



## MAGAZON EBU / SBU SERIES MAGNETIC PARTICLE INSPECTION (MPI) BENCHES

## **INTRODUCTION**

Baugh & Weedon Ltd is a trusted supplier of MPI equipment to the NDT industry. Their MAGAZON series of benches have a proven track record for reliability and durability, and are in daily use by most of the leading UK Aerospace companies. Designed and produced in Hereford, UK, the MAGAZON series offers testing for components of all sizes that require substantial magnetising currents.



The benches are available in varying sizes, a wide range of magnetising modes and current waveforms with a variety of accessories and ancillary equipment. Their design allows the freedom to build benches to individual specifications offering the optimum combination of technical and commercial satisfaction. The MAGAZON series construction is based on a heavy-duty framework fitted with a stainless steel drain tank. The frame design usually allows the power pack to be mounted integrally. Alternatively, the power pack can be housed in a separate cabinet.

Bed bars which support a fixed position headstock and movable tailstock, are mounted in the tank. For ease of movement the tailstock has sintered phosphor bronze bearings and is fitted with a simple lock. The head and tailstocks are equipped with test piece supports and easily replaceable copper mesh contact pads.

Pneumatic clamping prior to magnetising is operated by a footswitch.

On the Magazon SBU, the clamping pressure can be reduced, which affords protection to delicate components. A small piece device can also be fitted, which provides rotation of the component for easy viewing. For heavier testpieces support rollers mounted on the bed bars are available.

Instrument controls and digital ammeters are on an eye-level console located above the headstock. Digital metering is standard on all units and can be calibrated to display the output current in PEAK, RMS, or 2xMEAN. Two meters are provided, each with independent control. One meter displays HEAD current, and the other displays FLUX/COIL current.

Selection of magnetising mode, current waveform and shot time is by rotary switches. Indicator lamps show power ON and READY, while illuminated push-buttons allow initiation of magnetising and demagnetising cycles. Each console is populated in accordance with the options provided on the particular unit and a typical example is illustrated,

The MAGAZON EBU and SBU Series has a universal, microprocessor based, electronic system which allows many additional features to be incorporated. These include:

+ Current pre-selection. The required current level once selected is automatically achieved when the magnetising "shot" is initiated.

+ Built-in memory. An integral memory will store up to 99 sets of data including all test parameters for each component. This feature is extremely useful when testpiece batches are small, and frequent changes are needed.



**POWER PACKS** 

For the Magazon SBU, a nominal 2500 A power pack provides AC, with HWDC (half wave rectified) and single phase, or 3-phase FWDC (full wave rectified) waveforms as options.

For the Magazon EBU, nominal 3000A or 5000A AC power packs are standard, though alternative options are available subject to technical appraisal.

The provision of HWDC (half wave rectified) or FWDC (full wave rectified) waveforms can also be accommodated.

On standard models infinitely variable current control is achieved using thyristors resulting in a complex current waveform. However, where a sinusoidal waveform is required for compliance with some test specifications, the option of variable transformer control is available for both the Magazon SBU and EBU.

In a high volume production line, component throughput is vital and can be a limitation on output. Two further options are available with a standard MAGAZON Series bench to provide increased inspection capacity.

+ Multi-directional magnetising or "Swinging Field" allows two magnetising circuits to operate simultaneously, eliminating the need for multiple "shots". Defects in any orientation are highlighted in a single operation and consequently only one viewing is necessary.

+ Automatic sequencing provides a degree of automation which can be selected depending on the application. A semi automated sequence would limit operator involvement to loading the testpiece, initiating the cycle and unloading. The normal sequence of clamping, inking, magnetising and unclamping can be achieved automatically. During this time the operator is able to inspect the previously magnetised component.

**PRODUCTION I** 

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The MAGAZON Series is suitable for use with either kerosene or water based magnetic particle inspection inks. Ink is applied to the testpiece by a manually controlled spray or from an overhead shower with timed control related to the magnetising shot. Excess ink drains to a separate free standing stainless steel reservoir, fitted with an integral pumped recirculation system which maintains the particles in suspension. The inking system is a self contained unit with its own controls mounted on the reservoir to assist emptying and cleaning.

Where fluorescent inks are specified, inspection conditions are critical. To satisfy specified lighting requirements ultraviolet lamps and a viewing canopy are available. The free standing canopy consists of a metal frame covered in a heavy flame-resistant material with front opening curtains, and can enclose sufficient area to include an inspection station or a supply of testpieces. The canopy has an extractor fan, white light and power point for the ultraviolet lamp, fitted as standard.

OPTIONAL FEATURES (EBU)

A wide range of additional equipment may be fitted to, or powered by, a MAGAZON EBU series bench to extend its capability.

