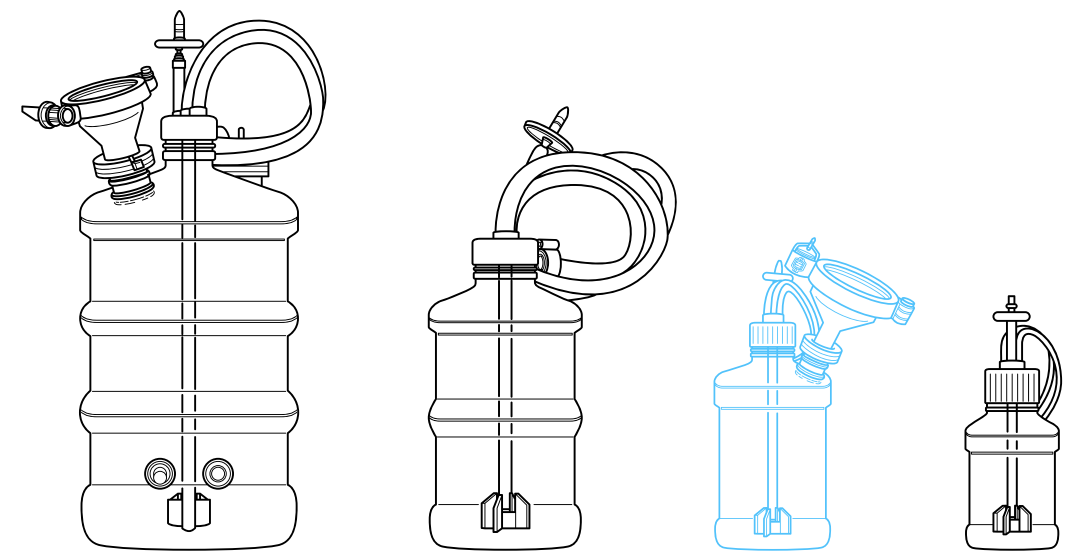




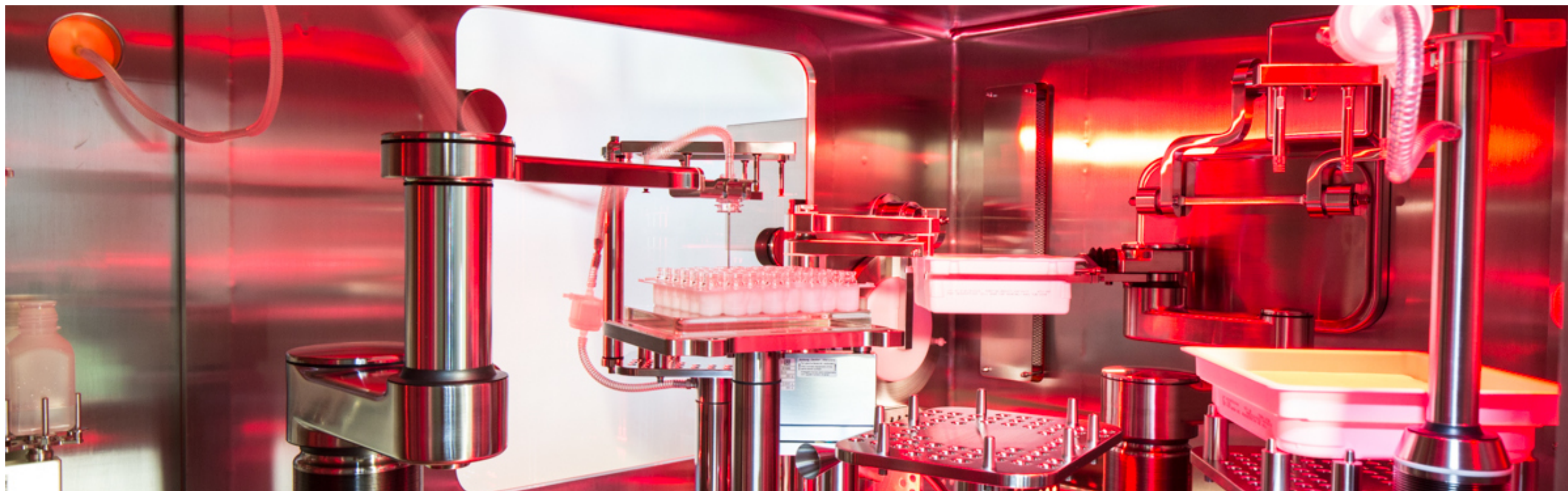
Drug Product Contract Manufacturing Services

