Patented SynQro[™] Spout Sealing

The new patented SynQro[™] technology enables dialogue between two ultrasonic generators to drive energy through two sonotrodes instead of one sonotrode and anvil. Therefore, when used in a spout sealing application, patented SynQro[™] technology seals a spout or nozzle inserted in a pouch or container from both sides in a single step.

Ultrasonic bonding creates a tight, uniform seal that is highly resistant to leaks and other forms of damage. Ultrasonic energy seals through product residues without damaging the seal and maintains product integrity.

As a result, it is an ideal technique for spout-sealing applications typically used for packaging liquids or semi-liquids to prevent leakage or spillage during storage or transport.

SynQro Spout Sealing Benefits

- Fast cycle times, typically less than .5 sec
- Single step process for spout and fin seal
- Compatible with bio-based & mono-materials
- Seals through product residue
- Maintains product integrity
- Reduces energy consumption
- Increases productivity
- Reduces use of packaging materials
- Reduces machine footprint
- Accommodate a variety of spout pouch widths
- Various spout sealing locations configurations are possible, such as center, corner or side









Dukane iQ AiM Ultrasonic Generator Features

- Patented SynQro[™] Ultrasonic Generator technology
- Patented Trigger by Power
- Multiple weld modes including energy & peak power
- Settable Process Limits
- iQ Commander utility for process setup, troubleshooting and remote access
- Standard Ethernet/IP
- Optional communication protocols available; ProfiNet, ProfiBus, EtherCat, PowerLink & CC-Link



Narrower seals, smaller fin sizes, and the ability to seal through layers reduce the use of packaging materials.

SynQro™ Frequency	Welding Time	Available Power	Max Bond Width
20 kHz	200 - 400 ms	2x2600 W 120/240 VAC	200 mm
30 kHz	200 - 400 ms	2x1800 W 120/240 VAC	160 mm
35 kHz	200 - 400 ms	2x1200 W 120/240/400 VAC	120 mm
40 kHz	150 - 300 ms	2x1200 W 120/240/400 VAC	80 mm

*Weight and dimensions are approximate and do not include additional components



For more information, speak with a Dukane representative. Contact your regional Dukane office by visiting www.dukane.com/contact-us

