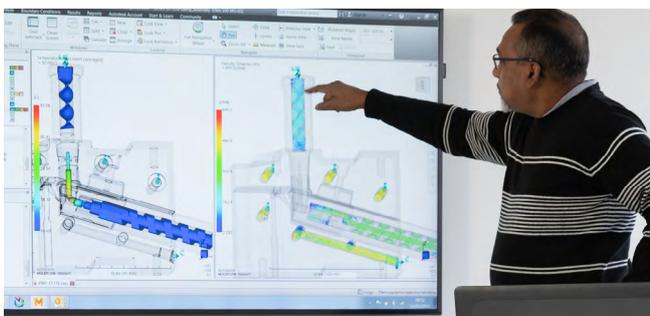


# OUR INNOVATION SERVICES

Bespak by Recipharm delivers market leading design, development, and manufacturing services for drug delivery devices to the global pharmaceutical market. Based in Cambridge, UK, our innovation centre is home to a team with diverse skills and expertise. Established to create new technologies that form the core around which we build and develop reliable, robust products, capable of meeting and exceeding our customers' expectations with a focus on parenteral, nasal and ophthalmic routes of administration.



Our patent-protected designs, broad industry expertise and close working relationships with our customers ensure we are able to develop flexible and effective solutions for even the most demanding requirements. Using our specialist expertise in medical device product development, our innovation team is dedicated to taking new ideas and translating these into market successes.

Our unique development service 'Device on Demand' utilises our toolbox of innovative technical solutions, proven to solve our customers' commonly faced challenges in preparing, storing, or delivering drugs.

#### **BENEFITS OF THIS SERVICE INCLUDE:**

- ▶ Access to patent-protected and proven functional component technologies
- ▶ Administration technologies for liquids, powders, and gels, as well as separation and mixing technologies
- ▶ Detailed understanding of plastic and elastomeric materials and their use within medical products
- ▶ In-house prototyping capabilities, resulting in proof-of-principle devices

## INNOVATION OF INJECTABLE DEVICES

### VAPOURSOFT® TECHNOLOGY

- ▶ Compact energy source containing liquefied HFA gas
- ▶ Technology based upon proven expertise in metered dose inhaler valves
- ▶ Gentle release of pressurised vapour to power viscous drug delivery
- ▶ Minimal user effort
- ▶ VapourSoft® powers needle insertion and delivery from primary containers
- ▶ By using different HFA gasses, the power can easily be adjusted for different configurations



### SYRINA® AR: 2ML AUTO-INJECTOR WITH AUTOMATIC NEEDLE RETRACTION

- ▶ Builds upon other auto-injectors in the Syrina® range with the additional feature of automated needle retraction following dose delivery



### SYRINA® MINI: PREVENTING PRE-FILLED SYRINGE NEEDLE STICK INJURIES

- ▶ An assisted syringe with an integrated needle safety system
- ▶ Illustrates innovative capabilities, showing how we can adapt and evolve our devices to address user and pharmaceutical company needs



**About Bespak by Recipharm:** Bespak by Recipharm delivers market leading design, development and manufacture of drug delivery devices to the global pharmaceutical market. This includes inhaler, nasal technologies and auto-injectors as well as development and manufacturing services. Recipharm is at the leading edge of drug delivery device innovation. Driven by customer and patient demand, our innovations have the potential to create new treatments and opportunities across the globe as well as accelerating routes to market.