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RMMV's HX 4x4 – versatile, highly mobile, operationally 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, confronting commanders and manufacturers of modern transport, command and multi-mission vehicles with new requirements regarding mobility, robustness, functionality, survivability and the ability to carry active and passive self-defence systems. The systems of the HX family, made by Rheinmetall MAN Military Vehicles (RMMV), rank among the most cost effective in their class. Visitors at DSEI 2013 can have a closer look at the HX 4x4 at the Rheinmetall stand.

The HX 4x4 is powered by a water-cooled 6-cylinder MAN D0836 diesel engine with direct fuel injection and output of 240 kW or 326 hp. If absolutely identical parts and total interoperability are required, the larger D2066 engine from the 6x6 or 8x8 is available as an alternative. Measuring 7.44 metres in length, the standard version of the vehicle is extremely mobile in all types of terrain. Capable of attaining a top speed of more than 90 km/h, it features 60% gradeability and a step climbing capability of half a metre. Furthermore, it can cross a metre-wide ditch and has a 0.75 metre fording capability, which can be increased to 1.50 metres to meet customer requirements. Its total authorized gross vehicle weight is 18 tons, with a military payload of six tons.

Among other variants, Rheinmetall has designed a cargo version of this vehicle which is on show at DSEI 2013.

Deployed around the world for decades

Unlike many other comparable vehicles, the HX family is largely based on off-the-shelf (OTS) components. It combines tried-and-tested components from major commercial vehicle series – such as the low-torsion ladder frame from MAN's civilian TG line of vehicles – with technology specially designed to meet the needs of the military, such as advanced leaf spring suspension, extreme fording capabilities and multi-fuel engines. Right from the start, these trucks are designed for greater durability, payload capacity and on- and off-road mobility. Furthermore, they can be configured to operate in all climate zones. Moreover, to make them a match for the full range of contemporary threat scenarios, they can be equipped with protective modules and/or weapon stations for self-defence.

As a MOTS product family, RMMV's HX vehicles not only feature outstanding mobility, protection and reliability, they also deliver maximum modularity and interoperability.

This results in total ease of use as well as streamlined logistics and maintenance, since many components and assemblies of the vehicle family are centrally produced and fully interchangeable. In the UK, the net effect has been to reduce a previous logistic vehicle parts inventory stock of 30,000 line items to less than 7,000.

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

Operationally theatre-proven in Iraq and Afghanistan

The military-off-the-shelf concept of the HX family remains as compelling as ever. Just recently, New Zealand and Australia decided to procure RMMV's combat-proven vehicles for their armed forces. The British armed forces began taking delivery of the first of over 7,000 vehicles of the HX family in 2007, including 4x4, 6x6 and 8x8 versions. Her Majesty's Armed Forces have been deploying HX and SX vehicle families in Afghanistan (and previously in Iraq) since early 2008. The response from all levels has been extremely positive.

RMMV – outstanding systems and service from a single source

As one of the world's leading suppliers of defence technology, Rheinmetall supplies the modern military with a comprehensive portfolio of modular products.

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 in-theatre maintenance.

In an age when new security challenges can literally arise overnight, this assures maximum flexibility and peace of mind.

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