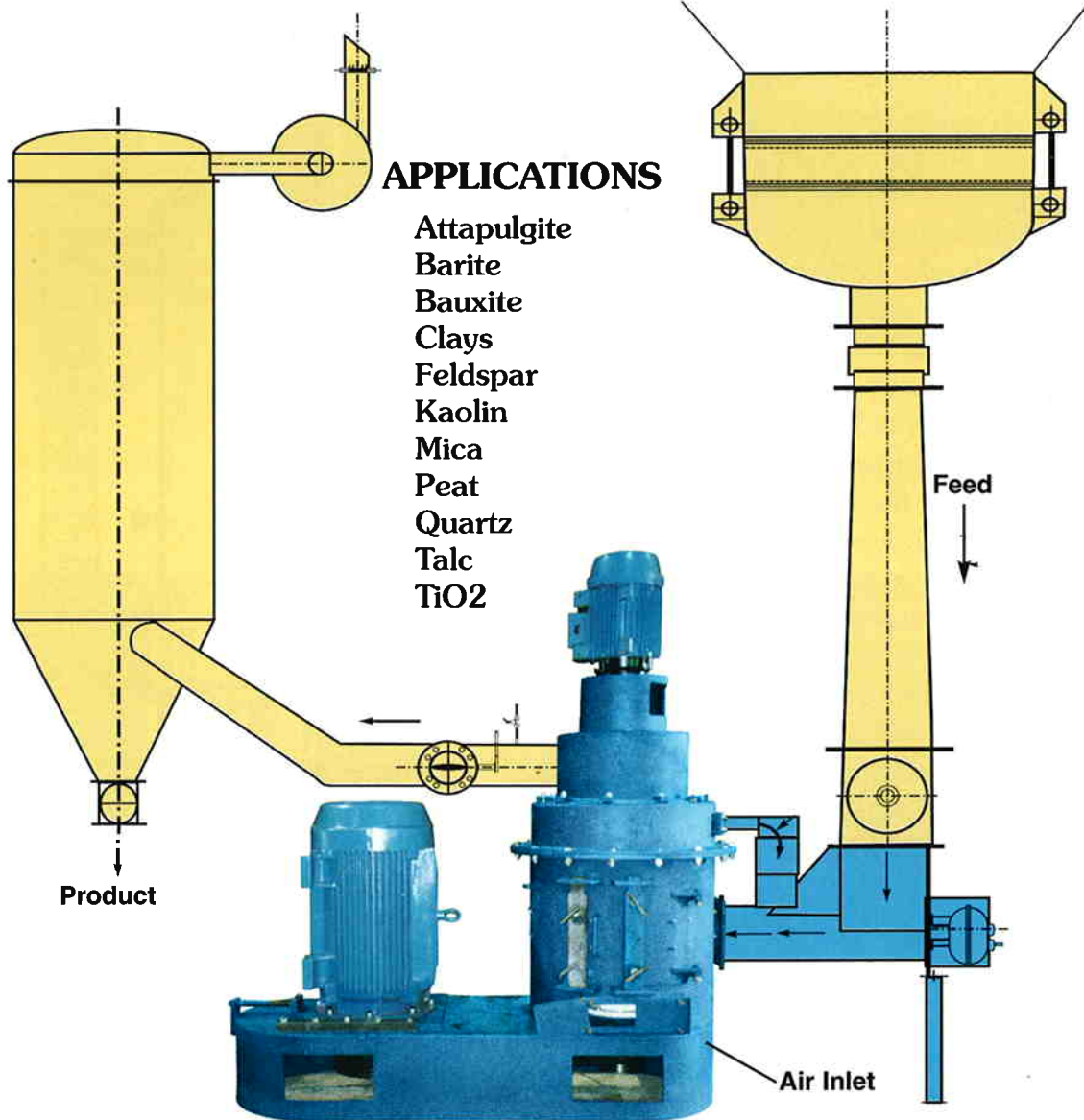


IMPEX[®]

