

ARGUS Robotics: MRAP Support/Recovery Vehicle



http://en.wikipedia.org/wiki/File:Cougar_Hit_By_IED.jpg

Current problem: Mine Resistant-Ambush Protected (MRAP) vehicles protect against roadside bombs and ground attack, but nonetheless, the vehicles can be damaged. Such explosions can make the MRAP unable to move, this requires a support team to retrieve the vehicle. After the initial explosion, there exists a very serious threat of secondary explosions. If such explosions occur, Soldiers may be killed or injured.

Solution: The MRAP recovery vehicle would be based on a COTS design as shown in this document. With the MRAP vehicle unable to move, the recovery vehicle would be deployed to clear an exit path for Soldiers to be quickly removed from the area, and the threat of a secondary explosion. In addition, with the recovery team in its own MRAP vehicle, the recovery vehicle would be operated to scan, mark, and remove any secondary roadside bombs by use of ground radar and/or mine detection devices.

Benefit: Once the area is clear the recovery vehicle can help pick up debris, and by doing so reduce the recovery time. Additionally, as part of the MRAP team, the recovery vehicle can become a support design to advance into unknown areas, exploring potential IED sites and examine road conditions. Performing such tasks reduces the risk of damage to the MRAP, thus saving costs and lives.

Group	Use	Availability	Cross Reference	Technical Reference	Price
Military	Primary	120 days	A1, A2, A3, A3a, A4, A6, A7, A8	B1, B2, B3	\$75,000
Construction	N/A				
Industrial Mining	N/A				
Homeland Security	Secondary				

U.S. Patent Nos. 7,267,354, 7,275,459, 7,565,941, and Patents Pending.

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