GMP Fill & Finish for Injectables



#WeRelease

Introduction



White Raven is a Belgian Contract Development and Manufacturing Organization (CDMO) operating in the pharmaceutical sector.

We focus primarily on small-to-medium batch Fill & Finish services for injectable products. Our newly commissioned filling unit, built around a fully robotic, gloveless isolator, underlines our commitment to leveraging innovation and advanced technology to accelerate drug manufacturing without compromising on safety or quality.

We are based in LégliaPark, a biotech and pharmaceutical hub in Liège, Belgium, providing us with convenient access to European markets, leading research institutions, and an extensive talent pool.

Our team brings decades of experience in pharma manufacturing, project management, engineering, quality control, and regulatory compliance.

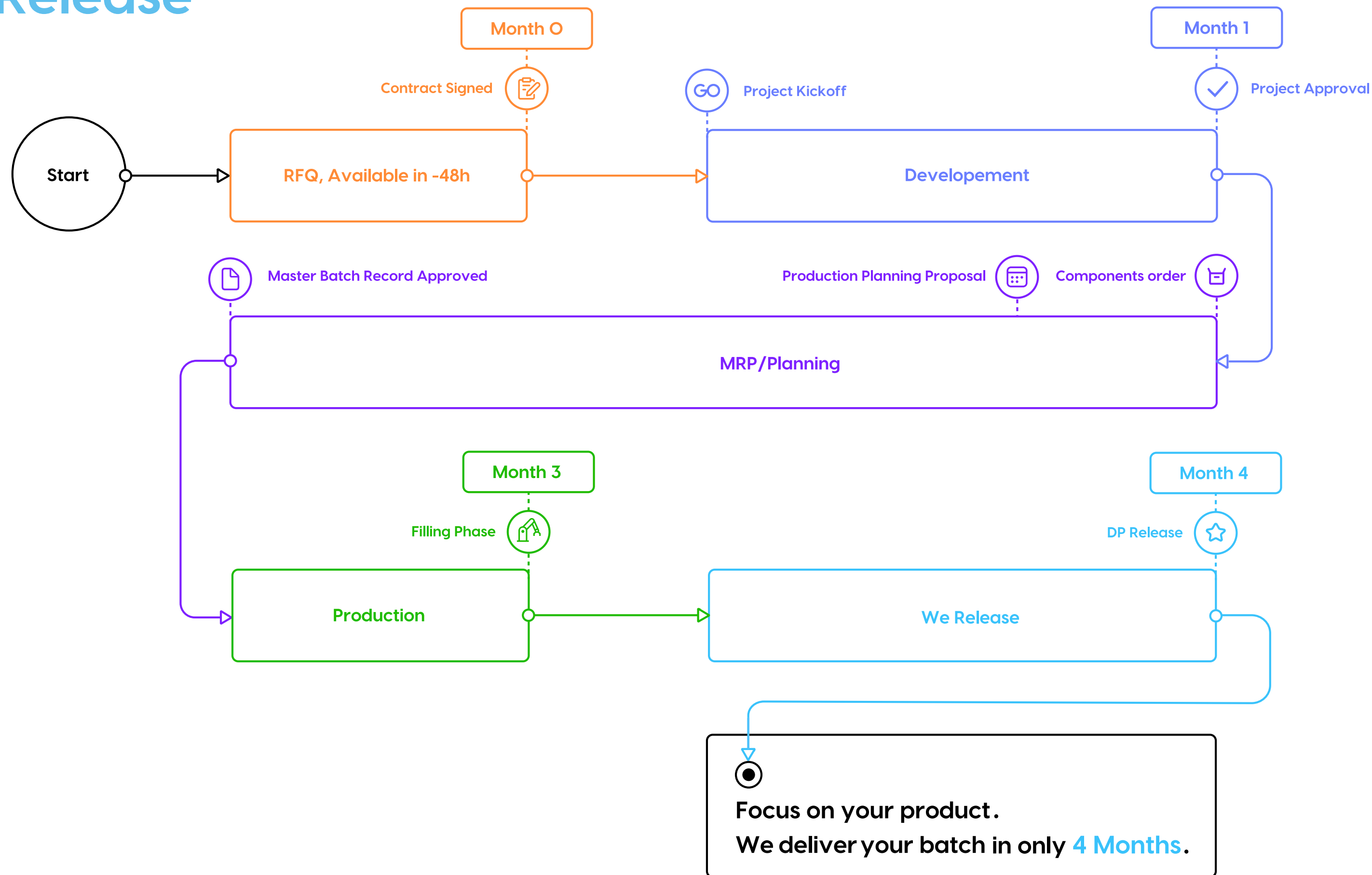
Our drug product manufacturing services have been tailored to the ever-changing pharmaceutical market, from small molecules to ATMPs, we provide a high degree of flexibility towards our client's requirements and timeline constraints.