ELLIOTT PULVERIZER/CLASSIFIER



ELLIOTT STCM MILL

INDUSTRIAL MINERALS PROCESS EQUIPMENT CORPORATION

IMPEX CORPORATION

ENGINEERING • CONSULTANTS • MANUFACTURING • SALES

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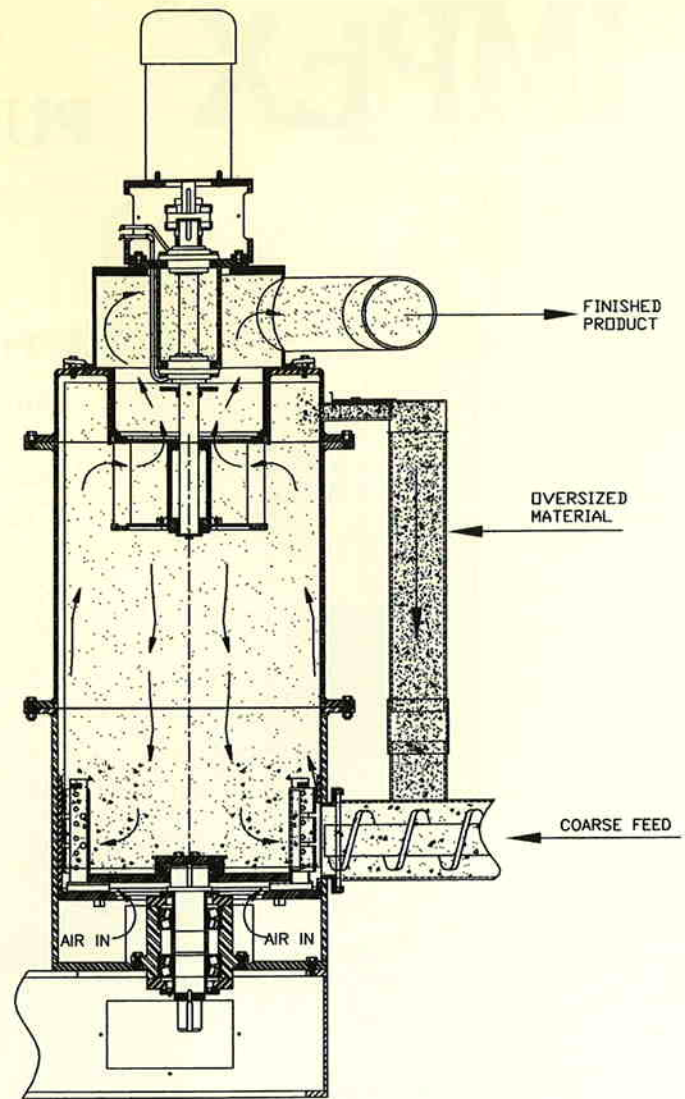
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THEORY OF OPERATION

Material to be processed is fed into the mill near the bottom of the grinding chamber by a screw conveyor that can be driven by a variable speed drive to control feed rates. An external dust collector fan pulls air controlled by the bottom dampers into the bottom and through the mill, fluidizing material to be pulverized. The material must be completely fluidized so that each individual particle can be accepted or rejected by the classifier. As material moves up into the classifier area, the oversize particles are drawn back into the center of the grinding motor or expelled through the rejector and returned to the feed screw. Discharge particle size is controlled by an independently driven variable speed turbine classifier. This allows easy adjustments for various materials and conditions.



DESIGN FEATURES OF ELLIOTT TURBINE TYPE STCM PULVERIZER/CLASSIFIER MILL

The Elliott Pulverizer/Classifier is a heavy duty, high capacity, grinding mill with an independently driven variable speed turbine classifier. It is designed for fine grinding of dry material. Particle size in the 5-10 micron range is easily controlled by changing the speed of the classifier through a variable frequency control motor. The feed material to the mill is controlled by varying the speed of the screw conveyor or by varying the feed rate to the screw conveyor. The pulverizer speed is controlled by a v-belt drive system that is usually set at a fixed speed, depending on the application.

The mill has especially been designed for high efficiency and low maintenance. The grinding blades are hardened alloy or tungsten carbide tipped. The replaceable wear liners are constructed of a hard iron alloy. The classifier housing and mill housing are constructed of A-36 steel. The replaceable classifier blades are constructed of A-360 steel. The long life Dodge bearings are easily replaced. Mill blades can easily be replaced thru a large access door on the side of the housing. The mill includes a complete oil lubricating pumping system with oil filter, flow control switch and sight gauge. The mill is equipped with one rejector which recycles oversized particles back to the feed screw. All mills are pre-tested and operated in the shop before crating and shipping.

ELLIOTT MACHINE SHOP, INC.

