2017, a HX 77 with protected cabin and Integrated Load Handling System (IHLS) as well as a TGS-MIL 8x8 Medium Mobility Truck System with cargo body are on display at the Rheinmetall stand.

A match for modern mission scenarios

All HX vehicles are "military off the shelf" (MOTS) products specially developed for military applications. Their main priority is high mobility and reliability even in the harshest terrains.

Many other militarized vehicles are based on commercial construction vehicles. By contrast, the HX family combines tried-and-tested components from major commercial vehicle series with a toughened low-torsion ladder frame and other technologies designed to meet the specific needs of the military. This includes armour, self-protection systems, extreme fording capabilities, multi-fuel engines that are fully F34 compatible and blackout lighting. Right from the start, these trucks are designed not merely for greater durability and better off-road mobility, but also to operate in a wide range of climate zones. Moreover, they can be equipped with protective modules and/or weapon stations for self-protection.

Another specific characteristic of the HX family is high commonality and interoperability. This results in total ease of use as well as streamlined logistics and maintenance, since many of the components and assemblies are common to all the vehicles and fully interchangeable. In the UK, the net effect has been to reduce a previous logistic vehicle parts inventory stock from 30,000 line items to around 7,000.

Operation of the vehicles is largely identical. The same applies to maintenance and repair of the vehicles, engines and drivetrains. This produces considerable synergies when it comes to training crews and maintenance staff as well as substantially simplifying logistics for the entire fleet of vehicles.

The multi-fuel capability and excellent supply arrangements (all maintenance-significant spare parts are NATO-codified) are further important features of the HX family.

Additional protection

Depending on customer requirements, all of the HX vehicles can be equipped with a modular armoured cabin (MAC) or a fully integrated armoured cabin (IAC) to meet the highest STANAG or Mil-Standard specifications with regard to ballistic and mine protection. Installation of the MAC takes only six to eight hours, and can be performed by two trained technicians with the help of a lifting device. Furthermore, the vehicles can be equipped with sophisticated command and control technology, a remote control weapon station and Rheinmetall's hard-kill "Active Defence System".

Deployed around the world for decades and theatre-proven

Rheinmetall MAN Military Vehicles has a long history in developing and supplying military vehicles systems to armed forces worldwide.

The military-off-the-shelf concept of the HX family remains as compelling as ever, and these vehicles now form the logistic backbone of numerous armies around the globe. The HX family features variants ranging from 4x4 to 10x10. Cargo carriers, tanker trucks, recovery vehicles, system platforms, folding road and bridge-laying systems – anything is possible.

Today, the HX family already forms the core of a fleet of high-mobility, globally deployable transport vehicles that can be specially hardened for maximum force protection. Around 10,000 of these vehicles are already in service worldwide, which – particularly in multinational operations – offers major advantages with regard to interoperability and logistics. Among others, current user nations include the United Kingdom, Denmark, New Zealand and Australia. Sweden and Norway have also placed large orders with RMMV, the joint venture at the heart of the Vehicle Systems Division. Just recently an additional international customer has awarded Rheinmetall a major contract for military trucks. The order encompasses 110 logistic vehicles based on the HX81 worth a total of €134 million, earmarked for delivery between January 2018 and February 2019. Additional vehicle orders are envisaged. The contract includes comprehensive service and logistical support for a period of five years.

TGM and TGS – cutting edge of commercial truck technology

Originating in large-scale production runs, TGM and TGS vehicles have already put in millions of development kilometres. Vehicles destined for the world's armed forces and

security services are hardened to stand up to even the most extreme conditions. TGM and TGS both offer an excellent price-performance ratio and are superbly well suited for civil use and military operations alike.

As NATO mobility class 'C' logistic vehicles, they combine excellent off-road performance with heavy carrying capacity enabling a wide array of different build-ons. Possible configurations include hook-lift/interchangeable pallet carriers, cargo vehicles, mobile cranes, fire-fighting vehicles, tankers for fuel or water, troop carriers, maintenance vehicles and recovery systems. They are therefore extremely well equipped to serve in a disaster relief role, meeting the full range of requirements for dual use vehicles. All of these configurations have proven highly effective in all climatic zones.

Last but not least, TGM and TGS vehicles are militarized trucks economical to operate. Today the armed forces of over fifty nations place their trust in these trucks, more than 80,000 of which are in service worldwide.

Vehicle Systems: Rheinmetall's centre of excellence for military mobility

Formed at the beginning of 2016, the Vehicle Systems Division is one of the world's most versatile suppliers of tactical mobility solutions, with a portfolio ranging from trucks to wheeled armoured systems and heavy tracked fighting vehicles.

The Vehicle Systems Division's two management companies – Rheinmetall Landsysteme (RLS) and RMMV – present a common front, while still maintaining their own corporate seats and locations. The ownership structure of RMMV, in which MAN Truck & Bus AG holds a 49% stake, remains unchanged.

At the beginning of 2010, Rheinmetall and MAN Nutzfahrzeuge joined forces to found RMMV. Drawing on their respective core competencies in automotive engineering and military technology, these two long-established companies have created a globally operating supplier of wheeled military vehicles. RMMV produces a complete range of protected and unprotected transport, command and mission-specific vehicles for the world's armed forces. Moreover, RMMV supplies not only systems but also service from a single source. From 1st to 4th level support, everything is possible, including on-site repair and maintenance in-theatre.

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