

INJECTION MOULDING MACHINES

Machine Make & Type	Machine Group	Screw Diameter (mm)	Lock (tonnes)	Platen Size (mm)	Distance Between Tie Bars (mm)	Tool Height (mm)	Location Ring Diameter (mm)	Serial Number	Horizontal / Vertical / Rotary / Universal	BPTE Ref
Arburg 270S-250-60	M25H	25	25	400 x 400	270 x 270	200-475	125	186006	Horizontal	m/c 1
Arburg 270S-250-60	M25H	22	25	400 x 400	270 x 270	200-475	125	180459	Horizontal	m/c 2
Arburg 220H-75-250	M25H	25	25	346 x 346	221 x 221	200-475	110	158847	Horizontal	m/c 3
Arburg 220D-55-250	M25H	25	25	346 x 346	221 x 221	200-475	110	140194	Horizontal	m/c 4
Arburg 320M-210-500	M50H	35	50	490 x 490	320 x 320	250-625	125	170495	Horizontal	m/c 5
Arburg 470C-1500-350	M150H	40	150	650 x 650	470 x 470	250	125	191429	Horizontal	m/c 6
Arburg 270S-250-60	M25V	18	25	400 x 400	270 x 270	200-475	110	185592	Universal	m/c 7
Arburg 270S-250-60	M25V	25	25	400 x 400	270 x 270	200-475	110	188436	Universal	m/c 8
Arburg 221M-75-350	M35H	20	35	250 x 221	221	150-300	110	164341	Universal	m/c 9
Arburg 221-175-350	M35H	25	35	250 x 221	221	150-300	110	142421	Universal	m/c 10
Arburg 221-55-250	M25H	22	25	250 x 221	221	150-300	110	132972	Universal	m/c 11
Arburg 221-55-250	M25H	18	25	250 x 221	221	150-300	110	138899	Horizontal	m/c 12
Arburg 320C-250-600	M60H	35	60	490 x 490	320 x 320	250-625	125	180411	Universal	m/c 13
Engel 200/50 VV	M50V	30	50	Ø900	-	190	100	27141	Rotary (2)	m/c 14
Battenfeld BA-T1600V	M175H	45	160	Ø1300	-	262-475	125	494462	Rotary (2)	m/c 15
Arburg 320D-210-850	M85H	30	85	490 x 490	320 x 320	250-625	125	145342	Universal	m/c 16
Arburg 420M-350-1000	M100H	40	100	545 x 545	420 x 420	250	125	167778	Horizontal	m/c 17
Arburg 520C 2000-675	M200H	55	200	685 x 685	520 x 520	250-900	125	186270	Horizontal	m/c 18

METAL PRESSING MACHINES

Machine Manufacturer	Pressing Force
Worcester	6 Tonne
Worcester	10 Tonne
Worcester	15 Tonne
Hare AM300	20 Tonne
Hare AM300	20 Tonne
Cincinnati Milacron	20 Tonne
Cincinnati Milacron	20 Tonne
Bliss CV4 Power Press	25 Tonne
HME GP30	30 Tonne
Rhodes	60 Tonne
HME GP70	70 Tonne
Rhodes	75 Tonne
Norton Fly Press	0.5 Tonne

Injection Ancillary Equipment

Desiccant Dehumidifying Dryers
Mould Heaters (Oil & Water)
Hopper Loaders
Mechanical sprue separators
Conveyors

Pressing Ancillary Equipment

Durr Degreasing Equipment
Rumbling Facility
500Kg Decoilers

Assembly

CNC Automatic Pin Insertion (Autosplice)
Ultra-sonic Welding
Heat Staking
Resistance Welding of Electrical Components
PCB based product assembly including Automated Test Equipment (ATE)
Bauer Hand presses

Printing on Plastics

Logica Tampo 150	4 Colour CNC modular duct
Logica Tampo 150	4 Colour CNC individual duct
PP21 Pad Printer	Single Colour

Toolmaking

EDM & Agie Spark Erosion c/w 3R and orbit facility
Hitachi 203H CNC Wire Erosion
Bridgeport MDI Programmable Milling
Bridgeport Milling machine (x2)
Jones & Shipman 540 Surface Grinding (x2)
Smart & Brown Turning
Wickman Optical Profile Grinding
Small Table Grinder
Drilling, Sawing etc.

Design

Solid Works 2001 Plus
Autocad 12 LT

Mould tool and Component design is done on site at Brittanica Precision

Brittanica Laboratory Scope

Brittanic has the capability to carry out dimensional testing on any components manufactured in house or by our subcontractors. This includes initial sample inspection, first off inspection, dimensional patrol inspection and investigation inspection where required.

Measuring Equipment for dimensional testing purposes.

Equipment	Uses	Range	Accuracy
Smart Scope CMM (Contact & Non contact)	Various	300 x 150mm	+/-0.0007mm
Vernier Caliper	Various	0-200mm	+/- 0.01mm
Micrometer	Various	0-50mm	+/- 0.003mm
Surface Table	Flatness & height	200x200mm	+/- 0.003mm
Height Gauge	Height	0-30mm	+/-0.003mm
DTI	Flatness & Roundness	Various	+/-0.0004mm
Shadow Graph	Various	XY 50x50mm	0.05%
Plug Gauges	Diameters	Various	+/- 0.003mm

Environmental Conditions.

The environmental conditions with the laboratory are not controlled although the temperature will be recorded on the measurement results.

Statistical Techniques.

A computerised software program exists for recording and calculating statistical results, these are input directly from the CMM or vernier / micrometer via a multiplexer. Manual data input can also be calculated if required.

Laboratory Personnel.

Within the laboratory experienced personnel are used for measuring and giving judgements on measurements results. Any member of the quality department can make such judgements.