

Industrial Fabric Welding

SINCLAIR
equipment company



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TRIAD WEDGE WELDING SYSTEM



U.S. Patent No. 5,865,942

For the bonding of thermoplastic textiles, the Triad Wedge Welding System is ideal for your in-house fabrication needs to produce tents, tarps, awnings, flags, banners, liners, covers, curtains, bags, tubes, etc. The Triad can weld PVC, PE, PP, Urethane and many other weldable, flexible membranes. It can also weld supported and non-supported material in thicknesses of 5 to 100 oz. and is designed to be portable, versatile and user friendly.

Smokeless and Noiseless Operation

Because it's a wedge, the Triad will not produce any hazardous smoke during the welding process, as hot air welders do. The Triad is noiseless, for a more pleasant working environment.

Increase Productivity

The Triad is fast! It can weld 12 to 14 oz. material at approximately 20 feet per minute. With thinner materials, the maximum speed of the Triad is approximately 30 feet per minute.

Reduce Labor Costs

By utilizing the built-in tracking system and available Track Sections, the Triad can be operated by a single person. Set-up is easy on the floor, or a table surface, and the guides provide accurate results.

- #33-010: Triad Wedge Welder, 120V, 1" Wedge (25mm)
- #33-015: Triad Wedge Welder, 120V, 1.5" Wedge (38mm)
- #33-020: Triad Wedge Welder, 120V, 2" Wedge (51mm)
- #33-030: Triad Wedge Welder, 240V, 25mm Wedge (1")
- #33-035: Triad Wedge Welder, 240V, 38mm Wedge (1.5")
- #33-040: Triad Wedge Welder, 240V, 51mm Wedge (2")

Create Additional Welding Styles with your imagination!



Overlap Weld











Hem Weld

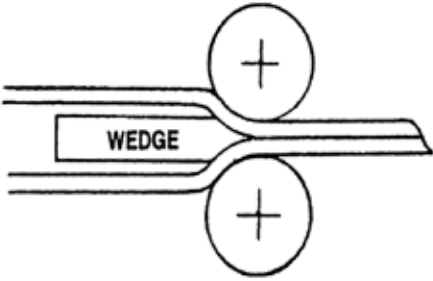


Fin Weld

The Standard Triad can Achieve the Following Welds:
(specify wedge size)

-  Overlap Weld - 1/2" to 2" weld width
-  Hem Weld - Adjustable pocket size
-  Fin Weld - 1/2" to 2" weld width
-  Tube Weld - 1-1/2" diameter and up
-  Sleeve Weld - 1" diameter and up
-  Insert Cable Weld - Insert cable into hem while welding, 7/8" max.
-  Tape Weld - Up to 2" weld width
-  Channel Weld - Using split wedge

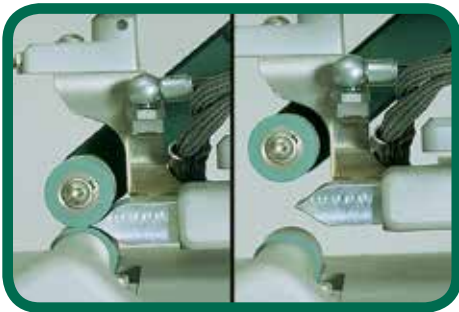
TRIAD WEDGE WELDING SYSTEM



How does it work?

The welding of various thermoplastics occurs by a combination of wedge temperature, material speed passing over the wedge, and pressure of the pinch rollers. The material is placed between the pinch rollers and the hot wedge is inserted. Contact is made between the top and bottom of the material and a melting of the coating occurs with a certain speed of the material crossing the hot wedge surface. The pinch rollers then apply pressure to the melted coating to create the lasting bond.

The Triad can be used as a stationary unit for short weld lengths, or as a self-propelled unit for long run welding where the Triad automatically begins moving when the wedge is inserted.



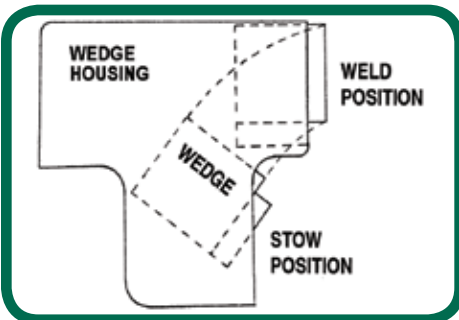
Patented Self-Centering Wedge

The wedge will self-center with change in material thickness automatically, or it can be manually adjusted for welding two materials of different thicknesses.



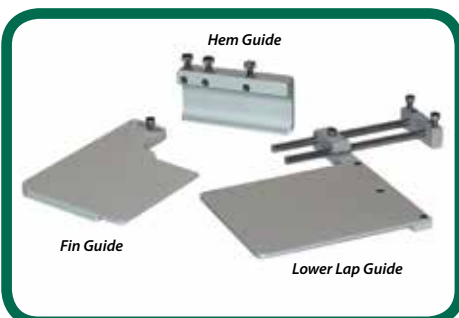
Patented Suspended Wedge

This allows the operator to pass material through the Triad in many different ways to achieve various weld styles.



Exclusive Wedge Housing

A unique feature that allows the hot wedge to be stored out of the way, to help minimize heat distortion of product and provides operator protection while setting up material.



Standard Guides

The standard Triad includes the three guides to perform the basic weld styles: Lower Lap Guide, Hem Guide, and Fin Guide. These guides work alone or in conjunction to accomplish the basic weld styles and more.

HEM CORD ATTACHMENT



Hem Cord



The Hem Cord Attachment is used to produce a 1" weld width with a rigid or flexible cord or rope inserted within the hem. The material can be welded tight around the rope or cord. This weld finish is best used in extruded aluminum channels for construction of air structures, awnings, tents, truck covers, side curtains, screens, blinds, and digital print.

