NP Aerospace

Mastiff & Ridgback XC

ADVANCED OFF-ROAD PERFORMANCE

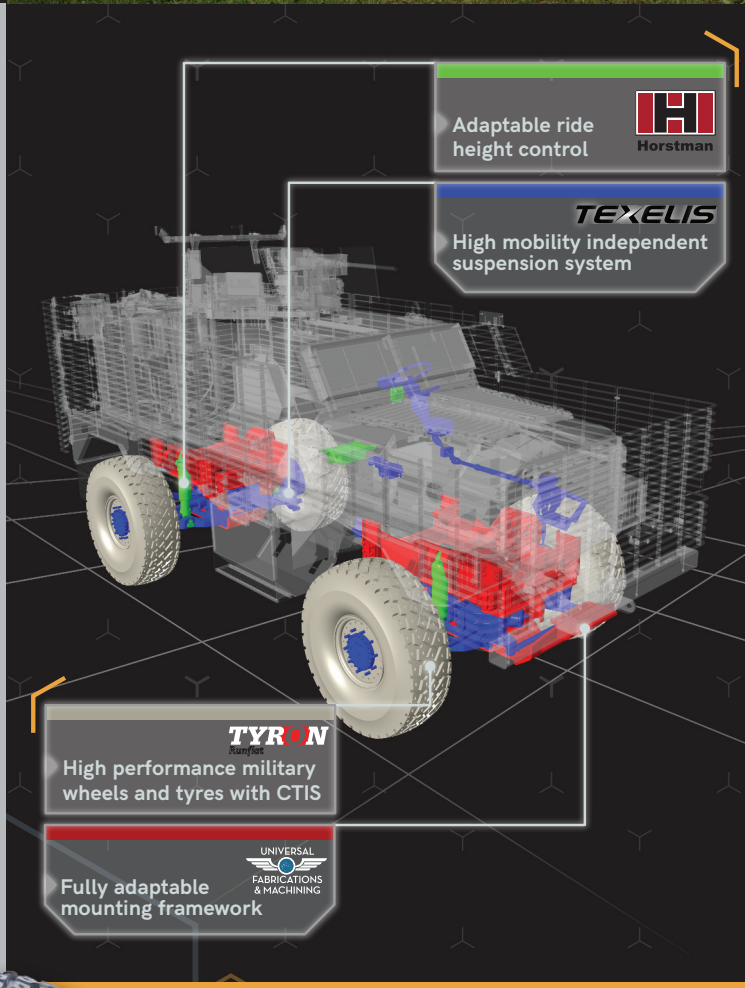
Mastiff & Ridgback heavy armoured vehicles can now achieve impressive offroad performance following a major engineering upgrade delivered by NP Aerospace and partners through the UK Ministry of Defence Protected Mobility Engineering Technical Support (PMETS) contract.

The vehicles proven on operation in Afghanistan and Iraq now feature state of the art high mobility suspension systems, ride height control, upgraded driveline, steering and braking systems and central tyre inflation systems.

The engineering upgrade is for an Urgent Capability Requirement in Mali, Africa. Partners on the programme include HORIBA-MIRA, Horstman, Texelis, Tyron and Universal Fabrications. Mastiff and Ridgback XC vehicles have been deployed to the UK MOD in 18 months, the first prototypes were delivered within 89 working days, sustaining the life of proven combat vehicles.

Performance Capability

- **Vehicle:** Mastiff & Ridgback XC
- **Vehicle weight:** 30 tonnes & 21 tonnes respectively
- **Max Speed:** 90kph on road, 55kph off road
- **MMP Ground Pressure:** ~350 kPa
- **Step Climb:** Min 350mm
- **Side Slope:** Min 30 deg
- **Inclines:** 60% gradient
- **Ground clearance:** 415mm
- **Ride height adjustable suspension travel:** ~180mm
- **Approach/ Departure/ Breakover Angle:** 40deg/ 37deg/ 133deg
- **Fording:** Min 950mm (Unprepared), Min 1.5m (Prepared)
- **Braking:** Tested to UNECE Reg 13
- **Reduced noise and vibration:** UK Whole Body Vibration and EU Legislation Compliant
- **EMC:** Tested to Def Stan 59-411 and UNECE Reg 10.05
- **CTIS:** Function Installed
- **Fully transferrable technology:** Utilising a retrofittable system designed by NP Aerospace which can be integrated onto various platforms



PMETS PROGRAMMES

NP Aerospace is the engineering authority for more than 2000 UK Ministry of Defence Protected Mobility Fleet vehicles. These include the Mastiff, Wolfhound, Ridgback, Buffalo, Choker, RODET, Foxhound, Jackal, Coyote and Husky. PMETS projects have included new technologies such as hybrid electric drive, vehicle autonomy, ADAS system integration, platform safety improvements and vehicle mobility enhancements.

UK & Global +44 (0) 24 7670 2802 〉 USA +1 813 694 7162 〉 Canada +1 519 659 1414 〉 npaerospace.com