We focus primarily on small to medium batch Fill & Finish services for injectable products. Our newly commissioned filling unit, built around a fully robotic, gloveless isolator, underlines our commitment to leverage innovation and advanced technology to accelerate drug manufacturing without compromising on safety or quality.

Industries

- Small size batches of commercial products
- Early & Late stage clinical productions
- Pre-clinical productions (toxicity studies)
- Biologics
- Gene therapies
- mRNA
- Potent compounds
- mAbs
- Peptides
- Oligonucleotides
- Small Molecules

From Quotation to Release



Formulation : Bottle Mixer



Key Features

We provide a diverse range of formulation services adapted to small batches, with the capability to work with mixing volumes as low as 50mL, and up to 50L.

Formulation development and production

- Single use approach.
- Sterile or non-sterile mixing.
- No CapEx for our customers.
- Integrated in our IT process reducing human error risk.
- High chemical compatibility - Extensive extractable package and very low particle load.
- Active substance / Placebo / Diluent / Adjuvant.
- Pooling / Dilution.
- Powder (API) dissolution.



[Click Here!
to know more](#)

Specifications & range

- Fully closed single-use system.
- Formulation volume range : 50mL to 50L.
- Sterility Assurance Level 10⁻⁶ (ISO11137)
- Animal Derived Component Free (ADCF)

Benefits

- Agile mixing:**
Match your needs without CapEx investment.
- Single use:**
No contamination or mixing error.
- Low shear forces:**
Low degradation and aggregate formation on your sensitive protein.
High chemical compatibility.
- Low extractables and particles generation.**

Formulation : Isolator



Key Features

High containment unit to perform sensitive weighing or formulation activities.

Formulation development and production

- High containment unit to perform sensitive weighing or formulation activities
- H14 HEPA air filtration.
- H2O2 decontamination system.
- RTP port connection.
- Airlock with dedicated decontamination system.



[Click Here!](#)
to know more

Specifications & range

Integrated hydrogen peroxide bio-decontamination device Isosté H+
Dynamic aeration and a 20-minute bio-decontamination cycle for the rapid airlock.
H14 HEPA filters on air intake and exhaust with 99.995% MPPS efficiency.

Benefits

Superior containment system to protect your product
Flexible isolator to match your sterile/contained weighing and formulation activities.

