



UNITED STATES DEPARTMENT OF DEFENSE

HUMANITARIAN DEMINING R&D PROGRAM

An armored excavator with a versatile suite of digging, sifting, and shredding attachments

STATUS

Lebanon—Mines Advisory Group (MAG) began an evaluation of excavator attachments in May 2012.

Chile—The National Demining Commission evaluated a Multi-Tooled CAT 320 from 2007 to 2020. The system processed more than 622,277 m³ of contaminated soil and recovered over 16,200 AT and AP mines.

Afghanistan—Since 2007 the HALO Trust has evaluated two sifting buckets, clearing >247,000 m³ of contaminated soil and finding >380 mines/UXO.

Iraq—Since 2009 MAG has evaluated a Rotar and two ALLU buckets, clearing over 2,240 mines and UXO from 277,000 m³ of contaminated soil.

Honduras—Completed an 2003-04 evaluation excavating minefields deeply buried under mud slides.

Cambodia—Completed a 2006-10 evaluation.

Multi-Tooled Excavator

Providing reach-in capability for safe operations with manned equipment, Multi-Tooled Excavators offer highly flexible platforms from which operators can conduct ground preparation and specialized mine clearing processes. The cab is armored to protect the operator from a mine blast and several modified commercial-off-the-shelf excavator digging and sifting attachments have been incorporated. The tools, including implements for sifting, shredding, and combined function excavation and sifting, expand the existing capabilities and increase the flexibility of excavator-based clearance processes. When



equipped with the right mix from the suite of more than a dozen tools, the system can be tailored to suit a variety of local conditions and requirements of the typical demining organizations.

Cutting-Edge Solutions
DEMINING TECH
MINE CLEARANCE & AREA PREP



FEATURES

- Armored operator cab
- Working stand-off distance of 4-8 m
- Quick attach coupler provides easy changing of tools in minutes
- Suite of digging, sifting, and shredding tools tailored to soil type, vegetation, mine threat, and clearance process
- Can be fitted to organization's excavator

APPLICATIONS

- Multi-Tooled Excavators can clear large amounts of heavy vegetation, excavate and sift mine soils, and dig and sift buried mines unreachable by conventional methods

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Several of the Multi-Tooled Excavator's suite of attachments:

