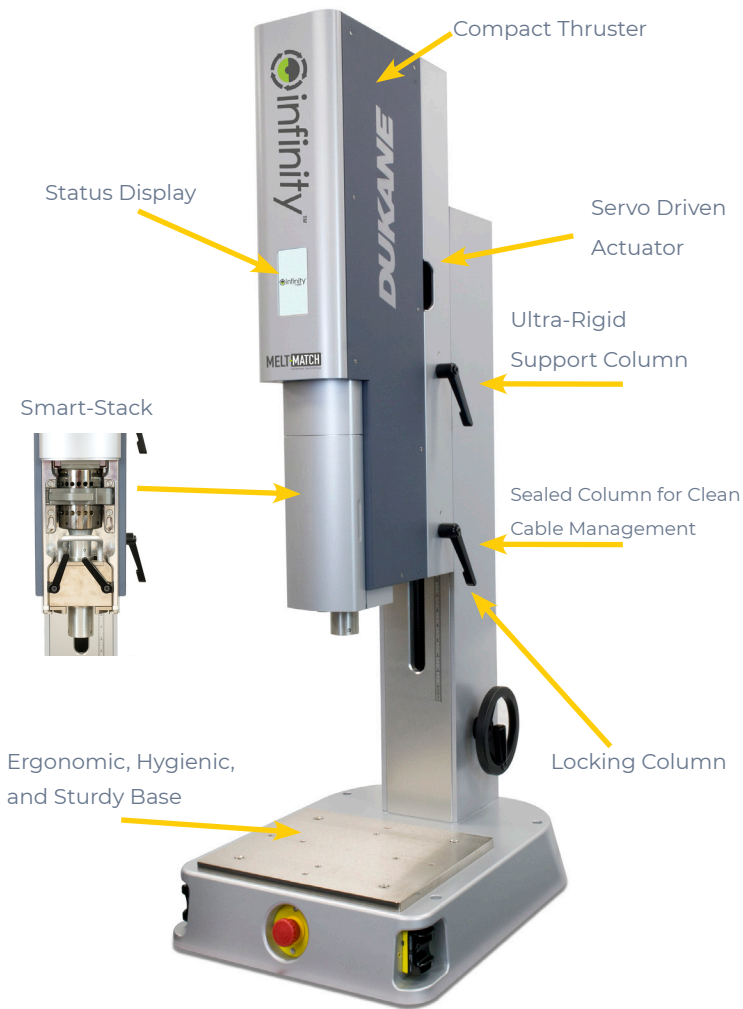


Infinity with Melt-Match®

Ultrasonic Welder

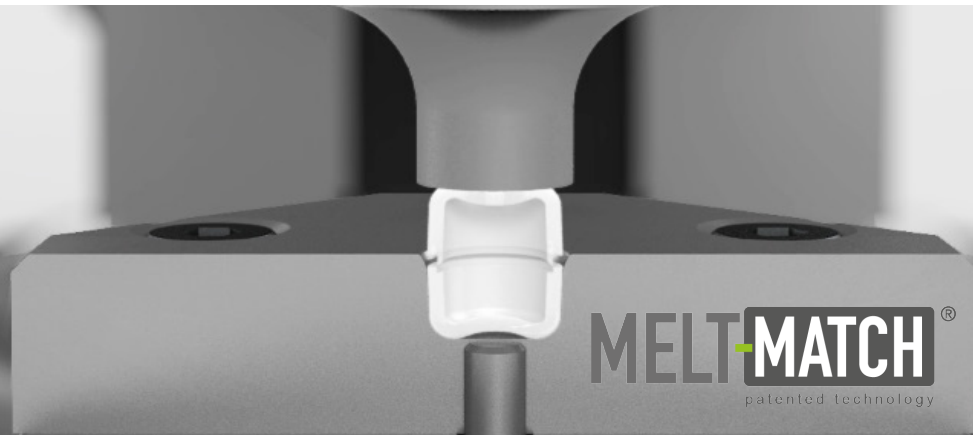
infinity™ UNMATCHED EXPERIENCE

Precise, Consistent, Reliable



Benefits

- Provides repeatable process and consistent results
- Accurately controls all phases of the ultrasonic welding process
- More meaningful data for instant validation of a good part
- Reduce manufacturing cost with improved first pass yield
- Improves confidence with tighter control of dimensional accuracy
- Easily replicate a proven welding process across your fleet of welders
- Fast downstroke/upstroke speed with upgraded servo actuator and integrated controller
- Easy tool change with Smart-Stack quick change system

