

PRODUCT'S INTRODUCTION



FOCUS ON BASICS.....



Kameyo Systems Pvt. Ltd.

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We at **Kameyo Systems Private Ltd**, (Formerly **Majesty Home Industries**) are manufacturing and developing special laboratory Sample /Specimen preparation Equipments. The company started in 1998 with a vision to design and develop innovative high quality Laboratory Sample Preparation Systems for QC Laboratories in Metallurgical / Mining / Cement / Ceramic / Glass and Pharmaceutical Industry.

The focus has always been to determine the nature of the client's needs, and to understand their requirements – sometimes related to very specific applications.

Vast technical expertise of the founder of the company guided to increase the machine manufacturing to an elaborate range to complete. The equipments designed & supplied by us have gained acknowledgement as reliable supplier from our customers. We are working towards expansion of our customer base and increase the market share. We have supplied our machinery to reputed Labs and testing agencies who are approver and accredited by various government organizations.

Our conscious approach towards the quality of the machineries manufactured helped us gain the confidence and faith of all our customers. The result can be seen with the prestigious list of our valued repeated customers who are renowned in their respective industries.

We are manufacturing machineries required for sample preparation for XRF analysis & Spectrometry. Our star Machinery range includes the following.

- Vibratory Cup Mill / Pulveriser (Manual / Semi-Automatic / Automatic)
- Hydraulic Pelleting Press (Manual / Automatic)
- Jaw Crusher (Mini / Medium / Heavy)
- Sample Preparation Lathe for Non-Ferrous metals & alloys,
- Sample Preparation Milling Machine for Non-Ferrous metals & alloys,
- Spectrographic Sample polishing Machines,
- Spectrographic Sample Cut-Off Machines for different categories / applications,
- Lolly Pop Sample Moulds,
- Planetary Ball Mill
- Raymond Mill / Disc Mill
- Roller Crusher
- Argon Gas Purifier
- Wire Feeder For LRF (Ladle Refining Furnace)
- Hydraulic Pressing units up to 1500 Tons etc.

For Details of each product please go through the following annexures.

We do have a very capable and professional design and quality assurance department which guarantee the best quality and most suitable solution for your general and specific requirements.

We also give solutions and design special purpose / customize systems to suit your specific applications.



We have an elaborate client base all over India, some of the renowned and prestigious clients are listed below:

AMD, Kadappa, Department of Atomic Energy,
AMD, Manuguru, Department of Atomic Energy,
AMD, Bangalore, Department of Atomic Energy,
AMD, jaipur, Department of Atomic Energy,
BHEL (Bharat Heavy Electricals Ltd.)
Bhushan Steel Ltd,
Ceekay Daikin Ltd,
Denso India Ltd,
DGM- Nagpur,
DGM-Raipur
Essar Power M.P. Ltd,
Exidy India Ltd,
Hindustan Zinc Ltd, Vedanta,
Hero Motors Ltd,
Hero MotoCorp. Ltd,
Honda Motor Cycle and Scooters Ltd,
Hindustan Aeronautics Ltd,
International Tractors Ltd,
Jindal Strips Ltd,
Jindal Stainless Ltd,
Jayaswal Neco Ltd,
IFGL Refractories Ltd,
Leader Valves Ltd,
Motor Industries Ltd, Bosch Group,
Maruti Udyog Ltd,
National Metallurgical Lab, Tata Nagar,
NCC Project Ltd, Nellore,
New Holland Tractors Ltd,
Ordnance Factory, Muradnagar,
Ordnance Factory, West Bengal,
Om Besco Rail Products Ltd, Jharkhand,
Opto Electronics Factory, Raipur
Omax Auto Ltd,
Panyam Cement Ltd,
Ramco Cements Ltd,
Rathi Udyog Ltd,
Rana Steels Ltd,
Rico Auto Industries Ltd,
Rockman Cycles Industries Ltd,
SAIL – Durgapur Steel Plant,
SAIL – Salem Steel Plant,
Saint Gobain, Hallol, Gujrat,
Saint Gobain, Bangalore,
Spectro Analytical Labs, New Delhi,
Shri Ram Pistons Ltd,
Shri Ram Cement Ltd,
Star Wire India Ltd,
Sunbeam Auto Ltd,
TATA Steel Ltd, Joda Mines,
TPCIL – Nellore,
Tehri Girders Ltd,
Unitech Machines Ltd,
Upper India Special Castings Ltd,
Zuari Cements Ltd.,
And many Others....



