

MAJOR B.M.A. PRO SERIES



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

MAJOR BMA-PRO

Significant for critical applications, where repeatable high-quality seals are paramount set within strict limits.

The MAJOR BMA PRO is a heavy duty air operated model of Impulse sealing machine with precise parameter control. Suitable for use in sealing of a wide range of plastic based films, including single web materials e.g. polythene's, polypropylenes, co-extruded, to laminated plastic and coated foils and papers.

The machine features a highly developed processor module that exercises absolute control over the sealing process. A precise sealing temperature is able to be set, alongside accurate heating and dwell time, imposing total control of the seal cycle. As part of its function, the controller continually monitors and governs the temperature of the heating element, without the use of a thermal sensor. Throughout the duration of the sealing cycle, it precisely measures the elements resistance electronically, adjusting the power into the sealing jaws, maintaining the pre-set temperature. The facility to apply a minimum temperature at which the jaws open, rather than a set cooling time is available as an option, this helps negate any underlying residual heat build up in the sealing jaws, a commonplace problem with repeated operation. A key attribute, is being able to set a lower sealing temp for a longer heating time period, allowing greater penetration of gusseted / thicker films or to combat mild product contamination.

Built in alarms prevent the sealers operation, should there be any deviation from the pre-set parameters. An error code will display the nature of the fault. Other notable features include, an extended life of the sealing jaw consumables (tapes and heating elements etc). With a controlled sealing temperature, the components of the sealing jaws are not subject to excessive heating, resulting in burn out, etc, a common frustration with standard impulse sealers. This in turn has a direct effect on reducing maintenance requirements.

Pneumatic operation, providing the benefits of a positive action, for both the opening and the closing of the sealing jaws (no spring return), plus imposing a high pressure on the area of seal.

MAJOR BMA PRO is manufactured in a range of sizes and is available as a table top unit or with an optional adjustable height floor stand etc (see below for available options).

Two safety circuits are integral to the machine, firstly a separate low pressure air system closes the sealing jaws, this minimises any risk or accidental injury to an operative. Only when fully closed, will heat and high pressure air circuit engage to produce a strong and durable seal. A secondary electrical protection circuit (auto abort), returns the sealing jaws to the open position, If a programmed closing time is exceeded, even if the operating footswitch remains activated. It is assumed that an object being packed or operatives fingers may be unintentionally 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 as required for customers application / environments.



FEATURES

- Precise control over sealing cycle.
- Out of tolerance parameter alarm.
- Extended life of the sealing jaw.
- Air & Electrical safety circuits.
- High pressure applied to the area of seal.
- Reduced maintenance.

OPTIONS

- Manual rear trimmer
- Height adjustable floor stand mounted on braked wheels or self leveling feet.
- Adjustable height product support tray, stainless steel.
- Both sealing jaws heated.
- Upgrade to digital pressure gauge (from analogue) for validation purposes).
- Stand mounted Integral air compressor

TECHNICAL SPECIFICATION

MAJOR BMA PRO				
MODEL SIZE	625	750	1000	1250
SEAL LENGTH mm	625	750	1000	1250
SEAL HEIGHT FROM TABLE TOP (IF BENCH MOUNTED)	265			
CUT LENGTH mm	625	750	1000	1250
SEALING JAWS	Lower heated Jaw, Silicon rubber top jaw (as standard)			
SEALABLE THICKNESS	Max 2 x 250 micron (2 x 1000g) film			
SEAL MWIDTH	6 mm			
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	1320
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)	1800	2000	2100	2500

