

Since 1888



2025 Catalog

Manufacturers Of Mining And Geological
Laboratory Test Equipment



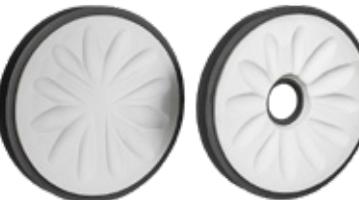
Pulverizers

The **UA PULVERIZER** will reduce a 6.35MM (1/4") quartz sample to 150-200 mesh at an approximate rate of 1#/min. The unit provides you with an easy, efficient design for cleaning between samples, in addition to being durable and easy to maintain. Replacement grinding plates are available in a variety of materials, including ceramic for contamination free sample preparation.

UA V-BELT PULVERIZER

Shown with Safety Guards and Motor and Optional Ceramic Grinding Plates.

- Available in 2,3, and 5HP
- Single Phase & Three Phase



8" GRINDING PLATE FOR UA & UD PULVERIZERS

- Plates vary in hardness & composition
- Two plates required for a set, one stationary (with hole) & one revolving

UA-51/52 Iron Alloy

UA-200R/S Chrome Alloy Steel

UA-94/95 Super Wear
Resistant Iron Alloy

UA-92/93XX Ceramic

UA-85/86 Hardened Iron

LD-03/04 Semi-Steel Plates



VIBRATORY PULVERIZER

For efficient grinding of production samples. The **VIBRATORY PULVERIZER** (Ring Mill) uses 2 rings and a puck inside a 250 ML (8" diameter) grinding bowl. A specially designed motor, directly coupled to a rotating eccentric, swings the bowl and components at a precise speed and distance for maximum grinding efficiency, thus rapidly reducing a wet or dry sample of minerals, ore, rock, soil or similar material to a final 400+ mesh.

- 1HP, 3HP 50/60Hz, 208/220/440V Motor-(900 RPM)
- 250 ML Grinding Bowl/Lid & Components
- Starting Switch & Timer
- Insulated Cabinet for reduced operating noise
- DIM: 24"X24"X43" WT: 630LBS
- Single Phase 220v 60Hz now available



PLATE ALIGNER UA-1000/UA-1000C

Designed to assist in plate alignment



REPLACEMENT GRINDING BOWL & COMPONENTS

Available in wear resistant chrome alloy steel and tungsten carbide.

VP-45/50	250ML	Chrome Alloy Grinding Set
VP-45/50TC	100GM	Tungsten Carbide Grinding Set
VP-45/50CA	100GM	Chrome Alloy Grinding Set

DUST COLLECTOR

This unit has been specially designed to work with the BICO Pulverizers and Crushers to control nuisance dust in the work place. This unit is a down draft bench designed for controlling heavy dust jobs. No special electrical or duct work is required for this self-contained, portable, cost effective unit.

- 500-700 FPM Tabletop Air Velocity
- Dust Removal Drawer
- Blower Exhaust Silencer
- Fluorescent Lighting
- Enclosed Top with Hinged View Panel
- Replaceable 220 Sq. Ft. Filter Cartridge
- Inside DIM: (W)50 1/4" X (H)35" X (D)36"
- Overall DIM: (W)57" X (H)60" X (D)37"



BICO BRAUN CHIPMUNK & BADGER CRUSHERS

TYPE	CAPACITY	RPM	HORSE POWER	JAW CAPACITY	REDUCTION SIZE MIN MAX	TYPE OF DRIVE	CATALOG NUMBER	GROSS WEIGHT LBS/KG
BICO Badger Approx. DIM: 23"X24"X20"	1300 LBS Per Hour	400	5	5"X7	1/8" 3/4"	V-Belt, 3 Phase V-Belt, 1 Phase	241-38X5 241-38X5S	800/364 800/364
WD Heavy Duty Approx. DIM: 28"X19"X32"	800 LBS Per Hour	400	3	2 3/8"X4"	1/16" 5/8"	V-Belt, 3 Phase V-Belt, 1 Phase V-Belt, W/0 Motor	241-36 241-36X3S 241-37	570/260 580/265 460/210
VD Standard Approx. DIM: 25"X19"X30"	400 LBS Per Hour	400	2	2 1/4"X3"	1/16" 3/8"	V-Belt, 3 Phase V-Belt, 1 Phase V-Belt, W/0 Motor	241-34 241-34S2 241-35	390/177 395/180 285/130



WD CHIPMUNK JAW CRUSHER

(Shown with Safety Guards & Feed Hopper)

The Bico Chipmunk Jaw Crusher offers effective reduction of friable material, ore, mineral and chemical samples.

- Ruggedly designed to absorb the shock and impact of constant use
- Easy access to all parts for rapid cleaning and maintenance
- Space saving motor mounting design
- Feed hopper & safety guards standard with units supplied with a motor



BALL MILL

Designed by F.C. Bond for use by cement companies and quality control laboratories. Meets the F.C. Bond Grindability Test criterion.



- 12' Cast iron drum
- 44.5 lb iron balls
- Digital counter for auto shut-off
- Receiving pan, hand screen pan & table
- Chrome balls available

JAW CRUSHERS

BICO has designed its equipment for laboratory, sample prep and pilot plant use. The **JAW CRUSHERS** will efficiently reduce any dry friable material. All units are easy to clean with easy access to all crushing surfaces. BICO equipment will increase productivity and ease your operation. With over a century of experience behind us, BICO offers you the best in low maintenance, heavy-duty, durable, compact laboratory equipment.



BADGER JAW CRUSHER

(Shown with optional 8-57 Dust Collector Base and Ore Pan.)

Exceptional Crushing capacity with minimum power consumption is obtained by the unique movable jaw motion. This insures maximum production in the lab and field.

- Heavy-Duty fabricated Steel Main Frame
- Double End Shaft Motor applies power evenly to the machine
- Heavy-Duty Heat Treated Reversible Jaw & Cheek Plates.
- Dust Collection Base with Ore Pan available
- Heavy-Duty Sealed Spherical Roller Bearings
- All units complete with 5HP/3PH, DES TEFC Motor, Safety Guards and Feed Hopper
- Easy Jaw Adjustment

CAPACITY

- Capable of reducing 5"X7" quartz to 1/8" Chips at 1300LBS. per hour
- DIM: 32"X24'X20" WT: 800 LBS.

Assay Lab Equipment



ELECTRIC ASSAY FURNACE

The Electric Assay Furnace has a capacity of 6-30 gram crucibles or 16 to 24 cupels. 2300 Degrees F. 115 or 200 volt. Unit complete with vent hood.

- Temperature Control
- Direct Indicating Pyrometer
- Convenient 115V 15Amp, or 220V 8Amp operation
- Inside Dimensions: 9"X10"X6.5"

All complete units sold with pyrometer, temp control, hearth plate, and vent hood

HERMAN INQUARTS

Herman Inquarts (Gold Free) are little pellets of lead bullion, each containing a definite amount of silver. Just add one to the crucible before fusing or tap it into the cleaned lead button before cupellation and you can be sure of complete and accurate parting. No preliminary weighing of the added silver. No "punch and guess" results when you use these inquarts.

Herman Inquarts are uniform in silver content, easy to handle, save time and insure results. The exact silver content is marked on each package. Stock packages average 2mg of silver.



High Form
Mortar & Pestle (1 Quart)

Since 1888



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