ANNEXURE - 1

Specification of Hydraulic Pellet Press-40Tons (Automatic):



SPECIFICATIONS:-

- Fully Automatic: Digital setting of Compression Force – 5 Tons To 40 Tons,
Digital Setting Of Hold Time – 0 to 300 Seconds
Digital Setting of Intervals of decompression & return back to zero Position,
- *All types of Pelleting is Possible, i.e. Type A, Type B, Type C and the Direct Pelleting,
- Auto Cycles for each Type of Pelleting is provided,
- Automatic Compression, Ejection and Relief,
- Safety interlock and automatic Pump Shut-Off safety valve is provided for safe operation,
- Operation in manual mode for all types of pelletizing is also possible.

*Separate Die set will be required for each type of pelleting.

Technical Specifications:

- | | |
|---------------------------|---|
| ➤ Force Range | : 5 Tons to 40 Tons (Digital Setting) |
| ➤ Hydraulic Ram Speed | : 3.2 mm / Sec (During Compression Stroke)
5.5 mm / Sec (During Return Stroke) |
| ➤ Hydraulic Pump Capacity | : 4LPM @ 250 Bar |
| ➤ Hydraulic Pressure | : 250 Bar Max. |
| ➤ Safe Operating Pressure | : 200 Bar (Digital display of set load & Actual Load) |
| ➤ Power of Hydraulic Pump | : 3HP (For 40 Tons) |
| ➤ Piston Stroke | : 45mm (Or User to Specify) |
| ➤ Fill Height | : 40 mm (Or User to Specify) – For Ring-Less /Cup-Less Pellets, |
| ➤ Power | : 4 Pole, 16 A MCB (3-Phase + Neutral with Earthing),
415 V, AC Motor, 3 HP, 1440 rpm. |
| ➤ Hydraulic Oil | : Grade 68 or Equivalent. |



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ANNEXURE-2

Vibratory Cup Mill-VC-2.065



Technical specifications:

- Capacity of Bowl: 50ML, 100ML, 150ML, 200 ML, 250 ML & 400 ML.
- Input Particle Size: Fine to 8 mm
- Output Size: Upto 300 Mesh, 400 Mesh can also be achieved by given more grinding time.
- Display: Digital, to set time of run, Time Range: 0 to 256 Minutes,
- Clamping of Bowl: Quick & Positive Clamping, no chance of slippage of Bowl during run,
- Door safety interlocking, no operation if door is not closed,
- Emergency Stop Switch provided,
- Unique Design of Mechanism, Surprisingly high speed of grinding,
- Power: 440 Volt, AC, 4 Pole, 6 Amps MCB (3 Phase with neutral + Earthing)
- Motor: 2 HP, 3Phase 415 V, 1415 rpm,



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ANNEXURE - 3

VIBRATORY CUP MILL, MODEL: VC-2.066; Automatic Clamping By German Technology:

The Vibratory Cup Mill consists of a Bowl, a Hammer and a Ring. Grinding is effected by heavy impact and friction.

This Machine is ideal for use in Metallurgical / Mining / Cement / Ceramic / Glass and pharmaceutical Industries / Laboratories for grinding of samples for XRF analysis.



