Badger

Badger is a 13-ton medium class excavator that can cut vegetation, dig and remove mines and UXO from contaminated soil, and prepare suspect areas for demining operations using a suite of specialized and commercial excavator tools.

Badger’s reach-in capability allows the machine to travel in cleared areas and operate tools inside suspect areas while protecting the operator inside the armored cab. The Badger’s tools run off on-board power without the addition of a heavy auxiliary power unit. A priority flow valve allows the operator to adjust the amount of hydraulic flow to the tools, thus optimizing the performance of each tool.

STATUS

The Badger is undergoing operational field evaluation (OFE) in Cambodia with the Mines Advisory Group (MAG). To date, MAG has cleared 1,698 mines and unexploded ordnance from over 620,000 square meters of land.

In February 2019 Badger completed an OFE on Guadalcanal with the Golden West Humanitarian Foundation. The Badger helped Golden West clear over 6,100 abandoned and unexploded World War II ordnance items from 1,400,000 million square meters of land.
**SPECIFICATIONS**

- **Operating Weight**: 13,600 kg (29,920 lb)
- **Transport length, width, height**: 25’x8’6”x9’ (7.62x2.59x2.74 m)
- **Engine Type**: 4 cylinder turbocharged diesel
- **Net Engine Power**: 106 hp (79 kW) @ 2200 rpm
- **Torque, peak**: 325 ft-lb (449 Nm) @ 1450 rpm
- **Combined Hydraulic Pump Output**: 66 gpm (250 lpm)
- **Hydraulic System Relief Pressure**: 4,975 psi (34.3 MPa)
- **Max Travel Speed**: 3.5 mph (5.6 kpm)
- **Ground Clearance**: 1’5” (0.43 m)
- **Overall Reach Height**: 31’ (9.45 m)
- **Max Dig Radius**: 28’8” (8.74 m)
- **Dig Depth**: 19’5” (5.91m)
- **Average Fuel Consumption**: 2.5 gallons/hour (9.5 liters/hour)

**FEATURES**

- Armored cab
- Excellent maneuverability and ability to cut around larger trees
- Priority flow valve allows for adjustment of hydraulic flow to optimize tool performance without degrading performance of other excavator functions
- Badger was designed with consideration of size, weight, fuel efficiency and maximum power output

**APPLICATIONS**

- Vegetation removal, area preparation and soil sifting using the reach-in excavator arm
- Armored cab to safely work in AP mine or UXO contaminated soil

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