In the welding area, the material passes through the Hem Cord Outer Guide to position both the cord and material and complete the hem cord weld. A unique front guide is used to position the cord and pre-fold the material as it enters into the Triad.

The Hem Cord Attachment should be ordered according to size of cord or rope to be used.

- #33-104.18: HemCord Attachment, 120V, 3/32" - 1/4" Cord (3mm-6mm)
- #33-105.18: Hem Cord Attachment, 240V, 3/32" - 1/4" Cord (3mm-6mm)
- #33-104.12: Hem Cord Attachment, 120V, 5/16" - 1/2" Cord (7mm-13mm)
- #33-105.12: Hem Cord Attachment, 240V, 3/32" - 1/2" Cord (7mm-13mm)
- #33-104.58: Hem Cord Attachment, 120V, 9/16" - 5/8" Cord (14mm-16mm)
- #33-105.58: Hem Cord Attachment, 240V, 9/16" - 5/8" Cord (14mm-16mm)
- #33-107.1.5: Hem Cord Attachment, 120V/240V, 1-1/2" Wedge (38mm)
- #33-109.2.0: Hem Cord Attachment 120V/240V, 2" Wedge (50mm)

Axle Change Necessary

The Hem Cord Attachment Includes: 1" Hem Wedge w/Heaters, Hem Wedge Housing, Hem Top Guide, Hem Cord Front Guide (specify size) & Hem Cord Outer (specify size). Shown in photo with the 2 different front guides and all 3 outer guide sizes.



FLAT HEM ATTACHMENT



Flat Hem



The Flat Hem Attachment will produce a 1.2" (31mm) finished weld width completely sealed to the folded edge of material. This attachment is ideal for fabricating banners, flags, awnings, tarps and covers, where a clean flat rigid edge is needed for accepting grommets or making a clean, finished edge.

At the welding area, the Flat Hem Outer Guide applies pressure to the fold of material against the side of the wedge to melt the thermoplastic. The larger Pressure Rollers complete the weld.

Once you own a Flat Hem or Hem Cord Attachment, you can accomplish the other weld style by simply adding additional guides, and/or rollers. Similar parts interchange, no need to purchase another complete system.

A unique front guide is used to pre-fold and position the material for initial set up as it enters into the Triad. In addition, see the Vinyl Flat Hem/Hem Cord Kit to have both style welds in one.

- #33-104.1: Flat Hem Attachment, 120V, 1" Wedge (25mm)
- #33-104.2: Flat Hem Attachment, 240V, 1" Wedge (25mm)
- #33-108.1.5: Flat Hem Attachment, 120V/240V, 1.2" Wedge (30.5mm) for 1.5" (38mm) finish
- #33-108.1.8: Flat Hem Attachment, 120V/240V, 1.5" Wedge (38mm) for 1.8" (48mm) finish

The Flat Hem Attachment Includes: 1" Hem Wedge w/Heaters, Hem Wedge Housing, Hem Top Guide, Hem Cord Front Guide, Flat Hem Outer Guide & 2" Silicon Pressure Rollers w/hardware (2 qty)



THERMAL TAPE ATTACHMENT



Overlap w/Tape



Hem Cord w/Tape



Pocket w/Tape



Flat Hem w/Tape



The Thermal Tape Attachment provides for the proper positioning of our Thermal Bonding Tape to weld acrylic coated fabrics and other materials. This tested, proven method of welding acrylic coated fabric will produce overlap, hem cord, flat hem, and pocket welds with your existing Triad Wedge Welder.



The Thermal Tape Attachment Includes:

- Thermal Tape Hanger Assembly
- Thermal Tape Flat Hem Outer Guide
- Thermal Tape Hem Cord Outer Guide
- Thermal Tape Wedge Housing + Top Guide
- Thermal Tape Front Guide + Hem Cord Front Guide
- 1.5" + 2" Silicone Pressure Rollers w/Hardware (2 qty)
- 1" Hem Wedge w/Heaters
- Uniseam FR Thermal Bonding Tape (1 roll)

- #33-090: Thermal Tape Attachment 120V, 1" Wedge (25mm)
- #33-090.2: Thermal Tape Attachment 240V, 1" Wedge (25mm)



THERMAL BONDING TAPE



Uniseam FR Tape



3M™ Stitchless Awning Bonding Film

Our Thermal Bonding Tape ensures a quality seal of acrylic coated fabric for a non-perforated, watertight bond. Provides an aesthetic, flat seam; perfect for retractable systems. Seam strength tested to be stronger than the material in the pull tension direction. We offer the exclusive Uniseam standard tape, great for woven textured non-coated acrylic fabric, as well as the Uniseam FR tape designed with a tacky adhesive to bond best to a variety of fabrics.

In addition, we offer the new 3M™ Stitchless Awning Bonding Film; this tape provides excellent bonding to the greatest range of fabric types including the new Firesist™ product from Sunbrella. All Sinclair tapes have been endorsed by Glen Raven, Inc.

- #34-000: 3M™ Stitchless Awning Bonding Film, 7/8" wide, Translucent/Tan, 100 yard rolls
- #34-200: Uniseam FR Thermal Bonding Tape, 7/8" wide, White, 100 yard rolls
- #34-250: Uniseam FR Thermal Bonding Tape, 7/8" wide, Black, 100 yard rolls
- #34-300: Uniseam FR Thermal Bonding Tape, 7/16" wide, White, 100 yard rolls
- #34-350: Uniseam FR Thermal Bonding Tape, 7/16" wide, Black, 100 yard rolls



THIN MATERIAL ATTACHMENT

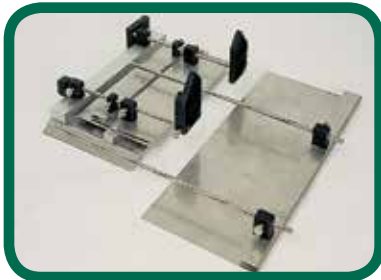
A unique attachment for overlap welding thinner, non-supported material from 5-10 mil thicknesses. Pre-weld rollers and guides align material to help eliminate drifting. With a weld width of 1" or less, the Thin Material Attachment is used with the hem wedge and housing.

