

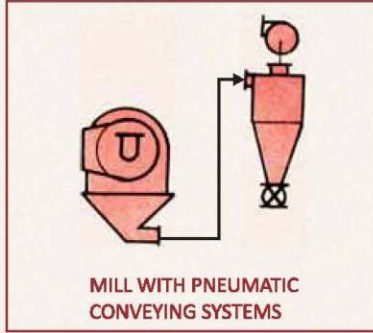
**IMPORTANT ACCESSORIES**



PULSE AIR JET DUST COLLECTOR



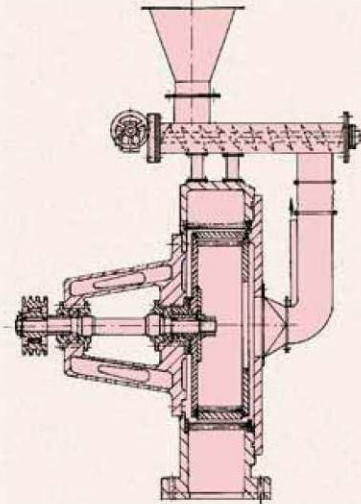
MILL WITH BAG FILTER AIR RELIEF SYSTEM



MILL WITH PNEUMATIC CONVEYING SYSTEMS



CROSS SECTION OF UNIVERSAL MILL WITH SCREW FEEDER

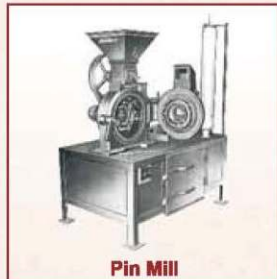


- DEMONSTRATION - TRIAL ROOM FACILITY  
With all Accessories :
1. All Types (12 Nos.) of PULVERISERS installed.
  2. Different types of PULLEYS, SCREEN, GAP PLATES AND GRINDING ELEMENTS kept to conduct TRIALS on customer's materials.
  3. TEST SIEVES, scientific WEIGHING facility available for SIEVE ANALYSIS for DRY as well as WET SIEVE TESTING.
  4. More than 500 material samples and 4000 DATA available for REFERENCE.

**OUR OTHER RANGE OF PULVERISERS WITH SCREEN**



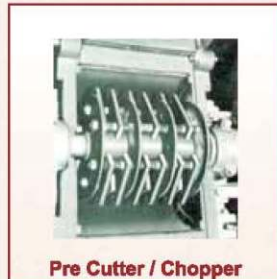
Miracle Mill



Pin Mill



Micro Pulveriser



Pre Cutter / Chopper

Manufactured By:

**PREMIUM**  
PULMAN PVT. LTD.

2009, Phase IV, GIDC, Industrial Estate, Vatva, Ahmedabad - 382 445. INDIA  
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**PROFESSIONALS IN SIZE REDUCTION TECHNOLOGY**



*Fineness is not just a chance with the 'PREMIUM' pulverisers - it is an intrinsic design of the equipment.*

**PREMIUM**  
**UNIVERSAL MILL**



**-: POPULAR APPLICATIONS :-**

- |                    |                   |                         |            |                   |
|--------------------|-------------------|-------------------------|------------|-------------------|
| - Activated Carbon | - Coffee          | - Gums                  | - Plastics | - Chalk           |
| - Ayurvedic Herbs  | - Cocoa           | - Gelatine              | - Polymers | - Cosmetics       |
| - Anti Biotics     | - Drugs           | - In organics Chemicals | - Pulses   | - Grains          |
| - Adhesives        | - Dye Concentrate | - Iceolin               | - Spices   | - Grist           |
| - Bakery Rejects   | - Detergents      | - Minerals              | - starch   | - Pharmaceuticals |
| - Charcoal         | - Foods           | - Potters Materials     | - Salt     | - Pesticides      |
| - Cork             | - Fish meal       | - Paints                | - Sugar    | - Talcum          |
| - Clays            | - Flowers         | - Pigments              | - Tapioca  | - Many more       |

**TECHNICAL INFORMATION :**

This is a very common and standard MILL for grinding many materials. The grinding is effected in a highly turbulent air, starting from inside edge and ending on the out side edge of the grinding bars. Because of air intake and circulation during grinding the material does not get heated. The turbulent air carries the fines through the sieve opening. The mill has stator and rotor. The rotor is perfectly balanced. The stator is in drum form and has both liners which grind the material and sieve which permit the pulverized particles to escape out of grinding chambers. The material fed in the center and discharged is from periphery. By varying the r.p.m. of rotor and feed rate fineness and out put are controlled.

