

# MAJOR B.M.A. MEDICAL



SHOWN ON  
OPTIONAL  
FLOOR STAND  
& TRAY

**SEMI AUTOMATIC  
IMPULSE SEALER  
WITH PRECISE SEALING  
PARAMETER CONTROL**

## MAJOR BMA-MEDICAL

A fully validatable high specification impulse sealing machine. Designed for medical and other critical applications, where repeatable high quality seals are paramount set within controlled parameters. The MAJOR BMA-Medical is a robust air operated machine, suitable for use with most single web plastic, co-extruded and laminated plastic films. This model is used for the sealing of breather bags /header bags, Tyvek pouches, coated paper sterilisable pouches. The sealer conforms to medical standard ISO 11607.



A highly developed processor controls the sealing cycle, allowing a precise sealing temperature to be set in conjunction with accurate heat and dwell settings. This innovative controller continually monitors and governs the temperature of the heating element without the use of a thermal sensor. For the duration of the sealing process it precisely measures the heating element resistance electronically, adjusting the power into the element maintaining the temperature set on the display. The controller also features the facility to set a minimum temperature at which the jaws open, (rather than cooling time), this compensates for any underlying residual heat in the jaws, a commonplace problem with repeated operation, (guaranteeing the seal has welded perfectly).

An alarm feature is built in to all the sealing parameter sensors, any deviation from the set parameters triggers the alarm preventing the sealers operation, error messages will show on the display.

A digital air gauge ensures consistent uniform pressure at the sealing jaws.

The MAJOR BMA-Medical is manufactured in three model sizes and is available as a sealer only for table mounting or with an optional adjustable height floor stand, with lockable wheels for mobility. A further option of an adjustable height front pack support tray is available which mounts from the stand for rigidity.

Other notable features include, an extended life of the sealing jaw consumables (tapes and elements etc), with a controlled sealing temperature, the components of the sealing jaw are not subject to excessive heating, resulting in burn out, a common frustration with standard impulse sealers. This feature in turn has a direct effect on reducing maintenance requirements. This air operated sealer has the feature of a controlled low pressure closing of the sealing jaws, additionally a higher force to open the jaws on completion of the seal cycle, preventing films sticking to the jaws on release. (This can be a problem with electrical jaw mechanisms (i.e solenoid or magnet sealers).

Two safety circuits are built into this machine, firstly, the air circuit incorporates a low pressure air safety system, this minimises the risk of accidental injury to the operator whilst the jaws are closing. Only when fully closed, is the heating circuit and high pressure air activated to produce a strong and durable seal. Secondly, the electrical circuit automatically opens the jaws if a pre-set closing time is exceeded, even if the footswitch is still depressed, it is assumed that an object being packed or operator's fingers may still be between the sealing jaws.

Operation of the machine is simple, sealing is initiated via a low voltage electric foot switch, jaws open automatically once the seal cycle is complete.

The finish of the standard sealer is a hard wearing epoxy powder - colour white. Stainless steel versions are available if required for customers application / environments.

Optional extras include, height adjustable floor stands, product supports trays/shelves, etc, (see below).

### FEATURES

Accurate control over all three Sealing parameters. (ISO 11607)

Air & Electrical safety circuits

Out of tolerance parameter alarm

Extended life of the sealing jaw Consumables

High pressure applied during the Sealing cycle only

### OPTIONS

Height Adjustable Stand mounted on Braked wheels

Height adjustable stand mounted on feet

Front Product Support Tray, height Adjustable in stainless steel

### TECHNICAL SPECIFICATION

MODEL SIZE	625	750	1000
SEAL LENGTH mm	625	750	1000
SEAL HEIGHT FROM TABLE TOP	265 mm (IF BENCH MOUNTED)		
SEAL WIDTH	8mm		
SEALABLE THICKNESS	Max 2 x 250 micron ( 2 x 1000g) film		
SEALING TEMPERATURE	Processor controller Ambient to 300°C		
SEALING TIME	Typically, 0-2.5 Secs		
JAW RELEASE / OPENING	Typically 40-80°C (adjustable)		
Set by a minimum Temperature			
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 6 bar (80 p.s.i.)		
AIR CONSUMPTION	0.23 dm3/seconds (0.5 c.f.m.)		
POWER VA (Watts)	1800	2000	2500