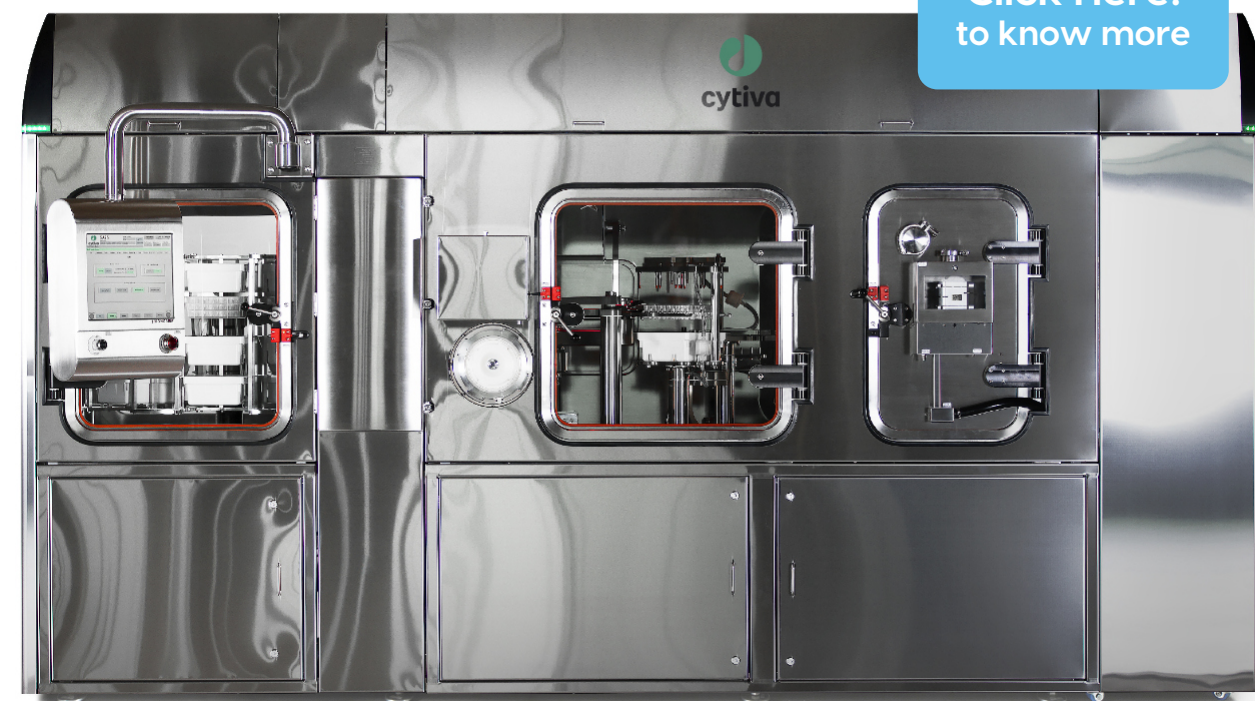
Aseptic Filling



Key Features

- From **100 to 20 000** units per batch.
- **No glove ports, no human** interaction, **no contamination**.
- Fill nested vial, syringe, or cartridge with fill volume from **0.2 to 100mL**.
- Quick changeover between formats.

[Click Here!
to know more](#)



Specifications & range

Container size (all containers sizes available in nested tubs)

Vials: 2R – 100H

Syringes: 0.5 – 20mL

Cartridges 1.5 ml – 20mL

Liquid products.

High efficiency product gazing with N2 or CO2.



Benefits

Robotic gloveless isolator, sterile manufacturing at its finest.

Very low product losses:

Optimized single use assemblies,

Product recovery capability.

Removing risk of environmental contamination & cross contamination.

Able to handle very low batch sizes (particularly interesting for personalized medicine applications)

Visual Inspection

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to know more](#)



Key Features

Tailored Inspection Processes: to meet the unique specifications of each product, including but not limited to particle inspection, container integrity.

Real-Time Quality Control: visual inspection room directly connected to the filling room. Immediate identification and segregation of defects preventing potential contamination or spreading defect.

Benefits

Enhanced Product Safety:

Minimizing the risk of contaminants and defects, ensuring the safety and efficacy of injectables, protecting patient health and your brand reputation.

Regulatory Compliance:

Adhering strictly to GMP guidelines, our manual inspections help maintain compliance.

Customized Support:

We adapt our services to align with your specific product needs and production schedules, offering flexible and responsive support.

