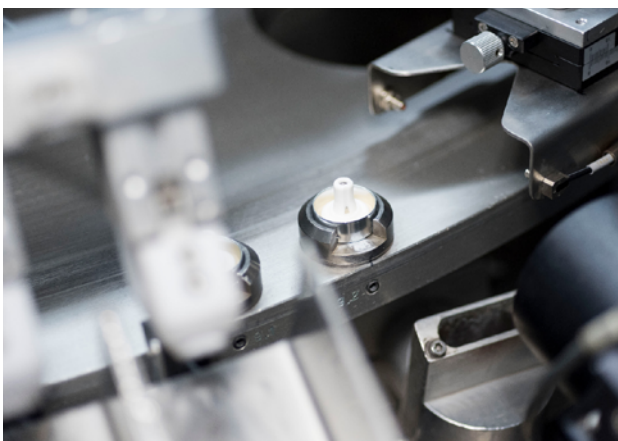


# DEVICE DESIGN, DEVELOPMENT AND MANUFACTURE



*Bespak by Recipharm delivers market leading design, development, and manufacturing services for inhalation drug delivery devices to the global pharmaceutical market, at low, medium and high volume manufacturing scales.*

*We have extensive experience in producing medical devices, including inhalers and nasal technologies, for some of the world's leading pharmaceutical companies.*



## Manufacturing

We pride ourselves on delivering manufacturing excellence through a variety of core competences, including:

- ▶ Precision injection moulding
- ▶ Component handling
- ▶ Complex high speed automation
- ▶ Component inspection

Through continuous improvement and design for manufacture, validation and in process inspection we deliver the highest levels of cGMP control, regulatory compliance and quality.

## Our core capabilities include:

- ▶ Injection moulding
- ▶ Assembly
- ▶ Metrology
- ▶ Rapid prototyping
- ▶ Marketing support and lifecycle management
- ▶ Programme management
- ▶ New Product Introduction (NPI)
- ▶ Analytical services
- ▶ Quality and regulatory

## Injection moulding

With over 50 years' experience in the field, our experts offer a range of reliable injection moulding capabilities for MDI valves and actuators and nasal spray devices.

Our team of process, tooling and moulding technical experts offer our customers a large range of injection moulding capabilities:

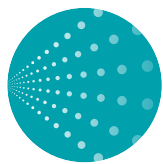
- ▶ Single to 128 impression mould tools
- ▶ 2K injection moulding and over-moulding
- ▶ Micro-moulding to 300T
- ▶ Multi-component injection moulding

## Metrology

Our team of qualified metrology engineers are able to reduce delivery timescales by supporting development throughout the product lifecycle, from conception through to commercialisation and manufacturing. Designing our metrology fixtures and programmes in-house enables us to remain at the forefront of innovation and allows us to customise the support we offer to our customers.

## New product introduction (NPI)

Our extensive experience in producing medical devices at all manufacturing scales means our industrialisation process is managed by our tried and tested NPI process. This framework is based on the key principles of product quality planning and incorporates our structured risk-based programme management approach.



## Recipharm Inhalation Solutions™

Recipharm is a leading CDMO in the inhalation space, with a long history in inhalation drug product and device development and manufacturing. Recipharm offers an end-to-end service for inhalation drug products and devices from early stage development through to commercial manufacturing for MDIs, DPIs and nasal sprays.

Delivering market leading design, development, and the manufacturing of drug delivery devices to the global pharmaceutical market, in conjunction with Bepak by Recipharm, the integrated CDMO can comprehensively cater for, inhaler, nasal and auto-injector projects, as well as providing access to a team of experts with decades of expertise that allows them to manage complexity and accelerate routes to market. These expertise form part of Recipharm's Inhalation Solutions™, an end-to-end solution spanning early phase development to commercial manufacture.

As a global CDMO, Recipharm is at the forefront of global compliance requirements for inhalation products. For more information, please visit: [recipharm.com](http://recipharm.com)

**About Recipharm:** Recipharm is a leading contract development and manufacturing organisation (CDMO) headquartered in Stockholm, Sweden. We operate development and manufacturing facilities in France, Germany, India, Israel, Italy, Portugal, Spain, Sweden, the UK and the US and are continuing to grow and expand our offering for our customers.

Employing around 9,000 people, we are focused on supporting pharmaceutical companies with our full service offering, taking products from early development through to commercial production. For over 25 years we have been there for our clients throughout the entire product lifecycle, providing pharmaceutical expertise and managing complexity, time and time again. Despite our growing global footprint, we conduct our business as we always have and continue to deliver value for money with each customer's needs firmly at the heart of all that we do. That's the Recipharm way.