#33-106: 120V Thin Material Attachment
#33-106.2: 240V Thin Material Attachment

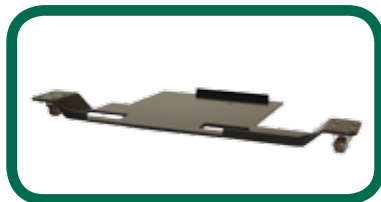


TUBE GUIDE ATTACHMENT

#33-450: The Tube Guide Attachment will provide a guide system to produce a specific size tube, on a continuous basis. Ideal for fabricating bladder bags, flotation tubes, ventilation tubes, filtration socks, sandbags, etc. The Tube Guide is adjustable from approximately 1.3" (31mm) to 11.5" (288mm) diameter and fabricates tubes in an automatic or stationary mode. The Tube Guide will retrofit to existing Triads and can produce tubes with the standard wedge and housing or the hem wedge and housing.



Attach long rods and guide (included) for tubes of 4.5" (112mm) to 11.5" (288mm) diameter, approximate. The Tube Guide Attachment comes complete with hardware (shown left). The attachment does not include a wedge or wedge housing. Use existing wedge and wedge housing on your Triad.



CARRIAGE FOR CURVE WELDING

#33-097: For both the Triad and Spec Welders, the Carriage for Curve Welding Attachment provides an easy means for turning to the right or left guiding the welder along a curved edge.

ATTACHMENT KITS

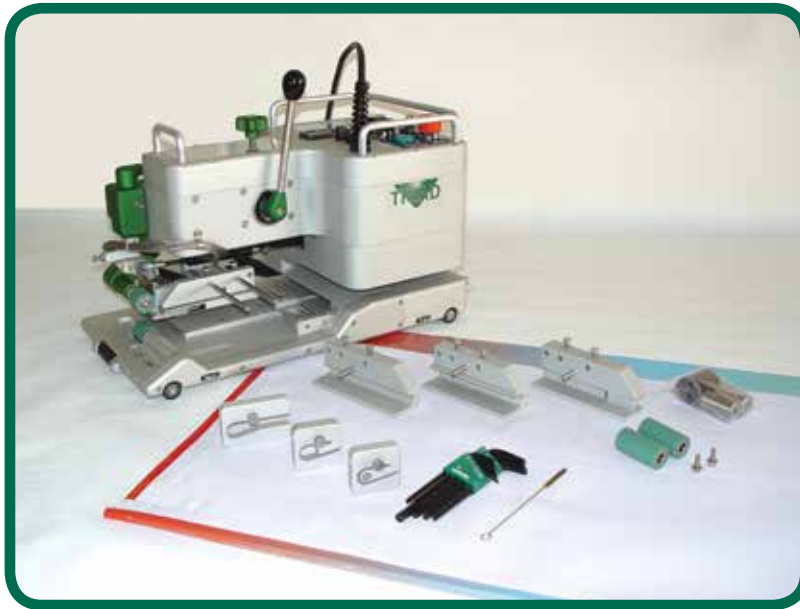


Vinyl Flat Hem/Hem Cord Kit
#33-094: 120V, #33-094.2: 240V



Ultimate Welding Attachment
#33-092: 120V, #33-092.2: 240V

TRIAD DIGITAL GRAPHICS PACKAGE



Designed around the needs of the digital graphics printer, the Triad DGP provides many different finishing styles including overlap, flat hem, hem cord, pockets, etc. Our Triad DGP can be set up either as a 1" (25mm) or 1.5" (38mm) seam width. In addition, an option for either seam width is available on our Triad 6" Pole Pocket base for making up to a 6" (152mm), single fold pocket. For those with a current 1" (25mm) Triad DGP, we offer an upgrade kit to 1.5" (38mm).

- #33-019: Triad Wedge Welder, 120V, Flat Hem/Hem Cord, 1" DGP
- #33-022: Triad Wedge Welder, 120V, Flat Hem/Hem Cord, 1.5" DGP
- #33-027HC: Triad Wedge Welder, 120V, 6" Pocket Machine, Flat Hem/Hem Cord, 1" DGP
- #33-027HC1: Triad Wedge Welder, 120V, 6" Pocket Machine, Flat Hem/Hem Cord, 1.5" DGP
- #33-049: Triad Wedge Welder, 240V, Flat Hem/Hem Cord 25mm DGP
- #33-055: Triad Wedge Welder, 240V, Flat Hem/Hem Cord 38mm DGP
- #33-027HC2: Triad Wedge Welder, 240V, 6" Pocket Machine, Flat Hem/Hem Cord, 25mm (DGP)
- #33-027HC15: Triad Wedge Welder, 240V, 6" Pocket Machine, Flat Hem/Hem Cord, 38mm (DGP)
- #33-096: Triad DGP Upgrade Kit to 1.5" (38mm) Kit 120V/240V

Overlap 



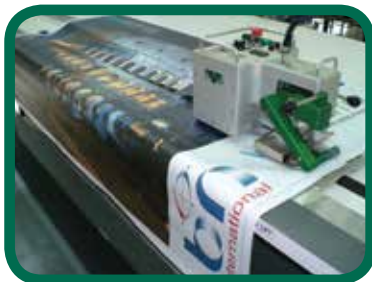
Flat Hem 



Hem Cord 



Pole Pocket 



Vacuum Assisted Overlap



Hem Weld, Poland



Overlap Registration, France



Pole Pocket Weld, Uruguay



Track Welding on Floor



Track/Table Flat Hem Weld, USA

SPECIAL BUILT TRIADS



Triad Acrylic Fabric Tape Welder

Designed for the awning maker, this Triad is built to use the Thermal Bonding Tape and provide the weld styles of overlap, hem cord, flat hem, and pocket.
#33-060: Triad Wedge Welder, 120V, w/Thermal Tape Attachment, 1" Wedge (25mm)
#33-060.2: Triad Wedge Welder, 240V, w/Thermal Tape Attachment, 25mm Wedge (1")