Packaging & Labelling

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to know more](#)

Key Features

Precision Handling and Packaging:

Skilled technicians for precise placement and protection of the product integrity.

GMP-Compliant Labeling:

Adherence to Good Manufacturing Practices in every aspect of our labeling process.

Customized Packaging Solutions:

to meet the specific requirements of your product (i.e. sensitivity to light and temperature).

Batch Verification and Documentation:

Traceability and compliance.

Benefits

Compliance and Traceability:

Regulatory compliance and complete traceability.

Reduced Risk of Errors:

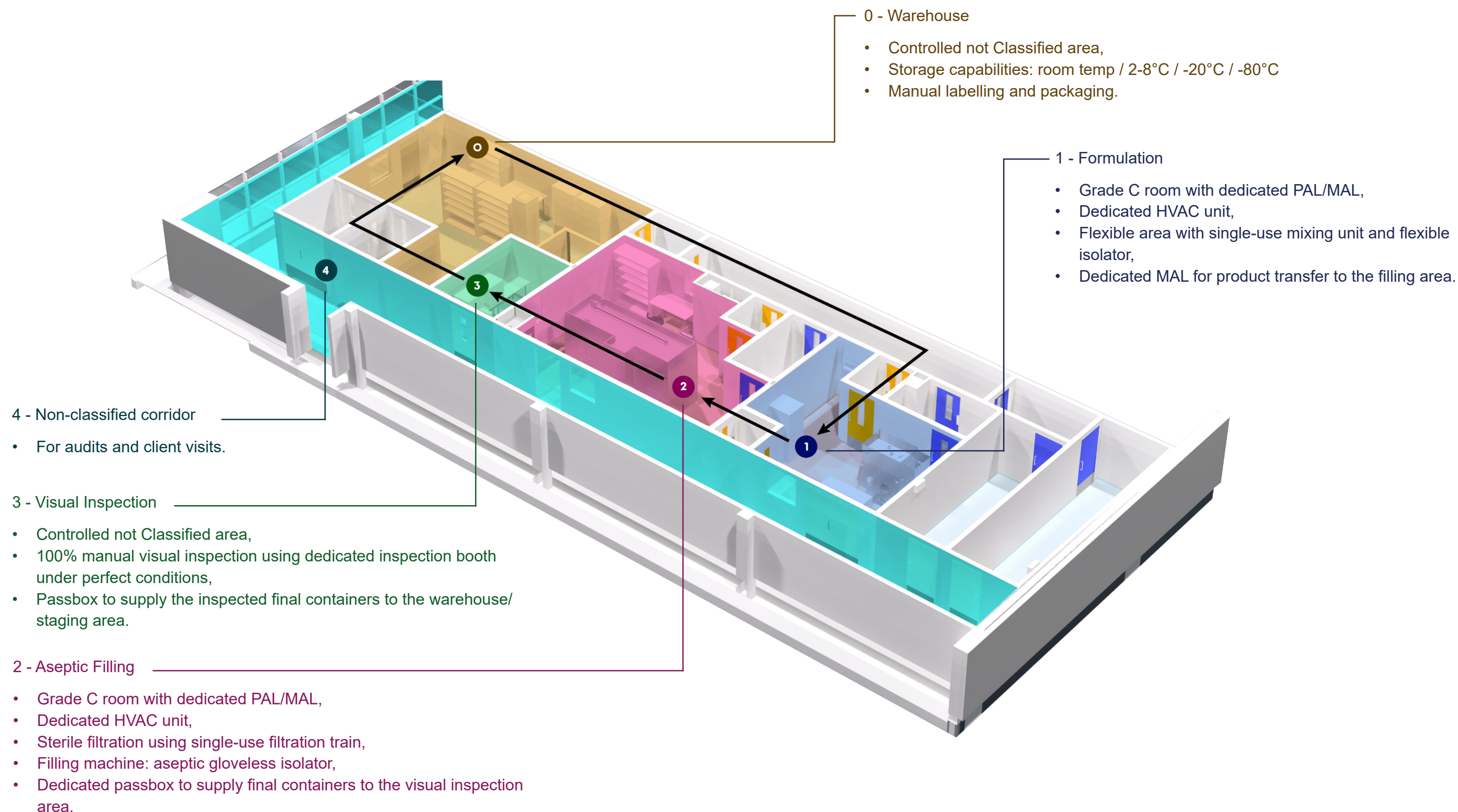
Expert staff to reduce the risk of error.

