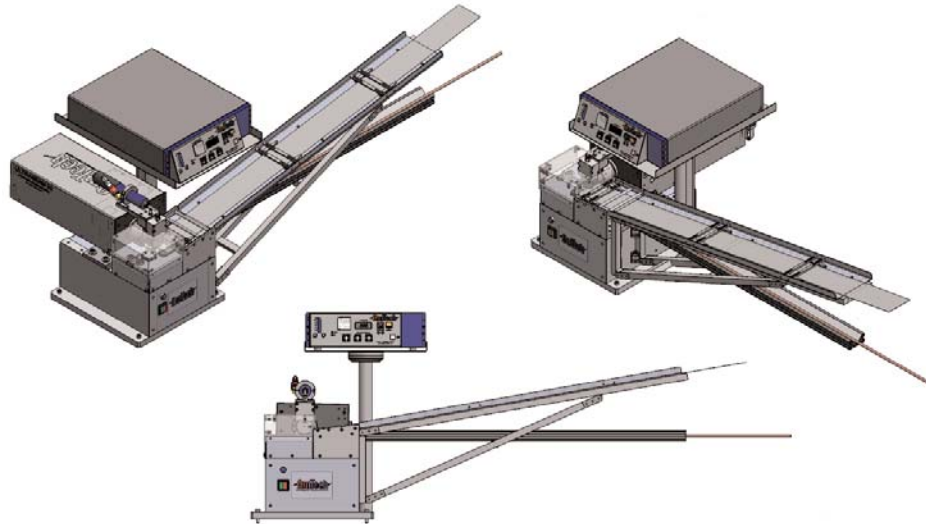
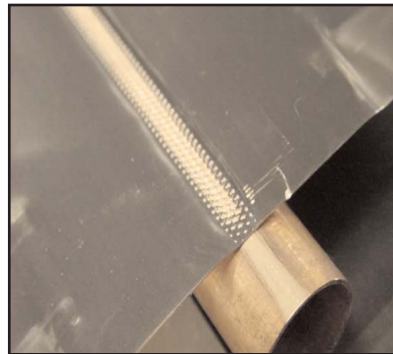


AmTech Ultraseam 20 “Zip” seam welder is the most rugged and versatile turnkey system on the market today.



The AmTech Ultraseam 20 “Zip” seam welder is the most compact rugged and versatile turnkey system on the market today. It utilizes the latest ultrasonic technology to maintain the highest levels of quality, performance and efficiency. This semi-automated solar panel manufacturing system uses ultrasonic energy to join copper or aluminum solar energy collector panels to copper tubes. This system utilizes 3,000 watts, 20 kHz power supply and integrated touch screen control to produce varying size tubes of solar collector assemblies, bonded by a continuous ultrasonic weld along the length of the collector.



During production parts to be welded are placed into trays for easy alignment of components into the auto feeding solar energy collectors. These drive rollers can accommodate any size copper tube with a quick changeover of the drive roller and the tray guides can be adjustable for any width of energy collector panel.

Once the cycle is initiated, the Ultraseam 20 “Zip” rotation welding horn and drive rollers are synchronized to provide a precise feed of materials whereby exact pressure and ultrasonic energy are applied. Continuous seam welds are created at a rate of up to 5 meters per minute depending on material thickness and hardness.



This closeup emphasizes the cleanliness, uniformity, and consistency of the resulting ultrasonic weld.

A true metallurgical bond is created between the two copper components providing excellent heat transfer between the solar collector panel and the circulating water. Ultrasonic welding is a mechanical process. No electrical current passes through the workpiece and no melting occurs. It is ideal for welding similar or dissimilar electrical grade alloys since the resistivity and thermal conductivity of the parts to be welded are not factors. Nonferrous metals of different thickness are effectively welded by the AmTech system.

The electrical and thermal properties of an ultrasonic weld are unrivaled by any other process. Compared to fusion methods for joining metals, ultrasonic metal welding provides the lowest cost per weld. This is achieved through low power consumption (1/30th that of a comparable resistance welder) and superior tool life. Finally, the welding variables can be precisely monitored and controlled providing consistent results and SPC capabilities.

The AmTech system is energy efficient and easy to set up and operate. It requires only compressed air and a simple 240 volt, 20 amp service. All power, control and diagnostic electrical equipment is neatly located inside the machine's steel frame housing. Single point air and electrical inputs provide simple installation and maintenance procedures.

ISO 9001:2000 and ISO 14001 Certified

BRANSON

C/Can Pi, 15 1a Planta (Antigua
Carretera del Prat)
Poligono Industrial Gran Vía Sur
E-08908 Hospitalet de Llobregat
(Barcelona)

Tel. +34/93.5860500
Fax +34/93.5882258

info.branson@bransoneurope.com
www.branson.es


EMERSON
Industrial Automation