

# ***RVF Series***

Rotary Volumetric Filling Systems



## ***Key Features:***

- Suitable for filling a wide range of liquids from light oils to heavy viscous semi-solids at speeds up to 450+ CPM
- Touch screen control packaging includes job memory, tooling memory, and management lockout
- Variable speed “Top Drive” system keeps key systems away from wetted areas for easy access and lasting performance
- Can accommodate glass, plastic, and metal containers
- Synchronized “pump to turret” design for smooth filling of light or thick products at a high rate of production
- Each machine incorporates safety interlocks, polycarbonate guarding, and other integrated safety features
- All systems include self aligning tool less change parts for quick and trouble-free changeover
- Easy operation and maintenance

## ***Options:***

- Specialty pump upgrades for unique product types
- Seals and hose upgrades for specialty items
- Sanitary conveyor systems

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**ACCUTEK**  
Packaging Equipment Companies, Inc.

# ***RVF Series***

## *Rotary Volumetric Filling Systems*

**Biner Ellison** high speed **Rotary Volumetric Fillers (RVF Series)** offer accurate, flexible, and reliable filling of medium to high viscosity liquids such as creams, gels, grease, butters, and many more products from a variety of industries. RVF Series machines utilize a “time and flow” metering system accurately dispense the same amount of product to each container regardless of any inconsistencies in its size or shape. This filling method also helps provide a bottom line cost savings by ensuring that there is little product wasted on overfill. They are also well suited for filling wide rimmed or thin walled bottles because no downward pressure is applied to the container.

The **Biner Ellison RVF Series Volumetric Rotary Filling** machines unique design positions the power transmission for the main turret, infeed and outfeed star wheels, and timing screw on top of the machine for easy maintenance. Placing these working parts away from potential wet areas help maintain precise variable speed control, simplify cleaning, and prolong the production life of the equipment. RVF systems can adapt to accommodate a wide range of container shapes and sizes. There are multiple models available, with filling speeds up to 450 CPM, to suit your specific packaging requirements.



### ***Example products the RVF Series can fill:***

Water, Fruit Juices & Extracts, Liquid Tea, Liquid Coffee, Food Coloring, Vegetable Oil, Milk, Wine, Tomato juice, Some Salad Dressings, Perfumes, Essential Oils, Ink, Thin Liquid Soap, Shampoo's, Light Makeup remover, Motor Oil, Urethane, Silicone, Urine, Alcohol, and many more

