



# Remote Exothermic Welding Systems Comparison

## Harger® UltraShot™

## CADWELD® PLUS

### UltraShot™ Controller



### Plus Controller



### Welding Ignition Source

- Low Voltage, Momentary Current
- Hot Filament
- Instant ignition
- As battery drains:
  - Instant ignition
  - No delays

### Welding Ignition Source

- High Voltage, Capacitive Discharge
- Spark Gap
- Capacitors charge before ignition
- As batteries drain:
  - Longer charge time for capacitors
  - Longer delay until ignition
  - Per ERICO® →

### Igniter Lead

- Removable lead
- Water-tight cannon connector
- Storable inside controller unit
- Different length leads easily interchanged



**“Press and hold Control Unit switch and wait for ignition”**

### Igniter Lead

- Hardwired into unit
- Difficult to replace lead
- No internal storage for lead





# Remote Exothermic Welding Systems Comparison

## Harger® UltraShot™

## CADWELD® PLUS

UltraShot™ Controller

Plus Controller

### Energy Source

- 12 Volt Rechargeable Battery
- Deep Cycle AGM (Sealed Lead Acid)
- Dual Stage Charger
  - Included with controller
  - Won't overcharge or damage battery

### Energy Source

- Eight - AA Alkaline Batteries
  - Disposable
  - Rechargeable

### Battery Life

- 600 Shots/Charge
  - Battery life 600-800 Charges
  - 420,000 Shots Over Life of Battery
- 600 shots/charge x 700 charges = 420,000 shots**

### Battery Life

#### Disposable Batteries

- Maximum 40 Shots / Eight AA
- **Consumption Cost = \$0.15 / shot**

#### Rechargeable Batteries

- 40 shots/charge x 150 charges = 6,000 shots

When using an UltraShot™ Controller versus a CADWELD® Controller, you can expect to save:

**\$63,000 on AA batteries or  
\$1,750 in rechargeable batteries!**



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