



Genesis Packaging Technologies



The Leader in Seal Integrity

Genesis Packaging Technologies is a worldwide leader in the science and technology of **Parenteral Vial Sealing** and **Residual Seal Force** testing. We provide advanced vial sealing equipment for the packaging of critical injectable pharmaceutical products. Offering our customers the tools and knowledge to consistently achieve **Container Closure Integrity** remains our priority.

We provide advanced vial sealing equipment for the packaging of critical injectable pharmaceutical products. Genesis designs, develops and builds vial cappers with innovative technologies that meet the technical challenges of parenteral pharmaceutical packaging, assuring seal integrity and in compliance with advancing regulatory requirements for aseptic processing and container closure integrity. Offering our customers the tools and knowledge to consistently achieve container closure integrity remains our priority. To that end, Genesis also manufactures a specialized instrument to test a key attribute of the sealed parenteral vial: Residual Seal Force. Not only do we provide the equipment to generate residual seal force data but Genesis provides the knowledge on just how to use that data to help create process parameters that consistently deliver integral seals.

Timeline

The company has manufactured serum vial sealing equipment since 1946.



1946

The West Company Machinery Systems Division is founded and begins manufacturing serum vial sealing equipment.



1996

The West Company spins off the Machinery Division to private investors, it is named Genesis Machinery Products.



2006

Genesis Machinery Products changes it's name to Genesis Packaging Technologies to more reflect it's growing portfolio.



2017

Genesis Packaging Technologies is acquired by RV Industries, Inc., of Honey Brook, PA becoming a Division of RV Industries.

VERA

Residual Seal Force Tester



The Genesis Residual Seal Force Tester evaluates seal tightness by measuring the **Residual Seal Force** in the stopper/seal combination of a parenteral package created as a result of the vial sealing process.

The Genesis Residual Seal Force Tester measures residual seal forces on parenteral vials sealed with stoppers, lined seals and aluminum caps. The aluminum caps can be plain aluminum, or aluminum with plastic buttons, though it is highly recommended that the plastic buttons be removed prior to testing. Other cap materials and styles may be accommodated as specialty applications. Specialty applications should be submitted to Genesis engineering for evaluation. Vials with diameters of 8mm to 88mm, and heights (including vial, stopper and cap) up to 6.47 inches are accommodated. A wide variety of cap styles and sizes can be accommodated with specific cap anvils.

INTEGRA

Laboratory Vial Crimper



The Integra Laboratory Crimper is a small vial crimper that is ideal for development, pre-clinical, clinical, pilot and compounding pharmacy operations. Available in four configurations the Integra can meet your small batch size needs assuring the best possible seal integrity.

Seal integrity is achieved by adequately compressing the elastomeric closure against the sealing surface of the vial and maintaining that compression with a crimped aluminum ferrule. The amount of elastomeric compression is determined by the force applied during the crimping process. The Integra controls the force being applied to the elastomeric closure during this process which in turn, reduces variability of stopper compression, producing more consistent seals.