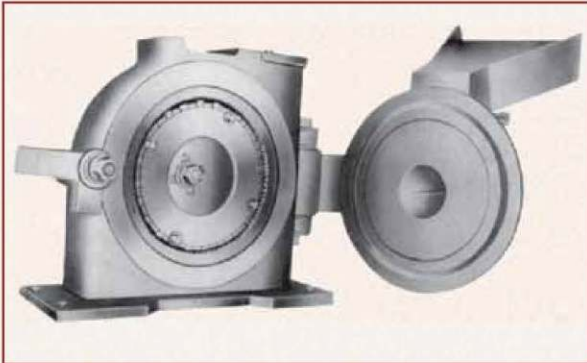
**ECONOMICAL AND SIMPLE OPERATION :**

The PREMIUM UNIVERSAL MILLS are more ENERGY FRIENDLY that means the power consumed per TONNE of production is less compared to other MILLS. The ONLY ROTATING PART is BLAST ROTOR and hence maintenance is simple and economical. The TIP SPEED of these MILLS is higher compared to similar MILLS, the AIR CURRENT GENERATED is high and greater SUCTION FORCE and FINENESS.

UNIVERSAL MILLS are compact in SIZE, and are manufactured, in TWO SERIES.

- a. JUNIOR SERIES.
- B. SENIOR SERIES

LARGE SIZE are with AUTO FEEDING and AUTO COLLECTION arrangement mills



**TECHNOLOGY**

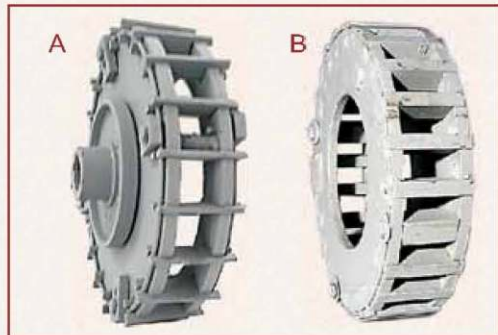
PREMIUM manufacture UNIVERSAL MILLS to grind wide range of materials in desired particle size.

THREE different types of BLAST ROTORS and TWO different types of CLASSIFIER STATORS GRINDING cum SCREENING DRUMS give verity of END PRODUCTS.

The BLAST ROTORS have STRAIGHTBAR OR INCLINED BAR OR PLATEBAR mechanism and are DYNAMICALLY BALANCED. The CLASSIFIER STATORS Drums are FULL SCREEN HALF SCREEN and HALF SERRATED GRINDING TRACK OR THREE QUARTER SCREEN and ONE QUARTER SERRATED GRINDING LINER.

The GRINDING TOOLS are ALLOY STEEL and HARDENED ELEMENTS are FIXED on PERIPHERY OF BLAST ROTOR.

Similarly CLASSIFIER STATORS SCREENS are FIXED in MILL BODY to get desired degree of FINE POWDER.



**BLAST ROTORS**

**A. BAR TYPE BLAST ROTOR**

PREMIUM UNIVERSAL MILLS are provided with BAR TYPE BLAST ROTORS. The BARS are either STRAIGHT BARS or INCLINED BARS. The speed of BLAST ROTOR, Type of BARS will decided FINENESS of end products. As shown in the picture BARS are FITTED in ROTOR END DISCS and are FIRMLY LOCKED.

**B. PLATE TYPE BLAST ROTOR**

The Blast Rotor is same but the GRINDING TOOLS are in the shape of PLATES as Shown in the picture Beside the SPEED and CLASSIFIER SCREEN Size of HOLE the distance between outer EDGE of BLAST ROTOR and CLASSIFIER SCREEN DRUM will beside the FINENESS of END PRODUCT.

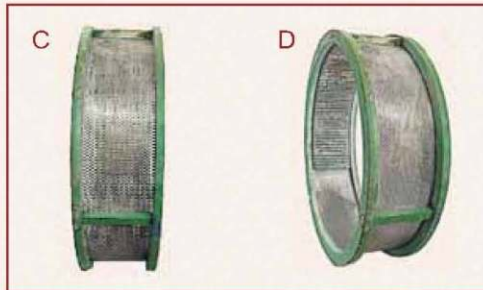
**CLASSIFIER STATORS**

**C. FULL SCREEN CLASSIFIER STATOR**

This is FULL SCREEN DRUM. SCREEN is fixed between Two RINGS and BARS are SCREWED on END RINGS to REINFORCE and SUPPORT the screen . The size of SCREEN is selected as per requirement of FINENESS.

**D. SCREEN CUM TRACK STATOR**

This has SCREEN of required HOLE SIZE and GRINDING TRACKS (SERATTED SEGMENTS). The Portion of such TRACKS is decided upon the fineness of END PRODUCT and type of product.



**METHODOLOGY OF OPERATION :**

The material to be ground is FED by SCREW Feeder from Hopper In to SPOUT of MILL. The SCREW FEEDER have AC Variable Drive motor to control the FEED RATE. A MAGNET / MAGNETIC GRILL is provided before SPOUT to stop any FERROUS particles from entering into MILL.

The STRONG AIR STREAM along with FEED MATERIAL enters the GRINDING ZONE near the center and CENTRIFUGAL FORCE takes material out words through PERFORATED CLASSIFIER RING. The AIR need to be separated from MATERIAL to by proper ASPIRATION system.

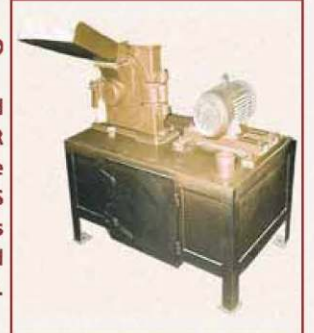
The FINENESS achieved will depend upon RAW MATERIAL, Type of ROTOR and STATOR and FEEDING and COLLECTION MECHANISM.