TECHNICAL SPECIFICATIONS:-

- Capacity of Bowl: 50 ML, 100 ML, 150 ML.
- Input Size: Fine to 8mm
- Output Size: Upto 400 Mesh, Depending upon the physical properties of sample, and time given for grinding,
- Clamping Of Bowl: Automatic, German Technology- First Time In India, Fully Safe and Fast,
- Clamping and Un-Clamping by Push Button only, Fast Operation,
- Bowl Set Presence Proximity Sensors,
- Perfect Bowl Clamping Interlocking, No proper Clamp – No Operation,
- Display: Digital, to set Time of run, Time Range: 0 to 256 Minutes
- Door safety Interlocking, No operation if Door is not closed,
- Emergency Stop Switch provided,
- Unique Design, Surprisingly High Speed of Grinding,
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 2 HP, 3 Phase 415 V, 1415 rpm.



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ANNEXURE - 4

VIBRATORY CUP MILL, MODEL: VC-2.067; Manual Clamping & Variable Speed:

The Vibratory Cup Mill consists of a Bowl, a Hammer and a Ring. Grinding is effected by heavy impact and friction.

This Machine is ideal for use in Metallurgical / Mining / Cement / Ceramic / Glass and pharmaceutical Industries / Laboratories for grinding of samples for XRF analysis.

**TECHNICAL SPECIFICATIONS:-**

- Capacity of Bowl: 50 ML, 100 ML, 150 ML.
- Input Size: Fine to 8mm
- Output Size: Upto 400 Mesh, Depending upon the physical properties of sample, and time given for grinding,
- Variable Speed, Step Less, Range: 600 rpm to 1440 rpm, just by rotating a knob,
- Clamping Of Bowl: Manual, Positive Clamp, No Chance of Slip of Bowl Set, during Operation,
- Display: Digital, to set Time of run, Time Range: 0 to 256 Minutes
- Door safety Interlocking, No operation if Door is not closed,
- Emergency Stop Switch provided,
- Unique Design, Surprisingly High Speed of Grinding,
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 2 HP, 3 Phase 415 V, 1415 rpm.



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ANNEXURE - 5**VIBRATORY CUP MILL, MODEL: VC-2.068; Automatic Clamping & Variable Speed:**

The Vibratory Cup Mill consists of a Bowl, a Hammer and a Ring. Grinding is effected by heavy impact and friction.

This Machine is ideal for use in Metallurgical / Mining / Cement / Ceramic / Glass and pharmaceutical Industries / Laboratories for grinding of samples for XRF analysis.



TECHNICAL SPECIFICATIONS:-

- Capacity of Bowl: 50 ML, 100 ML, 150 ML.
- Input Size: Fine to 8mm
- Output Size: Upto 400 Mesh, Depending upon the physical properties of sample, and time given for grinding,
- Variable Speed, Step Less, Range: 600 rpm to 1440 rpm, just by rotating a knob,
- Clamping Of Bowl: Automatic, German Technology- First Time In India, Fully Safe and Fast,
- Clamping and Un-Clamping by Push Button only, Fast Operation,
- Bowl Set Presence Proximity Sensors,
- Perfect Bowl Clamping Interlocking, No proper Clamp – No Operation,
- Display: Digital, to set Time of run, Time Range: 0 to 256 Minutes
- Door safety Interlocking, No operation if Door is not closed,
- Emergency Stop Switch provided,
- Unique Design, Surprisingly High Speed of Grinding,
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 2 HP, 3 Phase 415 V, 1415 rpm.



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ANNEXURE - 6

VIBRATORY CUP MILL, MODEL: VC-3.065; 04 Bowls-in-One Platform

The Vibratory Cup Mill consists of a Bowl, a Hammer and a Ring. Grinding is effected by heavy impact and friction.

For sample which are sensitive to contamination in addition to various types of samples to be ground and analyze simultaneously, we can provide 2/3/4/5 bowl set capacity on one platform.

In our Model VC-3.065 you can load 04 Bowls of 100ML capacity simultaneously.



TECHNICAL SPECIFICATIONS:-

- Capacity of Bowl: 50 ML, 100 ML,
- Input Size: Fine to 6mm
- Output Size: Upto 400 Mesh, Depending upon the physical properties of sample, and time given for grinding,
- Clamping Of Bowls: Manual, All Bowls are clamped by one action, 100% safe Clamping,
- Display: Digital, to set Time of run, Time Range: 0 to 256 Minutes
- Door safety Interlocking, No operation if Door is not closed,
- Emergency Stop Switch provided,
- Unique Design, Surprisingly High Speed of Grinding,
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 2 HP, 3 Phase 415 V, 1415 rpm.

