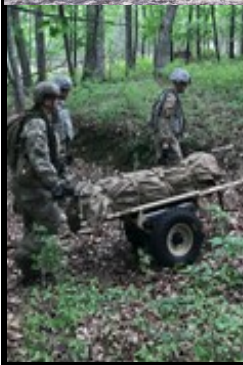




# STEED™

SILENT TACTICAL ENERGY ENHANCED DISMOUNT



### Capability Description

- Innovative solution to lighten the load for dismounted troops and enhance close combat lethality and human performance
- All-terrain, electric powered cart. Water fording, zero turning radius, tactically silent, zero emissions, ascend/descend stairs
- Enables single operator to move up to 500 lbs. 15-20 miles
- Collapsible to 30" length and fits in rotomolded case, transport in UH-60, MRZR bed, LMTV between troops, air deployable, towable, etc.
- Versatile payload platform, low center of gravity allows variety of payloads
- Small tactical unit dominance STEED enables:
  - 1) Increased load capacity
  - 2) Human Performance - reduced fatigue and stress, extended range and duration
  - 3) Sustainment – ammo, water, food, reduced resupply
  - 4) Squad expeditionary power – over 72 hour supply
  - 5) Heavy weapons - .50 cal, 81mm mortar, MK47, Javelin, APOBS 45m
  - 6) Dense urban and CBRN – subterranean, urban, ballistic shield protection, breaching equipment, contaminated items, heavy equipment
  - 7) Rapid CASEVAC – 1:1 ratio
  - 8) Carry medium UAV/UGVs

### System Operational Performance

- Participated in AFC/SOCOM Combat Validation April-May 2019, AEWE19, and has been fielded by units OCONUS. System was tested by government subject matter experts (AWG, ARL, HRED) in real-world mission scenarios:
  - 1) Mission time: **35-64% reduction** in mission times, essentially 3x faster dismounted movement
  - 2) Soldier Performance: **60% reduction** in calorie burn, less effort, lower exertion
  - 3) Sustainment and Soldier Load: **400% payload increase** and reduction in metabolic rate
  - 4) Mission Effectiveness and Security Posture: **80% reduction** in troop to task
  - 5) CASEVAC: 17% lower accelerations on patient, **1:1 soldier to casualty ratio** for movement
  - 6) Dismounted Power: Provides small unit expeditionary power **exceeding 72-hour mission**

### Capability Gap

- Identified soldier load capability gaps, wheeled carts recommended:
  - 2016 AMEDD, Injury Prevention, 12-008-0416
  - 2017 Army Technique Publication – Foot Marches, ATP 3-21.18 (FM 21-18)
  - 2018, MCoE Industry Day, TCM-IBCT – soldier load top-5 challenge
  - 2018, CNAS, Soldier’s Heavy Load – ARL sponsored report highlighted consequences of heavy burdened dismounted troops

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U.S. Patent 10,654,503