

# APD Series

Automatic Positive Displacement Filling Machines

## Key Features:

- Complete sanitary stainless construction with leveling feet
- Four (4) to twelve (12) fill nozzles
- Sanitary stainless steel manifold with quick clean connection.
- Stainless steel valve for product flow control to buffer tank
- Sanitary stainless steel buffer tank
- Reinforced food grade Tubing
- Sanitary stainless steel gear pump with ryton gears
- Star wheel Indexing
- Filling station verification and counter
- Batch counter with lockout feature
- Save up to 30 different product setups
- Individual height adjustment of fill heads
- 10' Stainless steel 4.5" wide variable speed conveyor

## Options:

- Air cylinder or timing screw indexing
- Stainless steel drip collection Tray
- Container back-up detection
- Motorized height adjustment (For fill heads)
- Container neck orientator
- Various conveyor options
- Bottom Close Nozzles
- Casters



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**ACCUTEK**  
Packaging Equipment Companies, Inc.

# APD Series

## Automatic Positive Displacement Filling Machines

KISS Automatic Positive Displacement (APD) Fillers have been specifically designed and built to handle both the thinnest and most viscous liquid products on the market. Advanced PLC controls in combination with color touch screen displays allow operators of the APD machines to accurately control product flow and speed to each individual filling head resulting in incredibly accurate fills. The APD fillers are specially programmed with an upsurge fill cycle which provides the additional benefit of reducing splash and delivering precise fills for viscous products.

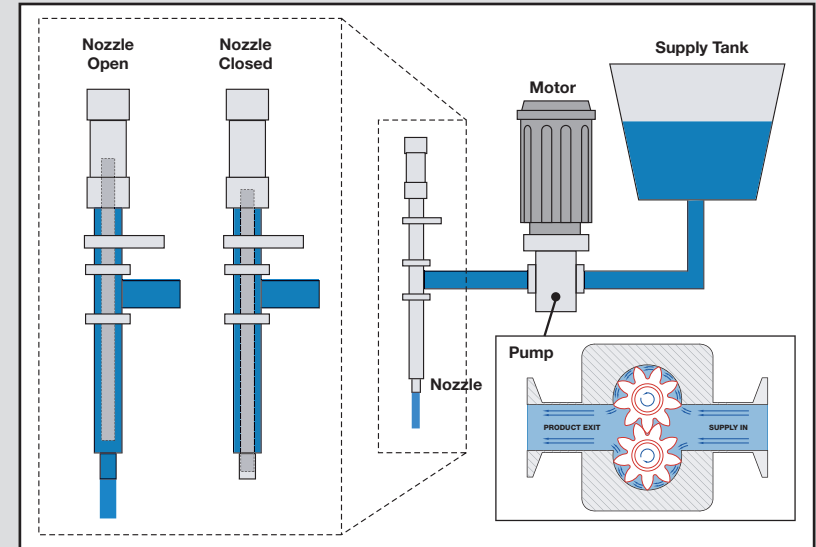


APD Fillers not only specialize in filling viscous liquids but they are able to fill those products in larger volumes at higher speeds than piston filler machines. This is due to the fact that they can deliver a continuous flow of product and are not limited on how much a single piston dose size. KISS APD fillers include 4gpm pump heads, (10gpm optional). The KISS APD Filling machines are a versatile investment accommodating a wide range of container sizes, fill volumes, and product types making it perfect for almost any application.

### Recommended products this machine can fill:

Water, Fruit Juices & Extracts, Liquid Tea, Liquid Coffee, Food Coloring, Vegetable Oil, Milk, 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

1 Fill speed is dependent on machine model, operator, container dimensions, and product characteristics.  
2 Optional parts or programming may be needed to match the specialty product specifications.



PD fillers measure and deliver the product into the container by utilizing a PD pump head. The standard types of pump heads used are Gear Pump Heads and Flexible Impeller Pump Heads. A Pneumatic Clutch couples the Drive Motor to the Pump Head. A high-speed counter provides feedback to the PLC by counting fractions of revolutions of the motor rotation.

With Increased motor control through superior electronics and technology, the pump motor can be programmed to change speeds throughout the fill. The pump motor can be programmed to rotate slower in the initial portion of the fill to eliminate splashing and excessive foaming, speed up during the majority of the fill cycle and then slow again at the end of the fill so the container can be filled close the neck and capacity of the container without splashing, foaming, or overflowing.

