

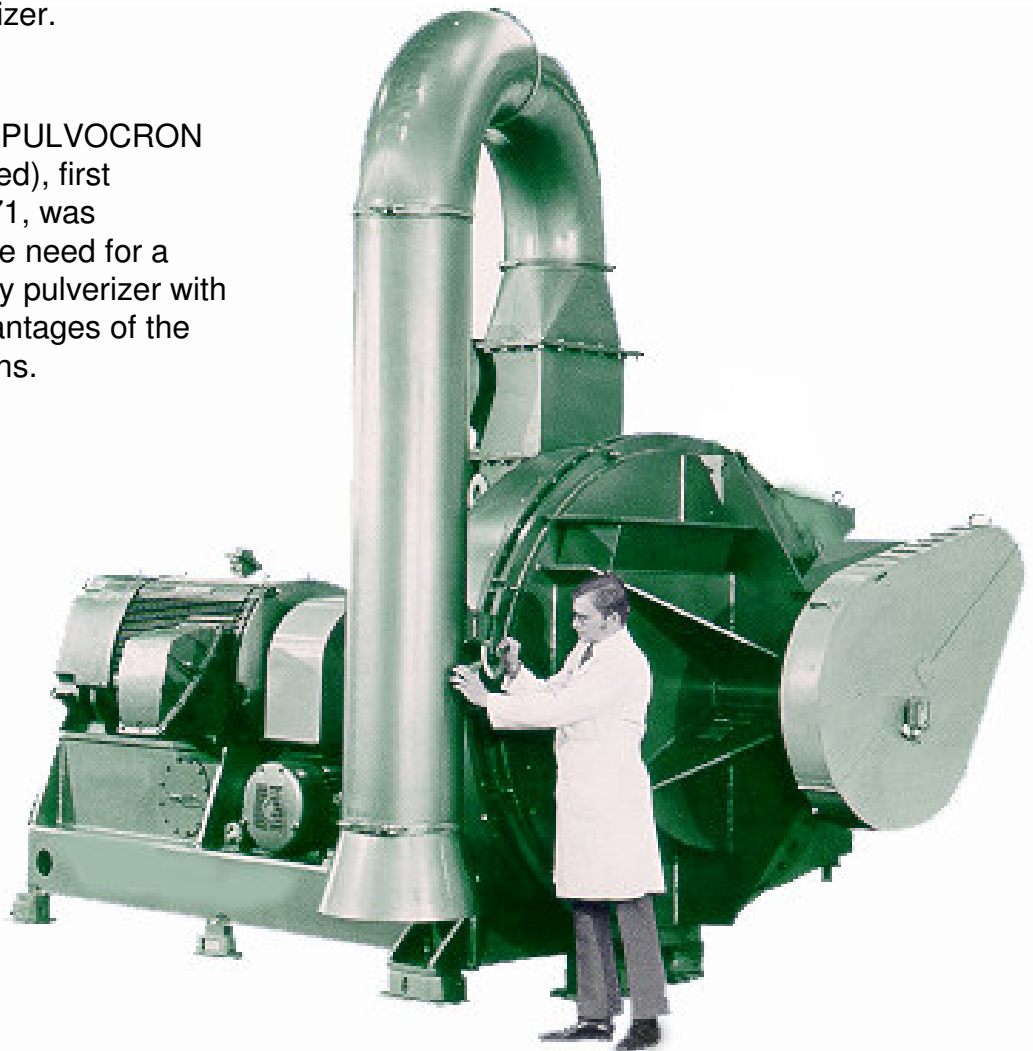
PULVOCRON

As a leader for more than 95 years, BEPEX continues to manufacture high quality size reduction equipment. The company history is punctuated by innovations based on experience and sound theoretical and practical engineering know-how in the size reduction field.

The PULVOCRON® pulverizer, first introduced in 1958, is an air swept, combination pulverizer/classifier with external fineness adjustment during operation. Known for its versatility, the Pulvocron can pulverize in the medium-fine, fine, and ultra-fine particle size ranges down to 10 micron top size with only minor adjustment.

