



Maneuver Support Center
Fort Leonard Wood

Engineer Robotics

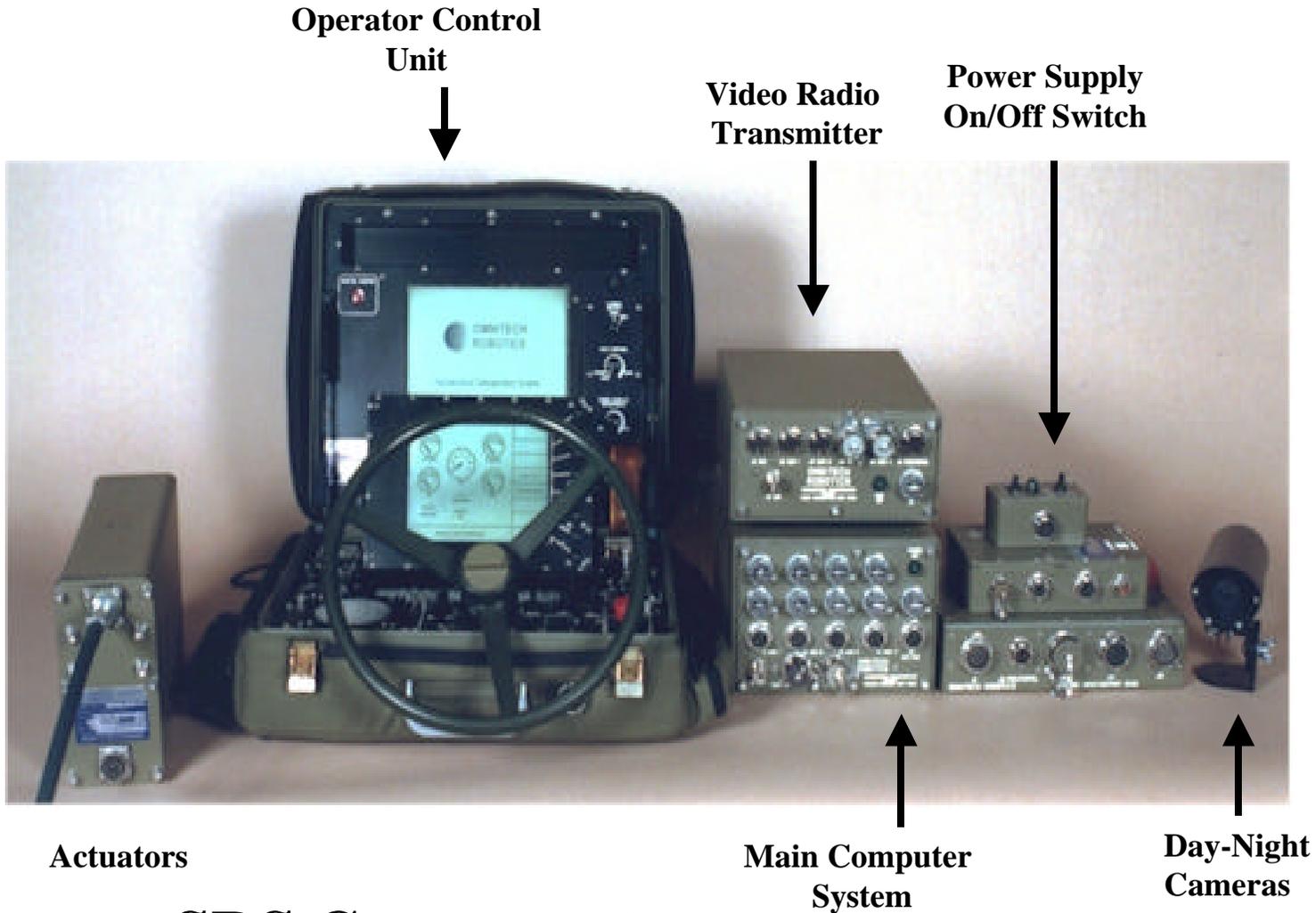
MANSCEN Engineers Have Three Robotics Programs

