

Manufacturer & Exporter of
Pharmaceutical Machinery,
Spares & Equipment



Primemachinery.in



+91 7574824115/16/17/18



info.primemachinery@gmail.com
info@primemachinery.in



No. 71, Fortune Industrial Park, Kathwada Singarva Road,
Kathwada GIDC, Ahmedabad. Gujarat-382430. INDIA



About Prime Machinery

Prime Machinery always invests in Quality and Innovation.

Prime Machinery is Manufacturer & Exporter of Pharmaceutical Machinery, Spares & Equipment. Prime Machinery has well experienced and very strong technical team in each area. We also deal in Food, Chemical, Cosmetic, Ceramic, Plastic & etc. Prime Machinery provides prompt service for repair of pharmaceutical machine and supplies various spares of pharmaceutical machinery.

Under the guidance of our highly qualified and experienced Team, our company is engaged in manufacturing and supplying premium quality Pharmaceutical Machines. With the help of their vast knowledge in this domain and his skills, we are able to show our best performance and are involved in offering world class machines to our valued clients across the world.

Vision

Our vision is to become **worldwide Prime Manufacturer** of Pharmaceutical Machine and Equipment **with customer satisfaction.**

Quality Policy

We are committed to provide quality product and service at optimum cost and to continually improve the quality management system through TQM approach for ensuring customer satisfaction sustained basis.

Why Prime Machinery?

Due to the assistance of our experienced and capable team members, we are instrumental in providing an extensive collection of products as per the set industry norms. Reasons which have turned up to be the most preference of our valued patrons include:

- Timely Delivery
- Competitive Prices
- Prompt & Best service
- Strict Quality Standards
- Experienced professionals
- Positive Records
- Wide Distribution Network
- Streamlined Business Operation
- Hi-tech Infrastructure



Prime Mini Tablet Press

The **Tablet Press, Mini** in Size and **Single Rotary** is an ideal choice for **R&D** work as well as **small scale production**. It is also used to avoid wastage when high value ingredients are used for tablet formulations, also known as **lab tablet press**.

- ♦ The **Mini tablet press** is designed with GMP Considerations.
- ♦ All Contact parts of the machine is made from **SS 316 Material**.
- ♦ Special Grade Cast Iron is used for **Turret**.
- ♦ Electro Less **Nickel Plating** is provided on Turret to improve life & prevent rusting of turret.
- ♦ **Pre compression** facility as a standard feature.
- ♦ **A.C. variable drive and fixed pulley**. It is driven from central pillar by worm reduction gear box.
- ♦ **Lower guards** of stainless steel & upper guards of transparent acrylic to view tablet compression process of the machine.
- ♦ All upper guard **interlocks** is provided as a safety function.
- ♦ Electronic **Tablet Counting** System is provided
- ♦ **Force feeding attachment** is optional accessories for difficult, fluffy & fine granule compression.
- ♦ Table top, Mobile & easy to clean
- ♦ For Easy operation **outside controls** are given for Pre Compression adjustment, tablet thickness adjustment and turret speed adjustment.
- ♦ **Needle Roller bearing** is provided on bottom side of turret which helps free running of the turret.
- ♦ **Single Phase Preventer** is provided to prevent reverse direction running of the machine.



Machine Type	Mini - 8 D	Mini - 10 D	Mini - 10 B
Model	Mini Press	Mini Press	Mini Press
Number of Stations	8	10	10
Type of Tooling	D	D	B
Output - Tablets/Hr	4800 / 14000	6000 / 18000	6000 / 18000
Turret RPM (Min-Max)	10-30	10-30	10-30
Max. Operating Pressure	60 KN	60 KN	60 KN
Max. Tablet Diameter	22 mm.	22 mm.	16 mm.
Max. Depth of Fill	20.5 mm.	20.5 mm.	20.5 mm.
Upper Punch Penetration	2 to 6 mm.	2 to 6 mm.	2 to 6 mm.
Diameter of Die (mm.)	38.10	38.10	30.15
Diameter of Punch (mm.)	25.34	25.34	18.99
Length of Punch(mm.)	133.6	133.6	133.6
Power	2.0 H.P. x 1440 RPM x 3 Phase x 415 Volts		
Overall Dimensions(mm.)	480 x 670 x 1050 mm		
Net Weight (Kgs.)	400		

