



Precision silicone for medical devices.

*From R&D to millions of parts, moulded, assembled,
sterilised and packed in the UK since 1989.*

1989

ESTABLISHED

+/- 0.05mm

TYPICAL TOLERANCE

ISO 8

CLASS K CLEANROOMS

13485

CERTIFIED QMS

CLINIPOL.CO.UK

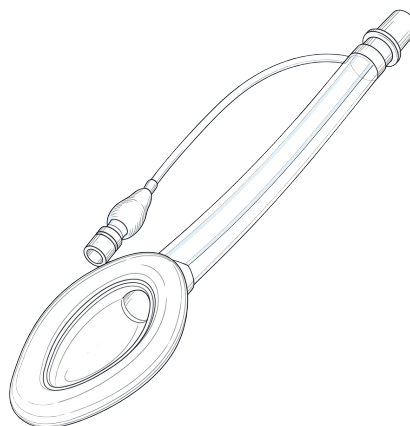
COALVILLE, LEICESTERSHIRE, UK

A UK medical silicone manufacturer since 1989.

Clinitech Polymers Ltd was founded in 1989 by Tony Anthony and John Lewin, both healthcare-sector specialists previously with Dunlop Precision Rubbers. The company was formed to manufacture the Laryngeal Mask Airway, the anaesthetic airway device developed by Dr Archie Brain.

Through the 1990s the business built a portfolio of specialist medical product lines. Clinical Polymer Technologies now operates as part of Clinipol Holdings Ltd, a group of three companies producing precision moulded polymer components for the healthcare and aerospace markets.

CPT is more than a rubber moulder: we manufacture niche medical products and take a concept through development to fully packaged, sterilised production.



LARYNGEAL MASK AIRWAY, THE PRODUCT CPT WAS
FOUNDED TO MANUFACTURE IN 1989

Mission

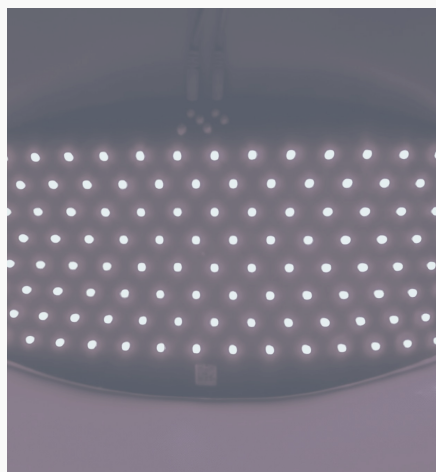
To manufacture precision polymer components healthcare and device customers can rely on, to specification, and to the regulatory standards the sector demands.

Approach

Long-term partnerships supported by measured investment in tooling, materials trials and process development, from low-volume programmes to series production.

