

Forward Repair System (FRS)

Repairs battle-damaged combat systems “on-site,” up through the direct support level, in the forward battle area.

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



Description & Specifications

The Forward Repair System (FRS) is a high-mobility, forward-maintenance/repair module system that reduces man-hours for maintenance personnel. Mounted to a flatrack, it is transported by Palletized Load System (PLS) trucks in Force XXI Divisions, or by Heavy Expanded Mobility Tactical Truck-Load Handling System (HEMTT-LHS) in Stryker Brigade Combat Teams (SBCTs).

- Dimensions: 8 feet wide by 8 feet high by 20 feet long
- Weight: 24,600 pounds
- Air transportability: C-130, C-141
- Crane capacity: Remove and replace major components from supported tracked and wheeled vehicles. Crane is capable of lifting and maneuvering 10,000 pounds at 14-foot radius. Frees recovery assets to perform their intended mission.

- Generator capacity: Provides 35 kilowatts at 60Hz output. Capable of simultaneously providing electrical power for all subsystems, including power take-off (PTO) for crane. Noise level is 73dB at 7 meters.
- Air compressor: Provides 175 pounds per square inch at 50 cubic feet per minute. Eighty-gallon capacity supplies air for on-board pneumatic tools, inflation of tires, and compressed air cleaning.
- Welding and cutting equipment: Limited spot welding and cutting equipment (shielded metal and “stick” welding, metal inert gas “MIG” welding, and exothermic cutting/brazing).
- Tools: Industrial grade hand/pneumatic/power tools. FRS’s tool load is functionally equivalent to #1 common tool kit
- Shelter/protection: Contains a canvas tarp and heater that protects from the weather yet preserves access to welding, air, and accessory tools
- Air jacks/bags: Two, Kevlar, each capable of lifting 40,000 pounds up to 15 inches
- Rapid inventory: 720 line items are stored in draws with foam cut-outs of each tool for rapid inventory identification.

Program Status

- **Current:** In production

Projected Activities

- Field to 1 MX AV BDE; 577th Engineering Battalion (TRADOC); SBCT 6; 3rd Infantry Division, 3rd and 4th Brigade Combat Team; 30 AR BDE; North Carolina National Guard; 1st Armored Division, 12th Combined Arms Battalion

ACQUISITION PHASE

Concept & Technology Development

System Development & Demonstration

Production & Deployment

Operations & Support

Forward Repair System (FRS)

FOREIGN MILITARY SALES

None

CONTRACTORS

Rock Island Arsenal (Rock Island, IL)
 Grove Worldwide (Shady Grove, PA)
 Snap-on Industrial (Crystal Lake, IL)
 Cummins Power (Minneapolis, MN)
 Ingersoll-Rand (Campbellsville, KY)

