

## Introducing the RSX26 Resistance Seam Welding Machine

An affordable, small scale table-top seam welder for applications in the medical device, aerospace/defense and electronics industries.

RSX26 Resistance Seam Welder



### ■ Longitudinal and circular resistance seam welding

- Precisely weld long sheets or strips of material together.
- Easily switch between spot, roll spot, and continuous (hermetic) seam welding.

### ■ Powerful WeldWorks™ Software Suite

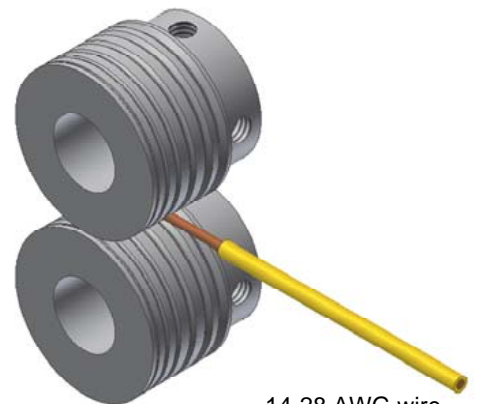
- Easily manage all your weld schedule & record process data
- Analyze data and view reports and graphs on any PC with a browser
- Integrates with all leading high frequency and medium frequency weld controllers.

### ■ Flexible platform configured to your requirements

- Customize tooling and rollers to meet your specific seam weld application.

### APPLICATIONS:

- *Filters, Door strips*
- *Tin Cans, Tanks, etc.*
- *Effective compactor for turning stranded wire into solid wire (see below)*



14-28 AWG wire

## RSX26 Specifications:

### Hardware

- Precision brushless servo controlled rollers, diameters from 20mm to 100mm, various profiles
- Ultra-low stiction pneumatic weld head with a 10mm stroke
- Seam weld head with up to 300N force and  $\pm 0.5N$  resolution, monitored with calibrated load cell
- Quick change over from one roller style to another.
- Core 2 Duo computer equipped with a minimum of 1 GB RAM, 80 GB hard drive, CD-RW drive, 2 USB ports, 17" LCD monitor, 500 VA UPS, and fast Ethernet card.
- Category 2 E-Stop and safety switches
- Custom part fixtures can be designed to precisely hold and guide parts.

### Software

- Output data stored on Microsoft SQL Server 2005 Express relational database
- Windows® XP with WeldWorks™ Software Suite to control weld head, edit weld recipes, change roller speed and force, control all I/O, and view data on-line (via a web browser)
- Easy manufacturing execution system (MES) integration and custom reports

RSX Series Feature Matrix	RSX25/26	RSX50	RSX100	RSX200
<b>WeldWorks™ Software Suite*</b>				
Intuitive Windows based software for easy machine operation	●	●	●	●
Complete process control – Six Sigma Quality	●	●	●	●
Electronic records, data storage, web reports and on-line analysis	●	●	●	●
<b>RSX Series™ Hardware</b>				
Machine configuration	tabletop	tabletop	frame	frame
Automatic electrode tip redressing for consistent welds (std. option)	○	●	●	●
Retrofitable weld power supply/controls – preserve investment	●	●	●	●
Flexible and reconfigurable via fixtures, jigs, etc.	●	●	●	●
Weld heads – parallel gap, opposed electrode, seam, pincher	●	●	●	●
Precise and repeatable weld head positioning (work axes)	○	X-Y-Z gantry	X-Y-Z gantry	X-Y-Z gantry
Vision assisted feature finding	◐	◐	●	●
Part handling	○	○	◐	●
Production volume & approximate throughput (parts/hour)	25-100	50-200	100-400	350-700
Auxiliary Operations (e.g. press, test, visual inspection station)	○	○	●	●

○ Not applicable   ◐ Partially fulfilled feature   ● Fully available feature

\*The WeldWorks Software Suite can be purchased and run on stand-alone weld controllers or weld benches that do not use RSX series hardware. Please contact techMatrix LLC sales for more details.

Founded in spring 2005, techMatrix LLC is a dynamic, growth stage company dedicated to designing, building, and assembling both custom and standard PC based resistance weld equipment for high technology companies.



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