

Topics for today

DRIVERS FOR REDESIGNING ASEPTIC FILLING

AUTOMATION STRATEGIES AND KEY TECHNOLOGIES

CUSTOMER CASE STUDY: SINGOTA SOLUTIONS



About Vanrx



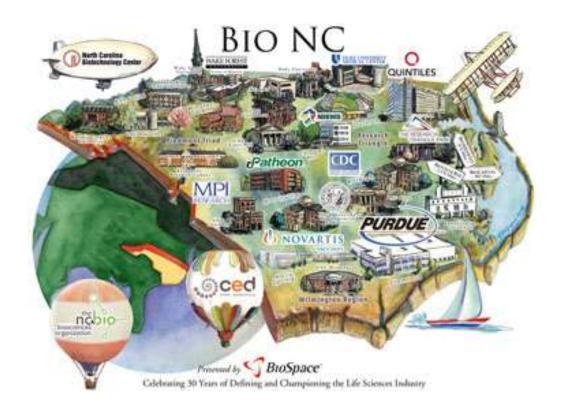
Current Aseptic Filling Challenges

Multiple dosage formats









Our view of RTP biotech

Handful of commercialized companies and a lot of clinical/drug development stage companies.

If commercial, complex small-batch manufacturing of high-value drugs.

If clinical, hitting milestones and clinical efficacy.

HOW DOES AUTOMATION OF ASEPTIC FILLING SUPPORT THE SUCCESS OF EACH TYPE OF ORGANIZATION?

The Workcell Concept





Robotics

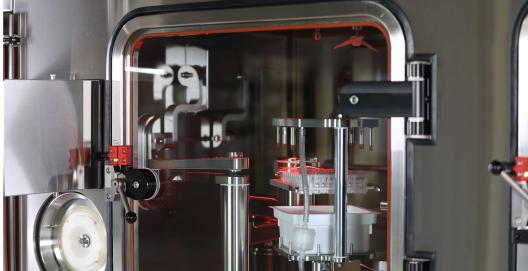
Vanrx's unique design specifically for pharmaceutical filling

Designed for cleaning and lowest possible particle generation

All operating mechanisms outside Grade A space

REPEATABLE PRECISION FAST CHANGEOVER









Gloveless Isolator

The first completely closed gloveless isolator

Place in Grade C/D cleanroom

Lowest possible risk to drug product

Increases sterility assurance

REMOVE HUMANS FROM THE PROCESS ALL COMMON INTERVENTIONS **DESIGNED OUT**

Ready-to-use Containers & Closures

FLEXIBILITY

Filling, lyophilization and closure of containers occurs within the nest.

QUALITY

No glass-to-glass contact and reduced risk of product loss or recall.

STERILITY ASSURANCE

Pre-sterilized and reduced manufacturing complexity.



Vanrx Aseptic Filling Workcells



Microcell Vial Filler

Drug development, clinical trials and personalized medicines.



SA25 Aseptic Filling Workcell

Late clinical trials and commercial manufacturing for vials, syringes and cartridges.



Vanrx Liquid / Lyo Workcell Line

Late clinical trials and commercial manufacturing for vials, syringes and cartridges of both liquid and lyophilized dosages.

Standardization















Focused on Faster

Customer Case Study: Singota Solutions

Background

Business Case

Decision Factors

Equipment Selection

Practical Implications

Current State