Ease of particle size adjustment, accessibility for maintenance, and minimum installation requirements are just a few of the advantages inherent in the Pulvocron pulverizer.

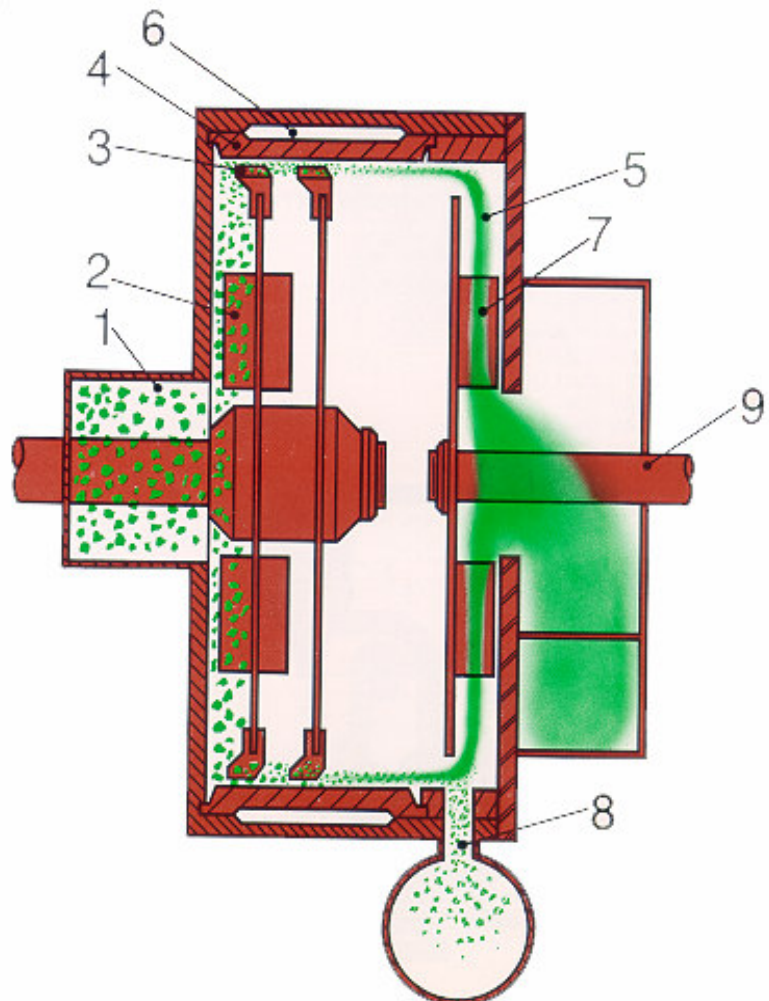
The giant PC-76 PULVOCRON pulverizer (pictured), first introduced in 1971, was designed to fill the need for a very high capacity pulverizer with all the basic advantages of the smaller Pulvocrons.