Triad 6" Pole Pocket Welder

With a wider base, this Triad provides for a 6" (152mm) single fold of material for larger diameter pockets. Built with either a 1" (25mm) or a 1.5" (38mm) standard wedge and housing. All Triad Attachments fit on this unit.
#33-026: Triad Wedge Welder, 120V, 6" Pocket Machine, 1" Wedge (25mm)
#33-027: Triad Wedge Welder, 120V, 6" Pocket Machine, 1.5" Wedge (38mm)
#33-051: Triad Wedge Welder, 240V, 6" Pocket Machine, 25mm (1")
#33-052: Triad Wedge Welder, 240V, 6" Pocket Machine, 38mm Wedge (1.5")



Triad 10" Pole Pocket Welder

For even larger pockets, this Triad provides for a 10" (254mm) single fold of material. Built similar to the Triad 6" above and all Triad Attachments fit on this unit.
#33-063: Triad Wedge Welder, 120V, 10" Pocket Machine, 1" Wedge (25mm)
#33-064: Triad Wedge Welder, 120V, 10" Pocket Machine, 1.5" Wedge (38mm)
#33-067: Triad Wedge Welder, 240V, 10" Pocket Machine, 25mm (1")
#33-068: Triad Wedge Welder, 240V, 10" Pocket Machine, 38mm Wedge (1.5")



Triad 3" Overlap Welder

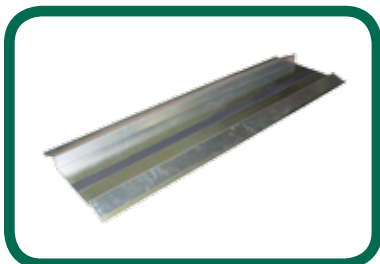
To meet your larger weld width specs, this Triad is built with 3" (76mm) wedge and rollers. Smaller wedge/rollers and all attachments fit on this Triad.
#33-025: Triad Wedge Welder, 120V, 3" Wedge (76mm)
#33-050: Triad Wedge Welder, 240V, 76mm Wedge (3")



Triad Dedicated Hem Welder

Designed with a large opening for the easy insertion of material, this Triad is capable of only the hem style welds. Build with Hem Cord Attachment for 3/32" to 1/4" (3-6mm) cord size.
#33-012: Triad Wedge Welder, 120V, Dedicated Hem Cord, 1" Wedge (25mm)
#33-012.2: Triad Wedge Welder, 220V, Dedicated Hem Cord, 1" Wedge (25mm)

TRACK SECTIONS



For use with both Triad and Spec Wedge Welders

Prefabricated 5' (1.5m) track sections are ideal for long runs, material handling and reducing operator error. By using the track, the operator does not have to worry about steering the welder. The Track System can be permanently mounted or left portable for space savings. Track available for standard welders as well as 6" Pole Pocket welders. Includes 20-gauge galvanized steel section, track connector, hardware and magnets.



#33-500: 5' Track System w/Connector
#33-600: 5' Track System w/Connector (For 6" Pocket Triad)

SPEC WEDGE WELDING SYSTEM

Specific welders for Specific applications



U.S. Patent No. 5,865,942



Wedge Swing-out

An exclusive feature found only on the Spec line of Wedge Welders

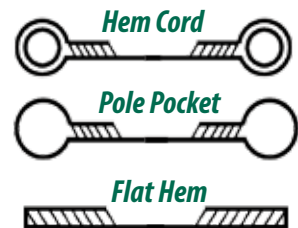
Single Function Welders at an Affordable Price

The Spec Wedge Welders have been designed as “specific”, single purpose welding machines to accomplish a particular weld style. Individual machines are built to perform an overlap weld, hemming welds (flat hem, hem cord, pockets), welding acrylic coated fabrics, high speed production, or weld thick materials. Excellent visibility of the material, ease of material set up, user friendly controls and adjustments, and lower cost units are all key features of the Spec. As a compliment to the Triad Wedge Welder, a Spec can be dedicated to a specific welding application, reducing the change of attachments, at an affordable price.

The Spec Wedge Welder is noiseless and smokeless while welding. The wedge has a patented self-centering feature for an even weld across the seam width. The new swing-out wedge provides for easy cleaning, inspection, and servicing. A unique material guide system for each individual Spec machine provides fully adjustable controls with no parts to remove or exchange. The Spec Wedge Welder will run within our track sections for a single person, nearly hands-free operation. In addition, a left hand (mirror image) of the Spec Wedge Welder is available for simultaneous welding; an excellent choice for high production finishing of digital graphics, tents, awnings, and covers.



Spec Mirror Image



SPEC OVERLAP WELDER



The Spec Overlap Welder is a cost effective solution to your dedicated overlap welding needs. The design provides excellent visibility of the thermo-plastic material for set-up and welding. The guide system is fully adjustable both in the front, to position the material entering the machine, as well as three different directions in the welding area. A wide range of wedge sizes are available and, with the swing-out feature, wedges are easy to change for different seam sizes.



Pool Cover Welding Australia

- #SW70110: Spec Overlap Welder, Right-hand, 25mm (1") Wedge, 110V
- #SW70120: Spec Overlap Welder, Right-hand, 40mm (1-1/2") Wedge, 110V
- #SW70130: Spec Overlap Welder, Right-hand, 50mm (2") Wedge, 110V
- #SW72110: Spec Overlap Welder, Right-hand, 25mm (1") Wedge, 220V
- #SW72115: Spec Overlap Welder, Right-hand, 30mm (1.2") Wedge, 220V
- #SW72120: Spec Overlap Welder, Right-hand, 40mm (1-1/2") Wedge, 220V
- #SW72130: Spec Overlap Welder, Right-hand, 50mm, (2") Wedge, 220V

SPEC HEMMING WELDER



The Spec Hemming Welder is designed to complete the three basic hem finish style welds from a single machine. The special guide system can be adjusted to weld the flat hem, hem cord, and various size pocket welds. This welder is perfect for banners, billboards, awnings, covers, tarpaulins, etc. The guide is the complete length of the machine for easy loading and consistent alignment. A mirror image Spec Hemming Welder is available for side by side welding and increased production time.



