

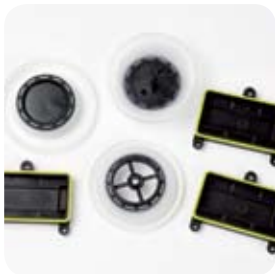
Liquid silicone resin systems, compression and injection moulding, over moulding, encapsulation, micro parts, seals and masks.



A full range of precision silicone moulded components is produced by Arrow Medical, including a variety of components for use in breathing apparatus, and many other delicate and intricate precision applications.



Components, sub-assemblies and complete products are destined for use in a variety of applications. These include breathing equipment, medical sealing applications and surgical products such as complex masks, designed to interface with areas of critical soft tissue, such as lips, eyes and other highly sensitive areas, especially in anaesthetic and ENT applications.



Seven injection moulding presses are available for component production, extending from an 80-ton Maplan press to the 35-ton, 8-inch Arburg, exclusively used for liquid silicone resin work. Arrow Medical uses a liquid silicone resin (LSR) system, and a number of options that allow both micro parts and components to be produced with hard/soft combinations of materials.

The LSR processing system enables Arrow Medical to provide complete biocompatible encapsulation of medical devices to the very high standard of performance required for devices in long term contact with the body.

Other moulding systems allow compression moulding of many different polymer formulations, and Arrow Medical's technology also allows over-moulding and other composite processing techniques to produce sub-assemblies, including combinations of rubbers, silicones, and other 'hard' or semi-rigid metals and plastics.



Contact Rita Didcock

+44 (0)1544 231760

rita@arrowmedical.co.uk

Contract Medical Manufacturing Services

Arrow Medical Group Ltd, Hatton Gardens Industrial Estate, Kington, Herefordshire, HR5 3RB

Tel: +44 (0)1544 231760 Fax: +44 (0)1544 231640 www.arrowmedical.co.uk

Silicone moulding, RF welding, clean room assembly, sterile chain packaging and delivery, and a full manufacturing service to ISO 13485:2003, ISO 9001:2000 and FDA GMP standards.



RF Welding

Welding, cutting and forming of PU and PVC to 900mm by 600mm with complete assembly of multi-layers, leak-free pressure testing and process validation.

Clean room assembly

Multiple class 10,000 units with manual and semi-automated assembly, sterile packaging, labelling and logistics, product validation, and pre-production assembly trials.

Textile assembly

Precision assembly with multi-layer shaping, punching, cutting, welding, sewing, gluing, bonding and sealing using clinical grade polymer-based films and advanced fabrics.

Sterile packaging

Complete sterile service. Printing, auto-packing, labelling, stock control, kit packing and consolidation for clinical assemblies, secure storage and known global shipper status.

Test Equipment List

Item Description	Current location	Dimensions (m)	Services	Extras
Dynascope	Quality office	1.5 x 0.6 x 1.0	Power supply	Measurement area 165mm ³ 10x 20x and 50x magnification
Video Dynascope	Unit 5	1.5 x 0.6 x 1.0	Power supply	Measurement area 165mm ³ 10x 20x and 50x magnification
Tensile tester + PC	Unit 5	2.0 x 0.7 x 1.0	Power supply	Max tensile force up to and including 2500N
Tensile tester + PC	Unit B1	2.0 x 0.7 x 1.0	Power supply	Max tensile force up to and including 500N
Steam Autoclave	Unit 5	0.5 x 0.25 x 0.25	Power supply	Capacity 0.03m ³
Inflation testers (2 cabinets)	Unit B1	2.2 x 1.0 x 0.6	Compressed air and power supply	
CMM + PC	Unit 3	2.0 x 1.2 x 1.5	Compressed air and power supply	Capacity 3.6m ³
Inspection tables x 3	Unit 9	300mm x 300mm	None	No Extras
Microscope x 4	Unit 3, 4, B1	0.2 x 0.3 x 0.15	Power supply	10x 20x and 35x magnification. Working distance 150mm.

Silicone Injection Moulding

Equipment	Manufacturer	Quantity
Injection Press 40 ton: 10 inch	Maplan	1
Injection Press 80 ton: 17 inch x 3	Maplan	1
Injection Press-221 25 ton: 8 inch	Arburg	1
Injection Press 35 ton: 8 inch	Arburg	1
Compression Press 40 ton: 17 inch	Bradley & Turton	1
LSR Pump Unit (20Kg Hopper)	Dopag	1
LSR Pump Unit (20Kg Hopper)	2KM	1
Oven (Curing) 0.5 cubic metre. 3kw		1
Oven (Curing) 0.7 cubic metre. 6kw		1
Chiller x 2		1
Priming Cabinet x 2		1
Compressor (Rotary)	Fluidair	1
Shot Blaster & Roller		1
2 Roll Mill: 16 inch		1

RF Welding

Equipment	Manufacturer
RF Welder TP15: 1,200mm x 900mm: 15kw	Stanelco
RF Welder 105CW: 900 mm x 600mm: 10kw	Radyne
RF Welder: 750mm x 600mm: 10kw	Thor
RF Welder SP40: 750mm x 550mm: 7kw	Stanelco
RF Welder: 750mm x 550mm: 1kw	Coaxil Power
RF Welder In Line: 550mm x 400mm: 8kw	Geaf
RF Welder SP40: 320mm x 230mm: 2.5kw	Stanelco
RF Welder: (Development): 220mm x 60mm: 3 kw	Stanelco
Chiller/Cooler x 2	
Compressor	
Solvent Dispenser (Tube) 8mm dia'	
Solvent Dispenser (Tube) 8mm dia'	
Shot Blaster & Roller	
2 Roll Mill: 16 inch	

Contact Rita Didcock

+44 (0)1544 231760

rita@arrowmedical.co.uk

Contract Medical Manufacturing Services

Arrow Medical Group Ltd, Hatton Gardens Industrial Estate, Kington, Herefordshire, HR5 3RB

Tel: +44 (0)1544 231760 Fax: +44 (0)1544 231640 www.arrowmedical.co.uk