

STAR

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STAR MEDICAL

The Star Medical sealer is a bench mounted or free standing bag sealer designed for clean room use. Available with either one or both jaws heated it can seal all modern medical grade materials up to 800mm in width. Pneumatically operated automatic jaws allow adjustable weld pressure. The design of the machine has smooth edges for ease of cleaning with minimal risk of contaminant build up. Air exhaust is directed to an external port for filtration or connection to an external exhaust. The keypad can be locked on all models to prevent operators altering any of the weld parameters. All the Medical range of machines are finished in 304 stainless steel, 316 stainless is available as an option.



The Star Medical sealer is available with four different seal cycle controllers:

The MkVI offers weld and cool control to the nearest 1/10th of a second and has a built in program to help counteract the effects of heat build-up during rapid cycling. The innovative MkVI C has weld and cool control to the nearest °C. Adjustment is made by the keypad with an LCD readout of the settings. The keys can also be locked to prevent unauthorised alteration.

If more accurate controls are required, the Star ARTICS and Medical controllers also allow the element to ramp up to a weld temperature and be held for a time. Cooling time or temperature and element preheat are also included. This

allows for a perfect weld to be achieved every cycle. All settings are password protected and the board allows up to 8 different sets of parameters to be programmed. Alarm parameters can be set to give operational tolerances; a preheat is available for more rapid welding.

Heat Sealing Solutions

Star Universal has been manufacturing heavy duty and specialist heat sealing machines since 1967. Our continued efforts in product development have placed us at the forefront of heat sealing technology.

Our machines vary from standard bag sealers to bespoke equipment producing shaped welds on a variety of different plastic and laminated materials.

We supply equipment to a full cross section of businesses, including international blue chip companies, local and national government departments as well as smaller enterprises.

Our commitment to building a quality product ensures the best results from our machines, with a minimum of maintenance for years to come.

SPECIAL APPLICATIONS

As all our Star Medical machines are built in house from sheet metal we can incorporate specific design requirements and modifications for various applications. Some of these include manual or pneumatic presses to remove most of the excess air from a pack before sealing, roll holders with no back bars with manual or automatic cutters for making bags out of tubing and vacuum attachments for vacuum sealing. Below are just a few of the examples of custom built machines we have produced for customers in the past. If you have an unusual application for any sort of sealing please contact our sales team.



Special End Sealer for Sealing Filter Membranes into a Fluid Filled Bag



Vacuum and Seal Machine for Vacuum Packing Inhaler Cartridges



Vertical Vacuum and Seal Machine for Packing Syringes into Boxes

TECHNICAL SPECIFICATION

Seal Length	400mm	600mm	800mm
Seal Width	9mm standard. 6mm, 12.5mm and 20mm options		
Cut Length Manual or Automatic	400mm	600mm	800mm
Jaw Opening	50mm standard, 25-200mm options		
Max Material Thickness	Over 1000µm (4000g)		
Sealing Cycle Time	Typically 4 - 20s Seal Only, 15 - 45s Vacuum Seal		
Power Supply	230V 50/60Hz Single Phase, 115V Optional		
Average Power Consumption / Cycle	0.01 - 0.03kWh		
Average Power	Weld 1730W, Cool 125W, Standby 250W		
Air Supply	6 - 8 bar Clean Dry Air		
Air Consumption / Cycle	0.525 - 3.5 NI at 6 bar		
Overall Length Seal Only	555mm	755mm	955mm
Overall Length Vacuum Seal	690mm	890mm	1090mm
Depth	Seal Only 442mm, Vacuum Seal 667mm		
Overall Height	Seal Only 290mm, Vacuum Seal 350mm		
Weight Seal Only	From 23kg		
Weight Vacuum Seal	From 38kg		

All the above weights and dimensions are approximate and based on the standard machine E&OE. Star Universal reserve the right to change the above specifications without prior notice.