INTEGRA

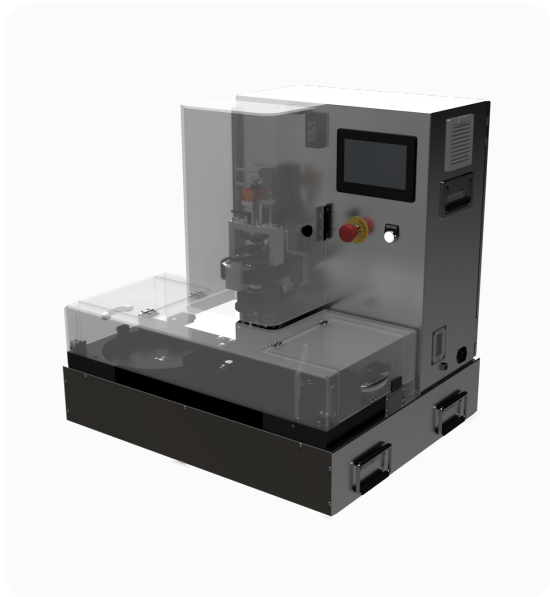
Laboratory Vial Crimper Units



Compact Starwheel Unit



Single Vial Unit



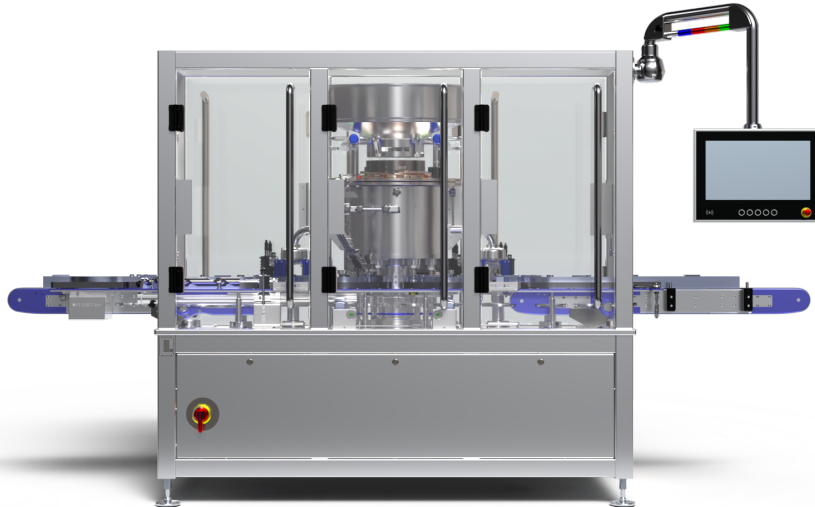
Dual Turntable Unit



Standard Starwheel Unit

APTUS

Modular Vial Crimping System

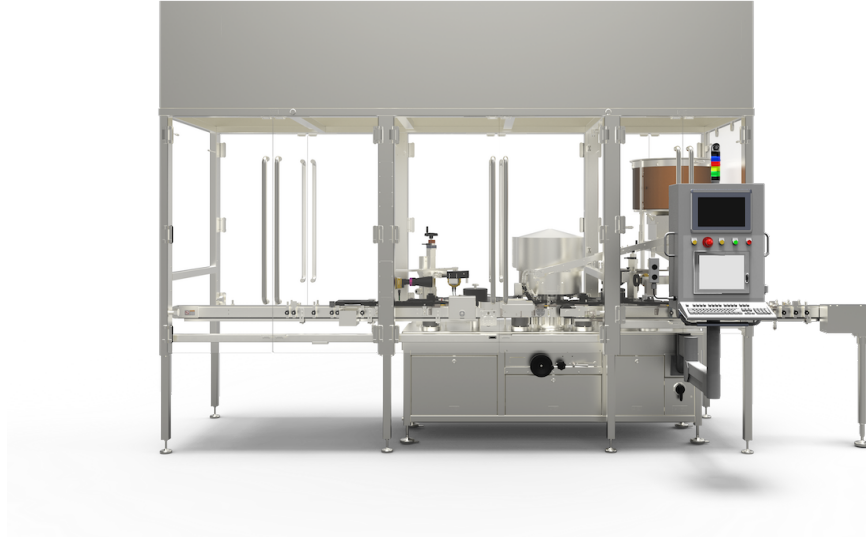


The Aptus is a fully automated, servo driven, constant motion, rotary crimper. Ideal for mid to large production runs of time sensitive products such as lyophilized vaccines the Genesis Aptus is capable of sealing both large and small parenteral vials at up to 300 vials per minute.

The Aptus was designed to satisfy the mid to large production crimping process. The system offers state-of-the-art controls and capping parameter settings. It is FULLY modular allowing small to large scale options to be easily implemented for all customer requirements. All functions are completed while the vial is under complete control in the stars and turrets of the Aptus. The "system" functionally consists of two additional stars immediately following the standard capper discharge star, and a platform on which marking and reading equipment can be mounted on the capper.

