



SAIMACH
pharmatech



Product Catalogue

DIES & PUNCHES



** Also Punches & Dies available with Multiple Tips / RS II or any Tablet Press Machine.

RAPID MIXER GRANULATOR



R & D Rapid Mixer Granulator

SALIENT FEATURES :

- * Model is available from 3 liter to 1200 liter working capacity.
- * Fully automatic operation based on PLC control (optional).
- * Better productivity & lesser mixing time.
- * Contact parts are SS 316 / 316L.
- * Uniform mixing & granulation.
- * Less handling. More hygienic.
- * cGMP with documentation.
- * Pneumatically Operated Top Lid & Discharge



Technical Specifications:

| MODEL | SMRMG 10 | SMRMG 25 | SMRMG 50 | SMRMG 100 | SMRMG 150 | SMRMG 250 | SMRMG 400 | SMRMG 600 | SMRMG 800 | SMRMG 1000 | SMRMG 1200 |
|-------------------------------|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Gross Volume Liter | 10 | 25 | 50 | 100 | 150 | 250 | 400 | 600 | 800 | 1000 | 1200 |
| Working Volume Liter | 8 | 20 | 40 | 80 | 120 | 200 | 320 | 480 | 640 | 800 | 960 |
| Mixer Motor (HP) | 1.5 | 3/5 | 4/7.5 | 7.5/10 | 10/15 | 20/30 | 30/40 | 40/50 | 50/60 | 60/75 | 75/100 |
| Chopper Motor (HP) | 1 | 1.5/2 | 2/3 | 2/3 | 3/5 | 3/5 | 5/7.5 | 7.5/10 | 10/15 | 15/25 | 25/30 |
| Compressed Air Pressure (bar) | 6 | 6 | | | | | | | | | |
| Power Supply | 220V, ±10%, 1 Phase, AC 415 V ± 10%, 3 Phase, AC | | | | | | | | | | |



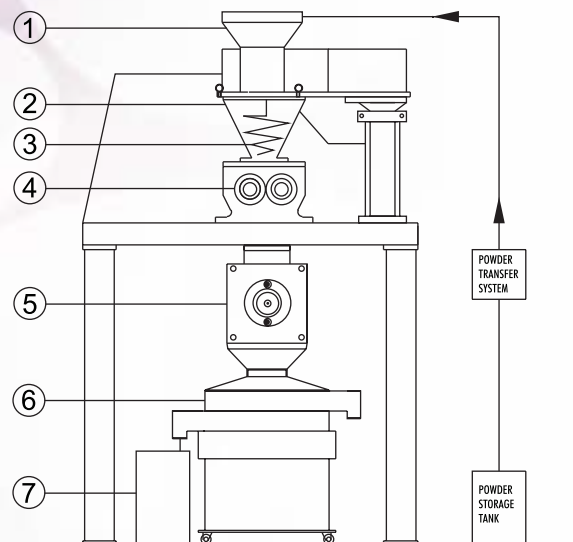
Diamond Knurling



Vertical Corrugated Roller

Also Available Online Roll Compactor...

1. POWDER CHARGING HOPPER
2. POWDER FEEDING HOPPER
3. POWDER FEED SCREW
4. COMPACTING ROLLER
5. GRANULATOR
6. SIFTER
7. STORAGE DRUM



**Also Available with
R & D ROLL COMPACTOR**
100 Dia X 25 (W) WATER JACKETED
Technical Specifications:

| Model | SMRC-100/25 |
|------------------|-------------------|
| Working Capacity | 2 to 5 Kgs./Hour |
| Roll Speed | 2-29 RPM Variable |
| Screw Speed | 5-86 RPM Variable |
| Roller Motor | 1.5 Hp / 3 Phase |
| Feeder Motor | 1 Hp / 3 Phase |

ROLL COMPACTOR cGMP

Plain & Water Jacketted



SALIENT FEATURES :