If you would like to learn more about positive displacement filling principals [click here to visit the Accutek web site.](#)



## APD-6

Automatic Six Head Positive Displacement Filler



### Unit Specifications

<b>Dimensions:</b>	120" x 48" x 96" (304.8 cm x 121.9 cm x 243.8 cm)
<b>Weight:</b>	~1600 lbs. (725.75 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 3 Phase, 40 Amp
<b>Air Requirements:</b>	120PSI @ 6-12 cfm

### Output

<b>Filling Speed:</b>	Up to 60 CPM <sup>1</sup>
<b>Viscosity Range:</b>	18,000 cps (Centipoise)

### Speciality Products

<b>Foamy Product:</b>	YES <sup>2</sup>
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates:</b>	YES <sup>2</sup>



<sup>1</sup> Fill speed is dependent on several things: model, operator, container dimensions, and product characteristics.  
<sup>2</sup> Optional parts or programming may be needed to match the specialty product specifications.

## APD-8

Automatic Eight Head Positive Displacement Filler



### Unit Specifications

<b>Dimensions:</b>	120" x 48" x 96" (304.8 cm x 121.9 cm x 243.8 cm)
<b>Weight:</b>	~1600 lbs. (725.75 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 3 Phase, 40 Amp
<b>Air Requirements:</b>	120PSI @ 6-12 cfm

### Output

<b>Filling Speed:</b>	Up to 80 CPM <sup>1</sup>
<b>Viscosity Range:</b>	18,000 cps (Centipoise)

### Speciality Products

<b>Foamy Product:</b>	YES <sup>2</sup>
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates:</b>	YES <sup>2</sup>

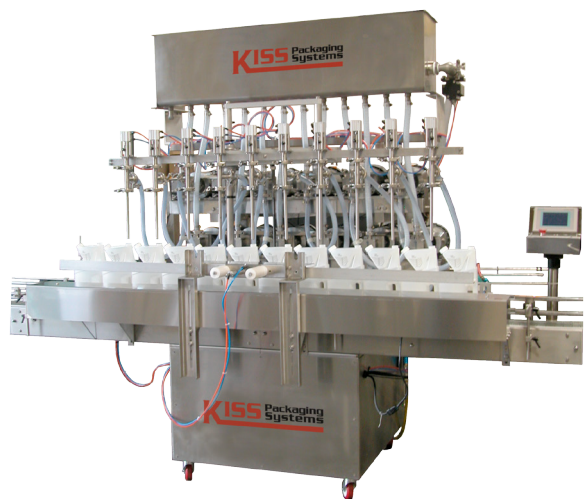


<sup>1</sup> Fill speed is dependent on machine model, operator, container dimensions, and product characteristics.  
<sup>2</sup> Optional parts or programming may be needed to match the specialty product specifications.



## APD-10

Automatic Ten Head Positive Displacement Filler



### Unit Specifications

<b>Dimensions:</b>	120" x 48" x 96" (304.8 cm x 121.9 cm x 243.8 cm)
<b>Weight:</b>	~1800 lbs. (816 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 3 Phase, 40 Amp
<b>Air Requirements:</b>	120PSI @ 6-12 cfm

### Output

<b>Filling Speed:</b>	Up to 100 CPM <sup>1</sup>
<b>Viscosity Range:</b>	18,000 cps (Centipoise)

### Speciality Products

<b>Foamy Product:</b>	YES <sup>2</sup>
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates:</b>	YES <sup>2</sup>



<sup>1</sup> Fill speed is dependent on machine model, operator, container dimensions, and product characteristics.  
<sup>2</sup> Optional parts or programming may be needed to match the speciality product specifications.

## APD-12

Automatic Twelve Head Positive Displacement Filler



### Unit Specifications

<b>Dimensions:</b>	120" x 48" x 96" (304.8 cm x 121.9 cm x 243.8 cm)
<b>Weight:</b>	~1800 lbs. (816 kg)
<b>Electrical Requirements:</b>	220/240 VAC, 3 Phase, 40 Amp
<b>Air Requirements:</b>	120PSI @ 6-12 cfm

### Output

<b>Filling Speed:</b>	Up to 120 CPM <sup>1</sup>
<b>Viscosity Range:</b>	18,000 cps (Centipoise)

### Speciality Products

<b>Foamy Product:</b>	YES <sup>2</sup>
<b>Corrosive Product:</b>	YES <sup>2</sup>
<b>Heated Product:</b>	YES <sup>2</sup>
<b>Particulates:</b>	YES <sup>2</sup>



<sup>1</sup> Fill speed is dependent on machine model, operator, container dimensions, and product characteristics.  
<sup>2</sup> Optional parts or programming may be needed to match the speciality product specifications.