



UNITED STATES DEPARTMENT OF DEFENSE

HUMANITARIAN DEMINING R&D PROGRAM

STORM

An agile walking excavator with a suite of attachments for vegetation removal, sifting/grinding, and excavating

The Severe Terrain Off Route Menzi Muck (STORM) is a commercial excavator designed to remove vegetation and clear mines in rough and steep terrain. Its four spider-like legs allow the excavator to work on slopes of up to 70 degrees and maneuver around obstacles with ease. Dual hydraulic pumps enable it to use a wide variety of commercial attachments including a standard excavating bucket and a unique cutting head which can cut trees up to 20 centimeters in diameter. The system's hydraulic lines are specifically designed to stop flow to a ruptured circuit such as in one leg in the event of damage from a mine blast.

STATUS

STORM completed a successful operational field evaluation in Cambodia with The HALO Trust in 2015. STORM cleared 790 mines and UXO from over 62,700 m² of trenches and defensive positions in extremely difficult terrain where no other clearance means were possible.

The system is now in Afghanistan where HALO began a new OFE in May 2016. To date STORM has cleared over 127,300 square meters of land in very rugged terrain while finding 90 mine and UXO.



STORM with commercial sifting attachment reduces contaminated soil

Cutting-Edge Solutions
DEMINING TECH
MINE CLEARANCE & AREA PREP



FEATURES

- Independently movable legs allow STORM to operate on very steep and uneven terrain
- Shut off valves allow the operator to shut off hyd. fluid flow to each leg in the event of a mine blast
- Reach in capability along with an armored cab allow for maximum protection for the operator
- Many commercial attachments can be fitted to STORM

APPLICATIONS

- To provide a machine with the ability to “reach in” and clear vegetation, trip wires, and assist in area reduction/preparation as a precursor to manual mine clearance

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SPECIFICATIONS

Length	5 to 12 m
Width	2.5 to 8 m
Height	2.5 to 8 m
Weight	23,000 lbs
Lifting Force Max	12,277 lb / 6000 kg
Breakout Force	16,546 lbf / 73,600 N
Ripping Force	15,688 lbf / 69,784 N
Power	104 kW / 140 hp
Max Road Speed	10 km/h / 6.25 mph