- ✧ In Compliance with cGMP guidelines.
- ✧ Contact Parts are made of S.S. 316 except rollers.
- ✧ Very compact design available in Plain, Water Jacketed or Flameproof Model.
- ✧ Screw is driven through AC Variable Frequency Drive. Safety slipping clutch between gearbox and feed screw.
- ✧ ELNP (Electroless Nickel Plating) or Hard chrome plated with mirror finished compacting rolls made of tools steel.
- ✧ Rolls drive through twins shaft gearbox with drive unit coupled to it using coupling, which ensures synchronization of the rolls with a steady torque loading.
- ✧ Pre-Compression chamber guides the products to roll without any slippage or leakage.
- ✧ Pre-densifier screw comprises of cylindrical or conical shape, which is well polished and made of AISI SS-316 quality material.
- ✧ The feed screw assembly can be lifted by hand-operated hydraulic pump. This facilitates ease in cleaning.
- ✧ Scraper assembly also designed to dismantle for ease of cleaning.
- ✧ A separate panel board which consist all controls and indicators of the compactor are permanently built in namely, on/off rolls, on/off feed screw, main switch, forward/reverse switch, ammeters for rolls and feed screw and emergency stop to avoid short circuit or fire hazard at the time of cleaning with water.
- ✧ Electrical interlocking between main roll drive and fixed screw drive.
- ✧ Water jacketing arrangement. (optional)
- ✧ Hydraulic power pack system for Rear Roller. (optional)
- ✧ AC Variable frequency drive for Rollers. (optional)

Technical Specifications:

| MODEL | SMRC-200/50 | SMRC-200/75 | SMRC-200/100 | SMRC-200/150 |
|---------------------------------------|--|-----------------------|--|---|
| Output * | 5 to 60 Kgs / hour | 10 to 100 Kgs / hour | 50 to 250 Kgs / hour | 50 to 350 Kgs / hour |
| Roll Size | 200mm Dia X 50 mm (W) | 200mm Dia X 75 mm (W) | 200mm Dia X 100 mm (W) | 200mm Dia X 150 mm (W) |
| Roll Speed (Step Pulley drive) | 6 to 25 RPM | 6 to 25 RPM | 6 to 25 RPM | 6 to 22 RPM |
| Feed Screw Speed (Through A.C. Drive) | 5 to 60 RPM | 5 to 60 RPM | 5 to 60 RPM | 5 to 60 RPM |
| Roll Drive Motor | 5 HP, 960 RPM, 440 V, 3 Phase, 50 Hz, | | 7.5 HP, 960 RPM, 440 V, 3 Phase, 50 Hz, | 10 HP, 960 RPM, 440 V, 3 Phase, 50 Hz, |
| Feed Screw Drive Motor | 3 HP, 1440 RPM, 440 V, 3 Phase, 50 Hz, | | | 5 HP, 1440 RPM, 440 V, 3 Phase, 50 Hz, |

* Depending upon material characteristic & available room atmosphere only.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.

Dia : Diameter / W : Width



Standard



cGMP

SINGLE SIDED ROTARY TABLETING MACHINE cGMP / Standard



SALIENT FEATURES : cGMP

- * In compliance with cGMP guidelines
- * Turret of SG IRON 500/7 Graded Casting
- * Robust with high quality Engineering
- * Small batch production
- * Safe/ Simple to operate and easy to maintain
- * Higher Turret RPM upto 42
- * Main Moter AC Variable Frequency Drive (optional)
- * Force Feeder (optional)
- * Aluminum covers for Turret teeth

Technical Specifications:

| Model | SMD-16 | SMD-20 | SM - 3H - 12 |
|----------------------------|-------------------------|-------------------------|-----------------|
| Tooling | D | D | SPECIAL |
| No. of Station | 16 | 20 | 12 |
| Maximum Operating Pressure | 10 Tons | 10 Tons | 12 Tons |
| Maximum Tablet Diameter | 23 mm (25 mm on Demand) | 23 mm (25 mm on Demand) | 40 mm |
| Maximum Depth of fill | 20 mm | 20 mm | 30 mm |
| Output Tablets /Hour * | 14400 to 40320 | 18000 to 50400 | 10800 & 15840 |
| Electric Motor | 2 Hp / 960 RPM | 2 Hp / 960 RPM | 5 Hp / 1440 RPM |



Main Body

SALIENT FEATURES : Standard

- * Hand wheel provided
- * Turret of SG IRON 500/7 Graded Casting
- * Main Operating Pressure up to 10 Tons (For 12 Station - Up to 12 Tons)
- * Sturdy and easy fit Feed Frame (Gravity Feeder) of Gun Metal
- * Central oil lubrication system with manual hand pump
- * Cam tracks and pressure rolls made out of alloy steel for maximum wear resistance and long life
- * Worm is made of Phosphor Bronze
- * Ease of operation and maintenance
- * Maximum 30 RPM of Turret
- * Variable speed pulley drive (For 12 Station Fixed Pulley with Two different speeds)
- * Mechanical Overload Pressure release arrangement