Values

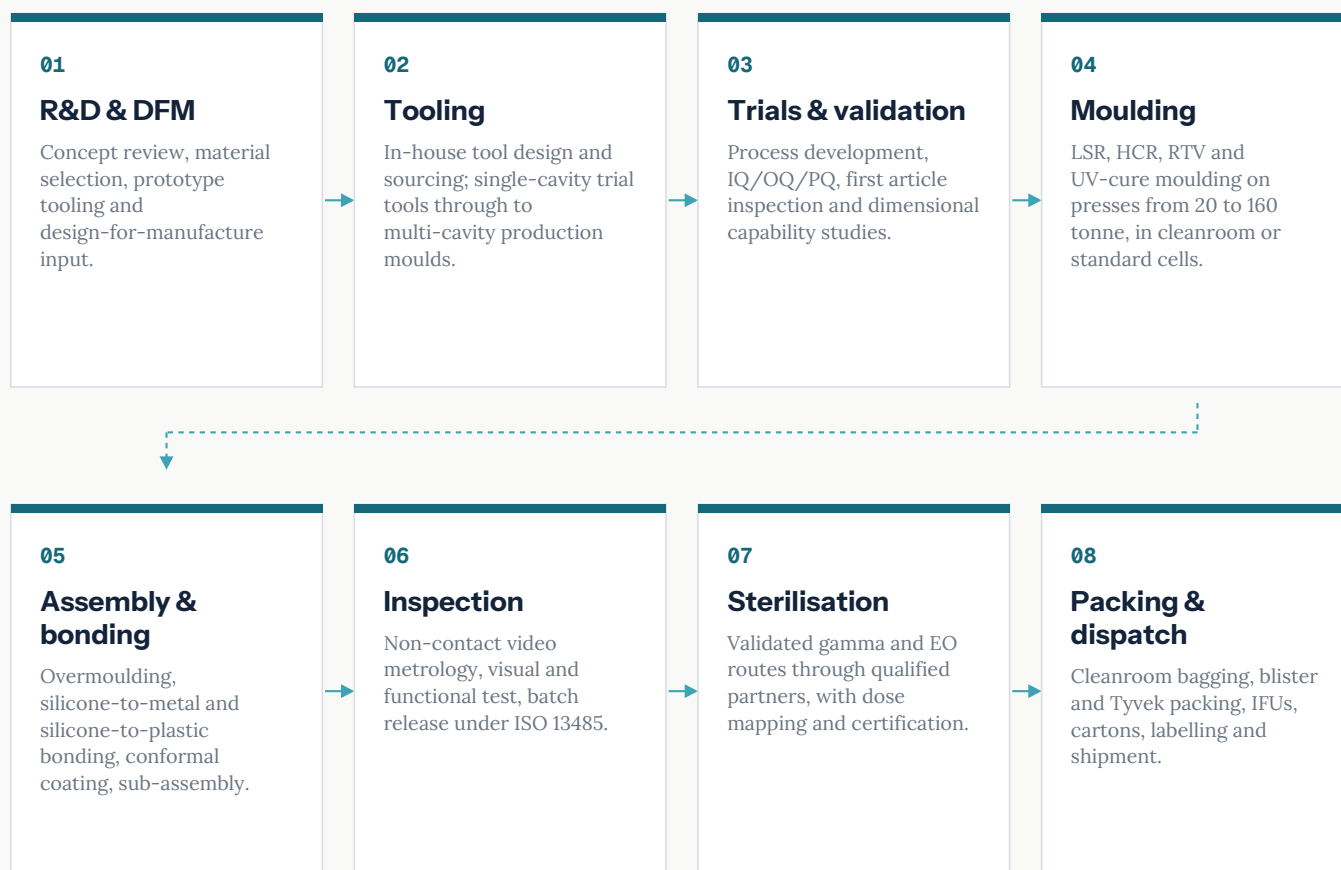
Precision, integrity and technical rigour, underpinning the complete-package service that has retained our customers across successive decades.



MOULDED SILICONE COMPONENTS, PRODUCTION PARTS

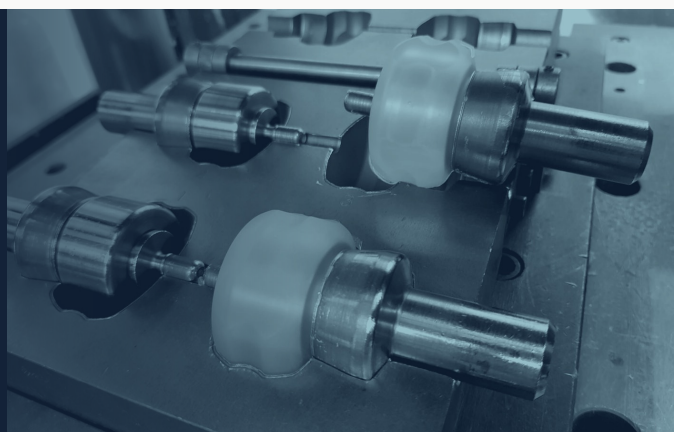
From R&D to millions of parts.

