

United States Special Operations Command (USSOCOM)
Program Management Office – Expeditionary Support (PM-ES)
Mobile Technology & Repair Complex (MTRC)

Portable Welder Combat Evaluation Challenge

Top Level Requirements Guidance

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Welder 1 Notional Top Level Requirements: For in-shop / home-station use. Provides Steel & Aluminum MIG, Flux-Core, Stick, DC & AC TIG, and Pulsed-MIG capabilities at power and duty-cycle ratings comparable to the Miller 255 specifications.

Welder 2 Notional Top Level Requirements: For mobile use (i.e. in a commercial ground vehicle). Provides a smaller, portable, and heavy duty capability, packaged in a pelican-style case (or like system) and have Steel & Aluminum MIG, Flux Core, Stick, and DC & AC TIG capabilities. Intent is to be light enough for a single person to easily move in hard to reach areas. Comparable to the Millermatic 200 functionality / portability; however have an increase capability compared to the Millermatic 200's power rating / duty cycle in conjunction with improved durability and functionality of peripherals – specifically the MIG gun, Spool Gun, TIG kit and/or other like items.

Additional Notional Top Level Requirements: Not to exceed 2 welding systems. Input Power @ 100-240V, 1ph, 50-60Hz. Plug adapters for different sources is the notional objective. Standard U.S. 110V receptacles or NEMA 6-50 220V 50A receptacles preferred. Portable Model should not exceed 40 lbs. (not including durable case), Fixed Site model should not exceed 100 lbs.