Flexibility in Production:

Manual processes allow for quick adjustments and customization needed for small batches.

Our Production Facility

[Click Here!
to know more](#)



Why Choose Us



Our Commitments

Commitment to Quality:

We are committed to delivering top-notch products and services, this commitment underscores our unwavering dedication to not only meet but surpass customer expectations.

Commitment towards Scientific Excellence:

We are dedicated to the pursuit of scientific excellence, experimentation, and product development.

Commitment to The Environmental Cause:

We are aware of our environmental impact. Therefore we are committed to minimizing our footprint.

Commitment to Transparency:

We operate in a fully transparent setting allowing our clients and partners.

Commitment to Pioneer Technologies:

We actively seek out technological and scientific advancements, we innovate to develop products and solutions that cater to evolving market demands.

Unmatched Quality & Flexibility

Based on our quality-by-design approach through out the manufacturing operations, we operate solely with single-use consumables from the formulation operations to aseptic filling.

This allows us a high degree of flexibility between projects and batches, while also ensuring reduced risk of cross contaminations.

By working closely with our clients from day 1 we make sure any change is captured well in advance of the planned activities, and deadlines are met in timely manner.

Our robotic gloveless isolator plays a key role in ensuring control of the process and key filling parameters while being fully compliant with the latest regulatory updates.

By putting forward quality and flexibility we can adapt quickly to the ever changing pharmaceutical market and its quality standards.

It's therefore of outmost importance to partner with a suitable fill & finish CDMO such as White Raven.

White Raven is your efficient, flexible, and customer-oriented CDMO partner allowing you to meet your clinical trial manufacturing needs with state-of-the-art technology, fully digital process, and agile management style.

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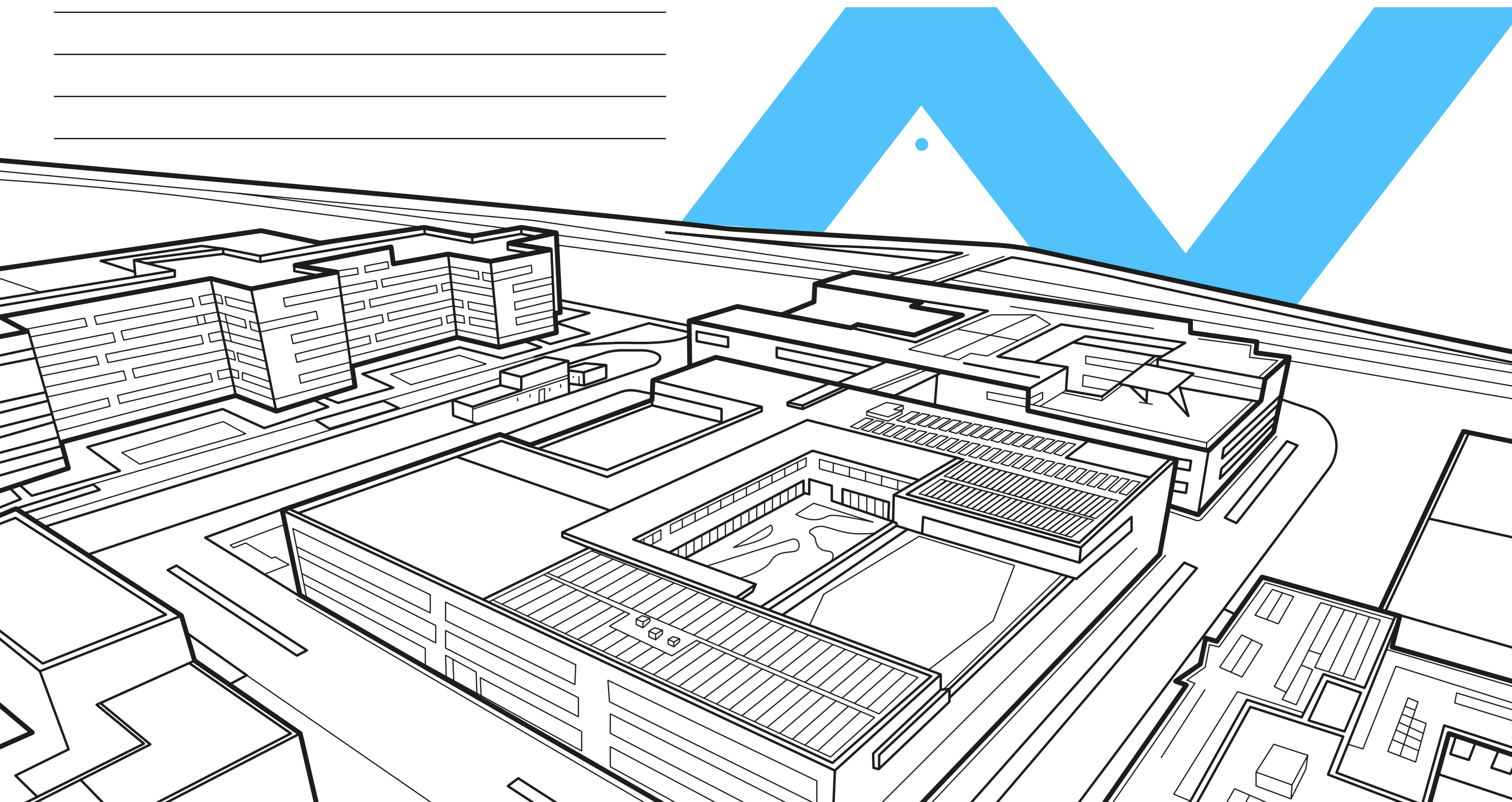
Book a Meeting
Meet our team