Technical Specifications:

| Model | SD -16 | SD - 20 | S3SH - 12 Bolus |
|----------------------------|-------------------------|-------------------------|-----------------|
| Tooling | D | D | Special |
| No. of Station | 16 | 20 | 12 |
| Maximum Operating Pressure | 10 Tons | 10 Tons | 12 Tons |
| Maximum Tablet Diameter | 23 mm (25 mm on Demand) | 23 mm (25 mm on Demand) | 40 mm |
| Maximum Depth of fill | 20 mm | 20 mm | 30 mm |
| Output Tablets /Hour * | 14400 to 28800 | 18000 to 36000 | 10800 & 15840 |
| Electric Motor | 2 Hp / 960 RPM | 2 Hp / 960 RPM | 5 Hp / 1440 RPM |

* Depending upon the characteristic of material and shape & size of tablets.



Standard

Also Available with
Bi - Layer (Two Layer)
attachment



cGMP

DOUBLE SIDED ROTARY TABLETING MACHINE cGMP



Main Body

It is a square model/double sided rotary tablet Press / promising unmatched quality for medium batch Production. Safety/enhanced performance/clean ability And ease of operation is its most significant features.

FEATURES :

- * Robust with high quality Engineering
- * Turret of SG IRON 500/7 Graded Casting
- * Medium batch production
- * Maximum output upto 216000 tablets per hour (for 45 Station)
- * Tablets of upto 23 mm Diameter for 'D' Tooling and 16 mm Diameter for 'B' Tooling
- * Safe / Simple to operate and easy to maintain
- * Designed as per cGMP standards

SPECIAL FEATURES :

- * Disc Type Friction Clutch
- * Digital Tablet Counter
- * Gravity feeder (Feed frame)
- * Double Sided Lifting Cams
- * Interlocking at Upper Guard
- * Variable speed pulley.
- * Upper punch penetration system
- * Digital Ampeer meter

OPTIONAL FEATURES :

- * Rotary Feeders
- * Shallow Fill Cams
- * AC Variable Frequency Drive for Main Motor and Force Feeder Motor
- * Auto-Lubrication System
- * Bi - layer Tablet Attachment
- * Die-plate SS 316 L

Technical Specifications:

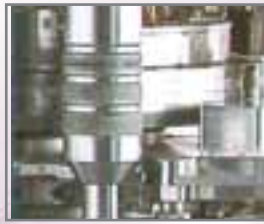
| Type | SMB4 - D - 27 | SMB4 - B - 35 | SMB4 - BB - 45 |
|-----------------------------------|---|-----------------|-----------------|
| No. of station | 27 | 35 | 45 |
| Type of tooling | D | B | BB |
| Output tablets / hour * | 50000 to 129600 | 70000 to 168000 | 90000 to 216000 |
| Maximum operating pressure (main) | 10 Tons | 6.5 Tons | 6.5 Tons |
| Maximum tablet diameter | 23 mm (25 mm on Demand) | 16 mm | 11.1 mm |
| Maximum depth of fill | 20 mm | 17.5 mm | 17.5 mm |
| Upper punch penetration | 3 to 6 mm | | |
| Main electric motor | 3.70 kW / 5hp, 1440 RPM 415 V, 50 Hz., 3Ph. | | |
| Overall dimensions (cm) | 109 X 109 X 182 H | | |
| Case Dimension (cm) | 131 X 137 X 204 H | | |
| Net weight | 1143 kg | | |
| Gross Weight | 1400 kg | | |

* Depending upon the characteristic of material and shape & size of tablets.