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ANNEXURE - 7

We have designed unique and sturdy jaw crusher best suited for Laboratory use. The crushed material directly comes out through a chute, minimizing the dust contamination of internal parts. An integral blower fan is provided which sucks 50-60% of fine dust helping in minimizing the residual dust contamination.



Kameyo Make Laboratory Jaw Crusher





Gap Adjustment & Gap Indicator

TECHNICAL SPECIFICATIONS:-

1- Jaw Crusher, Mini Master, MJC-40,

Input Size	: 10 to 40 mm (2") Approx.
Ourput Size	: Fine to 3 mm, In first Go only.
Crushing Capacity	: 100 Kg/Hr
Jaw Width	: 96 mm
Hopper Size	: 150 x 150
MOC of Jaws	: D2 (Hardened Steel) Or Tungsten Carbide,
MOC of Cheek Plates	: Hardened Steel,
Gap Of Jaws	: Fixed
Main Motor	: 3 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton)
Suction Motor	: 1/2 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton), No need to purchase separate Vacuum System.

2- Jaw Crusher, Model: MJC-100,

Input Size	: Upto 100 mm (4") Approx. in first Pass, Upto 25 mm in second Pass,
Crushing Capacity	: 200-250 Kg/Hr
Ourput Size	: Fine to 25 mm, In first Pass, Fine to 5 mm in Second Pass,
Hopper size	: 200x200
Jaw Width	: 120 mm
MOC of Jaws	: D2 (Hardened Steel) Or Tungsten Carbide,
MOC of Cheek Plates	: Hardened Steel,
Gap Of Jaws	: Adjustable
Main Motor	: 3 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton)
Suction Motor	: 1/2 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton), No need to purchase separate Vacuum System.



3- Jaw Crusher, Model: MJC-150,

Input Size	: Upto 150 mm (6") Approx. in first Pass, Upto 25 mm in second Pass,
Ourput Size	: Fine to 25 mm, In first Pass, Upto 5 mm in Second Pass,
Crushing Capacity	: 250-300 Kg/Hr (High Range is Also available with bigger Jaw Width.)
Hopper Size	: 260x260
Jaw Width	: 180 mm
MOC of Jaws	: D2 (Hardened Steel) Or Tungsten Carbide,
MOC of Cheek Plates	: Hardened Steel,
Gap Of Jaws	: Adjustable
Main Motor	: 5 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton)
Suction Motor	: 1/2 HP, 3 Phase, Neutral + Earthing, 1440 rpm, 415 V.(ABB / Crompton), No need to purchase separate Vacuum System.

Jaw Crushers with Customized specifications are also available.

Contd..



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ANNEXURE - 8

LABORATORY LATHE FOR FACING OF NON-FERROUS METALS:

Application:

For facing the ferrous & Non-Ferrous material samples for spectrographic analysis.



FEATURES & TECHNICAL SPECIFICATIONS:-

- Maximum size of Sample : Φ 3" x 3"
- Feed: Automatic to obtain a uniform & smooth finish,
- No Residual Center Mark after completion of facing,
- 4-Jaw Chuck; can accommodate square samples also,
- 4-Point insert Tool Holder is provided,
- Spindle Break System is provided for quick stoppage of the Chuck after facing,
- Emergency Stop Switch provided,
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 2 HP, 3 Phase 415 V, 1415 rpm.