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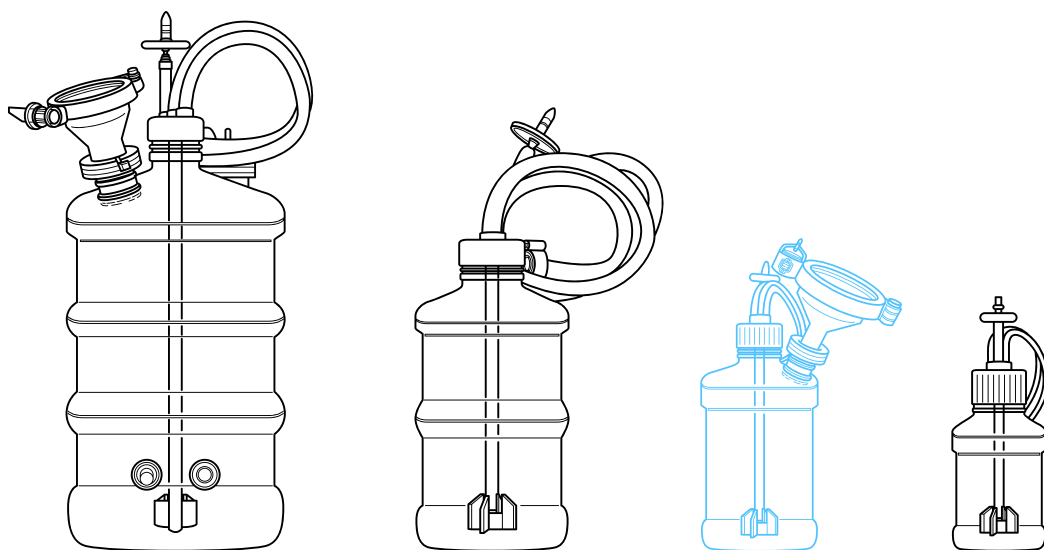
Notes

**Drug Product
Contract Manufacturing Services**

**Robotic Gloveless
GMP Fill & Finish for Sterile Injectables**



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