- **Standard Robotic Program (Milestone II)**
 - **Add-on Teleoperation Robotic Control Kit**
- **Robotic Combat Support System (Milestone 0)**
 - **Replacement for Mini Flail**
- **Light Equipment Man-Packable Robot (LEMR) (New)**
 - **Urban, Tunnel, Sewer, Bunker Reconnaissance**



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SRS Components

6/15/00



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Standard Robotic System (SRS) Requirements



Abrams Panther



DEUCE



JD450 Air Assault



IVMMD



IAV Engr



D7G+MCAP



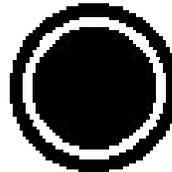
DEUCE



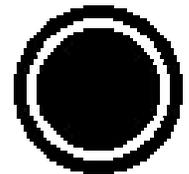
GSTAMIDS

2001.....2002.....2003.....2004.....2005

IBCT



IBCT



Missions: Remove Operator for:

- Urban Rubble Clearing
- Clear Obstacles and Debris
- Detect / Neutralize Surface / Scatterable Landmines

6/15/08





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Robotic Interim Vehicle Mounted Mine Detection (IVMMD)



MISSION

Mine Detection
Mine Marking

6/15/00

TOE

Contingency

Total

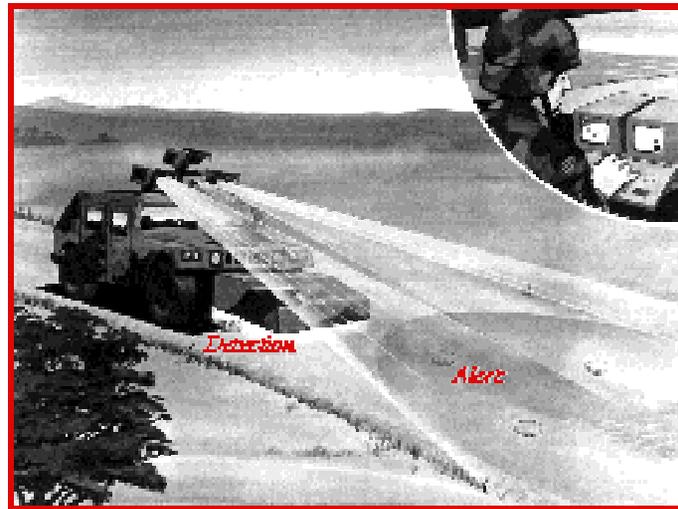
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SEMI-AUTONOMOUS GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS)



— We Clear the Way —

FIRST UNIT

MISSION

REQUIRED

FIELDING DATE

Mine Detection
Mine Marking
6/15/00

87

FY 05



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Abrams Panther



MISSION

Area Proofing
Route Proofing
6/15/00

REQUIRED

6 Contingency
(USAREUR Only)

**FIELDING
DATE**

FY 01



Maneuver Support Center
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Robotic Combat Support System (RCSS)



6/15/00

• Missions:

- Replacement for the Mini Flail
- Clear Lane in AP Landmines/Wire Obstacles
- Create Man-sized Hole in Walls
- Deploy Protective Smoke (LVOSS)
- Dismounted “Robotic” Load Carrier
- Robotic and Armored
- Modular “Add-on” Capability



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Robotic Combat Support System Fielding



2001.....2002.....



2003.....2004.....2005

**Contingency
Mini Flails**

**Issue Prototypes to IBCT
Engineer Companies**

6/15/00



Fielding: FY 03



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Engineer Robotics

Light Equipment Man-Packable Robot

(LEMR)



- **Missions:**

- **Engineer Situation Awareness**
 - **Urban Environments**
 - **Tunnel and Sewer Environments**
 - **Damage Assessments**
 - **Buildings**
 - **Bridges**
 - **Structures**



07/15/00



Maneuver Support Center
Fort Leonard Wood

Engineer Robotics

Light Equipment Man-Packable Robot (LEMR)

Fielding and Schedule



2000.....2001.....2002.....2003.....2004.....2005.....2006

New Requirement

**Issue Prototypes to IBCT
Engineers**

6/15/00 **Complete Milestone 0-III**

IBCT



Fielding: FY 04