

Quality time for better care



PHARMACEUTICAL

# Your Integrated CDMO Partner for Parenteral Drug Products

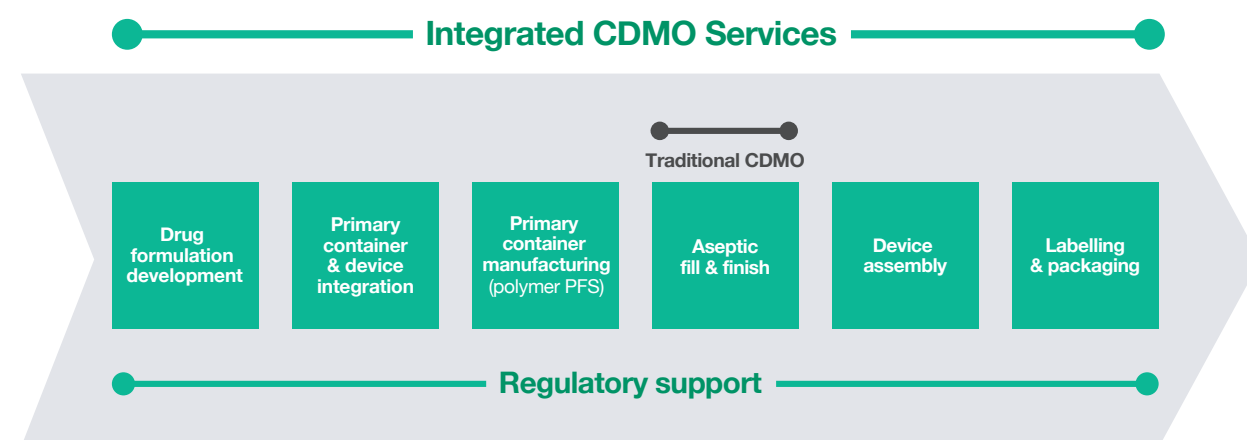
## Let's find your best solution

We provide sterile injectable contract development and manufacturing (CDMO) services from initial combination device design and formulation development to commercial manufacturing.