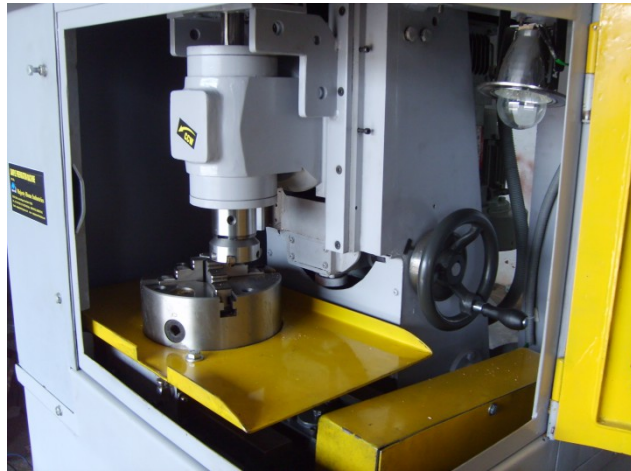
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ANNEXURE - 9

LABORATORY HIGH SPEED MILL FOR MILLING OF NON-FERROUS SPECTROGRAPHIC SAMPLES:

Application:

For fast milling of Non-Ferrous material samples with reproducible surface for emission and X-ray spectrometer analysis.



FEATURES & TECHNICAL SPECIFICATIONS:-

- Compact Machine, fully covered working zone, Halogen Lighting, Container for collection of Chips,
- Automatic Sample feeding, Speed adjustable, Manual depth Setting,
- Fast Operation, 400 to 2880 rpm,
- Max cutting Depth: 2mm
- Cutter Dia: 63 mm
- Sample Size: Max Round: 80 mm, Or Max Edge: 50 x 80 mm, Max Height: 60 mm.
- Power: 440V AC, 4 pole, 6 Amps MCB (3 Phase with Neutral + Earthing)
- Motor: 3 HP, 3 Phase 415 V, 2880 rpm.



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ANNEXURE - 10

SPECTROGRAPHIC SAMPLE POLISHING MACHINE:

Application:

This Machine is required to get flat and Parallel finish on the sample for high precision Spectro-Analysis.



Model-SP-1016



Model-SP-1015

Model – SP-1014: RPM: 1440, Basic Model, Without Suction & Disc Break System.

Model – SP-1015: RPM: 1440, With Air Suction & Dust Collection System and with Disc Brakes.

Model – SP-1016: RPM: 2880, With Air Suction & Dust Collection System and with Disc Brakes.

Model – SP-1017: Double Disc, Separate Motor for each disc, RPM: 1440, With Air Suction & Dust collection system and with separate disc brakes.

General :

Main Motor : 2HP/415V/50HZ/3 ϕ , AC Supply, T.E.F.C. Type ABB / Crompton make,

Air Suction Motor : 1HP/415V/50HZ/3 ϕ /AC Supply, T.E.F.C. Type ABB / Crompton make,

Starters : Push Button Type, with overload preventer – Standard Make

Disc Plates : Made of Steel with air gripping arrangement of polishing paper and Locking system to keep the polishing paper in position.

Polishing Paper Size : 350 mm Dia, 40 mm Bore Diameter and suitable grit,



Disc Cover : Fully Covered with a space open for polishing the sample. The gap between polishing Disc and sample support is kept 2mm; this arrangement makes the air suction more efficient and check the sample from entering the suction system thereby prevents the suction system from damage. The door / Lid is hinge type for changing the polishing paper.

Support:

The support for polishing is provided in the disc cover against which the sample is held while polishing.



Double Disc Sample Polishing Machine

Other Features:

- Robust Design: No Vibration, Noiseless Operation, Specially suitable for Labs,
- Safety Cover made of 6mm thick sheet, to ensure safety of operator,
- Base is made solid, which absorbs all vibrations and there is no need of foundation.



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ANNEXURE - 11

ARGON GAS PURIFIER-MODEL-AGP-1025:

Application:

Rare gases are commonly used to create an inert chemical environment for applications where prohibition of the formation of undesirable molecular species (eg. Oxides, Carbides etc.) in critical applications such as Arc/Spark Optical Emission Spectroscopy for Metal Analysis.

These inert gases are very often stored in compressed or liquefied form in metal containers which are subjected to contamination. Gas will then be dispensed through a regulator which is also subjected to contamination over time. This can greatly affect the validity of test results especially where identification of trace elements is required in rigorous applications. Installing an AGP-1025 Rare Gas Purifier in-line between your gas supply and instrument offers the reassurance of reducing total contaminant levels to 1 VPM or less.

