

# GENiSYS<sup>®</sup> R & ASEPTiCell<sup>®</sup>

## GENiSYS R

AST's GENiSYS R is the latest robotic filling and closing innovation, engineered to meet the challenges of processing small batch sterile injectables. The GENiSYS R is designed for ultimate flexibility and allows for quick change over between vial, syringe and cartridge formats. With an innovative in-process weigh check system, the GENiSYS R ensures no valuable product is wasted during pump calibration or filling, and can perform up to 100% in-process fill volume measurement.



## ASEPTiCell

ASEPTiCell is an advanced aseptic processing system that fully automates cGMP processing of sterile injectable products using innovative robotic technology. The ASEPTiCell's unrivaled flexibility allows it to adapt to a variety of process requirements using recipe driven robots and simple change parts. Advanced robotics allow for hands-off operation to ensure the sterility of the end product.

**AST's innovative robotic systems  
provide advanced solutions  
for small-batch drug production.**



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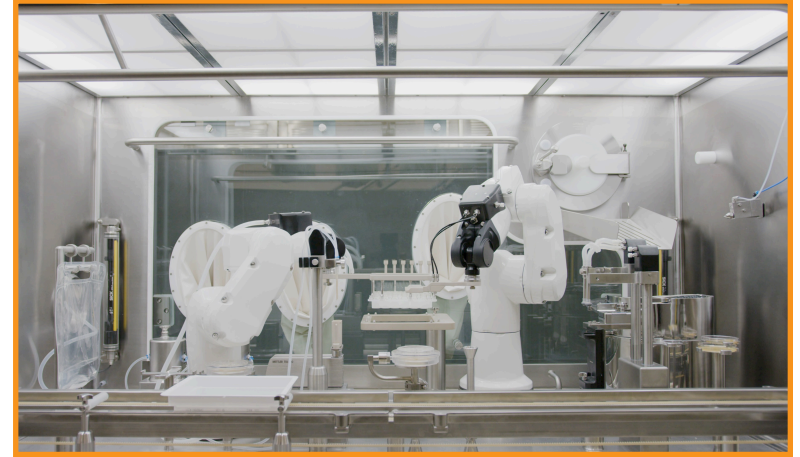


AST's robotic systems are fully integrated with barrier technologies to fully enclose and tightly control the aseptic environment for sterile drug processing:

- Restricted Access Barrier Systems (RABS)
- Aseptic isolators

The advanced features of AST's GENiSYS R and ASEPTiCell make it an ideal system for a variety of small-batch applications, including:

- Small to medium batch production of commercial and clinical materials
- Biologics, proteins and potent products
- Multi-product aseptic filling facilities
- Pilot-scale cGMP manufacturing
- Personalized medicine
- Cell and gene therapies



The GENiSYS R fill / close module

**AST's robotic systems** leverage standard process modules that allow your machine to be configured to your process specification without the time and cost associated with customization. The robotic technology found in the GENiSYS R and ASEPTiCell offers many advantages:

- Recipe driven for simple and rapid change over between batches
- Highly accurate and repeatable movements
- Flexibility to accommodate different containers and process requirements
- Human interaction kept to an absolute minimum

	GENiSYS R	ASEPTiCell
Containers	Pre-sterilized vials, syringes and cartridges	
Production Rate	Up to 20 upm	Up to 100 upm
Module Options	<ul style="list-style-type: none"> <li>• Bag Opening: Semi-Automatic Bag Opening (SABO) or Automatic Bag Opening (ABO)</li> <li>• Tub Opening: Manual Tub Opening (MTO) or Automatic Tub Opening (ATO)</li> <li>• Lyophilizer prep / integration</li> <li>• Vial Sealing Module (VSM)</li> </ul>	
Available Options	<ul style="list-style-type: none"> <li>• In-process fill weight verification (IPC) and automated dynamic pump calibration</li> <li>• Viable, non-viable and total particulate monitoring (EM)</li> <li>• Electronic Batch Report (EBR) system</li> <li>• Pre- and post-fill container gas purge</li> </ul>	
Materials of Construction	Pharmaceutical grade stainless steel, plastics, and elastomers	
Operator Interface	ASTView on a 21" color touchscreen	



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