- #SW70160: Spec Hemming Welder, Right-hand, 25mm (1") Wedge, 110V
- #SW70170: Spec Hemming Welder, Right-hand, 40mm (1-1/2") Wedge, 110V
- #SW70180: Spec Hemming Welder, Right-hand, 50mm (2") Wedge, 110V
- #SW72160: Spec Hemming Welder, Right-hand, 25mm (1") Wedge, 220V
- #SW72170: Spec Hemming Welder, Right-hand, 40mm (1-1/2") Wedge, 220V
- #SW72180: Spec Hemming Welder, Right-hand, 50mm (2") Wedge, 220V



Flat Hem Pressure Arm with 2" Pressure Rollers

SPEC ACRYLIC FABRIC WELDERS



Spec Overlap Acrylic Fabric Welder

The Spec Overlap Acrylic Fabric Welder provides for the proper positioning and guiding of the Thermal Bonding Tape for the welding of acrylic coated fabrics. The thinner Spec Hem Wedge is used for a quality melt of the tape. Welding acrylic fabrics produces a flat, waterproof seam with strength, durability and visually appealing results.



#SW70300: 110V Spec Overlap Fabric Welder
#SW72300 220V Spec Overlap Fabric Welder

Overlap w/Tape



Spec Hemming Acrylic Fabric Welder

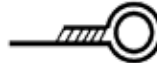
The Spec Hemming Acrylic Fabric Welder is equipped with a guiding system to turn and feed the Thermal Bonding Tape in position for welding acrylic coated fabrics. The welding style of flat hem, hem cord and pockets can be completed. The welding of acrylic coated fabrics provides a flat, waterproof, and strong finish.



Thermal Bonding Tape Guide

#SW70200: 110V Spec Hemming Acrylic Fabric Welder
#SW72190: 220V Spec Hemming Acrylic Fabric Welder

Hem Cord w/Tape



Flat Hem w/Tape



Pole Pocket w/Tape



SPEC KEDER PRODUCTION SYSTEM



Sinclair Keder System
Adjustable Guide System
for Various Cord/Flap/Seam
Sizes



Single Flap



Double Flap

Fully adjustable keder sizes for single or double flap configuration. Our Spec Hem Welder is the basis for the unit that includes the material unrolling device to produce your finished keder. The aluminum mounting structure can be a stand alone unit or can be mounted on a table. Self-feeding keder machine can produce up to 250 meters per hour.

#SW73000: 110V Spec Keder Production System
#SW73020: 240V Spec Keder Production System



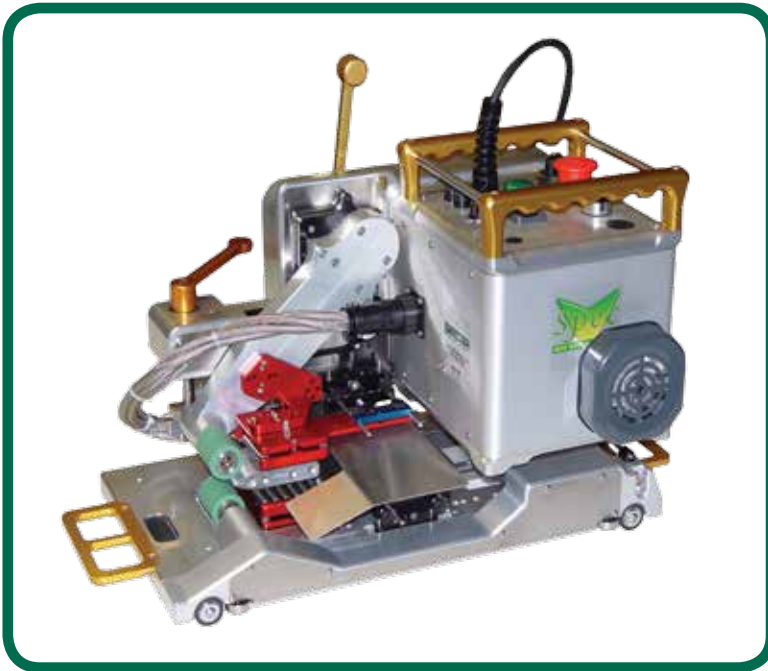
Stand and Material Delivery System



Spec Keder Welder

SPEC HIGH SPEED OVERLAP WELDER

Weld up to 70 Feet (21m) per Minute



With a faster drive motor and a unique pre-heat roller system, the Spec High Speed Welder can increase your production output. As a 240V unit and providing an overlap style weld finish, choose from three different hot wedges and preheat roller frames to match the thickness of thermoplastic to be bonded. For example, match lightweight material with the 1000W wedge and 2 roller preheat frame or medium weight material with a 1500W wedge and 4 roller preheat frame. Thick coated textiles are best welded with the 2000W wedge and 6 roller preheat frame for optimum speeds. Intended for in-house welding fabrication of various thermoplastics including PVC, PE, PU, PP & LLDPE.