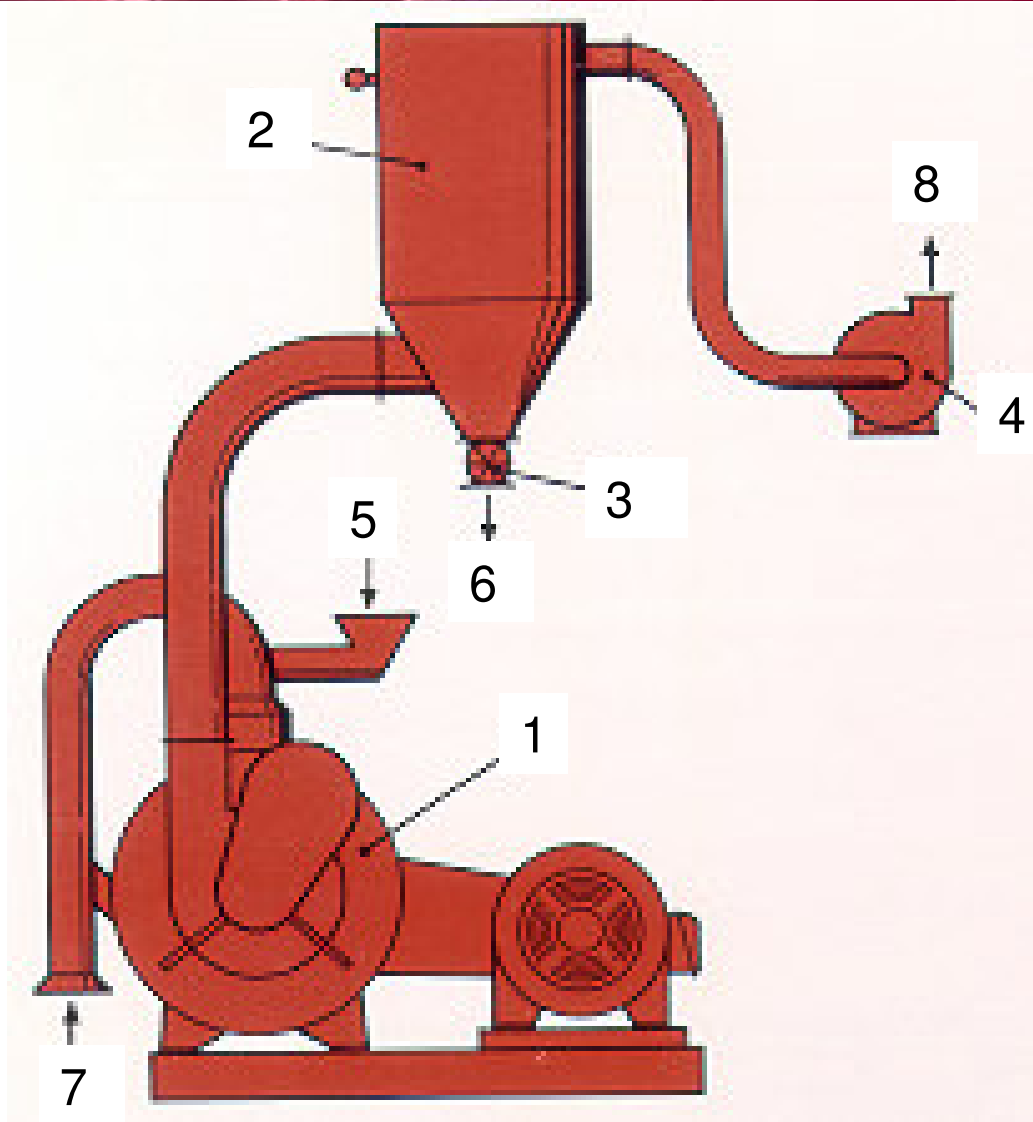


How the Pulvocron Works

The Pulvocron is an airswept pulverizer equipped with an internal classifier that is externally adjustable during separation. Raw material is fed into the incoming airstream and enters at the back-center of the mill (1). Primary beaters (2) on the primary beater plate uniformly distribute the feed around the periphery of the grinding zone, exposing the feed to the grinding zone, and to the grinding interaction between the secondary beater (3) and the liner (4). When cooling is advantageous, the water jacket (6) may be utilized. The airstream

