

**PAUL O. ABBÉ** Since 1911 <sup>TM</sup>

*A Division of Aaron Engineered Process Equipment, Inc.*

## *Engineered Solutions for your Process Equipment Requirements*



*Vacuum Drying* • *Mixing and Blending* • *Size Reduction*

## Vacuum Drying

Paul O. Abbé offers wide ranges of tumble vacuum dryers, rotary vacuum dryers, and ribbon vacuum dryers—all with a variety of useful options. This broad product line combined with our ability to custom engineer complete functional systems are the reasons why so many companies have come to depend on Paul O. Abbé for nearly a century.

Vacuum Dryers are suited for a variety of drying processes; from low temperature products such as pharmaceuticals, through medium temperature processes, up to high temperature applications such as crystallization of polymers. Paul O. Abbé can engineer vacuum drying equipment for even the most challenging process requirements.

Vacuum drying is especially effective for heat sensitive materials and allows for closed system benefits where solvent recovery is required. Paul O. Abbé has custom-designed vacuum drying solutions for more than 50 years...to the same exacting quality as our "Standard" units. Complete systems can be produced with a variety of options tailored to your process.

*Available Options include Sanitary Construction and ASME as required.*

### Rota Cone



- Rugged construction, easy to clean, gentle to materials
- Engineered to your requirements
- T304, T316, Hastelloy
- Complete Process Controls

### Horizontal Ribbon



- When flow characteristics require agitation
- Ribbon or paddle
- Single or double shaft
- Heavy Duty Construction

### Rotary Cylindrical



- Extra heated surfaces shorten cycle times
- Available with heated shaft and paddles
- Oversized vacuum outlet evacuates vapor faster

*Ask the Experts to engineer Heat, Vacuum and Solvent Recovery Systems for your Total Vacuum Drying needs.*

Engineered



For You  
Engineered

Power

Pell

Flak

Pas

Chem

Pharmac

Agricultural

Catal

Foods

Flavo

Nutraceut

Polym

Res

Powdered

Ceram

Explosives &

Mine



# The Paul O. Abbé Ball and Pebble Mills

The Paul O. Abbé **Ball Mill** is used for grinding and/or dispersing a wide variety of materials including an array of **metals, ceramics, minerals, paints, coatings** and other **specialty applications**.

Mills run from 2 feet to 10 feet diameter and can be jacketed for cooling or heating. The rugged Paul O. Abbé designs result in simple operation, low maintenance and consistent results. Units come in a variety of drive arrangements for either wet or dry milling.

Just as important, Paul O. Abbé knows how to work with you to optimize your milling process.

Available in Steel, Alumina Brick, Porcelain, Rubber-Lined, Urethane-lined and Burrstone.



## Jar Rolling Mills



The new **Modular Jar Rolling Mill** features a rugged and reliable design that will meet your present needs and can grow to meet your future capacity as your business expands. Simply add rollers and/or tiers as you need them. With our easy-to-install expansion kits, you can simply add additional tiers with two wrenches. The new **Jar Rolling Mills** are available with 36", 48" and 60" long rollers. Variable speed drive and controls included.



**Standard 2" x 24" Jar Rolling Mill** with variable speed and tach. Wired and ready to plug into 110 V outlet in stock. Larger shafts and bearings are utilized in the Paul O. Abbé 2 x 24 allowing for greater load capacities with no flexing of the rollers. Compare to others!

## Milling Jars and Media

Paul O. Abbé carries a variety of **milling jars in stock**. Call the experts to find out which is best for your process.

### Abbethane



Three sizes from  
0.25 gal. to 3.0 gal.

### Porcelain



Five sizes from  
1 qt. to 3.9 gal.

### Steel



Six sizes from  
0.10 gal. to 5.0 gal.



One Piece Ceramic Jar Mills  
up to 300 liters



Paul O. Abbé has a wide range of media types to meet your process requirements.

**Ball Mill Industry Leader since 1911**



**Engineered Solutions For Your Process Equipment Requirements**

Welcome to the home of Paul O. Abbé, industry leader in manufacturing custom engineered and standard process equipment since 1911.

Paul O. Abbé is a supplier you can count on as your Partner. We offer a variety of Vacuum Dryers and Vacuum Drying Systems that are tailored to meet your needs. Whether sanitary, rugged or high temperature operation--whatever your needs--we understand. If you're Blending or Mixing powders, solids or paste, we will select the right equipment for you. And unlike other manufactures who offer only one type of blending equipment, we manufacture several different types to provide the right solution for your process. If your materials require particle size reduction or the intimate dispersion accomplished in Ball Mills, then Talk to the Experts at Paul O. Abbé—the leading producer of ball and pebble mills for nearly 100 years.

Ask the Experts at Paul O. Abbé to go to work for you. Our mission is to adhere to the highest standards of customer service and to offer superior quality and engineered solutions to our clients' process equipment needs.

You can be sure with Paul O. Abbé equipment... Why do you think we offer the Longest Guarantee in the Industry?



**Did You Know?**

The most "efficient" fill level for a ball mill is to load material equal to 25% of the total volume of the mill. A 40% batch will take twice as long to mill as does the 25% batch. But, depending on your cycle time and unit operations, it may actually be more economical to operate with the "wrong" batch size.

Blending equipment, if operated for too long, can actually "de-mix" the materials that you had blended.

When sizing and specifying the correct vacuum and solvent recovery systems for your vacuum drying equipment, components must be sized for the peak vapor load, not for the average or total moisture to be removed.

**Talk to the Experts**

[www.pauloabbe.com](http://www.pauloabbe.com)

**Supporting you with:**

- The longest guarantee in the industry.
- Decades of experience solving processing problems.
- Sanitary construction for the most demanding requirements.
- Not just equipment...we engineer total systems.
- Ask about our new Expedited Delivery Program.
- Industry leader known for rugged designs that last...and last...and last.
- Technical Support Team available to answer your questions.



**Vacuum Drying**



**Mixing and Blending**



**Ball and Pebble Mills**

**Engineered Solutions  
for your  
Process Equipment  
Requirements**

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**New Jersey Office:** 139 Center Avenue, Little Falls, NJ 07424 • Phone: (800) 524-2188 • Fax: (973) 256-0041 • Email: [sales@pauloabbe.com](mailto:sales@pauloabbe.com)  
**Corporate Headquarters:** 735 E. Green Street, P.O. Box 80, Bensenville, IL 60106 • Phone: (800) 524-2188 • Fax: (630) 350-9047