- #SW72610: Spec High Speed Welder, 2 Roller Preheat, 25mm (1") Wedge, 220V
- #SW72615: Spec High Speed Welder, 2 Roller Preheat, 40mm (1-1/2") Wedge, 220V
- #SW72620: Spec High Speed Welder, 2 Roller Preheat, 50mm (2") Wedge, 220V
- #SW72640: Spec High Speed Welder, 4 Roller Preheat, 25mm (1") Wedge, 220V
- #SW72645: Spec High Speed Welder, 4 Roller Preheat, 40mm (1-1/2") Wedge, 220V
- #SW72650: Spec High Speed Welder, 4 Roller Preheat, 50mm (2") Wedge, 220V
- #SW72651: Spec High Speed Welder, 6 Roller Preheat, 25mm (1") Wedge, 220V
- #SW72652: Spec High Speed Welder, 6 Roller Preheat, 40mm (1.5") Wedge, 220V
- #SW72653: Spec High Speed Welder, 6 Roller Preheat, 50mm (2") Wedge, 220V



High Speed Welding, Italy

MICRO OVERLAP WEDGE WELDER



As a basic overlap welder, the Micro provides the benefits of hot wedge overlap welding from a small, lightweight machine. The powerful wedge delivers excellent heat for bonding medium to thicker coated textiles and guide edges keep the material in good alignment. The open style frame and retractable wedge make for easy loading. Temperature and speed controls are in easy reach of the operator. The base fits perfectly in our Track Section for simple one-person operation as either a stationary or self-propelled welder. Order either 120V or 220V Micro Wedge Welder and add Micro In-house Wheel Base Assembly.

- #MM0100.1: 120V Micro Wedge Welder
- #MM0100: 220V Micro Wedge Welder
- #MM0115: Micro In-House Wheel Base Assembly

AERO HOT AIR WELDER



Quality design, maximum performance, and excellent value all combine in the Aero Automatic Hot Air Welder. The Aero is built tough with a rugged 3 piece frame milled from aluminum plus stainless steel hardware for great strength and minimal corrosion. The unique 'dashboard' instrumentation provides an "at a glance" viewing of the welding parameters. The 1.5" (40mm) air nozzle is specifically designed to deliver greater air flow while the modular aspect of the heat source provides easy servicing. The heavy weight gives greater pressure for bonding thicker coated textiles. The brushless drive motor means years of maintenance free service and production speeds can approach 26 ft (8m) per minute. The newest choice in performance automatic hot air welder is Made in America!

#AW0100: Aero Hot Air Welder, 230V



Dashboard View



1.5" (40mm) Nozzle w/Roller



Aero Overlap Welder

Power: 230V, 4000W

Temperature: 0-1150° F (620°C)

Speed: 0-30ft/min (9m+) (depending on material thickness and ambient conditions)

Seam Width: 1.5" (40mm)

Weight: 89lbs (Including (2) 10lbs weights)

WALKABLE HOT AIR WELDER



Simplicity and efficiency combine in the Walkable Automatic Hot Air Welder. The modular heat source design delivers a greater flow of air while combined with a well engineered nozzle for excellent preheat. Heavy weight provides good pressure for bonding thicker coated textiles or can be removed for lighter weight fabrics. Simple controls and a stand up steering handle make for easy operation. Use the Walkable for your overlap and variable pocket size weld finishes. Available in a convenient 110V power source or 230V for greater heating capacity.



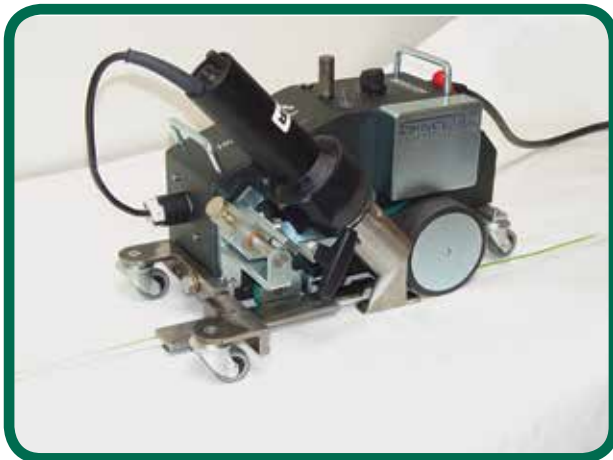
#WW0102.3: 120V, 25mm
 #WW0103.3: 120V, 30mm
 #WW0104.3: 120V, 40mm

#WW0102.4: 220V, 25mm
 #WW0103.4: 220V, 30mm
 #WW0104.4: 220V, 40mm



Walkable Overlap Weld

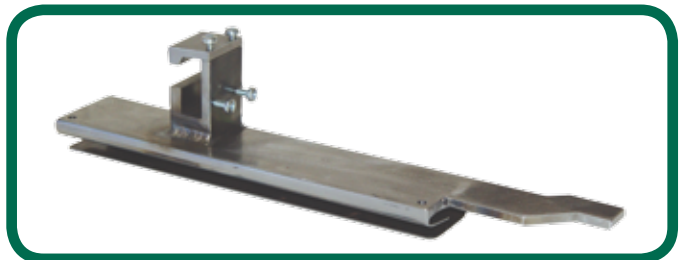
Power: 110V, 2200W or 220V, 3400W
Temperature: 0-1150° F (620°C)
Speed: 0-20ft/min (6m+) (depending on material thickness and ambient conditions)
Seam Width: 1" (25mm) or 1.25" (30mm) or 1.5" (40mm)
Weight: 65lbs (Including (1) 10lbs weight)



Walkable Hem Weld

HEM GUIDE

Perfect for the finishing of banner edges, the optional Hem Guide for the Walkable provides an easy way of producing flat hem style welds. Easy to install and use, the guide helps to pre-fold the edge of vinyl coated textiles and hold the correct size thru the welding process.
 #WW0108: 25mm, #WW0109: 30mm/40mm



Hem Guide

WALKABLE REINFORCEMENT TAPE WELDER



Excellent for your side curtain, truck cover, and tent fabrication, the Walkable Reinforcement Tape Welder has the performance to apply a 2" (50mm) coated webbing efficiently. This 230V unit delivers a greater airflow through the unique nozzle to pre-heat material and tape before bonding together under the pressure of a heavy weight system.



