

RAYMOND BARTLETT SNOW

Research & Process Development Center

With a 130 years of experience, Raymond Bartlett Snow is a leader in the design and manufacture of industrial milling, classification and thermal processing equipment.

CUSTOMER BENEFIT

- Grinding, classifying and thermal testing.
- Full size equipment.
- Test large material lots.
- Comprehensive test

SAMPLE OF MATERIAL TESTED

Alumina, Aluminum Hydrate, Ammonium CPD, Antimony Sulphide, Barium Nitrates, Barytes, Bentonite, Biomass, Borax, Burnt Lime, Calcium CPD, Carbon (AC), Chalk, Charcoal, Clays, Coal, Cocoa, Coke, Detergents, Dolomite Diatomaceous Earth, Fluorspar, Graphite, Glutens, Gums, Gypsum, Grains, Hydrated Lime, Lignite, Lime, Limestone, Lithage, MnO₂, Magnesite, Magnesium CPD, Metal Oxides, Metal Powders, Pigments, Plastics, Polymers, Potassium CPD, Potatoes, Resins, Salts, Silica, Sludges, Starch, Sodium CPD, Soy Bean Meal, Strontium Nitrate Sugar, Talc, TiO₂, Tobacco, Wollastonite, Zeolite, Zircon

The time to test is before you buy...

The purchase of process equipment can involve considerable risk because selecting equipment that's "almost" right for the job can be an expensive mistake. Eliminate that risk by testing before purchasing. The Raymond Bartlett Snow Research & Process Development Center was designed to do just that.

Raymond Testing Resources

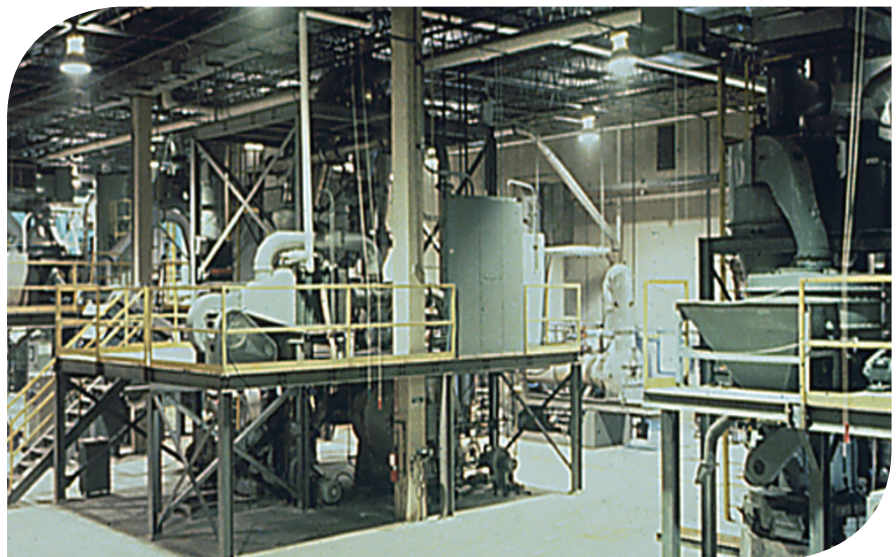
Our twenty-five thousand square foot facility is used exclusively to test and demonstrate the capabilities of Raymond® and Bartlett-Snow™ equipment under simulated production conditions. It houses a wide range of full-scale processing equipment capable of grinding, classifying or thermally processing virtually any mineral, chemical, food or other material.

Raymond Does It Differently

Some manufacturers test materials in small quantities on small scale or bench models. We don't. We test large material lots on full-size equipment to reduce much of the uncertainty of scale-up between bench and full-scale equipment. Managing large production quantities of test materials often uncovers handling difficulties and other problems that might be overlooked.

Capabilities

You will work with our engineers and technicians to simulate your operations as closely as possible. Upon completion of the testing, you'll receive a comprehensive report, as well as equipment recommendations to best address your application.



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Raymond Pulverizing Equipment

- Raymond Roller Mill - over 1,000 types of non-metallic materials have been tested at the facility.
- Raymond Imp Mill - best for material low in abrasion characteristics.
- Raymond Vertical Mill - for a wide variety of non-abrasive materials.
- Raymond Ultra Fine Mill - for products as fine as d50 of 2 microns.
- Raymond Table Mill - high capacity for solid fuel and mineral processing.

Raymond Particle Size Equipment

- Jet Stream Classifier - for ultra fine classification.
- Turbine Dynamic Classifier for Mills
- Mechanical Air Separators - for fine classification.

Bartlett-Snow & Raymond Thermal Equipment

- Bartlett-Snow Rotary Electric Calciner - for indirect heating, calcining or other heat treatment of materials in an oxidizing, inert or reducing atmosphere.
- Bartlett-Snow High Temperature Rotary Calciner - utilizes special non-metallic cylinder.
- Bartlett-Snow Rotary Dryer - for drying a variety of materials that can be brought into contact with the products of combustion.
- Bartlett-Snow Rotary Kiln - for direct-fired high-temperature calcination of various process materials up to 1600°C.
- Raymond Flash Drying System - for simultaneous drying and transport of materials requiring minimal retention time.

Material Tests

- Moisture analysis and loss on ignition.
- Material specific gravity and bulk density measurement.
- Particle size distribution analysis - several techniques are available to determine particle size distribution.
 - Microtrac - computer based analyzer using laser scattering technology to determine the full range of distribution from 704 microns down to 0.17 microns.
 - Ro-Tap Screen Analysis - determines particle size from 1 inch down to 500 mesh (31 microns).
 - Alpine Air Sieve - vacuum operated single screen analysis.
- Abrasion/Grindability
 - Raymond Grindability - proprietary test determines grindability characteristics of different materials.
 - Raymond Abrasion - proprietary test determines abrasion characteristics in order to select mill type and predict parts life.
 - Hardgrove Grindability - determines grindability of coal.