One team, one contract, one site. Every stage below is carried out in-house at our Leicestershire facility, so design intent, tooling, validation, sterilisation and final pack stay under a single quality system with unbroken traceability.



Scale without changing supplier.

Programmes start with a handful of prototype parts and grow into multi-million annual volumes on the same tooling philosophy, the same quality system and the same engineering team, no tech transfer, no re-validation, no new vendor audits.



Twelve integrated capabilities under one roof.

Moulding is the middle of the process, not the whole of it. CPT covers tool design, materials development, moulding, assembly, decoration, inspection, sterilisation and packing, so a component leaves us finished, verified and ready for the shelf.

01 Liquid silicone (LSR) moulding

Automated, low-flash LSR injection moulding on presses from 20 to 160 tonne.

02 High-consistency (HCR) moulding

Compression and transfer moulding of high-consistency silicone rubber.

03 RTV, room-temperature & UV-cure

Two-part RTV casting, dip-coating and UV-cure systems for specialist geometries.

04 Overmoulding

Silicone onto metal, thermoplastic and textile inserts with validated bond strength.

05 Silicone-to-metal bonding

Primer and chemical-bond systems for hubs, mandrels and instrument bodies.

06 Conformal & parylene coating

Surface treatment and coating for lubricity, sealing and barrier performance.

07 Tool design & manufacture

In-house tool design; prototype through multi-cavity production tooling.

08 Materials milling & compounding

Colour, catalyst and additive compounding on our own two-roll mill.

09 Cleanroom assembly

Sub-assembly and device build inside ISO Class 8 (Class K) cleanrooms.

10 Pad printing & decoration

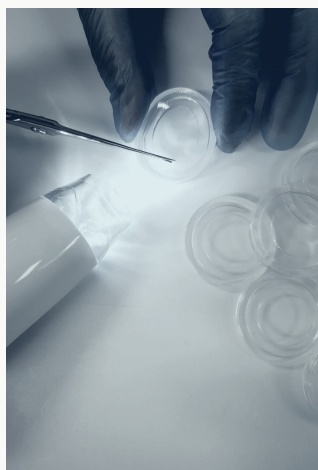
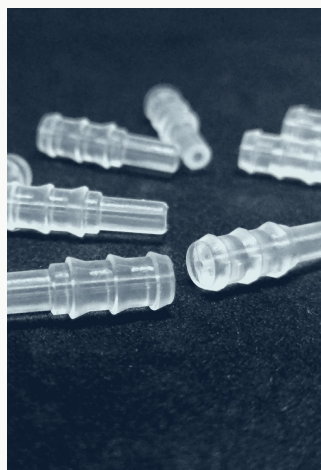
Graduation marks, logos and identification printed to medical standards.

11 Sterilisation management

Validated gamma and EO routes with dose mapping and full documentation.

12 Packing, labelling & dispatch

Bagging, blister, Tyvek, IFUs, multi-language cartons and final pack.



LSR, HCR AND RTV COMPONENTS IN PRODUCTION

ISO 13485:2016, audited and maintained.

Our quality management system is certified to ISO 13485:2016 by LRQA for the design and manufacture of moulded silicone components and medical devices. CPT is also registered with the FDA as a foreign manufacturer under FURLS. Certificate no. 10749203, valid to March 2029.

Cleanroom manufacture

Two ISO Class 8 (Class K, 100,000) cleanrooms for moulding, assembly, printing, inspection and packing, parts never leave classification between operations.

Non-contact metrology

A Starrett KMR-200 video inspection system measures soft silicone without probe deflection. Combined up-light and down-light separates the true moulded edge from translucent flash.

Validation & traceability

IQ/OQ/PQ protocols, first article inspection, batch records and full material traceability from raw silicone through to shipped device.

Supply chain control

Validated suppliers, dual-sourcing on critical materials and managed sterilisation partners keep audit trails clean and lead times stable.