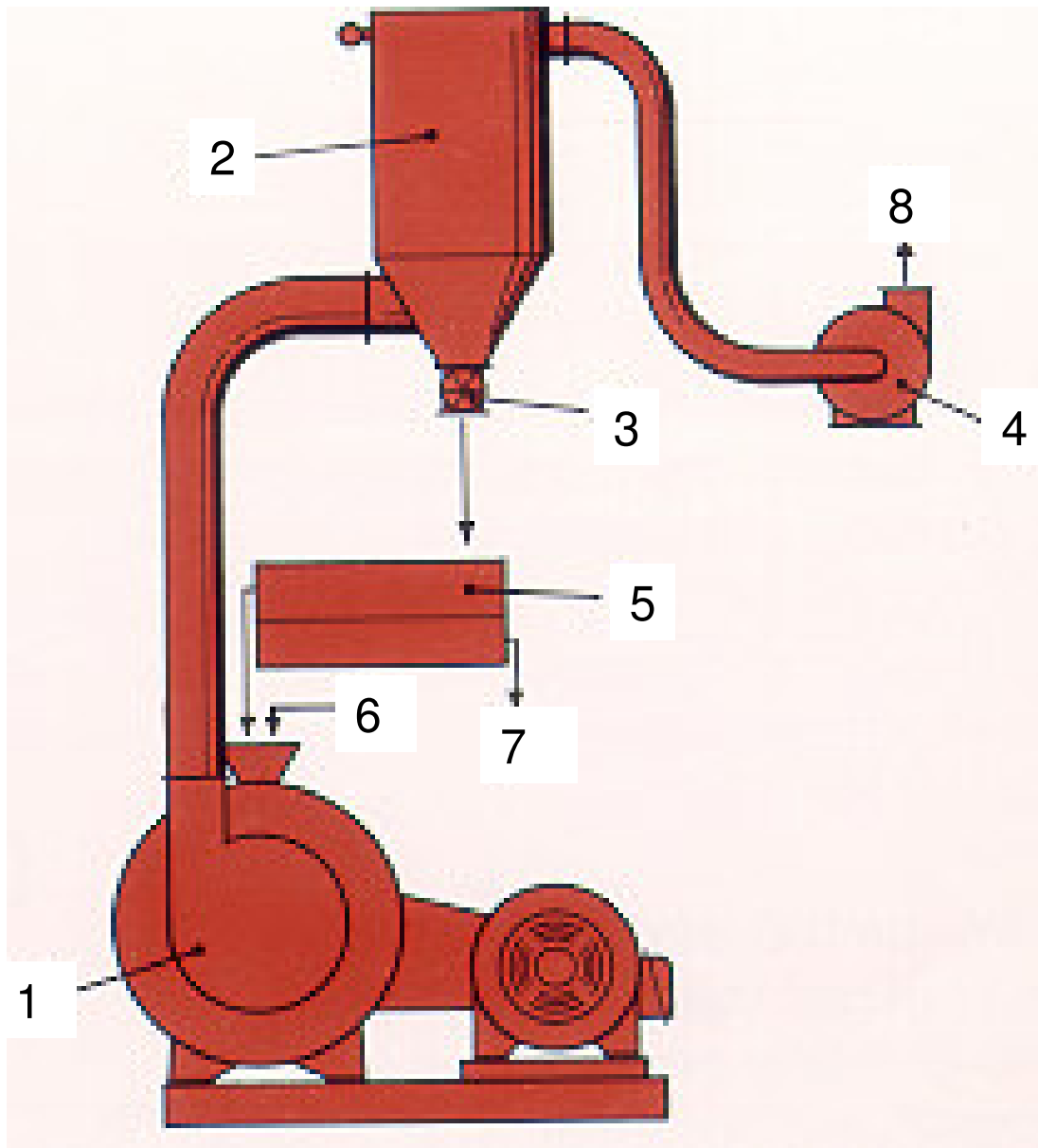
continually sweeps the partially pulverized material across the grinding zone into the classifying zone (5). The classifier (7), an integral part of the mill, separates oversize material from the exiting airstream and returns it to the entering airstream through the tailings port (8). The tailings port opening and classifier speed (9) are both adjustable to achieve proper balance between grinding and classifying, thereby assuring maximum efficiency from both mill and classifier.