MACON, GEORGIA



Assembly Parts



Spare Parts



Fabricated Mill



Lubrication System



Screw Feeder



Shop Fabrication



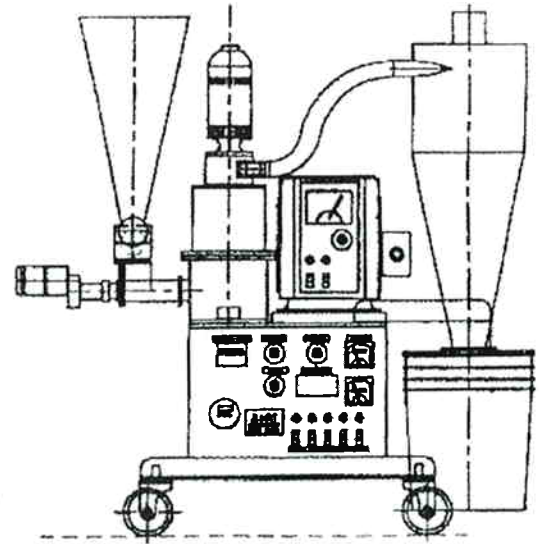
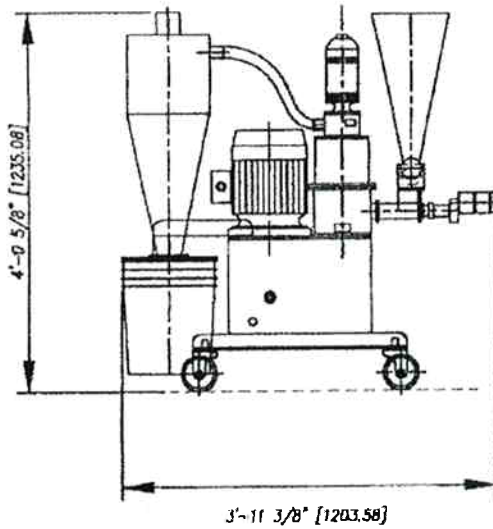
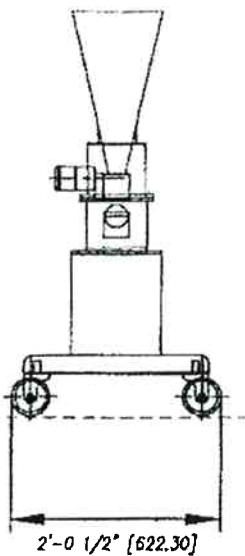
Production Line



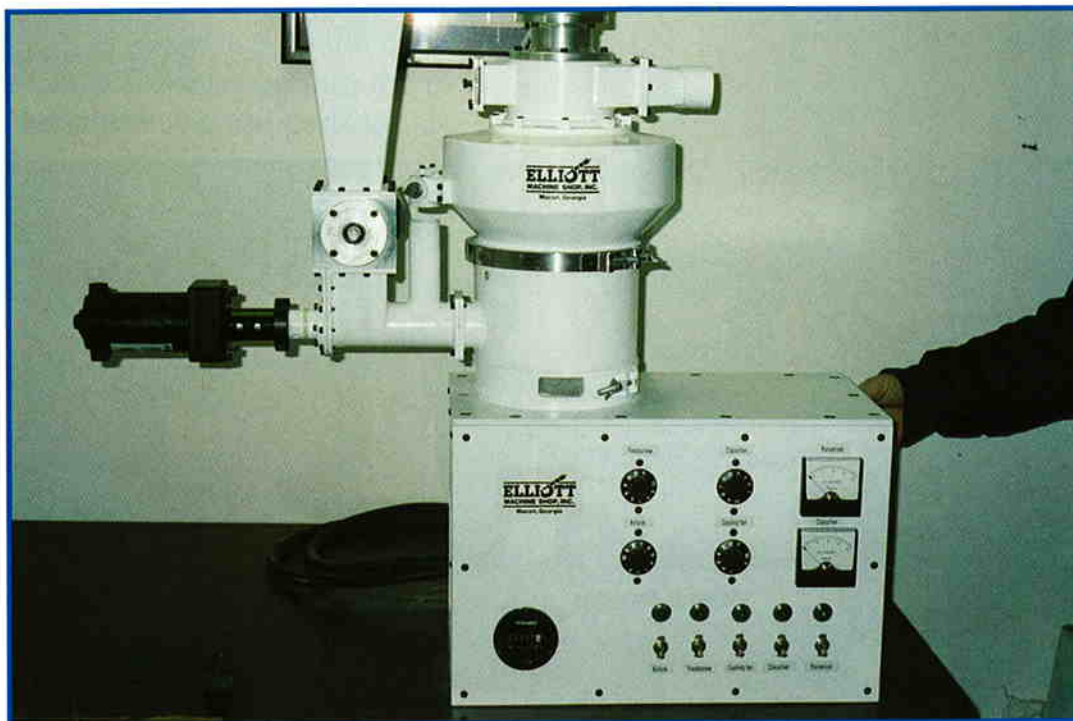
Field Installation



Shop Testing



GENERAL DIMENSIONS



PILOT PLANT PULVERIZER/CLASSIFIER

In Addition To Laboratory And Pilot Plant Services, IMPEX Offers The Following Product Lines:

Two Cell FMM Delaminators
 Drag Classifiers
 Screens
 Secondary Blungers
 Conditioners
 Mine Blungers
 Clarifiers

Centrifuges
 Rotary Vacuum Filters
 Drum/Press Cake Repulpers
 Filter Blungers
 Pulverizer/Classifier Mills
 High Shear Mills
 Atomizers

High Shear Blungers
 Make Down Blungers
 Calciners
 Pin Mill Pelletizers
 Pulverizers
 High Intensity Grinding
 Thickeners

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