ISO 13485

CERT. 10749203

ISO 8

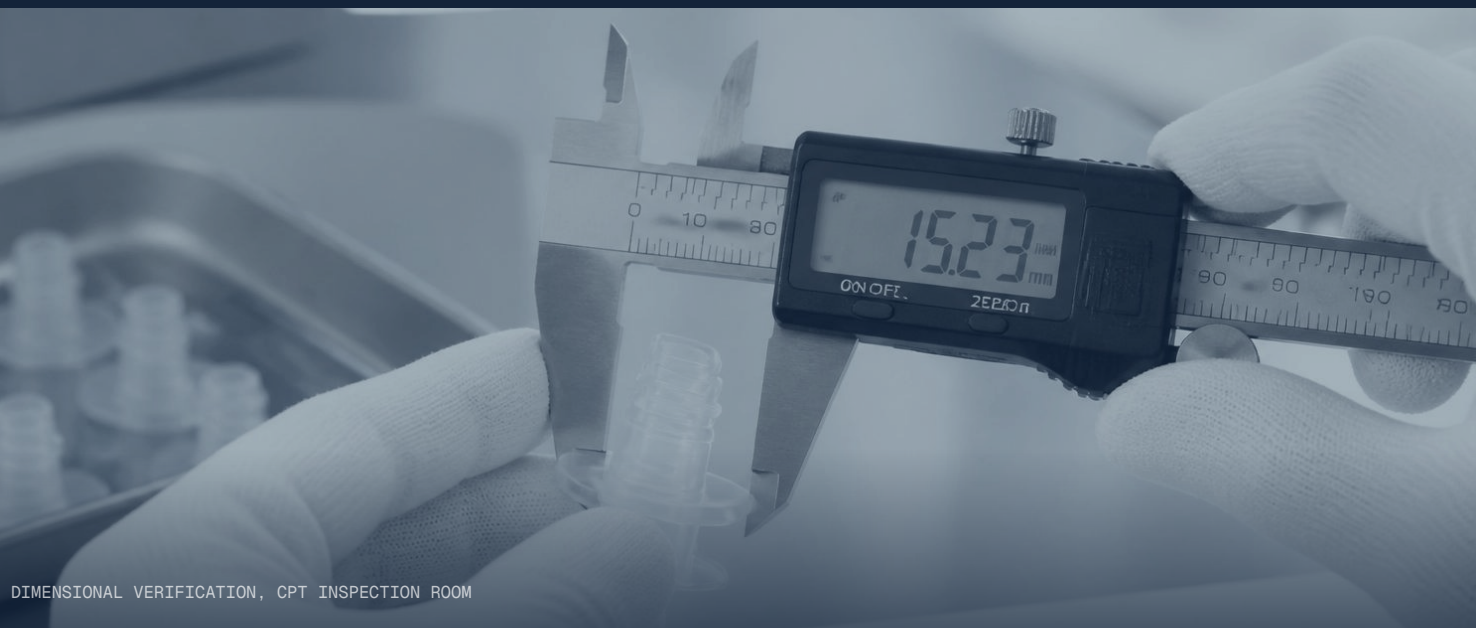
CLASS K CLEANROOMS

FDA FURLS

REGISTERED

+/- 0.05mm

TYPICAL TOLERANCE



DIMENSIONAL VERIFICATION, CPT INSPECTION ROOM

Medical-grade silicone systems, matched to the application.

We work with the leading medical silicone houses, NuSil, Dow, Momentive, Wacker, Elkem and Shin-Etsu, and compound colour, catalyst and additives in-house so a formulation can be tuned to the device rather than the device to the formulation.

LSR & HCR systems

Liquid silicone rubber for automated, high-volume, low-flash moulding, and high-consistency rubber for compression and transfer work. 10-80 Shore A, optical clear through to fully pigmented.