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iPRESS II

Also Available with
Bi - Layer (Two Layer)
attachment



i PRESS II**High Speed Rotary Tablet Press cGMP****Features :**

- * High Speed Tablet Press with outstanding engineering, performance and reliability.
- * Turret of SG IRON 500/7 Graded Casting
- * Quality tablet production at high speed.
- * Double Sided Tablet Press in compliance with cGMP Guidelines
- * Higher Output up to 439200 tablets per hour (for 61 Station)
- * Simple and convenient operation, offering operator Protection, cleanliness and ease of maintenance.
- * All the tablet parameters can be fine tuned during the operation of the machine from outside the tableting zone.
- * Three piece Turret with Stainless Steel 316 L Die Plate
- * Gravity Feeding System (Feed Frame)
- * AC Variable Frequency Drive for Main Motor
- * Easy outside controls.
- * AC inverter variable drive for main motor with electro magnetic clutch.
- * Auto lubrication with fine tuning valve and timer.
- * Extremely robust quality engineering, house in an easily accessible cabinet.

Optional Features :

- * Force Feeding System with AC Variable Frequency Drive.
- * Hydraulic Power-Pack System.
- * Bi-Layer (Two layer) Tablet attachment / facility.
- * PLC / HMI System with touch screen display.
- * Auto Tablet rejection during machine START & STOP and Random sampling device.
- * Powder Level monitoring device of the feed hoppers.

Technical Specifications:

| Type | IPD II - 37 | IPB II - 45 | IPBB II - 55 | IPBB II - 61 |
|--------------------------------|--|-----------------|-----------------|-----------------|
| No. of stations | 37 | 45 | 55 | 61 |
| Type of tooling | D | B | BB | BB |
| Output tablets/hour * | 53280 to 266400 | 64800 to 324000 | 79200 to 396000 | 87840 to 439200 |
| Max. operating pressure (main) | 10 Tons | 6.5 Tons | 6.5 Tons | 6.5 Tons |
| Max. tablet diameter | 23 mm (25mm on Demand) | 16 mm | 11.1 mm | 11.1 mm |
| Max. depth of fill | 20 mm | 17 mm | 17 mm | 17 mm |
| Upper punch penetration | 3.2 to 6 mm | 3.2 to 6 mm | 3.2 to 6 mm | 3.2 to 6 mm |
| Power (total) | 7 kW / 9.5 hp | 7 kW / 9.5 hp | 7 kW / 9.5 hp | 7 kW / 9.5 hp |
| Main electric motor | 5.5 kW / 7.5 hp, 1440 RPM, 415 V, 50 Hz, 3Ph | | | |
| Force feeder motor (2 Nos.) | 0.19 kW / 0.25 hp | | | |
| Overall dimensions (cm) | 147 X 140 X 187 H | | | |
| Net weight | 2500 kg | | | |
| Case dimension (cm) | 168 X 183 X 224 H | | | |
| Gross Weight | 2835 kg | | | |

* Depending upon the characteristic of material and shape & size of tablets.

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iPRESS IV

Also Available with
Bi - Layer (Two Layer)
attachment



i PRESS IV

High Speed Rotary



Special Features :

- * In Compliance with cGMP Guidelines
- * Turret of SG IRON 500/7 Graded Casting
- * High Speed Double Sided Rotary Tablet Press with Pre-Compression Facility
- * Maximum Output upto 540000 tablets per hour (for 75 Station)
- * Easy Accessibility for Quick Cleaning and Product Conversion
- * Improved Tablet Quality; Handles Difficult Products Easily due to Pre-Compression Facility
- * Precise Weight Control
- * Ensures Hygienic Production Conditions and Operator Safety
- * All Tablet Parameters can be fine tuned during operations from outside the tableting zone
- * Force Feeding System
- * Hydraulic Power-Pack System
- * Auto Lubrication system
- * Upper punch penetration system
- * Safety interlocking for upper guards
- * Front and Easy Outside Controls for machine and tablet parameters
- * Three Piece Turret with Stainless Steel 316 L die-plate

Optional Features :

- * Tablet Rejection on Machine Start up and Stop and random sampling device
- * Powder Level Sensors at Feed Hopper
- * Tight Punch Detection (Upper Punch)
- * PLC-MMI Control system with Touch Screen display
- * Gravity Feeding System
- * Bi-layer tablet facility
- * Tablet Sampling

