The Mantis System is a set of specialized tractor attachments used in mine action. Armored tractors and loaders fitted with area preparation or clearance attachments can cover large areas of AP mine suspect land. Ground engaging implements loosen hard soil for manual deminers and expose mines. Magnets, including the HD R&D-developed Power Harrow + Magnet which engages the soil, remove metallic clutter that triggers detectors. Rollers locate mined areas and reduce suspect area. Tractor attachments include:

- Grab bucket
- Tree picker
- Soil sifter
- 4 in 1 bucket
- Bedformer
- Roller
- Spring rake
- Rotary mine comb
- Rotary mower
- V-form cultivator
- Magnet
- Power Harrow + Magnet
- Megastar Sifter

Mantis is clearing high density AP minefields in Afghanistan with the HALO Trust. Initially on an armored John Deere tractor and now on HALO’s tractors and loaders, Mantis attachments have processed 3,559,000 square meters and recovered over 28,300 mines and unexploded ordnance.

Mantis tractor and attachments completed a successful operational field evaluation in Nicaragua where it performed area reduction and quality assurance operations.
FEATURES

- Agricultural tractor and loader tools are versatile in mine action
- Setco solid rubber tires and mine roller can withstand many AP mine blasts

APPLICATIONS

- Area preparation, threat reduction, and quality assurance in AP suspect areas

Magnet attachments reduce minefield clutter

Roller

V-form cultivator

Modified Standen Pearson Megastar Soil Sifter

Photos courtesy of HALO Trust