Prime Single Side Rotary Tablet Press

- ♦ Single Side Rotary Tablet Press Machine is widely used for small and medium scale batch production.
- ♦ Machine design is as per GMP directives.
- ♦ Contact parts material is SS 316.
- ♦ It is very easy to operate and maintain.
- ♦ Construction of main body structure material is Cast Iron.
- ♦ Changing and Cleaning of Dies & Punches are easy and quick.
- ♦ Machine operation is very easy, smooth and noiseless
- ♦ Upper Punch Penetration is available.
- ♦ Upper Pressure Roller & Lower Pressure roller material is OHNS.
- ♦ Double sided lifting cam is provided to guide upper punches safely.
- ♦ Upper guard is provided as a safety features
- ♦ Reverse direction motion control also available?
- ♦ Lubrication System is provided for lubricating Pressure Rollers.



Optional Accessories :

- ♦ Pre - compression pressure roller
- ♦ AC Variable Drive & Electromagnetic Clutch
- ♦ Force Fedded Attachment
- ♦ PLC Touch Screen

Machine Type	16 D	20 D	26 B
Type of Tooling	D	D	B
Number of Stations	16	20	26
Output ,Tablets/Hr	13500-38400	17000-48000	23400-62400
Turret RPM (Max)	40 RPM	40 RPM	40 RPM
Max. Operating Pressure	100 KN	100 KN	60 KN
Max. Tablet Diameter	25 mm	25 mm	16 mm
Max. Depth of Fill	20.5 mm.	20.5 mm.	17.5 mm.
Upper Punch Penetration	1.5 to 8 mm.	1.5 to 8 mm.	1.5 to 8 mm.
Diameter of Die (mm.)	38.1	38.1	30.15
Diameter of Punch (mm.)	25.34	25.34	18.99
Length of Punch (mm.)	133.6	133.6	133.6
Power	3.0 H.P. x 1440 RPM x 3 Phase x 415 Volts		
Overall Dimensions(mm.)	980 x 1020 x 1820		
Net Weight (Kgs.)	1150		



Prime Double Side Rotary Tablet Press

- ♦ Widely used for large production.
- ♦ Design is as per GMP directives.
- ♦ Turret with SS 316 Middle plate and Electro less Nickel Plating will be provided.
- ♦ Machine is Having C.I. Body and C.I. Middle plate
- ♦ Phosphorous bronze bush is provided inside the turret hole.
- ♦ Pressure Rollers and Cam Tracks are made from Alloy Steels.
- ♦ Upper punch penetration
- ♦ Electronic Digital Tablet cum RPM Counter
- ♦ Inter lock Switches to all Guards.
- ♦ Imported needle roller bearing provided at the bottom of turret.
- ♦ Variable Speed pulley, one shot Lubrication System also available.
- ♦ Reverse direction motion protection is provided to avoid accident.

Optional Parts / Accessories :

- ♦ Force Feeding Attachment
- ♦ Two Layer / Bilayer Tablet Attachment
- ♦ Auto Lubrication Pump
- ♦ The machine is available with AC variable Drive & Electromagnetic Clutch.



Machine Type	27 D	27 B	35 B	45 BB
Number of Stations	27	27	35	45
Type of Tooling	D	B	B	BB
Output - Tablets/Hr	54000 129000	54000 129000	70000 168000	90000 216000
Turret RPM (Max)	40RPM	40RPM	40RPM	40RPM
Max. Operating Pressure	100KN	60KN	60KN	60KN
Max. Tablet Diameter	25mm.	16mm.	16mm.	11.1 mm
Max. Depth of Fill	20.5mm	17.5mm	17.5mm	17.5mm
Upper Punch Penetration	1.5 to 8 mm.	1.5 to 8 mm.	1.5 to 8 mm.	1.5 to 8 mm.
Diameter of Die (mm.)	38.1	30.15	30.15	24.1
Diameter of Punch (mm.)	25.34	18.99	18.99	18.99
Length of Punch (mm.)	133.6	133.6	133.6	133.6
Power	5.0 H.P. x 1440RPM x 3 Phase x 415 Volts			
Overall Dimensions (mm.)	1040x1000x1790			
Net Weight (Kgs.)	1400			