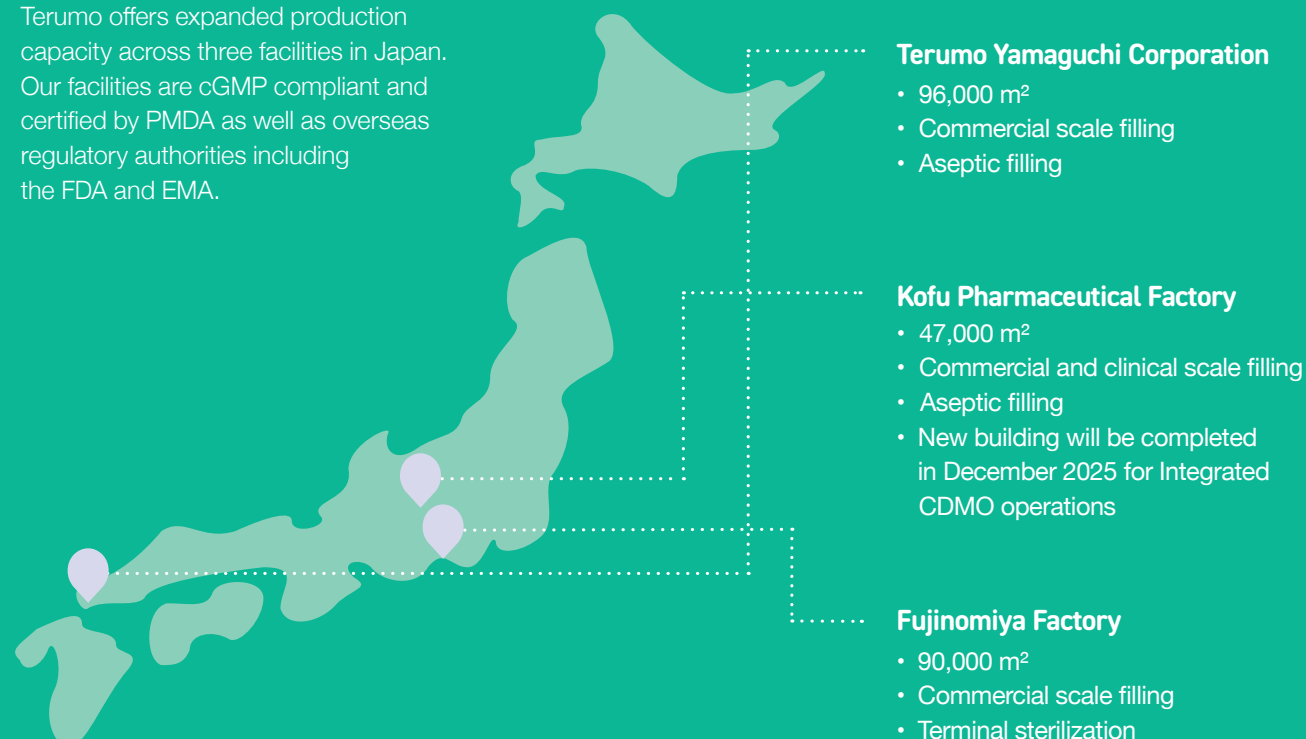
## Access world-class CDMO capabilities

We provide sterile injectable CDMO from clinical to commercial scale. Drawing on 100 years of expertise, our integrated services include combination product design, formulation development, aseptic fill & finish, device assembly and packaging.



## Supporting better patient experiences around the world

Terumo offers expanded production capacity across three facilities in Japan. Our facilities are cGMP compliant and certified by PMDA as well as overseas regulatory authorities including the FDA and EMA.



## An integrated product development approach for today's challenging formulations

Our development and manufacturing teams understand how challenging it can be to integrate combination with product formulation, especially in support of the efficacy and safety of self-administered biotech drugs.

### To create better delivery solutions for your product our teams leverage our unrivaled expertise in:

- Polymer syringes and molding technology
- Device design for usability
- Polymer coating technology
- Precision needle engineering and fabrication
- Device/formulation compatibility
- Aseptic fill & finish
- Automated packaging and precision kitting
- Sterilization technology

## Offering world-class solutions for parenteral drugs

- Exclusive access to an advanced integrated portfolio of combination parenteral drug delivery technologies
- A device engineering team that specializes in understanding challenges and resolving issues related to matching large and small molecule formulations of varying viscosity to primary container, device, process and patient
- A formulation team experienced in parenteral drug formulation development, technology transfer and regulatory filing
- Sterile aseptic capability with flexible capacities, automation and controls for all phases of clinical development and commercialization
- A strategically located development and manufacturing partner with the regulatory experience to help launch products in markets all over the world faster and more successfully

## Simplify device/formulation complexity

Our approach to combination product manufacturing is tailored specifically to design devices and processes that are friendly to delicate protein formulations, biopharmaceuticals and specialized compounds.

We ensure the quality of your final product by selecting materials that are expected to minimize leachables and low particles, and by reducing human intervention through an aseptic manufacturing line that is consistent from preparation to fill & finish.

## Your premier CDMO partner for Liquid Pharmaceuticals

We help you find your best solution faster with proven approaches to:

- One partner:** Integrated manufacturing from syringe molding, drug preparation, filling, assembly and packaging
- Time to market:** Integration in one supplier allows customers to speed up supplier qualification, validation and communication
- Quality assurance:** From end to end and throughout every step of integrated manufacturing
- Supply chain simplification:** One unique single source for device technology, and drug product development and manufacturing services
- Regulatory compliance:** We've been engineering and manufacturing combination drug products and devices compliantly for decades
- Consulting and engineering support:** Provide total support from the early development stage to development plans, regulatory applications and high-value-added products
- Reducing total cost of ownership:** Less cost of investment for any new molecule customer projects

# 20 years of proven CDMO solutions for parenteral drugs

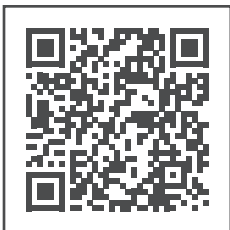
We are a trusted partner, proposing new devices and innovation to pharma using proprietary technology and the experience cultivated with these prefilled products.

Since we began selling ready-to-fill syringes in 1999, our products have become a global standard.

## Let's find your best solution

Innovation and creativity are central to our services. Our comprehensive parenteral delivery product portfolio of injection, infusion, primary packaging, and CDMO solutions offers innovative drug delivery technologies ready for today's most demanding applications.

## Contact us



*Images are for visualization purposes only.*

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