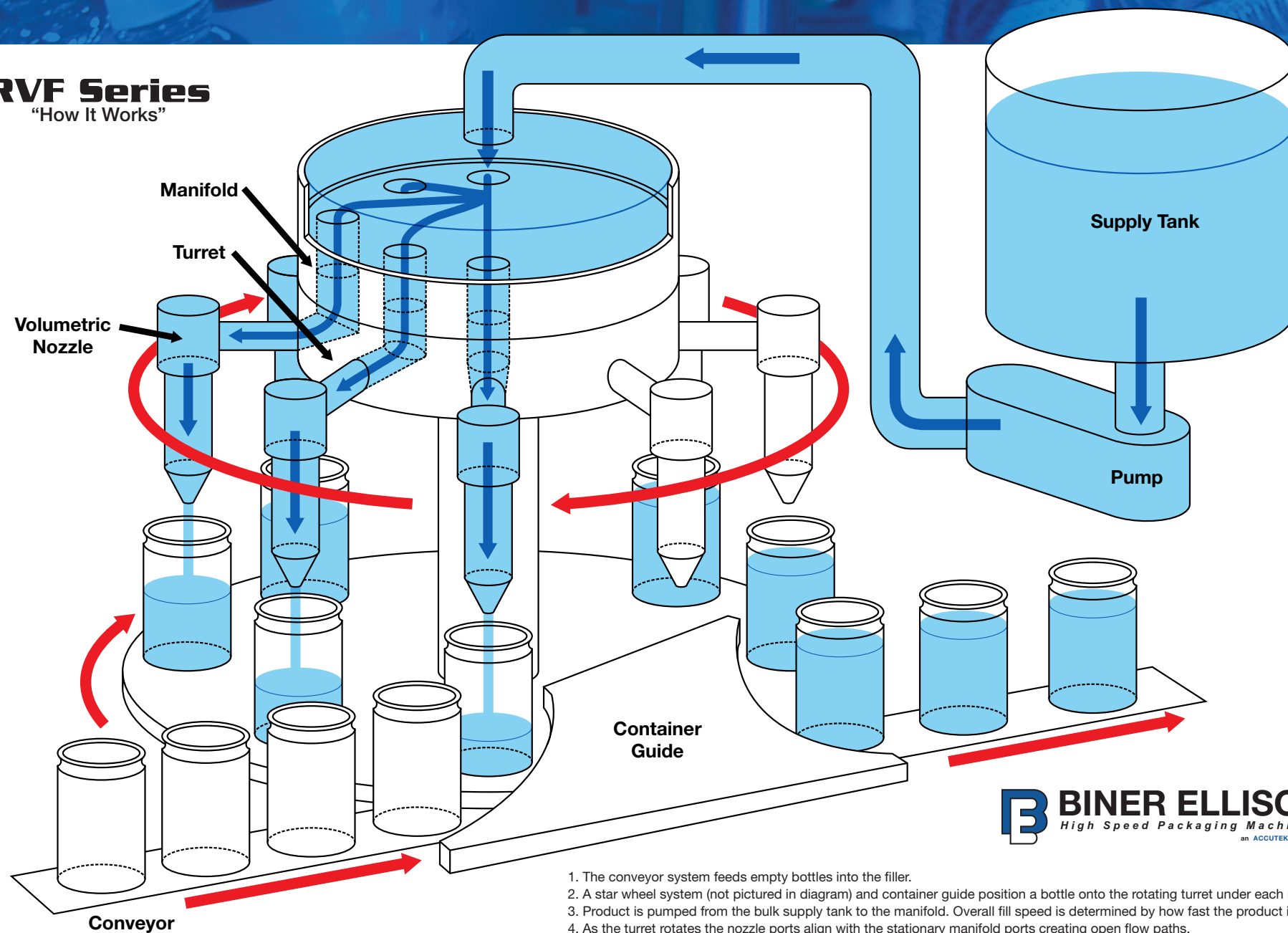


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*High Speed Packaging Machinery*  
an ACCUTEK COMPANY



# RVF Series

"How It Works"



1. The conveyor system feeds empty bottles into the filler.
2. A star wheel system (not pictured in diagram) and container guide position a bottle onto the rotating turret under each nozzle.
3. Product is pumped from the bulk supply tank to the manifold. Overall fill speed is determined by how fast the product is pumped.
4. As the turret rotates the nozzle ports align with the stationary manifold ports creating open flow paths.
5. Containers are filled as they rotate around the turret.
6. Full containers are returned to the conveyor line via a second star wheel system (not pictured).

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## ***RVF40 Filler***

*Rotary Volumetric Filler (40" Turret)*



### **Unit Specifications**

<b>Dimensions:</b>	L 54" x W 61" x H 89" (137 cm x 155 cm x 226 cm)
<b>Weight:</b>	~2200 lbs. (1000 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 20 AMP, 3 Phase
<b>Air Requirements:</b>	87 PSI @ 2CFM

### **Output**

<b>Filling Speed:</b>	Up to 240 CPM <sup>1</sup>
<b>Viscosity Range:</b>	1-18,000 cp

### **Specialty Products**

<b>Foamy Product:</b>	Not Recommended
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates Product:</b>	YES <sup>2</sup>

<sup>1</sup> Fill speed is dependant on model, operator, container, and product characteristics. Additional options to accommodate specific applications or speed requirements extra.  
<sup>2</sup> Optional parts of programming may be needed to match the specialty product specifications.

## ***RVF52 Filler***

*Rotary Volumetric Filler (52" Turret)*



### **Unit Specifications**

<b>Dimensions:</b>	L 69" x W 75" x H 89" (137 cm x 155 cm x 226 cm)
<b>Weight:</b>	~3100 lbs. (1400 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 20 AMP, 3 Phase
<b>Air Requirements:</b>	87 PSI @ 2CFM

### **Output**

<b>Filling Speed:</b>	Up to 320 CPM <sup>1</sup>
<b>Viscosity Range:</b>	1-18,000 cp

### **Specialty Products**

<b>Foamy Product:</b>	Not Recommended
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates Product:</b>	YES <sup>2</sup>

## ***RVF64 Filler***

*Rotary Volumetric Filler (64" Turret)*



### **Unit Specifications**

<b>Dimensions:</b>	L 86" x W 92" x H 89" (137 cm x 155 cm x 226 cm)
<b>Weight:</b>	~5200 lbs. (2360 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 20 AMP, 3 Phase
<b>Air Requirements:</b>	87 PSI @ 2CFM

### **Output**

<b>Filling Speed:</b>	Up to 450+ CPM <sup>1</sup>
<b>Viscosity Range:</b>	1-18,000 cp

### **Specialty Products**

<b>Foamy Product:</b>	Not Recommended
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates Product:</b>	YES <sup>2</sup>

<sup>1</sup> Fill speed is dependant on model, operator, container, and product characteristics. Additional options to accommodate specific applications or speed requirements extra.  
<sup>2</sup> Optional parts of programming may be needed to match the specialty product specifications.

## ***RC Series Cappers***

*Rotary Chuck Capping System*



The **Biner Ellison RC Series Cappers** are versatile rotary capping systems design to complement high speed rotary bottling equipment. These flexible rotary cappers continuously sort, apply, and torque caps to a variety of different container sizes and shapes.

Contact a Biner Ellison Representative for full details on our other turn key capping and bottling systems. 1-800-733-8162