Prime High Speed Rotary Tablet Press Machine



Model	37 D	45 B	55 B	61 BB
No. of station	37	45	55	61
Type of tooling	D	B	B	BB
Output (tablets/Hour*) (maximum)	222000	270000	333000	366000
Max operation pressure (KN)	100	65	65	65
Max. tablet diameter (mm)	25	16	11	11
Max. depth of fill (mm)	20	17	17	17
Upper punch entry - main (mm)	3 to 6			
Power - Total (kW/hp)	6.70 / 9.00			
Main Motor (kW/hp)	5.50/7.50			
Force feeder motor (kW/hp)	0.18/0.25			
Power pack motor (kw/hp)	0.75/1.00 (Optional)			
Electrical Supply	(a) 415V / 3 Phase / 50 Hz			
Overall dimensions L x W x H	144 x 143 x 192 (cm)			
Net weight (kg)	2450 (Approx.)			
Case dimension L x W x H (cm)	167 x 183 x 215			
Gross weight (kg)	2985 (Approx.)			

- ♦ CGMP Machine Most Suitable for large scale production. Force Feeder attachment is a standard feature for higher weight consistency of Tablets.
- ♦ For smooth running of machine, internal helical gear ring and pinion drive are provided.
- ♦ All parameter of table can be control outside of machine ♦ Continuous lubrication system available ♦ Front side Separate Electrical Panel available ♦ Lower Punch seals in Turret.
- ♦ Upper punch penetration ♦ Round Hopper provided with butterfly valve ♦ Upper & lower pressure rolls fitted with ball bearings ♦ Lower guard has Hydraulic gauge



Prime De-Duster & De-Burring Unit



Model	Vibro Type	Elevating Type
Contact Part	SS 316	SS 316
Non-Contact Part	SS-304	SS-304
In Side Finishing.	All Internal Part Mirror Finish.	All Internal Part Mirror Finish.
Out Side Finishing.	All External part Matt / Dull Finish.	All External part Matt / Dull Finish.
Capacity / Hour*	Up to 2,00,000 Tablet / Hr.	Up to 2,50,000 Tablet / Hr.
Max. Dia. of Tablet	25 MM	25 MM
Electric Motor	0.25 HP. / 1440 RPM / 3 Ph.	0.25 HP. / 1440 RPM / 3 Ph.
Brushing Unit.	With Brushing & Without Brushing	With Brushing arrangement.

Prime Dust Extraction System

Model	150 CFM	300 CFM
Electric Motor	1H p / 2800 RPM / 3 PH.	1.5 H p / 2800 RPM / 3 PH.
Filter Area	1.343 Sq. Mtr.	2.40 Sq. Mtr.
Dust Storage Capacity	40 Liters	60 Liters
Suction Capacity	150 & 200 CFM (500 Mtr. Cube / Hr.)	300 CFM
Starter	Start & Stop (DOL)	Start & Stop (DOL)



Prime Vibro Shifter

MODEL	20"	30"	36"	48"	60"	72"
Screens	SS 304 (SS 316 / 136 L Optional)					
	Also Available in Contact Part - SS - 304. Or Non-Contact Part Mild Steel (M.S.) Powder Coated.					
Screen Dia.	500 mm.	750 mm.	914 mm.	1220 mm.	1520 mm.	1820 mm.
Capacity / Hour*	20 to 200 Kg.	30 to 300 Kg.	30 to 325 Kg.	40 to 410 Kg.	60 to 700 Kg.	100 to 1000 Kg.
Discharging height	720 mm.	735 mm.	735 mm.	780 mm.	935 mm.	965 mm.
Electric Motor	0.25 HP / 1440 RPM / 3 Ph.	0.5 HP / 1440 RPM / 3 Ph.	0.5 HP / 1440 RPM / 3 Ph.	1.5 HP / 1440 RPM / 3 Ph.	3.0 HP / 1440 RPM / 3 Ph.	5.0 HP / 1440 RPM / 3 Ph.