+ Encircling Coils. A range of interchangeable encircling coils is available. The coil carriage is track mounted at the rear of the bench and is adjustable in height. It can accommodate coils with internal diameters between 300 mm and 600 mm while maintaining the centre of the contact pads in line with the coil centre. Head and tailstock design allows coil "parking" behind the faceplate affording clear access to a testpiece. If the coil is not in use it can be folded back, out of the way. Either round or square split coils, mounted directly to the bedbars, can also be supplied.

+ Flux Coils. Magnetising coils with laminated cores built into the head and tailstock provide the magnetic flux for "Flux Flow" or "Mag Flow".

+ Special Coils. Alternative coils to meet special applications can be supplied, either mounted on the bench if space permits, or on a separate free-standing frame. These include spiral or "pancake" coils, encircling coils with laminated cores and split coils, or knife switch coils, with a turntable to rotate the testpiece.

+ Remote Magnetising. Components which are difficult to load because of their size or shape can be magnetised off the bench. Output sockets allow the bench power supply to be connected to prods, leeches or wrapped cables.

+ Testpiece Supports. V-block supports are fitted to the head and tailstock as standard. Adjustable support rollers fitted to the head or tailstock, or mounted on the bed bars, can be supplied. A small piece device affords protection to delicate components is also available.



## **SPECIFICATION**

	Max Testpiece: EBU: 1000 1500 2000 2500 3000	SBU: 800 1000 1200
	Length, mm: 1000 1500 2000 2500 3000	800 1000 1200
	Weight, kg: 250 250 250 250 250	25 25 25
	Equipment Dimensions:	
	Width, mm: 2000 2500 3000 3500 4000	1400 1600 1800
	Depth, mm: 850 850 850 850	650 650 650
	Height to bed bar, mm: 885 885 885 885 885	975 975 975
	Bed to pad centre, mm:         430         430         430         430	200 200 200
Power	STANDARD MODELS Pack: EBU: AC waveform with rated output currents as follows:-	OPTIONS & ALTERNATIVES EBU: HWDC (half wave rectified) and single or 3 phase FWD
i ower i	1) 3 Series - 3000 A (RMS).	(full wave rectified) waveforms.
	2) 5 Series - 5000A (RMS).	SBU: HWDC (half wave rectified) and single phase FWDC (fu
urrent Flow Magneti	SBU: AC waveform with rated output current of 2500 A (RMS). sing: EBU: Max nominal outputs AC:-	wave rectified)) waveforms. EBU: Max norninal outputs HWDC:
Jurrent Flow Magneti	1) 3 Series - 4200 A (peak)	1) 3 Series - 4200 A (peak)
	2) 5 Series - 7000A (peak) measured through a standard shunt.	2) 5 Series 7000 A (peak) measured through a standard shun
	Carriage mounted, 5 tum, 300mm to 600mm ID, length 120 mm.	SBU: Max output nominal 2800 A FWDC (peak)
	SBU: Max output nominal 3500 AC (peak), measured through a standard shunt.	
Encircling	Coil Carriage mounted, 5 tum, 300mm ID coil, length 100 mm.	EBU: Alternative sizes 400, 500 and 600mm ID.
	sing: EBU: Nominal maximum output/centre field strength in an empty coil.	SBU: Max output nominal 5400 AT HWDC (peak) for a 300mn
	1) 3 Series - 6000 AT AC (RMS) / 34 kA/m.	coil. Smaller ID coils for clamping between head and tailstock
	<ol> <li>S Series - 9000 AT AC (RMS) / 47 kA/m.</li> <li>Coil can be parked at either head or tailstock, or folded away.</li> </ol>	
	SBU: Carriage mounted, 5 turn, 300 mm ID coil, length 100 mm.	
	Nominal maximum output / centre field strength in an empty coil.	
Elver Elver Manad	4200 AT AC (RMS) / 17.5 kA/m. Coil can be parked at either head or tailstock.	FRU & ORLIN Line d and the lints of sints and films and in an and the
Flux Flow Magneti	sing:	EBU & SBU: Head and tailstock integral flux coils powered by AC, HWDC, single or 3-phase FWDC.
Multi-Direct	ional	EBU & SBU: Swinging Field: Simultaneous operation of two
Magneti	sing:	magnetising circuits, to produce a "swinging field" or rotating
Current Control Sv	tem: EBU & SBU: Variable thyristor, with resulting complex waveform.	vector. EBU & SBU: A variable transformer can be fitted to provide a
Current Control Sys		sinusoidal current waveform.
Working Ra	inge: EBU & SBU: Current range: 10% to 100% of maximum output.	EBU:Extended working range subject to requirements.
	The FRUID OPIL D'Although in the Production of PEAK DNO 400 MEAN IS	SBU: Extended working range down to 150 A (peak) minimum
Meterin	ring: EBU & SBU: Digital metering, calibrated to display PEAK, RMS or 2 x MEAN, to within 5% over working range to meet customer requirements.	EBU: AC output displayed as rms (variable transformer only). HWDC and FWDC output displayed as peak.
		SBU: AC output displayed as rms (variable transformer only).
		HWDC and FWDC output displayed as peak. Calibration