Biocompatible by design

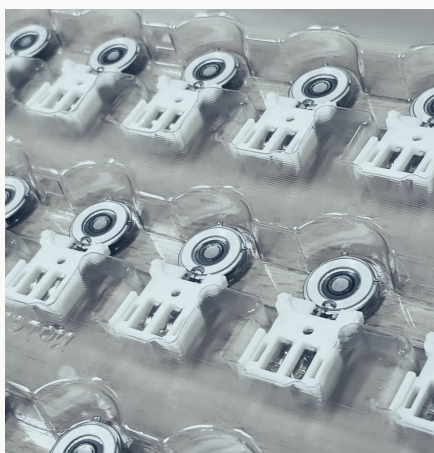
Platinum-cure chemistry throughout, with materials supported by ISO 10993 biological evaluation and USP Class VI certification, implant-grade systems available where the application demands it.

RTV, UV-cure & specials

Two-part RTV casting and dip systems, UV-cure silicones for fast localised cure, plus radiopaque, antimicrobial, conductive and self-lubricating additive packages.

- Medical devices
- Drug delivery
- Neonatal & paediatric care
- Respiratory & anaesthesia
- Pharmaceutical

- In-vitro diagnostics
- Surgical instruments
- Wound care
- Life sciences
- Orthopaedics



Programmes we have taken from brief to shipped product.

Client names are confidential. What follows is a selection of current and completed CPT programmes, set out as the engineering problem we were handed and the route we took to solve it.



01 • WOUND CARE

Active-ingredient LSR patches

A wound-care client needed potassium permanganate carried within a soft silicone patch at a controlled, repeatable loading. CPT developed the compounding route to disperse the active evenly through the LSR without degrading cure or leaving agglomerations, then validated the moulding process so every patch delivers the same dose across the batch.



ADDITIVES



MIXING



DRUG DELIVERY



02 • ORTHOPAEDICS

Finger joint replacement, packed for market

A silicone finger joint replacement moulded, deflashed and inspected in cleanroom conditions, then blister packed, gamma sterilised and returned for final pack into multi-language cartons with patient cards and instructions for use. One purchase order covers the whole chain, the client receives OR-ready, market-labelled stock.



IMPLANT GRADE



GAMMA STERILISATION



FULL TURNKEY



03 • NEONATAL CARE

Sterile procedure kit

A sterilised neonatal kit built around a reinforced silicone bag used to protect protruding intestines, supplied together with dressings and ancillary components. CPT moulds the bag, assembles the kit, manages sterilisation and packs the finished, sterile presentation.



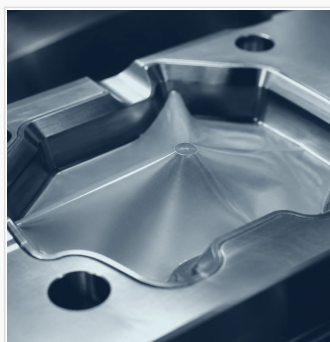
ETO STERILISATION



KITTING



HAND ASSEMBLY



04 • ABLATION

0.15mm patient barrier

A patient barrier for an ablation device, moulded down to a 0.15mm section at the critical feature, a wall thickness other moulders had been unable to fill and release consistently. CPT won the programme after those attempts failed, developing the tool, gate and cure strategy needed to hold the section repeatably in production.



PRECISION MOULDING



SPECIALIST TOOLING



One supplier, from first drawing to sterile pack.

Full turnkey manufacture

Tooling, moulding, assembly, sterilisation, packing and dispatch on one contract.

ISO Class 8 cleanrooms

Mould, assemble, print, inspect and pack without leaving classification.

Fewer vendors

Consolidation removes four or five suppliers from your chain, with programme management included.

Specialist processes

LSR and HCR moulding, overmoulding, silicone-to-metal bonding and conformal coating.

Full UK manufacture

Every stage carried out on our Leicestershire site, no offshoring, complete traceability.

Certified & registered

ISO 13485:2016 certified by LRQA and registered with the FDA under FURLS.

Send us a drawing or a problem.

Enquiries, technical questions and feasibility discussions are welcome, including the ones other moulders have turned down. If it can be moulded, we will tell you how, and if it cannot, we will tell you that too.

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