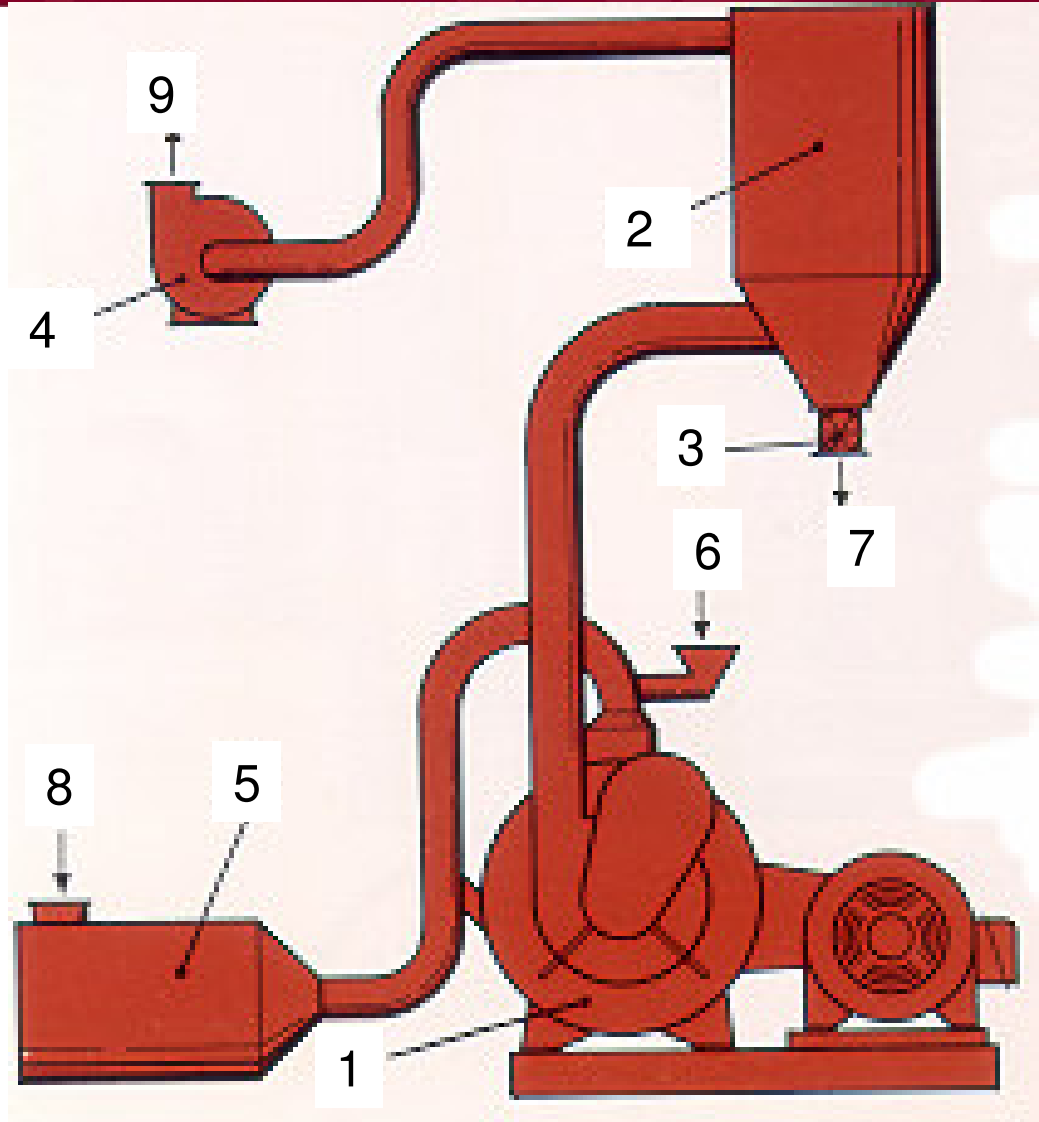
STANDARD ARRANGEMENT: FINE GRINDING

1. Mill with Classifier
2. Product Collector
3. Airlock
4. System Fan with Damper
5. Feed Inlet
6. Product Outlet
7. Air Inlet
8. Air Outlet



STANDARD ARRANGEMENT: CORSE GRINDING

1. Mill without Classifier
2. Product Collector
3. Airlock
4. System Fan with Damper
5. Classifying Screen (optional)
6. Air and Feed Inlet
7. Product Outlet
8. Air Outlet