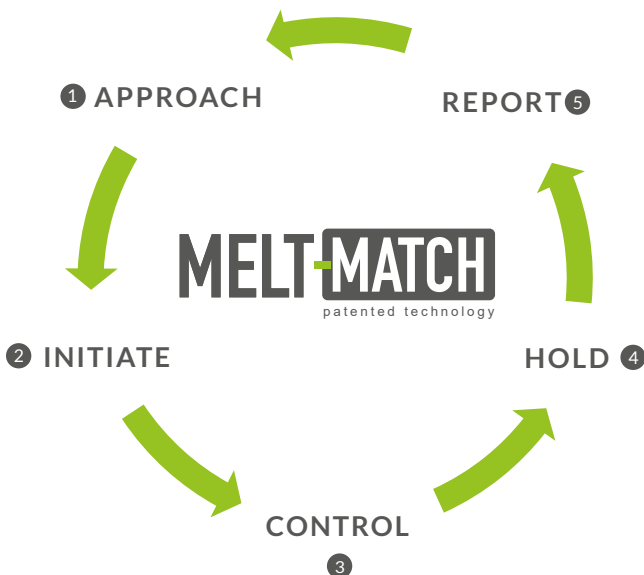


It's The Connection That Counts

DUKANE

Infinity Ultrasonic Welder

Making Ultrasonic Welding Easy



1 APPROACH

Gives the fastest approach to the weld position while ensuring that the contact force does not exceed the programmed value.

2 INITIATE

Precise force, position or power measurement used to initiate the ultrasonic welding process.

Melt-Detect™ is the patented process of resuming motion once the material has started to become molten.

3 CONTROL

Melt-Match® parameters control the welding process “in motion”. Force is controlled via the velocity profile setting. Velocity profile can be set in 10 programmable steps to better control the flow of molten material.

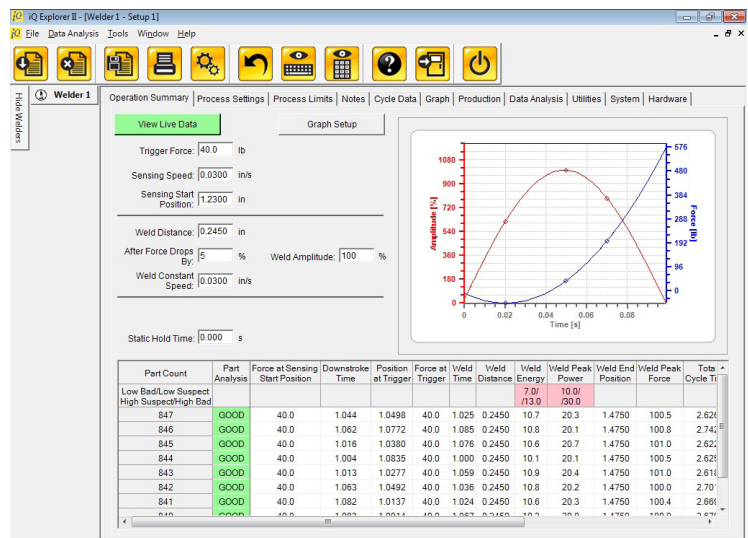
4 HOLD

Ability to program Dynamic and Static hold by which the welded parts are held for re-solidification.

5 REPORT

More meaningful data collection.

- Intuitive iQ Explorer User Interface
- Start Motion After Force Drop Reducing Part Stress and Improving Bond Strength
- Touch Screen input for easy programming
- Industry 4.0 Ready
- Weld by Time, Energy, Distance, Absolute Distance, and Peak Power
- Post Weld Control with Dynamic and Static Hold
- Control Weld with 16 Unique Weld Parameters
- Programmable Force or Speed Mode, either Constant or Segmented Profile
- Bad Part and Suspect Part Limits
- Equipped with Advanced Graphing, Cycle Data Collection, and Production Analysis
- Advanced Diagnostics with Power and Frequency Graphs
- Multilingual (English, Spanish, German, Japanese, Chinese, French, and Czech)



For more information, speak with your Dukane representative or contact your Dukane regional office.

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