



D-CD320

Thermocompression Bonding and Capacitive Discharge Spot Welders



Applications:

- Thermocompression and Microjoining Bonding
- Magnet Wire Welding
- Enamel Coated Wires
- Wire to Chip Welds
- Reflow Soldering
- Fine Wires and Ribbons

Features:

- Two Welding Technologies
- DC and CD Waveforms
- Dual Pulse Capabilities
- Fine Control of Low Energies

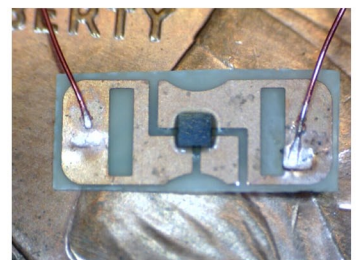
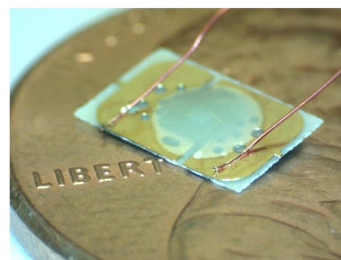
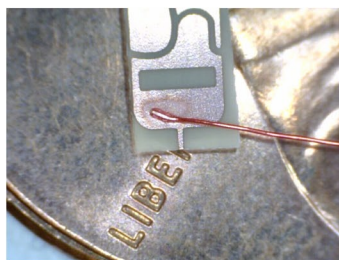


D-CD320 Spot Welders

Sunstone's micro welding solutions are perfect for microjoining and thermocompression bonding. When bonding small wires from one connection pad to another, Sunstone's new D-CD320 - thermocompression bonding and capacitive discharge welders in combination with low-force micro weld heads are recommended as the optimal setup for thermocompression bonding applications.

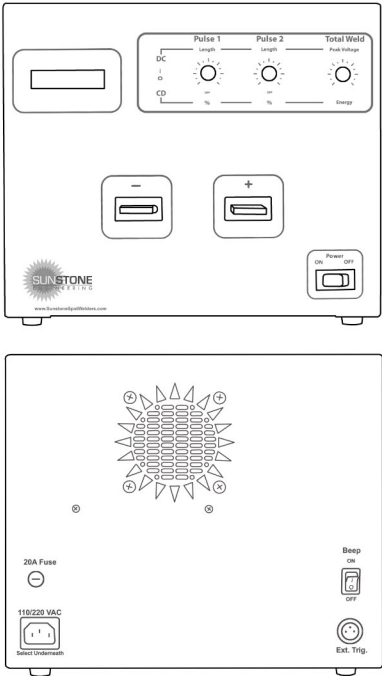
The D-CD320 has been design for maximum versatility and productivity. The D-CD320 offers both thermocompression bonding technology (DC waveforms), and capacitive discharge welding technology. Operators can quickly and easily switch from one mode to the other - saving time and resources.

In the past, thermocompression bonding processes yielded a large number of failures caused by weak wire bonds. Now, Sunstone's high-tech products provide a guaranteed solution for improving thermocompression bonding processes by providing reliable bonds and repeatable manufacturing processes.



Sunstone Engineering R&D Corporation
1693 American Way #5, Payson, UT 84651
Phone: 877-SUN-WELD

Thermocompression Bonding and Capacitive Discharge Welders



Specifications

Table 1: Sunstone Dual Pulse General Technical Specifications.		
Feature	D-CD320 – DC	D-CD320 - CD
Dual Pulse	Yes	Yes
Pulse 1	0 - 100 ms	0% - 30% of Total Weld Energy
Pulse 2	0 - 500 ms	0%-99% of Total Weld Energy
Peak Current	6,000 Amps	10,000 Amps

Table 2: Weld Pulse Characteristics		
	D-CD320 - DC	D-CD320 - CD
Min Output	1.5V	0.5 ws
Max Output	12V	170 ws
Pulse Width Min	0.12 ms	0.12 ms
Pulse Width Max	500 ms	24 ms
Rise Time (to max voltage)	0.2 ms	0.2 ms



Sunstone Engineering
R&D Corporation
1693 American Way #5
Payson, UT 84651
Phone: 877-SUN-WELD