

Pre-fillable Syringe Systems



Working Together

At Plas-Tech Engineering we are dedicated to building long-term partnerships with our customers and collaborators. For over three decades, we have been supporting the healthcare industry with high-quality medical products and injectables across diverse markets. We partner with our customers to provide complete contract manufacturing and end-to-end medical device solutions. Our experience and expertise enable us to manage projects with precision and efficiency.



Fully Customisable Syringe Solutions

Plas-Tech Engineering is a leading manufacturer of pre-fillable syringes for the medical device, pharmaceutical, and biotechnology industries. We offer silicone-free and glass-replacement syringe solutions. Our pre-filled plastic syringes may be used for a variety of applications to ensure safe, efficient delivery of pharmaceutical compounds.

ISO standard and bespoke

Comfort grip

Glass replacement polymers

Amber for light-sensitive formulations

Desirable for long-acting injectables including highly viscous formulations

DMSO compatible solutions

Small batch manufacturing

Markets we serve



Rare Diseases

Our pre-fillable syringes enable safe, reliable, and consistent delivery for life-changing therapies. From small-batch production to highly specialized formulations, we collaborate closely with pharmaceutical partners to meet the unique challenges of rare disease treatments.



Ophthalmic

Our specialised pre-fillable syringes for eye care that offer reliable dose precision and ease of use for healthcare professionals. Our manufacturing capabilities meet stringent regulatory and quality standards, minimising contamination risks and supporting the safe administration of ophthalmic medications.



Aesthetics

Plas-Tech Engineering supports the rapidly growing aesthetics sector with pre-fillable syringes for aesthetic and reconstruction products. Our syringes ensure consistent dosing and ease of use for practitioners.



Neuro and Cardiovascular

Plas-Tech Engineering supplies syringes specifically for neuro and cardiovascular applications like Liquid Embolics, ensuring consistency in DMSO applications for patients with the most critical needs.



Equinox[®] Syringes

Equinox[®] Syringes are a pre-fillable glass alternative option for pharmaceutical and biotechnology companies. These syringes, available in small or large batches, deliver fast speed-to-market products to facilitate validation and commercial introduction.

- Available in multiple syringe sizes:
 - ISO sizes: 1ml long, 2.25ml, 3ml, 5ml
 - Comfort grip sizes: 1ml long, 2,25ml, 3ml, 5ml, 10ml
 - Other sizes available on request
- Silicone-free options
- Siliconised barrel options
- Smooth breakforce and glide
- COC / COP / Polycarbonate glass-replacement resin options
- Other polymers available on request
- Comfort grip snap-clip/ backstop
- Amber for light-sensitive formulations
- DMSO compatibility
- Colour options available
- Plasma treatment available
- Options for both sterile and non-sterile
- Choices of stopper and caps (rigid and soft caps)
- Small dosing increments and clear graduations (including *0.5 mL specifically)

equinox
syringes



SmarTUB™

SmarTUB™ is the first commercially available nested syringe where the customer has a choice. With flexibility and customisation, there is room for tailoring the design and specifications according to your needs. This flexibility enables manufacturers to accommodate different drug formulations, dosages, and delivery requirements.

- Available in sterile (ready-to-use) and ready-to-sterilise
- Compliant with ISO11040
- Customer branding available
- Amber for light-sensitive formulations



Services and Capabilities

Plas-Tech Engineering offers a wide range of services to support your product development. From concept stage through manufacturing process definition and onward to validation, we take your injection device ideas or concepts to commercial reality and supply.



“End-to-end –
from concept to
production –
under one roof,
to accelerate lead
times and make
low volumes viable.”



Concept and Feasibility

Realising user-friendly and sustainable injectable devices from your ideas and concepts

Optimising your design for manufacturability (DFM) and design for assembly (DFA), and cost effectiveness are a key focus

Feasibility analysis and risk assessment to evaluate your project's technical and regulatory needs



Prototyping & Testing

State-of-the-art equipment and technology including 3D printing to create prototypes that match your specifications and expectations

Prototypes are built to meet ISO 13485-2016 validation requirements



Tooling

In-house injection moulding tool manufacturing

Tooling for Scientific Injection Molding (SIM)

Wide range of tooling options including insert molds, stack molds, micro molds



Injection Moulding

Manufacturing in a Class 7 or 8 Cleanroom environment

Injection moulding manufacturing including micro-moulding, insert moulding, overmoulding, scientific injection moulding and tech transfer



Assembly and Packaging

ISO Class 6, 7 and 8 cleanrooms for assembly and packaging

Ultrasonic washing of components to meet stringent USP 789 particulate control

Standard and bespoke packaging to meet customers requirements



Sterilisation

Comprehensive sterilisation solutions utilising Gamma, X-Ray & EtO

Other sterilisation forms available on request

Dedicated sterilisation team

Sterilisation management support



Quality, Regulatory & Validation

Robust quality management system

Standard or custom validation protocol generation

Dedicated validation and quality engineering support

ISO 13485-2016 certified

Documentation support for regulatory submissions



Let's work together

Manufacturing

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