

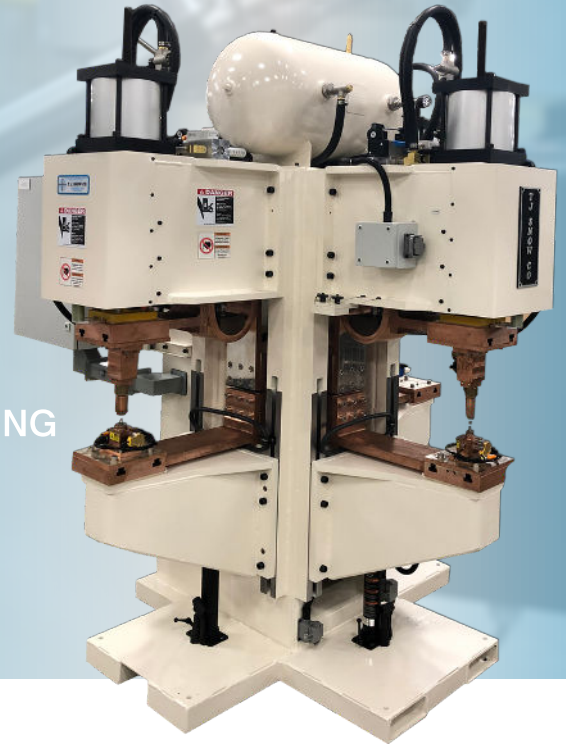


T. J. SNOW CO.

CAPACITOR DISCHARGE

MULTI-HEAD SOLUTION FOR RESISTANCE WELDING FASTENERS TO HOT-STAMPED AHSS ALLOYS

Designed for high-precision and mass production, capacitor discharge resistance welding solutions are available from T. J. SNOW ranging from 1- 160 kJoules.



Pictured above: T. J. SNOW three-headed CD nut welding system designed to be fed by a robot

BENEFITS & ADVANTAGES OF CAPACITOR DISCHARGE

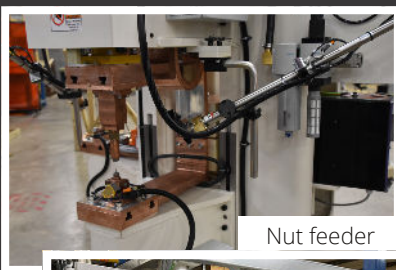
- ✓ Instantaneous high secondary currents
- ✓ Minimal heat affected zone
- ✓ High operating efficiency
- ✓ Minimal, if any, alteration to the work piece metallurgy
- ✓ Reduced expulsion
- ✓ No power service upgrades necessary



Capacitor Discharge (CD) is ideal for projection welding automotive, appliance and electrical products.



Our Lab is Available for Welding Samples!



Nut feeder



Capacitor bank

EFFICIENT SOLUTION FOR RESISTANCE WELDING FASTENERS

Capacitor Discharge Resistance Welding is a special form of Resistance/Projection welding in which the welding energy is provided by the release of stored energy from a **large capacitor bank**. This allows for short and concentrated welding times, typically in 10 milliseconds or less. The resulting **short welding time** guarantees that the energy required to projection weld is concentrated in the weld zone with a **minimal heat affected zone**.

This process is ideal for quick and repeatable **mass production processes** that require **tight dimensional tolerances**. Capacitor discharge resistance welding is **ideal for virtually all types of resistance welding**.

Contact a T. J. SNOW representative to determine the best CD solution for your application.