01-11		outside working range:- 150 to 350 A (peak): 10%
Shot	Fime: EBU & SBU: Pre-set single shot of 1, 2 or 3 seconds (other timings can be accommodated).	EBU & SBU: Any shot-time combination can be catered for,
Duty C		
	ycle: Dynamic duty cycle from 20% at maximum output, to 100% at around 1000A PEAK.	including multiple shots.
Max "ON"	Time: EBU & SBU: 3 seconds at 20% duty cycle.	
Max "ON"		EBU only: FWDC DEMAG: Low frequency, reversing polarity,
Max "ON" Demagneti	Time: EBU & SBU: 3 seconds at 20% duty cycle.	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method.
Max "ON" <sup>-</sup> Demagneti	<ul> <li>Time: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block.</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method.
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Max "OŃ" <sup>-</sup> Demagneti Heads	<ul> <li>Time: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block.</li> <li>SBU: Pneumatically operated, manual control. Clamping stroke: 25mm. Contact pads: 100mm x 100mm. Adjustable clamping pressure (optional).</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method. EBU: Special designs of faceplate and contact pads available
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Max "ON" <sup>-</sup> Demagneti Heads Tails	<ul> <li>Time: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block.</li> <li>SBU: Pneumatically operated, manual control. Clamping stroke: 25mm. Contact pads: 100mm x 100mm. Adjustable clamping pressure (optional).</li> <li>tock: EBU &amp; SBU: Fully adjustable, manual positioning over entire bed length. Manual quick release locking mechanism.</li> <li>port: EBU: V-blocks on head and tailstocks.</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method. EBU: Special designs of faceplate and contact pads available SBU: Foot switch operation. Alternative clamping travel. EBU: Integrally mounted roller supports. Removable small
Max "ON" <sup>-</sup> Demagneti Heads Tails	<ul> <li>Time: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block. SBU: Pneumatically operated, manual control. Clamping stroke: 25mm. Contact pads: 100mm x 100mm. Adjustable clamping pressure (optional).</li> <li>tock: EBU &amp; SBU: Fully adjustable, manual positioning over entire bed length. Manual quick release locking mechanism.</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method. EBU: Special designs of faceplate and contact pads available. SBU: Foot switch operation. Alternative clamping travel. EBU: Integrally mounted roller supports. Removable small piece device for rotating delicate components. Bed bar
Max "ON" <sup>-</sup> Demagneti Heads Tails	<ul> <li>Time: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block.</li> <li>SBU: Pneumatically operated, manual control. Clamping stroke: 25mm. Contact pads: 100mm x 100mm. Adjustable clamping pressure (optional).</li> <li>tock: EBU &amp; SBU: Fully adjustable, manual positioning over entire bed length. Manual quick release locking mechanism.</li> <li>port: EBU: V-blocks on head and tailstocks.</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method. EBU: Special designs of faceplate and contact pads available SBU: Foot switch operation. Alternative clamping travel. EBU: Integrally mounted roller supports. Removable small piece device for rotating delicate components. Bed bar mounted adjustable supports.
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Max "ON" <sup>-</sup> Demagneti Heads Tails Testpiece Sup Inking Sys	<ul> <li>Fime: EBU &amp; SBU: 3 seconds at 20% duty cycle.</li> <li>sing: EBU &amp; SBU: Automatic decaying AC DEMAG</li> <li>tock: EBU: Pneumatically operated, with footswitch control. Clamping stroke: 50mm. Contact pads: 160mm x 160mm with V-block. SBU: Pneumatically operated, manual control. Clamping stroke: 25mm. Contact pads: 100mm x 100mm. Adjustable clamping pressure (optional).</li> <li>tock: EBU &amp; SBU: Fully adjustable, manual positioning over entire bed length. Manual quick release locking mechanism.</li> <li>port: EBU: V-blocks on head and tailstocks. SBU: V-blocks on head and tailstocks.</li> <li>sBU: V-blocks on head and tailstocks.</li> </ul>	EBU only: FWDC DEMAG: Low frequency, reversing polarity, current step-down method. EBU: Special designs of faceplate and contact pads available SBU: Foot switch operation. Alternative clamping travel. EBU: Integrally mounted roller supports. Removable small piece device for rotating delicate components. Bed bar mounted adjustable supports. SBU: Removable small piece device for rotating delicate components. Bed bar mounted adjustable support. EBU & SBU: Automatic inking as part of the automated process sequence.
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