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HD R&D Field Evaluation: Bearcat

U.S. Humanitarian Demining Research and Development
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UNITED STATES DEPARTMENT OF DEFENSE

HUMANITARIAN DEMINING R&D PROGRAM

Remote-controlled commercial skid steer chassis for dense vegetation removal and area preparation.

Bearcat

The Bearcat is a remote controlled, skid-steer chassis integrated with a vegetation cutter and a remote monitoring system for operation in suspect mine and UXO contaminated areas. Bearcat utilizes a completely commercial-off-the-



Bearcat clearing vegetation in Cambodia

STATUS

The Bearcat is undergoing operational field evaluations in Cambodia with the Mines Advisory Group (MAG) and in Colombia with The HALO Trust. They have cleared over 3,360,000 m² of vegetation in UXO and mine contaminated areas, providing access for battle area clearance and demining teams.

shelf (COTS), plug-and-play remote control system, and is designed for a wide range of area preparation tasks. The system allows demining and battle area clearance teams to quickly and efficiently remove vegetation for follow-on manual clearance teams. The system is capable of cutting trees up to 30cm in diameter and can utilize a wide range of skid-steer implements.

Cutting-Edge Solutions
DEMINING TECH
MINE CLEARANCE & AREA PREP



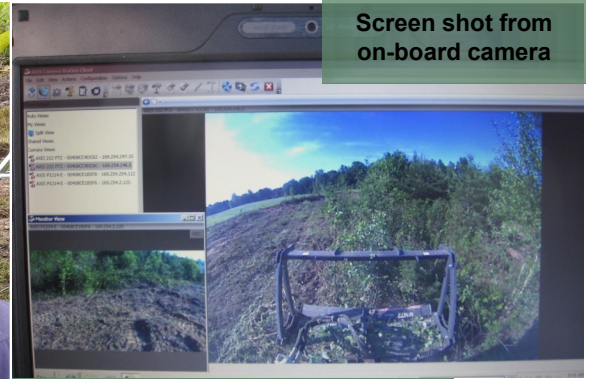
FEATURES

- Commercial-off-the-shelf (COTS) Remote control system.
- Remote monitoring system with up to four cameras.
- Multipurpose, skid-steer chassis, utilizing a wide arrange of implements.

Remote control unit in operation



Screen shot from on-board camera



New Diamond Cutter vegetation clearing attachment



APPLICATIONS

- Vegetation clearance with a Bradco MM72-II Mulcher.
- Grapple bucket, standard bucket, tree shear, and other implements for area preparation tasks.



BEARCAT T-870 SPECIFICATIONS

Horsepower	99.2 hp
Travel Speed	12.7 kph / 7.2 mph
Hydraulics	23.8 gpm standard flow, 37.7 gpm high flow @3500 psi
Track Width	45 cm / 17.7 in
Track Length	175 cm / 68.9 in
Length w/o attachments	303 cm / 119.3 in
Width w/o bucket	210.8 cm / 83 in
Height	211.8 cm / 83.4 in
Weight	5751 kg / 12,678 lb

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