Technical Specifications:

| Type | IPD IV - 45 | IPB IV - 55 | IPB IV - 61 | IPBB IV - 75 |
|---|------------------------|-------------------|-------------------|-------------------|
| No. of stations | 45 | 55 | 61 | 75 |
| Type of tooling | D | B | B | BB |
| Output tablets / hours Maximum 60 RPM | 65000 to 325000 | 79000 to 396000 | 87840 to 439200 | 108000 to 540000 |
| Max. operating pressure (main) | 100 kN | 65 kN | 65 kN | 65 kN |
| Max. operating pressure (pre - compression) | 10 kN | 10 kN | 10 kN | 10 kN |
| Max. tablet diameter | 23 mm (25mm on Demand) | 16 mm | 16 mm | 11.1 mm |
| Max. depth of fill | 20 mm | 17 mm | 17 mm | 17 mm |
| Upper punch penetration | 1.5 to 8 mm | 1.5 to 8 mm | 1.5 to 8 mm | 1.5 to 8 mm |
| Power (total) | 8.75 kW / 11 hp | 8.75 kW / 11 hp | 8.75 kW / 11 hp | 8.75 kW / 11 hp |
| Main electric motor | 7.5 kW / 10 hp | 7.5 kW / 10 hp | 7.5 kW / 10 hp | 7.5 kW / 10 hp |
| Force feeder motor (2 Nos.) | 0.19 kW / 0.25 hp | 0.19 kW / 0.25 hp | 0.19 kW / 0.25 hp | 0.19 kW / 0.25 hp |
| Overall dimensions (cm) (Guard Close) | 167 X 178 X 209 H | 167 X 178 X 209 H | 167 X 178 X 209 H | 167 X 178 X 209 H |
| Net weight | 3750 kg | 3750 kg | 3750 kg | 3750 kg |
| Grass Weight | 4100 kg | 4100 kg | 4100 kg | 4100 kg |

* Depending upon the characteristic of material and shape & size of tablets.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.

LAB MODEL TABLET PRESS

Features :

- * Perfect for Research & Development
- * Turret of SG IRON 500/7 Graded Casting
- * High Versatility and Superior through Compact Design
- * Easy compacting of filling depth, tablet thickness & tamping tablet thickness
- * Over load pressure release mechanism
- * Output varied through AC Variable Frequency Drive from the control panel

Technical Specifications:

| Type | LAB - 8 | LAB - 10 | LAB - 12 MT |
|---------------------------------|--------------------|--------------------|--------------------|
| No. of Station | 8 | 10 | 12 |
| Type of tooling | D | B | D,B & BB |
| Output tablets / hour * | 2,000 to 14,400 | 2,000 to 18,000 | 2,000 to 7,200 |
| Maximum Operating Pressure | 6 Ton | 6 Ton | 6 Ton |
| Maximum Operating Pre -Pressure | 1 Ton | 1 Ton | 1 Ton |
| Maximum tablet diameter | 19 mm(23mm caplet) | 16 mm | 19 mm(23mm caplet) |
| Maximum depth of fill | 20.5 mm | 17.5 mm | 20.5 mm |
| Upper punch penetration | 2 to 6 mm | 2 to 6 mm | 2 to 6 mm |
| Power | 2 Hp / 1440 RPM | 2 Hp / 1440 RPM | 2 Hp / 1440 RPM |
| Gross weight (kg) | 400 | 400 | 400 |
| Over all dimensions (mm) | 840 x 635 x 1200 H | 840 x 635 x 1200 H | 840 x 635 x 1200 H |

* Depending upon the characteristic of material and shape & size of tablets.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES,
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LAB MODEL TABLET PRESS



FLUID BED DRYER



R & D FLUID BED DRYER



SALIENT FEATURES

- * Very versatile process equipment.
- * Fully automatic operation based on PLC control. (optional)
- * Minimum handling and more hygienic.
- * Top Mounted telescopic cylinder for auto bag shaking. (optional)
- * Clamp type bottom mesh for container.
- * Capacity available from 2.5 kgs. to 300 kgs.
- * MOC SS 304 / 316 / 316L
- * cGMP with documentation.