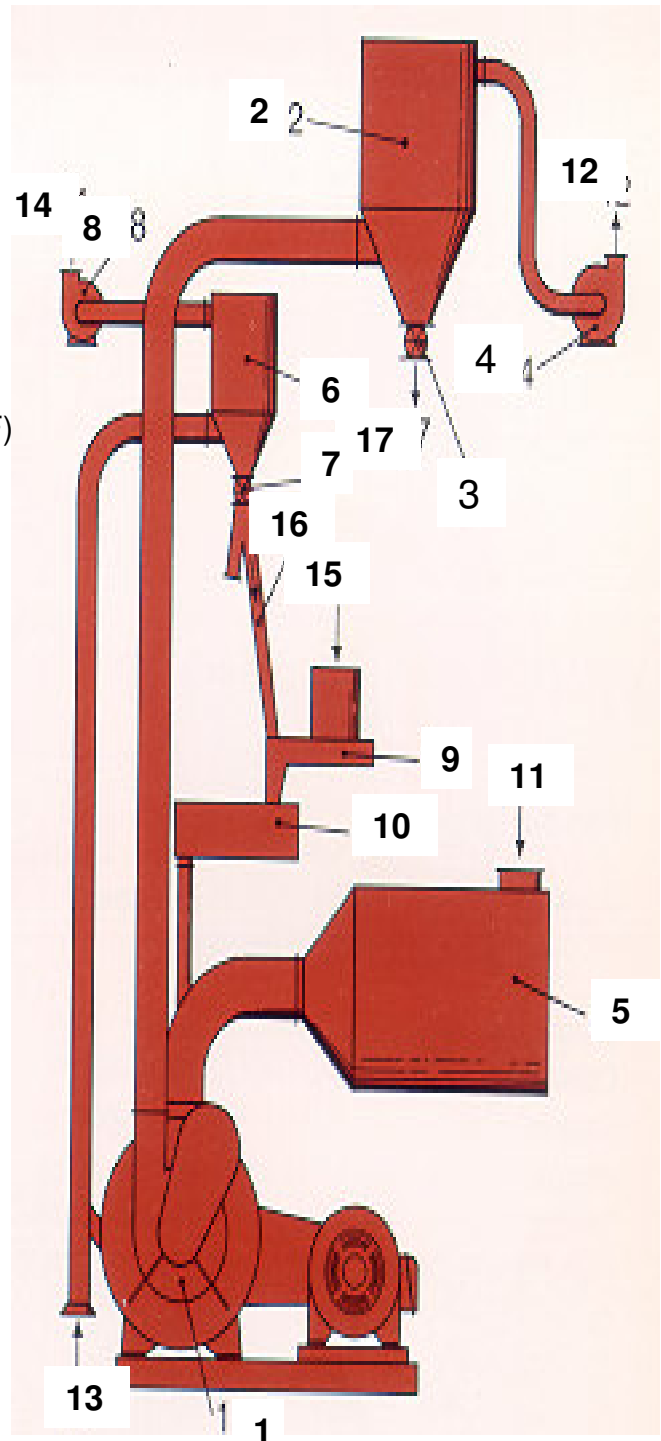


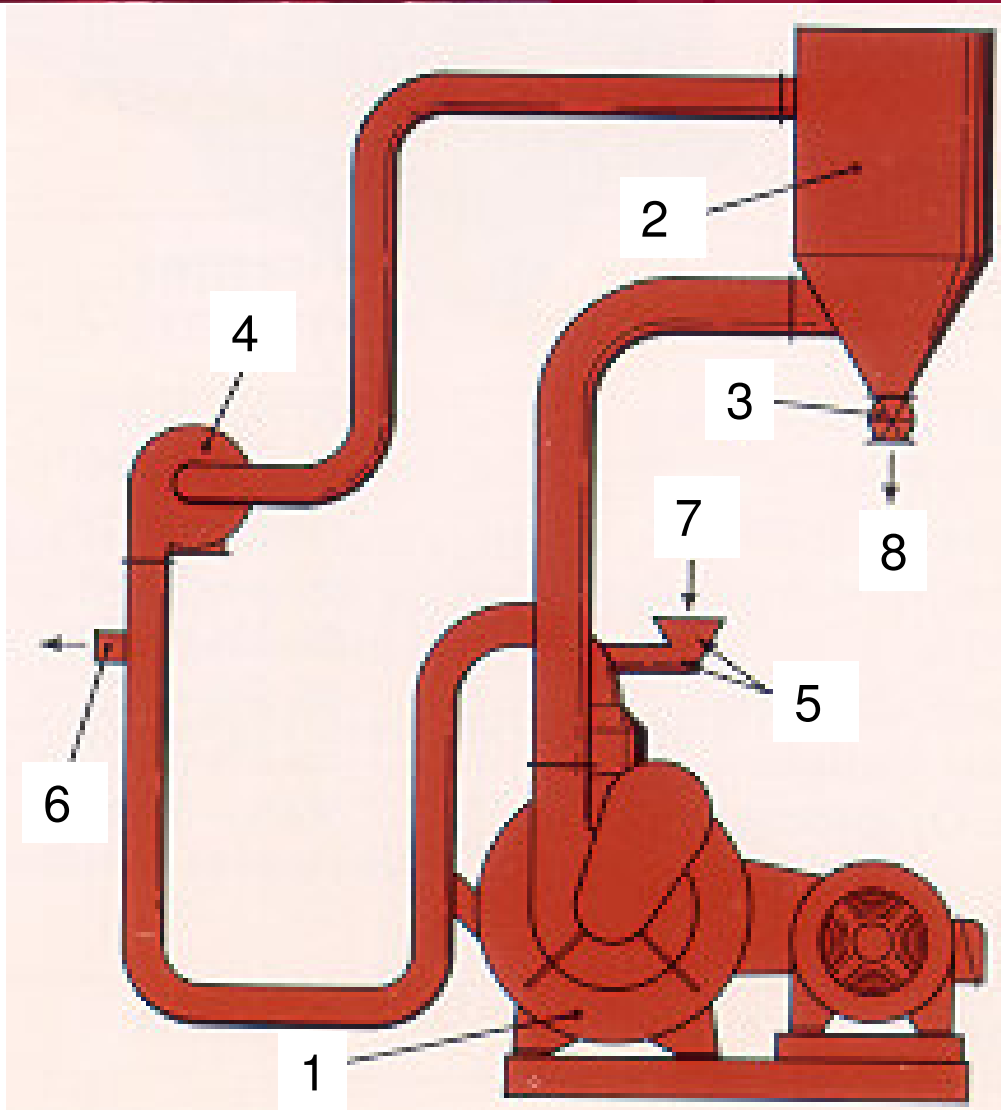
**ARRANGEMENT FOR SIMULTANEOUS DRYING /
FINE GRINDING OF DAMP, FREE-FLOWING, NON-
HEAT-SENSITIVE MATERIALS**

1. Mill with Classifier
2. Product Collector
3. Airlock
4. System Fan with Damper
5. Air Heater (gas, oil, steam, to 1200°F)
6. Feed Inlet
7. Product Outlet
8. Air Inlet
9. Air Outlet

ARRANGEMENT FOR SIMULTANEOUS DRYING / GRINDING OF PASTES, SLURRIES AND HEAT-SENSITIVE MATERIALS

1. Mill with Classifier
2. Primary Collector
3. Product Airlock
4. Primary System Fan with Damper
5. Air Heater (gas, oil, steam, to 1200°F)
6. Oversize Collector
7. Oversize Return Airlock
8. Oversize System Fan
9. Slurry Feeder
10. "Turbulizer"® Backmixer
11. Primary System Air Inlet
12. Primary System Air Outlet
13. Recycle System Air Inlet
14. Recycle System Air Outlet
15. Raw Wet Feed Inlet
16. Oversize Recycle Return Line
17. Product Outlet





ARRANGEMENT FOR LOW TEMPERATURE PULVERIZING OF HEAT-SENSITIVE MATERIALS

1. Mill with Classifier
2. Product Collector
3. Airlock
4. System Fan with Damper
5. Liquid N₂ Inlet (feed hopper)
6. Balancing Damper
7. Feed Inlet
8. Product Outlet

Models and Specifications

Model	Drive	Mill HP (Max)	Max Rotor Speed	Classifier HP	Classifier Speed Range	*Air System Requirements		Dimensions	Wt. Lbs. w/Motor
						Capacity	Static Press. Loss		
PC-20	Belt	75	5100 RPM	5 HP	800-6000 RPM	600-1000 ACFM	35"-40" H ₂ O	63"W x 70" L x 65"H	3400
PC-38	Belt	250	3600 RPM	15 HP	450-3600 RPM	2000-300 ACFM	30"-35" H ₂ O	61"W x 114"L x 161"H	9500
PC-76	Belt	600	1800 RPM	50 HP	0-2000 RPM	7000-10,000 ACFM	35"-40" H ₂ O	113"W x 197"L x 161"H	35,400

*Pressure loss approximate for complete system, collector and ductwork.

