The REX is a small, lightweight (8 ton class), armored excavator designed to clear vegetation, reduce obstacles, and mechanically remove and neutralize anti-personnel (AP) landmines and unexploded ordnance (UXO). The HD R&D Program developed and integrated two important modifications to the commercial Terex TC75 excavator to create the REX. These include the addition of remote control and armor protection for the operator when manually operated. The REX features several attachments including sifting buckets, a grinding bucket, a vegetation cutter, a grapple and standard excavating buckets.

REX

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REX with its mine sifting bucket attachment in Angola during initial operator training with MAG deminers

Cambodia: REX completed an operational field evaluation with the Mines Advisory Group (MAG) in 2014, during which the system cleared over 118,700 m² of mine-suspect area while clearing 51 mines and UXO.

Angola: An operational evaluation with MAG began in February 2016, where the REX has cleared over 15,641 m² to date.

Sri Lanka: MAG and The HALO Trust are conducting a joint evaluation to maximize utilization of the REX. The two NGOs have cleared a combined total of 62 mines and UXO from over 94,300 square meters to date.

Distribution Statement A: Approved for public release.
**FEATURES**

- Remote-controlled operation with video monitoring
- Manual operation capability
- Reach-in technology allows for safe operation of vehicle without entering the minefield
- Small, robust remote allows easy operation
- Excavator platform allows tailored tool options, including vegetation cutting, obstacle removal, excavation, sifting, and grinding

**SPECIFICATIONS**

- **Operating Weight**: 7,750 kg (17,086 lb)
- **Width**: 2.30 m (7’ 6”)
- **Min Height**: 4.30 m (14’ 3”)
- **System Pressure**: 280 bar (4060 psi)
- **Diesel Engine Power**: 53 kw (72 HP)
- **Fuel Capacity**: 140 L (34 Gal)
- **Max Travel Speed**: 5.2 km/hour
- **Vegetation Cutting Capacity**: 20 cm
- **Hyd Flow Rate**: 27 GPM
- **Max. Remote Control Distance**: 1000 m
- **Transit/Operational Speed**: 2.7 Km/hour
- **Max Dig Depth**: 4.44 m (14’ 7”)
- **Max Reach**: 7.44 m (24’ 5”)

**APPLICATIONS**

- Remote-controlled operation with video monitoring
- Manual operation capability
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**FEATURES**

- **REMOTE VIDEO STATION**
- **TRENCH DIGGING**
- **RIDDLE SIFTING ATTACHMENT**
- **ALPINE GRINDING ATTACHMENT**