HAND HELD HOT AIR WELDERS



**Sinclair Ergo Grip
Hot Air Welding Gun**

#42-0151SE: 110V, 1600W
For all your hand-held welding needs. Features ergonomical grip for comfort and heat shield to help prevent accidental contact. Variable temperature control to 1300°F (700°C). Nozzle sold separately.



**Sinclair Tube Grip
Hot Air Welding Gun**

#42-0151T: 110V, 1650W
Traditional round or barrel style handle. Features exclusive dual staged fan for strong 400 l/min airflow. Variable temperature control to 1300°F (700°C). Nozzle sold separately.



Vinyl Repair Kit

#42-0110T: 110V, 1650W
Ideal for small jobs, patch and repair work. Kit includes Sinclair Tube Grip Welding Gun, 20mm Nozzle, 40mm Nozzle, Pencil Tip, Silicone Roller, Scissors, Sinclair Duffel Bag & Hat.
Kit Also available with Sinclair Ergo Grip Welding Gun #42-110SE.



20mm Nozzle
#42-406



40mm Nozzle
#42-407



20mm, 60° Nozzle
#42-406.6



20mm, 90° Nozzle
#42-406.9



Silicone Hand Roller
#11-150

EXTRUSION WELDERS



MAK 58D Extrusion Welder

#MAK58D: 230V w/D-Handle w/Case



MAK 48D Extrusion Welder

#MAK48D: 230V w/D-Handle w/Case

For Geo-Liner extrusion weld sealing, the MAK 48D and MAK 58D are proven performers. For use with 4mm or 5mm PE and PP plastic rod, the MAK 58D has nearly a 13 lbs/hr output while the MAK 48D has nearly 11 lbs/hr output (using 5mm rod). Other unique features include 2300W brushless hot air pre-heater, 650W (MAK 48D) or 800W (MAK 58D) heat band for the barrel, powerful 9 amp drive motor, hardened gears, optional 360 degree swivel Teflon shoe, and 2 year warranty! Easy to use with extension handles, the MAK 48D measures nearly 22.5" in length and weights 16.5 lbs., while the MAK 58D measures 27.5" in length and weights 22.5 lbs.



MAK 32D Extrusion Welder

#MAK32D: 230V w/D-Handle

#MAK32DC: 230V w/D-Handle w/Case

For best output to weight ratio in a versatile in-field extrusion welder, consider the new MAK 32D. With the ability to use up to a 5mm plastic rod, nearly 9 lbs of output can be found from the 15 lbs extruder measuring 23.6" in length. Further, the 2300W brushless pre-heater provides high air volume with quiet, low maintenance operation. The MAK 32D is perfect for quick repairs and unique sealing applications where high output and easy handling are required.



Mini-X Extrusion Welder

#MX100: 230V w/Case

#MX100.1: 110V w/Case

Get incredible extrusion welding performance from the award winning Mini-X. At only 7.5 lbs. and light enough to use with one hand, the Mini-X uses a 3mm rod to extrude a wide variety of thermoplastics at nearly 1.5 lbs/hr. A fully electronic controller provides digital speed, temperature, and material settings. The Mini-X has a powerful 2300W brushless pre-heater and 875W of heat to the barrel thoroughly mixes the thermoplastic rod. Pre-heat can be positioned for a bottom or side mounting and a variety of Teflon shoes are available.

TESTING EQUIPMENT



Accura-Lite Tensile Tester

As the standard for over 25 years, the Accura-Lite Tensile Tester provides simplicity, accuracy, and dependability for reliable test results. Choose between cam type jaws or traditional lock down clamps. With the longest separation capacity (27"+) and pulling speeds up to 20"/min, the high torque motor can handle up to 500 lbs pulling power with a +/- 1% accuracy. The TEDS equipped load cell means easy re-calibration. The Accura-Lite includes speed and forward/reverse controls, limit override switch for safety, DPM-3 digital indicator, and heavy duty carry case. Order as either 120V or 230V.

#AL0100.1: 110V Accuralite, #AL0100: 220V Accuralite



Fusion Coupon Cutter

Cut out coupons and pass them over to the Accura-Lite for testing. The Fusion will cut a coupon size of 1 x 6" and cut up to a thickness of 1/2".

#F100: Fusion Coupon Cutter



Manometer

The Manometer features a stainless steel needle and a graduated gauge. It has a valve stem air fitting built in.

#MS400: Manometer



Spark Tester

Small, lightweight and self-contained, our Spark Tester will throw an arc to a ground if small holes are detected.

**#MS602 : 110V Spark Tester
#MS601: 220V Spark Tester**



Vacu-lite Vacuum Box (shown left)

The Vacu-lite Vacuum Box offers a lightweight, high powered solution to your vacuum testing needs in a self-contained, 110V or 220V package. No exterior vacuum pump needed!

#V100: 110V Vacu-lite, #V200: 220V Vacu-lite

Hi Vac Vacuum Boxes (shown below)

For those jobs that require higher vacuum test values, Sinclair offers the Hi Vac series of vacuum boxes. These vacuum boxes are built tough to withstand the higher pressures produced by external vacuum pumps. Includes: on/off valve, vacuum gauge, quick disconnect fitting and 25ft of compressor hose.

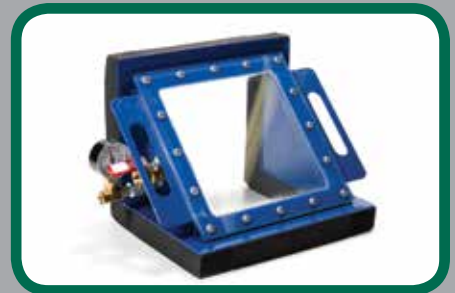
#MSVPUMP.1 Vacuum Pump sold separately.



