Bradley PULVERIZER

BLVT CLASSIFIER

HIGH EFFICIENCY CLASSIFICATION FOR IMPROVED PARTICLE CUT SIZE

Efficient classification involves accurately separating desired particle sizes from a moving airstream. For highest efficiency to be achieved, a very distinct relationship of velocities and forces needs to be maintained in the classifying zone.

PRINCIPLE OF OPERATION

The BLVT Classifier utilizes a turbine rotor surrounded by specialty pocket guide vanes and a classification zone. This design provides a two-layer classification system which first, rejects oversized particles with the pocket guide vanes then utilizes the separator rotor to further screen overly coarse particles.

The oversized coarse particles are carried by the airflow into the classifier where it impacts the angled pocket vanes, loses velocity and falls down into the grit funnel. This rejected material is directed down through the center of the grit funnel back to the grinding chamber, without passing through turbulent air-material currents.

The turbine rotor accurately controls material fineness setting by changing rotor speed. Target sized fine particles are carried out through the separator rotor and up to the cyclone or bag filter collector.

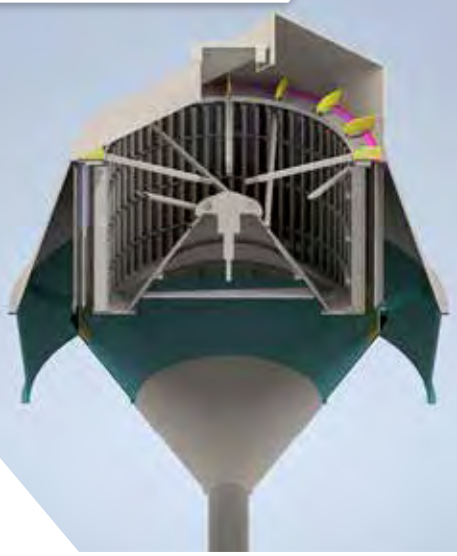
PERFORMANCE FEATURES

- ☐ INCREASED PRODUCTION CAPACITY OR A FINER GRIND CAPABILITY
- ☐ REDUCED SYSTEM POWER CONSUMPTION
- ☐ REDUCED WEAR ON MILL BODY AND COMPONENTS
- ☐ REDUCED VIBRATION FOR SMOOTH SYSTEM OPERATION
- ☐ EASY TO RETROFIT ON EXISTING MILLS
- ☐ HIGH RETURN ON INVESTMENT WITH SHORT PAYBACK PERIOD

BLVT CLASSIFIER

2-LAYER CLASSIFICATION SYSTEM FOR IMPROVED YIELD & THROUGHPUT

- ☑ HIGH EFFICIENCY CLASSIFICATION
- ☑ IDEAL FOR CEMENT MILLING
- ☑ AVAILABLE FOR ANY CAPACITY



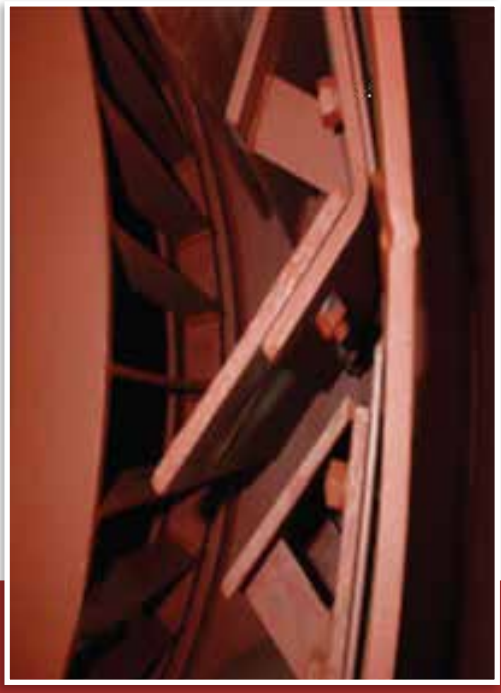
DESIGN

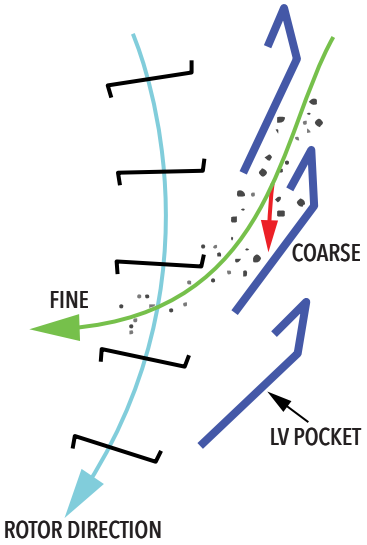
BRADLEY LOW VELOCITY TECHNOLOGY

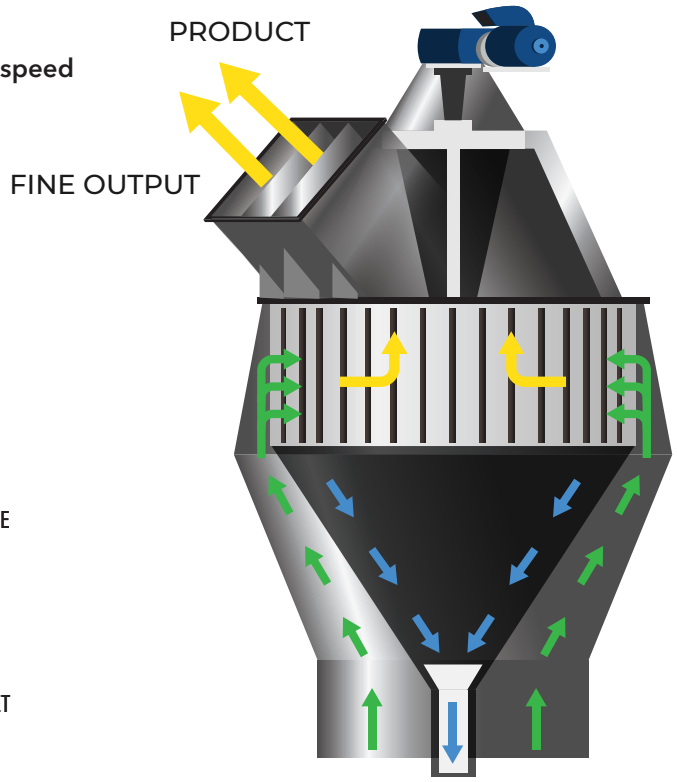
The Bradley Low Velocity Technology (BLVT) Classifier achieves high efficiency classification through our superior design. The BLVT Classifier is designed to optimize the air and material flow inside the mill and minimize unnecessary internal recirculation. This design results in improved particle cut-size and overall improved classification performance.

KEY COMPONENTS

- ☐ **LV POCKET GUIDE VANE –**
  Unique design allows coarse material particles to circulate back to the mill for re-grinding
- ☐ **ROTOR –**
  Accurately controls fineness setting by easily changing rotor speed
- ☐ **GRIT FUNNEL –**
  Controls velocity between the top of the grinding zone and the LV pocket guide vane and directs rejected material back to the grinding zone







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Bradley PULVERIZER

123 South Third Street | Allentown, PA 18102

www.bradleypulverizer.com

610-434-5191 855-670-8777