The purifier contains two reactive getter tubes and a molecular sieve drier tube housed in a cabinet for immediate use. Just plug into the local ac power supply, connect the gas and purge the lines, turn on the power and you are up and running.



Model: AGP-1025

Salient Features:

- Fail Safe Design: Offering long term optimum performance and reliability,
- Automatic Thermocouple temperature Control System,
- Output Pressure: 8 Bar
- Band Heater Facility incorporated, allowing in-situ regeneration of the molecular sieve drier tube,
- No high cost thermal fuse, simplifying operation and reducing long term operation cost,
- Stainless Steel Getter Tubes,
- Compared to competitive alternatives long term economy due to low cost of replacement purifier tubes.
- Automatic thermocouple temperature control system with a safety interlock,
- Band Heater facility incorporated.



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ANNEXURE – 12

Planetary Ball Mill:

Majesty make Planetary Ball Mill is designed to crush the material to extremely fine level even down to 5 to 1 Microns, at a very fast rate. It is useful for crushing, grinding and mixing coal, coke, graphite

and geological samples. This is ideal for Laboratory for batch grinding of test samples in dry as well as in suspension from as large as 10 mm particle size down to extreme output fineness.

Working Principle:

A Planetary Ball Mill consists of at least one grinding Vessel which is arranged eccentrically on a sun Wheel / Rotating table.

When the sun wheel rotates about its axis, the vessel follows planetary motion i.e. it rotates about its own axis as well as about the axis of sun wheel. The direction of rotation of vessel is opposite to that of the sun wheel, this imparts very high energy to the balls to collide one another during high speed movements causing very fast grinding and mixing of material(s) in the vessels to a very high fineness up to 1 Micron depending upon the physical characteristics of material, number & size of balls, time and speed selection.



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Technical Details:

Application	: For fine and ultra-fine grinding of soft, Medium, Hard, Brittle, Fibrous, dry or Wet Materials.
Input Size	: Less than 10 mm,

Output Size	: < 1 Micron, depending upon the characteristic of material, No. And size of the Balls, Time & Speed selection.
Rotational Direction	: Interval Operation with direction reversal,
No. of Grinding Station	: 2; 3; 4 Nos.
Speed Ratio	: 1: -2 ; 1: -2.5 ; 1: -3
Sun Wheel Speed	: 50 to 400 RPM
Effective Sun Wheel Dia	: 300 mm
Material of Grinding Elements	: Hardened Steel / Tungsten Carbide
Grinding Jar Sizes	: 50 ml / 80 ml / 100 ml / 150 ml /250 ml / 500 ml
Time Range	: Clock-Wise Run – 0 to 256 Minute (Sun Disc) Anti-Clockwise Run – 0 to 256 Minute (Sun Disc) Interval – 0 to 256 Minute (Rest time before reversal) Pause – 0 to 256 Minute (Rest Time before running Again in the same direction.) Cycles with above combinations can be standardized and stored Into the system.
Safety Interlock	: Provided, Enclosed Chamber
Motor	: Siemen, 2HP, 3 Phase, AC, Controlled through VFD.
Weight & Dimensions	: 275 KG, Floor Mounted, 900 x 600 x 750

ANNEXURE – 12

Raymond Mill / Disc Mill:

For Laboratories, this model is best for fast and efficient primary grinding of samples of brittle materials like Iron and Manganese ores, Quartz, Glass, Granite, Silicates and various minerals for conventional chemical and physical analysis.

Principle of Operation:

The Sample is fed through the Hopper, which enters the grinding zone centrally. Grinding zone is consists of a rotating Disc and a Fixed disc both having grooves, the rotating disc pushes the material against the fixed disc causing heavy friction which causes the material to shear off into fine particle. The ground material comes out due to gravity and Centrifugal force and collected into a tray.

The adjustable small gap between the discs determines the size of the fineness of the grounded material.