Prime Colloid Mill

- ◆ Colloid Mill is widely used to mix liquid homogeneously.
- ◆ All contact parts are made out of SS 316
- ◆ Coupling provided between motor shaft and rotor shaft for ease in maintenance - Vertical Model.
- ◆ Three oil seals between the motor and the processing chamber to prevent liquid going in the motor winding, resulting in the burning of the motor.
- ◆ Extended Bearing Housing specially designed to facilitate fine adjustment of bearing clearances of back lash to avoid metal contact of Rotor in Vertical Model.
- ◆ Special design facilitates adjustment of grinding gap by an exterior screw by means of handle even during operation.
- ◆ Discharge spout provided as a standard for viscous material
- ◆ Contact parts can be easily dismantled for cleaning.



MODEL	Colloid Mill
Output *	12 to 100 Kg/Hour
All Contact Parts	Stainless Steel - 316 / 316 L. (Optional)
All Non-Contact Parts	Stainless Steel - 304 (Optional - M.S.)
Particle size reduction.	5 to 10 Microns.
Hopper capacity	15 - 18 Liters.
Motor	5HP / 2800 RPM / 3 Ph.
Height	1100 mm.
Wheels & Base.	PU-Caster Wheel or anti Vibration Pad.

Prime Multi Mill



MODEL	Multi Mill
Output	50 to 200 kg./Hr.
Rotor Assembly Diameter	250 mm. Approx.
Rotor Speed	790/1500/2330/3000 RPM
Beaters	12 nos. with knife and impact edges and 2 nos. Scraper
Screen Dimension	Inner Diameter 265 mm / Height 140 mm
Motor	2 HP / 1440 RPM
Starter	"DOL" with reversible switch
Material Charging Height	1460 mm
Material discharging Height	760.5 mm

- ◆ All Contact parts of the machine made from SS 304/ SS 316 (Optional) ◆ Design of the machine compliance with GMP Standards. ◆ Ergonomic design & convenient for operation ◆ Beaters & Scraper Blades, Pin and Housing is made from Stainless Steel. Beaters assembly is swing type, dynamically balanced, which reduces vibration and noise level and increases bearing life ◆ 12 nos. Beaters are of knife and impact edges & 2 nos. beaters are of scrapped blades types ◆ Machine can be run in reverse direction also by DOL Starter
- ◆ Cylindrical screen for higher output ◆ Flameproof electrical Motor and Starter is available (Optionally)
- ◆ Castor wheel or PU Material is provided for easy mobility ◆ **S.S.Perforated screen Dia. 0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20 available** ◆ **S.S. Wire Mesh Sieve - 4, 6, 8, 10, 12, 14, 16, 20, 24, 30, 40, 50, 60 Mesh size available.**



Prime Coating Pan Machine



MODEL	30"	36"	48"	60"	72"
Loading Capacity in Kg.	40 to 45	60 to 80	110 to 120	150 to 210	200 to 250
Motor HP	1.5	1.5	2.0	5.0	7.5
Blower HP	0.5	1.0	1.0	2.0	2.0
Blower fan Volume CFM	150	150	150	300	300
Heater Capacity in Kw.	3.0	3.0	3.0	5.0	5.0

Prime Mass Mixture



MODEL	50	100	150	200
Capacity	50 Kg	100 Kg	150 Kg	200 Kg
Over Flow Capacity	110 Litre	220 Litre	330 Litre	440 Litre
Working Capacity	88 Litre	156 Litre	235 Litre	310 Litre
Speed of Stirrer	35 RPM	35 RPM	35 RPM	35 RPM
Electric Motor	3 HP / 3 Phase	5 HP / 3 Phase	7.5 HP / 3 Phase	10 HP / 3 Phase

Prime Ribbon Blender



Model Kgs	Gross Volume LTRS	Working Volume LTRS	Motor H.P.	Discharge Valve	Width mm	Depth mm	Height mm
5	17	10	0.5	4"	800	300	600
10	28	20	0.5	4"	900	350	1000
25	80	50	1	4"	1100	450	1000
50	130	100	1.5	4"	1800	600	1200
100	290	200	3	4"	2000	700	1300
250	320	500	7.5	6"	2500	750	1400
500	1300	1000	10	8"	3000	800	1500
750	1900	1500	150	10"	3500	1000	1600
1000	2500	2000	20	12"	3600	1200	1700