Typical Applications

Foods/Grains

Product	Fineness
Bulgar wheat	100%-70m
Cake Mix	99%-200m
Casein	99%-60m
Cocoa	100%-325m
Dextrose	99%-150m
Fish Protein Conc.	98%-200m
Guar	85%-200m
Corn Gluten Meal	95%-14m
Oat Bran	99.8%-200m
Salt	95%-200m
Soya Flake	98%-200m
Sugar	98%-325m
Whey	98%-50m

Chemicals

Product	Fineness
Antimony Sulfide	95%-325m
Boric Acid	99.5%-325m
Cellulose Acetate	100%-325m
Hard Rubber	99%-100m
MBTS	99.9%-270m
Nickel Carbonate	99.9%-325m
Aluminum Sulfate	99.5%-325m
CaCO ₃ (precip)	99%-500m

Plastics

Product	Fineness
Melamine/Urea Formaldehyde	88%-70m
Dispersion PVC	99.97%-325m
Scrap PVC	99%-10m
Polyester	99.7%-60m
Epoxy Powder	99.9%-400m
Polystyrene	70%-20m

Minerals

Product	Fineness
CaCO ₃ (nat.)	100%-20μ
Calcium Oxide	99.9%-100m
Hydrated Lime	95%-325m
Limestone	99%-400m
Calcined Kaolin	99.99%-325m
Clay	99.9%-325m
Gilsonite	75%-325m
Mag. Oxide	99%-325m
Talc	99%-10μ
Zinc Oxide	99.5%-200m

Miscellaneous Products

Product	Fineness
Insecticides	99.95%-325m
Fungicides	99%-325m
Battery Oxide	24gm/cu in
Colors/Dyes	100%-325m
Pigments	100%-325m
Cast Iron Chips	90%-80m
Wood Bark	95%-200m
Plywood Scrap	95%-200m
Lead Chromate	100%-37μ

Standard Accessories and Options

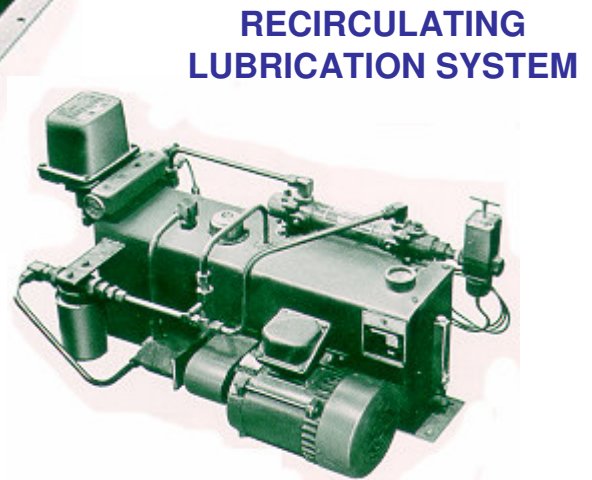
Along with product collectors and fans manufactured to our specifications, the following items are available from Bepex.



**SCREW
FEEDER**



**STAGGERED
POCKET FEEDER**



**RECIRCULATING
LUBRICATION SYSTEM**



**INSTRUMENT
PANEL**

Scope of Supply –Bepex will design, engineer, supply and guarantee your complete Pulvocron System or we will provide the necessary data to allow your Engineering department to size and select the required components for your Pulvocron.

Laboratory Testing –Bepex maintains a customer service laboratory fully equipped to evaluate your material requirements.

Other Bepex Pulverizers – Bepex also manufactures the Rietz Disintegrator to solve a wide range of grinding applications.

BEPEX International, LLC

**Product Sales and Testing, Manufacturing,
Parts and Service**

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