Features:

- Dust Proof grinding zone, Silent, neat and clean operation, best suited for Primary Grinding,
- Maximum Feed Size: Up to 05 mm,
- Out Put Size: 200 Mesh – 75 Microns
- Capacity: 50 Kg to 200 Kg per Hour, Depending upon the physical properties of Material,
- Adjustable Range Of Gap: 5 mm to 0.1 mm,
- Overload protection of Motor.

MODEL NO.	FEED SIZE	OUTPUT SIZE	MOC OF DISC	POWER
MDM-200 FIXED SPEED	UP TO 5 MM	UP TO 200 MESH, (75 MICRON)	Hardened Steel - D2	4 Pole, 16 Amp MCB, (3 Phase + Neutral with Earthing) A.C. 50/60 Hz, 440 V, Motor - 2.2 KW (3HP), 1440 RPM
MDM-VS- 200 VARIABLE SPEED	UP TO 5 MM	UP TO 200 MESH, (75 MICRON)	Hardened Steel - D3	2 Pole, 16 Amp MCB, (Single Phase + Neutral with Earthing) A.C. 50/60 Hz, 220 V, Motor - 2.2 KW (3HP), 1440 RPM



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ANNEXURE – 13

Majesty / Kameyo Make Sample Cutting Machine for Irregular Samples:

This Machine is a result of continual design improvement based on the feedback acquired in more than 15 years.

This is ideal for metallurgical Laboratories where irregular and over-sized samples comes for analysis, especially in production environment.

Samples having irregular shapes which are very difficult to hold in a vice can easily be clamped in the T-Slots provided in the rigid platform which is constrained to slide in XY-Direction (On Mutually Perpendicular Guides with respect to the cutter) very conveniently with the help of feeding hand wheels. A vice is also provided with this machine to clamp small and regular shaped samples.

The rotating cutter is fed intermittently by means of a very specially designed Swing-&-Spin mechanism which provides a positive and constant cutting pressure throughout the span of cutting course.

Salient Features:

- **Sample Size:** Edged Samples; 10"x10"x1", **Round Sample:** Dia 40 mm x 12"
- T-Slotted Platform for holding Edged / Irregular Samples,
- XY-Motion of Clamping Platform,
- Coolant Circulation System provided,
- Fully covered Cutting Chamber with visible operation, for safety,



**SPECIAL CUTTING MECHANISM
FOR EFFORT-LESS OPERATION.**



MODEL: SSM-1045



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ANNEXURE – 14

Majesty / Kameyo Make SPECTROGRAPHIC SPECIMEN CUT-OFF MACHINE (SEMI-AUTOMATIC):

Salient Features:

- **Rapid Operation:** High Speed of cutting a sample in less than 40 second,
- **Lower Temperature even at high cutting speed:** No change in metallurgical properties,
- **Air Blast Cooling:** No coolant contamination,
- **Vibration Resistant Structure:** Specially Suitable for Labs,

- **Automatic Sample Clamping & Ejection:** Faster & Effortless Operation,
- **100% Safe:** The cutting zone is fully covered.



For further details please send request for detailed catalogue.



ANNEXURE – 15

Majesty / Kameyo Make WIRE FEEDER / WIRE INJECTOR:

Wire Feeding Machines for Ladle Refining Furnace are developed to inject cored wires like CaSi, Carbon, Sulphur, Boron and Aluminium for following purpose:

- For controlling the shape of inclusion,
- To improve fluidity, castability, and cleanliness,
- To improve cold ductility specially required for wire drawing,
- To control blow holes and improve machineability,

- Desulphurization in steel casting,
- Also wire injection leads to the best Aluminium recovery and less nitrogen.

