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HD R&D Field Evaluation: Rebel Crusher

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Recommended Citation

and Development, U.S. Humanitarian Demining Research, "HD R&D Field Evaluation: Rebel Crusher" (2020). *Global CWD Repository*. 1399.
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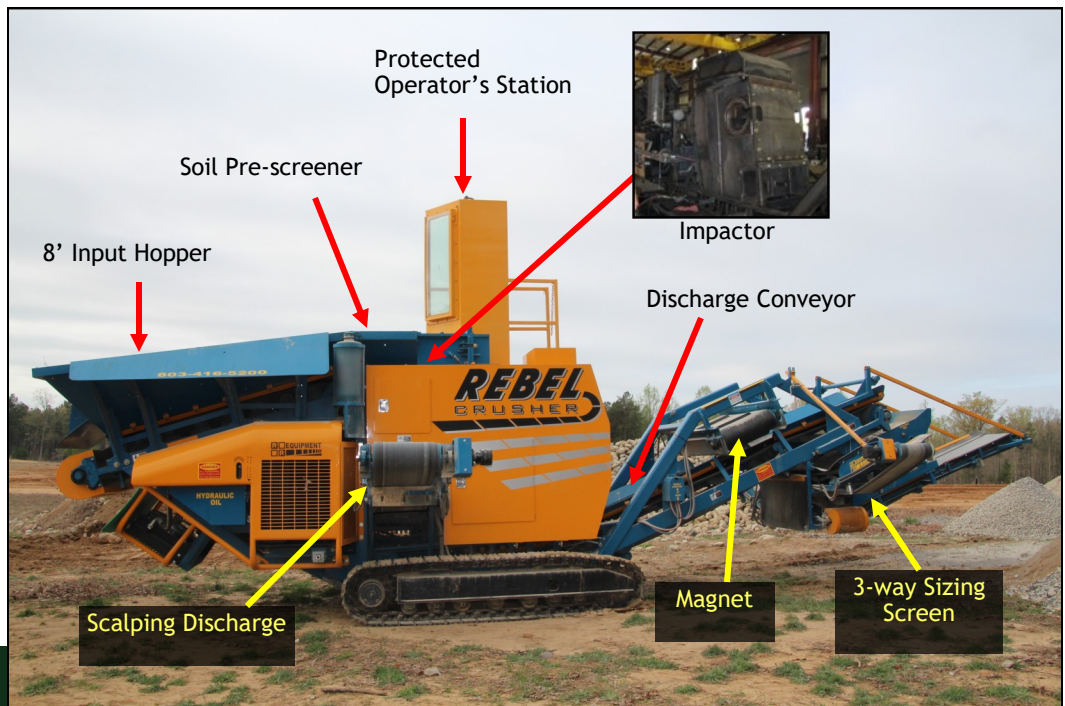
UNITED STATES DEPARTMENT OF DEFENSE

HUMANITARIAN DEMINING R&D PROGRAM

Rebel Crusher

Modified commercial rock crusher, hardened to withstand mine blasts. For use in rough mine contaminated conditions such as rocky soil and urban rubble

The Rebel Crusher is a combined mobile soil sifter and rock crushing plant modified for demining operations. It is designed to operate in areas where a significant fraction of the soil is composed of mine-sized objects (rocks) which make sifting difficult, or where dense metallic clutter makes mines undetectable. Modifications to the system include hardening the crushing chamber to withstand anti-personnel mine blasts, adding a protected operator's station, and increasing the capacity of the sifting mechanism. The Rebel Crusher is capable of processing 75-125 tons of soil per hour. The system successfully completed a technical evaluation in early 2013. It is now in Iraq



Status

The Rebel Crusher is undergoing an operational field evaluation (OFE) by the Mines Advisory Group in Iraq.

where it is undergoing an operational field evaluation (OFE) by the Mines Advisory Group, an international demining non-governmental organization conducting mine clearance operations in Iraq.

FEATURES

- Large capacity for increased productivity
- Hardened to withstand repeated mine blasts
- Sifting stage conveyor enlarged to allow higher soil content necessary for demining
- Protected operator's station



Live TAB-1 and PMN mines after crushing



SPECIFICATIONS

Rebel Crusher

Weight	14.5 metric tons (16 tons)
Width / Height / Length	2286mm (90") / 2591mm (102") / 8890mm (350")
Hopper Capacity	3 cubic yards
Engine	200HP Deutz liquid cooled
Crusher Inlet Feed Opening	508mm x 914mm (20" x 36")
Diesel Fuel Consumption	31l (8 gal) per hour
Diesel Fuel Capacity	246l (65 gal)
Avg Operating Time per Tank	8 hours
Hydraulic Pressure (Crusher and/or Track)	Crusher and/or track—344 Bar (5000 PSI) All other components—242 Bar (3500 PSI)

APPLICATIONS

- Rugged mine contaminated areas such as rocky soil, urban rubble, stream beds, trash heaps, building ruins, road beds and areas under pavement

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