WESTCAPPER

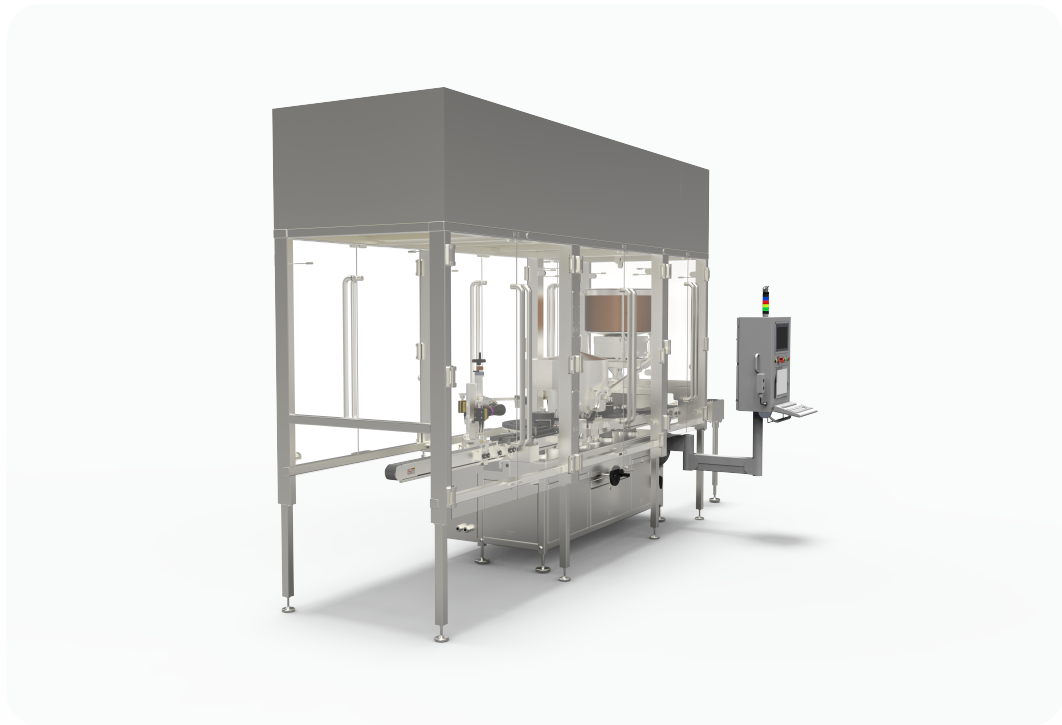
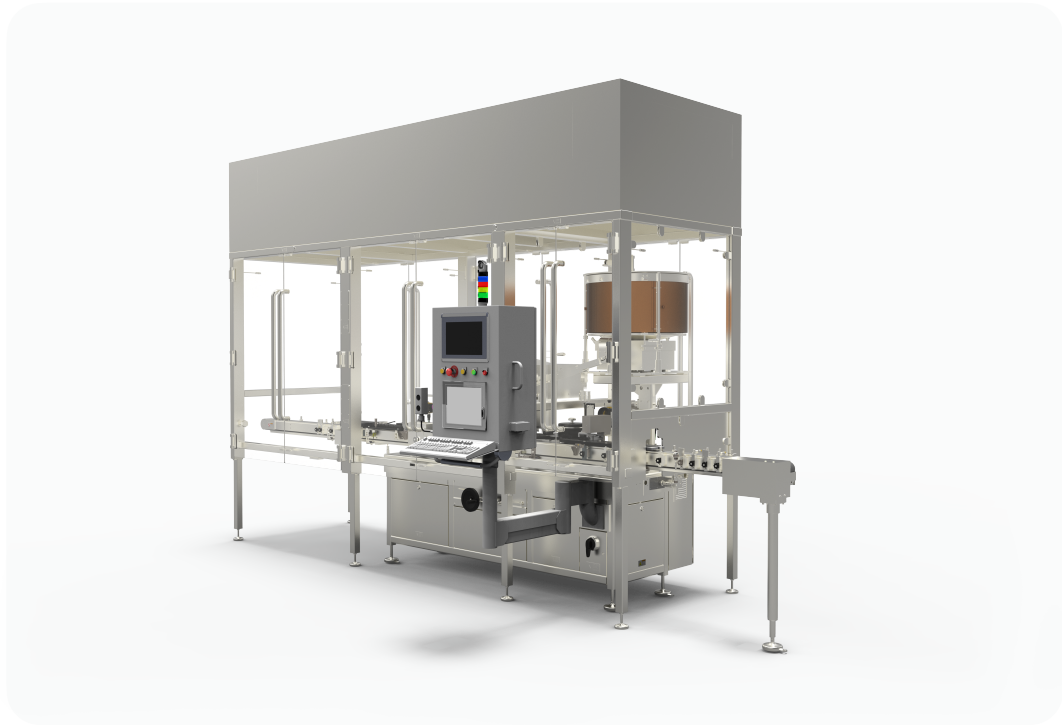
The RW Westcapper



The RW Westcapper® is a fully automated, constant motion, rotary crimper. Ideal for large production runs of time sensitive products such as lyophilized vaccines the Genesis RW Westcapper® is capable of sealing parenteral vials at up to 750 vials per minute.

A stoppered vial is a prevalent parenteral drug container closure system. The system however should not be considered integral until the rubber stopper is crimped firmly in place with sufficient compression against the vial, assuring all potential leakage is cut off at the seal interface. It is well understood that seal quality is critically important to maintaining sterility and stability of the drug product.

The RW Westcapper





Consulting

Genesis brings to the table much more than the time-honored Westcapper® sealing technology. We bring a **complete understanding** of the parenteral package itself. Our technical experts maintain long-standing relationships with parenteral package component manufacturers. We know the vial package. Our expertise in the **science of sealing** is deep-rooted and so is our commitment to seal integrity.

Parenteral pharmaceutical packaging is the core of our work. It's scope includes the traditional, vials with elastomeric stoppers, cartridges and pre-filled syringe systems, and in developing novel and innovative components, and drug delivery systems including combination products. We have extensive experience with the customary materials of glass, rubber and metals, but also with the advanced plastics and laminate materials being promoted today. Genesis provides technical consultation and training in all areas of parenteral packaging including the selection and utilization container/closure components including: materials of construction, packaging development, risk assessments, supplier qualification, container/closure integrity, regulatory compliance, and investigations.



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