Your complete source for Pin and Stud Welding Systems:

**EAGLE**
Our base model Capacitor Discharge Welding System; 110 volt powered; welds pins and studs up to 1/4” (M6) diameter in mild steel, stainless and aluminum.  
Weight: 26 lbs.  
Dimensions: 10” Wide x 13” Deep x 8 1/2” High

**TALON**
Our “insulation model” portable Capacitor Discharge Welding System; includes all the features of EAGLE, plus cuphead (through-insulation) weld pin capacity.  
Weight: 30 lbs.  
Dimensions: 10” Wide x 13” Deep x 8 1/2” High

**UA 1000**
Three-phase, Transformer Rectifier for studs up to 5/8” diameter.  
Weight: 500 lbs.  
Dimensions: 22” Wide x 40” Deep x 30” High

**UA 1800**
Three-phase, Transformer Rectifier for studs up to 7/8” diameter.  
Weight: 650 lbs.  
Dimensions: 22” Wide x 40” Deep x 30” High

**UA 500**
Single-phase, Transformer Rectifier for studs up to 1/2” diameter.  
Weight: 160 lbs.  
Dimensions: 16” Wide x 16” Deep x 41” High

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**SURESHOT Ultra Light Portable PIN WELDER**

**ELECTRICAL SPECIFICATIONS**

| Voltage | 110/220VAC |
| Current | 15/7.5 Amp |
| Hertz | 50/60Hz |
| Capacitance | 100,000 uF |

**CAPACITY SPECIFICATIONS**
- Charge Time: <3 seconds to maximum charge
- Duty Cycle: 24 welds/minute at maximum voltage
- Mode - Capacitor Discharge: Contact

**OPERATIONAL SPECIFICATIONS**
- Indicator Lights (3) • Resettable Breaker
- Thermal Fan • Safety Shutdowns
- 7-Segment Digital Display

**WELD GUN**
Weight: 1.6 lbs. (73 kg) [not including cable]  
Size [LWH]: 4 7/8” x 2” x 5 3/4”  
[124mm x 51mm x 146mm]  
Material: High strength, impact resistant polycarbonate

**CABLES**
Ground Cable: #4 x 15 ft. [4.6m] one each  
Gun Cable Set: #4 x 18/2 x 20 ft. [6.1m] direct from gun

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Call 1-800-852-8252  
See www.midwestfasteners.com

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**VIDEO SERIES I:**  
Capacitor Discharge Welding
Design
• What is Capacitor Discharge (C.D.) Welding?
• How does it work; what should be expected?
• Is this for me, my Company, our Jobs?

Evaluation
• What can be done with this tool?
• What are some popular applications and uses?
• Are we using C.D. properly?

Training
• Introduce personnel to new process
• Provide resource for designers, users and supervisors
• Refresh users and operators with proper techniques

Troubleshooting
• Get back to basics; assure procedures & processes
• Optimize uses for Pin- and Stud-Welding
• Address Repairs and Problems in the Field

Applications

Introduction
WHAT IS CAPACITOR DISCHARGE STUD WELDING
First in a series, this video shows the basics of Capacitor Discharge Stud Welding. Employing a portable, 110 volt, Solid State Welder with handheld C.D. Gun, illustration is made of the process, components, operations and welded results of this high speed, fastening process.

Installation
HOW TO INSTALL CUPHEAD WELD PINS
This video shows basics of setting up the Capacitor Discharge Pin Welder for the Cuphead Pin Welding process. Employing a portable, 110 volt, Solid State Welder with handheld C.D. Gun, illustration is made of the parts & components needed for the operation and welding with this high speed, fastening process.

HOW TO INSTALL WELD PINS AND WELD STUDS
This video shows welding with the Capacitor Discharge Stud process for C.D. Weld Pins and C.D. Stud sizes. On screen demonstration is made of this stud welding process, stud welder parts & components, leading up to welding operation this high speed process. Popular types of Weld Pins and Weld Studs are shown with installation techniques.

Testing
HOW TO TEST WELD PINS, WELD STUDS AND CUPHEAD WELD PINS
The final video in a series of 8, this video shows weld testing with the Capacitor Discharge Stud process for C.D. Weld Pins, Weld Studs and Cuphead Weld Pins. Reviewing the stud welding process, stud welder parts & components, leading up to welded Fasteners with this high speed process, testing of finished welds of Weld Pins, Cuphead Weld Pins and Weld Studs are shown.

How to...

HOW TO SET UP CAPACITOR DISCHARGE WELDING SYSTEMS
See a step-by-step, on-screen demonstration for set up of Capacitor Discharge stud welding. This 2nd in a Series, shows set up of the Capacitor Discharge Stud Welder for general applications including Weld Studs. A portable, 110 volt, Solid State Stud Welder with handheld C.D. Gun, is used to illustrate the parts & components needed for the operation and welding with this high speed, fastening process.

HOW TO SET UP CUPHEAD WELD PINS
This video shows how to install the Cuphead Weld Pin with the Capacitor Discharge welding process. Employing a portable, 110 volt, Solid State Welder with handheld C.D. Gun, illustration is made of the process, parts & components needed, plus the operation and welding of this high speed, fastening process.

HOW TO SET UP C.D. WELD PINS
This video shows basics of setting up the Capacitor Discharge Pin Welder for the C.D. Pin Welding process. Employing a portable, 110 volt, Solid State Welder with handheld C.D. Gun, illustration is made of the parts & components needed for the operation and welding with this high speed, fastening process with several popular types of Weld Pins and several sets of Weld Gun Accessories.

HOW TO SET UP C.D. WELD STUDS
This video shows setting up the Capacitor Discharge Stud Welder for C.D. Weld Stud sizes. Employing a portable, 110 volt, Solid State Welder with handheld C.D. Gun, illustration is made of the parts & components needed for the operation and welding with this high speed, fastening process with several popular types of Weld Studs and several sets of Weld Gun Accessories.