Hi-Vac 8" Vacuum Box
#SV100



Hi-Vac 22" Vacuum Box
#HV100



Hi-Vac 90° Vacuum Box
#CV100

Micro Base for In-House Fabrication

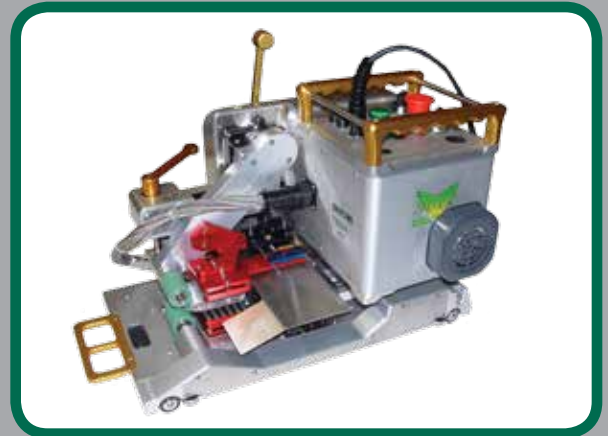
Bring your 15-40mil lighter weight, flexible liner fabrication in-house by adding the Base Assembly to your new or existing Micro Wedge Welder. This base support system for the Micro provides easy, self-propelled operation on a floor surface or in our modular Track Section (see page 8). The Micro's open style frame and retractable wedge make for simple loading while upper and lower material guides both at the weld area and in front of the machine assist to line up the material for a uniform seam size. Take full advantage of the Micro Wedge Welder's capability for both field and prefab work!

#MM0115: Micro In-House Wheel Base Assembly



Spec High Speed Wedge Welder

Accomplish the greatest volume of in-house, pre-fabrication welding with the highly versatile 230V Spec High Speed Overlap Welder. Weld 10-45mil PE coated fabric, LLHDPE, RPP, PU, and PVC at up to 70' (21m) per minute! A choice of hot wedge sizes and power plus matching pre-heat roller provide a wide versatility to welding various materials and weights. Weld on either a floor or table top surface or in our modular Track Section (see pg 8) for easy material set-up and one person operation. Match lighter weight material with a 1000W, 2 roller pre-heat system or medium weight with a 1500W, 4 roller pre-heat system. For heavier materials, best production speeds can be accomplished with the 2000W, 6 roller pre-heat system.



- #SW72610: Spec High Speed Welder, 2 Roller Preheat, 25mm (1") Wedge, 220V**
- #SW72615: Spec High Speed Welder, 2 Roller Preheat, 40mm (1-1/2") Wedge, 220V**
- #SW72620: Spec High Speed Welder, 2 Roller Preheat, 50mm (2") Wedge, 220V**
- #SW72640: Spec High Speed Welder, 4 Roller Preheat, 25mm (1") Wedge, 220V**
- #SW72645: Spec High Speed Welder, 4 Roller Preheat, 40mm (1-1/2") Wedge, 220V**
- #SW72650: Spec High Speed Welder, 4 Roller Preheat, 50mm (2") Wedge, 220V**
- #SW72651: Spec High Speed Welder, 6 Roller Preheat, 25mm (1") Wedge, 220V**
- #SW72652: Spec High Speed Welder, 6 Roller Preheat, 40mm (1.5") Wedge, 220V**
- #SW72653: Spec High Speed Welder, 6 Roller Preheat, 50mm (2") Wedge, 220V**

"Cool Grip" Hot Air Welding Gun w/40mm Tip

For all your hand-held welding needs. Features exclusive "Cool Grip" for a cooler handling of the tool and a heat shield to prevent accidental contact. Variable temperature control to 1300°F (700°C) and strong 400 l/min airflow.

#42-0153C: Cool Grip w/40mm Tip 110V , 1650W
Various Nozzles & Silicone Roller Available.
See Page 13 in Industrial Fabric Welding.



#11-600
**Geo Grip Geomembrane/
Liner Pulling Handle**



Wedge-It Wedge Welder



Since 1987 and well over 4,000 units sold, the 230V Wedge-It Wedge Welder is recognized as the leader for in-field welding. With a material thickness range of 40-120mil, the Wedge-It provides sealing of HDPE, LDPE, PE, RPP, XR5, and PVC (with change to aluminum wedge). Rugged single frame design provides durability with drop out terrain rollers for easy cleaning. Copper Split Wedge is designed for "easy-out" removal of spent cartridge heaters for best on site change. The Wedge-It features a step pressure adjustment of nip rollers, single lever wedge engagement, large digital display of temperature/speed/input voltage/hour meter, and includes carry case.

#CW2000B: Wedge-It Welder w/HDPE Case

Multi Wedge Welder



As a mid-range in-field welder, the 230V Multi provides great versatility and unique features. The Multi can be used with a wide variety of materials including HDPE, LDPE, PE, PVC RPP, and XR5 with thicknesses ranging from 20-60mil. Rigid construction eliminates frame flex and the Multi has a brushless, high torque drive motor to propel upslope. Plus the Multi is 16 lbs. lighter than our Wedge-It model. Easy operation is found from the unique single-lever engagement of hot wedge and nip rollers that combine to start the welding process. Further, the wedge design includes a powerful ceramic heater with easy replacement; no drilling of expended cartridge heaters!

#MW100: Multi Wedge Welder w/Case

Micro Wedge Welder



Light weight and easy to use, the Micro Wedge Welder is an excellent choice for your in-field thinner supported or unsupported material welding. The 1000W hot wedge can provide bonding for 15-40mil thickness of various geotextiles, LLDPE, PP, PE, PVC, and RPP. The open style frame and retracted hot wedge allow for easy loading while large urethane rollers provide smooth rolling over various terrain. Available in 120v or 230V, operation controls include digital heat and analog speed control plus hour use meter.

#MM0100: Micro Wedge Welder 230V w/Case

#MM0100.1: Micro Wedge Welder 110V w/Case

Geosynthetic Welding

SINCLAIR
equipment company



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