HD R&D Field Evaluation: Medium Minewolf

U.S. Humanitarian Demining Research and Development

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The Medium MineWolf (MMW 330) is a powerful mine clearing system that uses large earth tilling and flail attachments to neutralize landmines. The tiller’s teeth engage the ground to a depth of 25 centimeters, physically destroying anti-personnel (AP) and anti-tank (AT) landmines, and mulching vegetation up to 15 centimeters in diameter. The 2.6 meter wide flail is also capable of neutralizing mines in areas with light to medium vegetation. The MMW 330 can survive both AP & AT mine blasts. Clearance rates of 8,000–15,000 square meters per day can be achieved depending on soil and vegetation type. The Medium MineWolf can be operated manually or by remote control. The video monitoring system allows the system to be operated from a safe distance when under remote control. It also gives minefield supervisors the ability to monitor system operation whether the system is under manual or remote operation.

STATUS

The Medium MineWolf successfully completed a technical evaluation in December 2015. The system has been deployed to Thailand where it is undergoing an operational field evaluation with the Thailand Mine Action Center.
FEATURES

- Remote-controlled operator station with video monitoring
- Entire system fits into two containers; one of which is a 40 foot unit for the vehicle, while the other is a 20 foot workshop container. The latter also serves for transportation and storage
- Capable of operating with cab installed (man in the seat) or without the cab during remote operation

APPLICATIONS

- Area reduction
- AP mine clearance
- AP and AT quality control/assurance
- Technical survey

SPECIFICATIONS

- Operating Weight: 15,960 kg
- Length, Width, Height: 6.48 x 3.17 x 3.75 m
- Clearance/Working Width: 2.6 m
- Max. Clearance Depth: 25 cm
- Diesel Engine Power: 240 kW / 330 HP
- Fuel Capacity: 300 l
- Max Clearance Rate: 25,000 m²/day
- Vegetation Cutting Capacity: 15 cm
- Winch Power: 70.6 kN
- Max. Remote Control Distance: 1,000 m
- Transit; Operational Speed: 0.8 km/h; 1.5 km/h