Multi-tool Attachments for Demining

The Humanitarian Demining Research and Development (HD R&D) Program has developed a wide variety of excavator and loader based tools for mechanical mine clearance. These attachments give deminers the capability to perform area preparation, technical survey and mine clearance from a safe area. Tools that have proven useful include vegetation cutters, grapples, tillers, and buckets for sifting, grinding, and crushing. Development of sifting buckets capable of working in wet soil conditions took place in FY 2015. Deployed to Guadalcanal (this OFE is now complete), Cambodia and Zimbabwe, these buckets enable work to continue in rainy conditions that otherwise would halt operations. The HD R&D Program has modified several small, medium and large class excavators with armor protection and interfaces needed to use these tools in various demining environments. Operational Field Evaluations (OFE) can be performed with HD R&D Program developed excavators or loaders, or with just the tools mounted to the demining organization’s own host equipment.
Several of the many excavator based demining tool attachments:

**APPLICATIONS**

- Vegetation removal to include full size trees
- Technical survey
- Mine clearance by sifting, tilling, grinding, or crushing

**FEATURES**

- Provide reach-in mechanical mine clearance capability from a safe area
- Large variety of attachments can meet many mechanical mine clearance situations
- Adaptable to host nation owned excavators and HD R&D Program assets
- Commercially available tools facilitates worldwide support

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