Prime Octagonal Blender



Cap in Kgs	Cap in Ltrs.	Gross Volume	Motor	Discharge Value	Overall dimensions LxWxH
100	300	375	1.5	150	2165 x 1535 x 2585
165	500	600	2	200	2250 x 1800 x 2700
200	600	725	2	200	2300 x 1800 x 2800
250	750	875	3	200	2300 x 1850 x 2800
265	800	950	3	200	2350 x 1000 x 2800
355	1000	1150	5	250	2700 x 2100 x 3050
400	1200	1300	5	250	2800 x 2270 x 3050
500	1500	1700	5	250	2850 x 2525 x 3120
650	2000	2200	7.5	300	2800 x 2800 x 3350

Prime Double Cone Blender



Model	10	25	50	100	150	200	250	300
Capacity/Kg	10	25	50	100	150	200	250	300
Gross Vol	35	80	150	300	450	600	800	900
Volume/Ltrs	10	50	100	200	300	400	500	600
Motor Hp	0.5	1	2	3	5	5	7.5	7.5
Gear Box	1.75"	1.75"	2"	3"	4"	4"	5"	5"
RPM	25RPM	25RPM	30RPM	20RPM	20RPM	20RPM	20RPM	20RPM
Butterfly Valve	NA	NA	NA	200	200	250	250	250
Safety Guard	NA	NA	YES	YES	YES	YES	YES	YES
Discharge Ht	300	300	450	450	450	450	450	450



Fluid Bed Dryer



Model	15 kg	30 kg	60 kg	120 kg	200 kg	300 kg
Container Volume (Lts.)	46	71	142	288	475	650
Batch Size (kg) Min & Max	10 to 15	20 to 30	40 to 60	80 to 120	160 to 200	200 to 300
Blower Motor HP	5	5	10	20	25	30
air Flow (CFM)	429	706	1059	1882	2588	3235
Steam Consumption (Kg/hr)	36	50	72	144	216	250
Steam Pressure (Kg/cm Sq.)				3.5		
Electric Heater (Kw)	20	20	36			
Compressed air Pressure (bar)	6 Bar	6 Bar	6 Bar	6 Bar	6 Bar	6 Bar
Drying Temp.	35°C-80°C	35°C-80°C	35°C-80°C	35°C-80°C	35°C-80°C	35°C-80°C
Electrical Supply	3 Phase & 415v	3 Phase & 415v	3 Phase & 415v	3 Phase & 415v	3 Phase & 415v	3 Phase & 415v

Rapid Mixer Granulator



Model	100	150	250	400	600
Gross Capacity (lts.)	100	150	250	400	600
Working Capacity (lts.)	80	120	200	320	480
Mixer Motor	7.5 HP / 10 HP	10 HP / 15 HP	22.5 HP / 30 HP	35 HP / 40 HP	40 HP / 50 HP
Granulator Motor	2 HP / 3 HP	3 HP / 5 HP	3 HP / 5 HP	5 HP / 7 HP	7.5 HP / 10 HP
Length (cm)	240	240	270	280	295
Width (cm)	210	210	220	240	250
Height (Lid Closed) (cm)	200	200	210	215	220
Net Weight (Approx)	1400 Kg	1600 Kg	1800 Kg	2400 Kg	3000 Kg

Liquid Filling Machine



Machine type: Volumetric & Pneumatic
Semi-Automatic & Automatic
Capacity: 10 ml to 1000 ml

Ointment/ Cream Filling Machine



Machine type: Volumetric & Pneumatic
Semi-Automatic & Automatic
Capacity: 10 ml to 1000 ml

Powder/Auger Filling Machine



Semi-Automatic & Automatic
Capacity: 10 gm to 1000 gm

Tank & Vessel



- ◆ Manufacturing & Storage Tank/Vessels ◆ Homogenizer Tank
- ◆ Stirrer Tank ◆ Agitator tank
- ◆ Any Customized Tank ◆ Storage Bin

Pharmaceutical Spare, Tools & Die Punch



- ◆ Die Puch
- ◆ Turret
- ◆ Turret Teeth Ring
- ◆ Screen of all Machines
- ◆ Feed Frame Assembly
- ◆ Pressure Roll Assembly
- ◆ All Type of Pin
- ◆ Worm
- ◆ Worm shaft
- ◆ Gearbox Assembly
- ◆ Punch Inspection and Polishing Kit
- ◆ Lower Cam track Assembly
- ◆ Upper Track Assembly
- ◆ All other Spare of Pharmaceutical Machinery