Capacity:

Solid Wire	: 5mm Min	21mm Max (Heavy Model)
Cored Wire	: 5mm Min	21mm Max
Shape Of Wire	: Round / Square / Rectangular / Polygonal	
Speed Range	: 0 – 300 mtr /Min	
Technique of Feed	: Flipping Coil (Cage)	
Accuracy of Feed	: $\pm 1\%$	
Method of Setting Feed Length	: Digital, in Meter	
Method of Setting Feed Rate	: Digital, in Meter / Minute	
Range of Speed	: 50 to 300 Meters / Minute	

Models:

- 1) **WFA2 - D100:** 2-Strand, Feed Rate: Upto 200 Meter / Minute; For cored wire, with Horizontal Flipping. Wire dia upto 21 mm, Suitable for injection of cored wire in 2 strands simultaneously at a speed range of 50 to 200 Meter / Min. The machine is also suitable for feeding only one wire.

Features:

1. Motor: AC, 9 kW, 1440 rpm, Make: Standard,
2. Motor Control through Variable Frequency Drive (VFD); Make: Standard
3. Further Reduction Through Gear Box.
4. Metering Of Injection Through Encoder; instead of Proxy, For Better Measurement of injected wire.

- 2) **WFA2 - D125:** 2-Strand, Feed Rate: Upto 300 Meter / Minute; For cored & Solid wire, with Horizontal /Vertical Flipping. Wire dia upto 21 mm, Suitable for injection of cored wire / Solid Wire in 2 strands simultaneously at a speed range of 50 to 300 Meter / Min. The machine is also suitable for feeding only one wire.

Features:

1. Motor: AC, 14 kW, 1440 rpm, Make: Standard,
2. Motor Control through Variable Frequency Drive (VFD); Make: Standard
3. Further Reduction Through Gear Box.
4. Metering Of Injection Through Encoder; instead of Proxy, For Better Measurement of injected wire.



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- 3) **WFA4 - D125:** 4-Strand, Feed Rate: Upto 300 Meter / Minute; For cored & Solid wire, with Horizontal /Vertical Flipping. Wire dia upto 21 mm, Suitable for injection of cored wire / Solid Wire in 2 strands simultaneously at a speed range of 50 to 300 Meter / Min. The machine is also suitable for feeding only one wire.

Features:

1. Motor: AC, 18 kW, 1440 rpm, Make: Standard,
2. Motor Control through Variable Frequency Drive (VFD); Make: Standard
3. Further Reduction Through Gear Box.
4. Metering Of Injection Through Encoder; instead of Proxy, For Better Measurement of injected wire.



Majesty Make Wire Injector



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ANNEXURE – 16

LOLLY-POP MOULD:

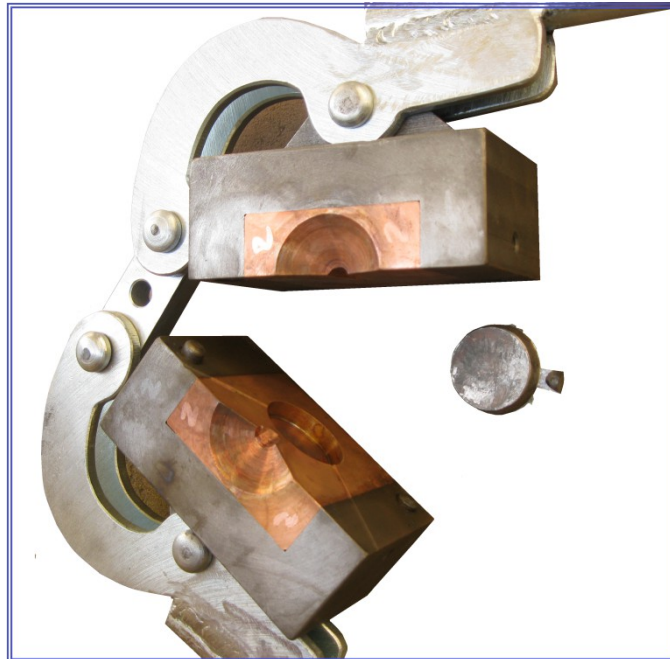
Application:

For making Lolly Pop Samples For Spectrography.

Features:

- Neat and clean casting of sample,
- Cavity made in Copper,

- No chance of damage of mating surfaces by spilling of molten metal,
- Perfect Matching of both halves, ensuring dimensional quality of sample,
- Easy to handle.



Lolly Pop Mould & Sample