**JUNIOR SERIES PREMIUM UNIVERSAL MILLS :-**

These MILLS have small diameter ranging from 160 mm Ø to 300 mm Ø.

These MILLS have either FEED TRY or FEED HOPPER and are mounted on CABINET or stand. A provision for AIR BALOON is provided for AIR to ESCAPE. LAB MODELS are usually CABINET MOUNTED and PRODUCTION MODELS are mounted on RECTANGULAR STAND. These models are BOTTOM OPEN TYPE (B. O. T) and BLAST ROTOR and CLASSIFIER STATOR can be given in S.s. Construction. Technical Specification of these models are as under



**TECHNICAL SPECIFICATIONS**

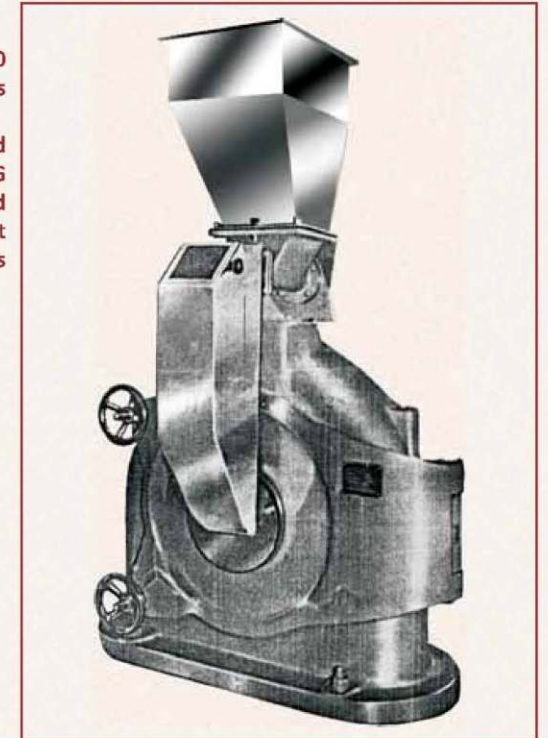
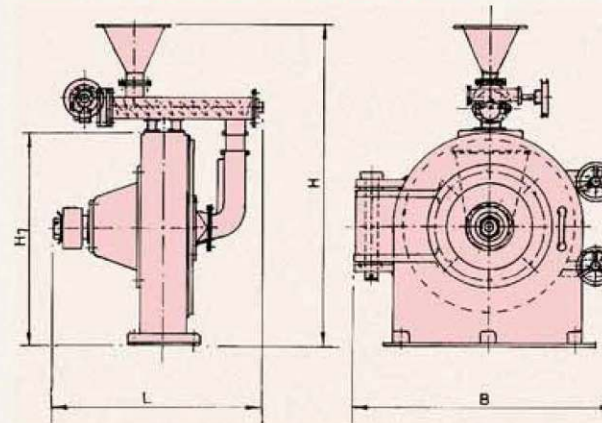
Model	Rotor Dia MM	H.P	Capacity KG / HR.	APP WT. KG.	Space Required L X W X H
PUM JR- 160	160	2.0	5 – 50	70	500 x 525 x 600
PUM JR- 200	210	3.0	25 – 100	125	550 x 575 x 700
PUM JR- 250	260	5.0	50 – 200	170	575 x 625 x 800
PUM JR- 300	310	7.5	100 – 400	250	675 x 700 x 1000

Specification and design are subject to change without notice for any additional improvement

**SENIOR SERIES PREMIUM UNIVERSAL MILLS**

These mills are in BIGGER DIAMETER ranging from 500 mm Ø to 1000 mm Ø, H.P of MAIN MOTOR will depend upon model, capacity, Fineness of END PRODUCT and type of material.

These MILLS are provided with SCREW FEEDER for uniform and regulated flow and are suitable either for MECHANICAL DISCHARGE / CONVEYING or PNEUMATIC CONVEYING Depending upon This cyclone collector and DUST COLLECTOR and AIR LOCK is provided For DUSTY and Pungert material reverse Pulse Air Jet Dust Collector and aspiration System is recommended Technical Specification are as under



**TECHNICAL SPECIFICATIONS**

Model	Rotor Dia MM	H.P		Capacity KG / HR.	APP WT. KG	Space Required	
		Main M/c.	Screw Feeder			L X W X H	H 1
PUM SR - 500	480	15	1	200 – 600	600	1410 x 1250 x 1610	1010
PUM SR- 625	625	25	1	400 – 800	1050	1500 x 1400 x 1775	1175
PUM SR- 750	750	50	1	600 – 1000	1400	1600 x 1500 x 1900	1285
PUM SR- 900	900	75	1	800 – 1500	1650	1800 x 1700 x 2100	1510
PUM SR- 1000	1000	100	1	1000 – 2500	1850	1800 x 1800 x 2250	1650

Specification and design are subject to change without notice for any additional improvement