

# Ready-to-use (RTU) pre-filled syringes and cartridges system

Our state-of-the-art and fully automated pre-filled syringes and cartridges line facilitates efficient aseptic filling of all commercially available RTU syringes and cartridges, glass and plastic, nested in tubs and bags.



## Our capabilities

### Batch size

- ▶ 10–500L

### Capacity

- ▶ 40 million units per year
- ▶ 10,000 units per hour

## High speed system

To achieve your project goals, our state-of-the-art flexible sterile pre-filled syringe filling facility uses a high-speed line that has the ability to provide billions of doses of sterile products, including biologics and vaccines.

- ▶ Syringe size: 1–5mL, fill 0.25–5.0mL
- ▶ Cartridge size: 1–5mL, fill 0.25–5.0mL
- ▶ Filling mechanism: rotation piston, peristaltic pumps
- ▶ Nest filling: 10 filling needles, 10,000 units per hour

## Designed for biologics

We can offer the highest level of cGMP aseptic processing to reliably supply your pre-filled syringe or cartridge to an administrator or patient.

- ▶ Potency product up to OEL 3
- ▶ Air bubble reduction with N<sub>2</sub> gassing before and after
- ▶ Vacuum stoppering & 2 step-filling process
- ▶ High viscosity products
- ▶ Automatic IPC
- ▶ Biosafety level: 1
- ▶ Cold storage
- ▶ Frozen storage available -20°, -70°C

As a result of investing in a wide range of specialised equipment for complex formulations such as highly viscous, liposomal and nanoparticles, we can meet the unique needs of a range of sterile pre-filled syringe and pharmaceutical cartridge filling project.

A woman with dark curly hair, wearing a white lab coat over a black turtleneck, is looking towards the right and speaking. She is holding a yellow folder. In the background, another person with blonde hair is partially visible, also in a lab coat. The setting appears to be a laboratory or pharmaceutical facility.

## 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.