

MAJOR B.M.A. MEDICAL



**SEMI AUTOMATIC
PNEUMATICALLY OPERATED
HEAVY DUTY
IMPULSE SEALING MACHINE
WITH PROCESS CONTROLLER**

MAJOR BMA-MEDICAL

A validatable semi-automatic impulse sealing machine designed for medical and other critical applications where there is a need for high quality repeatable seals to be produced within controlled parameters.

The BMA MEDICAL can be produced in several specifications from the standard powder coated mild steel up to 316 stainless version, depending on the level of clean room or production environment the sealer is required to work in.

All three seal quality parameters are set from digital displays. The air pressure to the sealing jaws is set and monitored by a digital gauge which incorporates a high and low level parameter control, outside these pre-set parameters the sealer will not operate. Precise seal temperature and heating time are controlled by an advanced processor.

The processor monitors the temperature of the heating element precisely without the use of a sensor, as temperature is controlled by measuring the resistance of the heating element of both voltage and current and adjusts the power to the element to maintain the temperature at the pre-selected set point.

The alarm facilities of the machine detect any change to the three sealing parameters, should temperature, time or pressure go out of the pre-set tolerance, this activates the alarm mode and the sealer fails to operate.

This model also uses temperature to control the jaw opening. A minimum pre-set has to be attained (typically 60° C) to allow the sealing jaws to release. **This is another factor in achieving repeatable high quality seals.**

This air operated model MAJOR BMA-MEDICAL is manufactured in a range of sizes and offered in basic form as a robust table top sealer. All the machine mechanisms, pneumatics, electrics and controls are housed within the unit. The pneumatic circuit incorporates a low pressure safety system, this allows the sealing jaws to close by low pressure air only (until fully closed). The low pressure circuit removes the risk of accidental injury to the operator whilst the jaws are closing, only when fully closed on the film can the heat and high pressure required to make seal be activated.

Operation of the machine is by a low voltage electric foot switch as standard (Note a push button version available on request). Sealing is initiated when jaws are closed on the film, jaws open automatically once the seal cycle is complete. Standard finish is a hard wearing epoxy powder coat - colour white.

A manually operated rear sliding cutter is available as an option for trimming pouches for a neat finish, the cutter blade is retractable for safety requiring the operator to press down on the cutter handle whilst cutting.

The Major BMA is also available in stainless steel for higher level cleanroom environments. An IP65 version can be quoted for special or aggressive production environments.

FEATURES

Precise control over all three sealing parameters

8mm wide seal as standard

Low pressure safety circuit.

Alarm Features.

Extended life of the sealing jaw consumables by control of sealing process.

OPTIONS

Manual rear mounted heavy duty safety trimmer.

Stainless Steel & IP54/65 Versions.



ACCESSORIES

Height adjustable floor stand.

Product support tray / table.

TECHNICAL SPECIFICATION

MODEL SIZE	625	750	1000
SEAL LENGTH mm	625	750	1000
SEAL HEIGHT FROM TABLE TOP (IF BENCH MOUNTED)	265		
CUT LENGTH mm	625	750	1000
SEAL WIDTH	8mm		
SEALABLE THICKNESS	Max 2 x 250 micron (2 x 1000g) film		
SEALING TEMPERATURE	Processor controller 0-300°C		
SEALING TIME	Weld time 0-9.99 Seconds, Dwell time 0-99.9 Seconds		
JAW OPENING	38 mm		
JAW ACTUATION	Pneumatic		
BODY LENGTH ' X ' in ' mm	850	960	1240
SEALING TIME	Adjustable up to 10 Seconds		
POWER SUPPLY	230 Volt		
AIR PRESSURE	Up to 5 bar (80 p.s.i.)		
AIR CONSUMPTION	0.23 dm3/seconds (0.5 c.f.m.)		
POWER VA (Watts)	920	1100	1300