Technical Specifications:

| MODEL | SMFBD 15 | SMFBD 30 | SMFBD 60 | SMFBD 120 | SMFBD 200 | SMFBD 300 |
|--|-------------------------------|-------------|-------------|--------------|--------------|--------------|
| Container Gross Volume Liters. | 46 | 71 | 142 | 280 | 475 | 650 |
| Maximum Batch Capacity (0.5bd) Kg. | 10 to 15 | 20 to 30 | 40 to 60 | 80 to 120 | 160 to 200 | 200 to 300 |
| Blower Motor HP** | 5 | 7.5 | 10 | 20 | 25 | 30 |
| Air Flow (CFM) \pm 10% | 430 | 706 | 1060 | 1880 | 2590 | 3235 |
| Steam Consumption (kg /hour) | 30 | 50 | 80 | 140 | 216 | 250 |
| Electric Heater (KW) | 20 | 20 | 36 | 60 | N.A. | N.A. |
| Steam Pressure (kg / cm ²) | 3.5 | | | | | |
| Compressed Air Pressure (bar) | 6 | | | | | |
| Drying temp (°C) | 35-80 | | | | | |
| Power Supply | 415 V, \pm 10%, 3 Phase, AC | | | | | |

** The Blower motor of higher capacity will be required in machine if supplied with HEPA, Scrubber & ducting length above 5 meters.

*** Ducting System is not a part of above Equipment.

FLUID BED DRYER

TABLET DE-DUSTING MACHINE

cGMP

with Brushing Unit

ELEVATING TYPE



Model SM-100



Model SM-200



Model SM-500

COLLOID MILL cGMP

Vertical Model

Horizontal Model



Technical Specifications :

| Model | SMCM - 15 (Vertical) | SMCM - 15 (Horizontal) |
|----------------------------|------------------------|------------------------|
| Output * | 100 to 1500 Liter/hour | 100 to 1500 Liter/hour |
| Particle Size Reduction ** | 5 to 10 Microns. | 5 to 10 Microns. |
| Hopper Capacity | 15 Liter | 15 Liter |
| Motor | 3 Hp / 2850 RPM / 3 Ph | 3 Hp / 2850 RPM / 3 Ph |

* Depending upon viscosity of material. ** Depending upon material.

DUST EXTRACTOR MACHINE

150 CFM



300 CFM



COMMINUTING MILL cGMP

Plain & Water jacketed



MULTI MILL cGMP



OSCILLATING GRANULATOR cGMP



OCTAGONAL BLENDERS

5 Liter to 2500 Liter



Also Available "V" Shape Blenders,
Double Cone Blenders

Co-MILL



SIFTER 30", 36" & 48"



MASS MIXER

5 Kg to 200 Kg



COATING PAN

12" to 48"



PASTE KETTLE



MULTI PURPOSE R & D Equipments

All Purpose Equipments is being used for Research and Development in various types of industries, Colleges & Institutes. It can be widely used for advanced development of Pharmaceutical products, chemical, food stuff, cosmetic industry etc. An array of attachments can be mounted on the Main Drive by a means of flange coupling system for operation like: Dosing, Granulating, Stirring, Coating, Homogenizing, Kneading, Pelletizing, Sieving, Mixing etc.

The entire system is covered/claded with stainless sheet for easy cleaning, maintenance and in compliance with cGMP requirements.

The **Horizontal / Vertical** Main Drive Unit, is completely maintenance free, is equipped with 1 HP (0.75 KW), AC motor. The speed is controlled with AC variable frequency drive and speed reduction gear box. The speed is displayed on digital rpm meter. The process time is auto controlled through timer relays. The various attachments can be quickly attached & interchanged to the Main Drive unit. A separate power supply socket is also provided for the attachments requiring heating.

Horizontal Main Drive



Vertical Main Drive

Technical Specifications

| | |
|-----------------------------|--|
| Input Power | 220/230 V AC, Single Phase |
| Electric Motor | 1 HP AC, 220/230 V,50/60 Hz. |
| AC Variable Frequency Drive | 1 HP/0.75 KW, 220/230 V AC, Single Phase (Input) |



Coating



Pelletizer



Dry Granulator



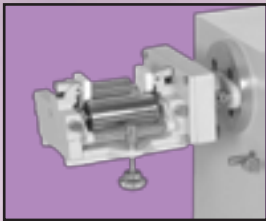
Laboratory Kneader



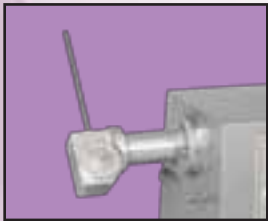
Planetary Mixer



Sieve Shaker



Tripple Roller Mill



Universal Gear

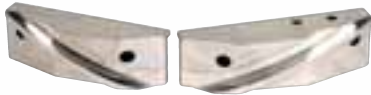


Wet Granulator



Polishing

REPLACEABLE SPARES & TURRETS



SPARES & TURRETS



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