

Tablet

GRANULATION



Starch Paste Kettle

Salient features :

- Capacity available 50 Litres to 300 Litres.
- In compliance with cGMP.
- All contact parts are made of SS 316.
- Steam Heated & Thermic oil electric heated facility also available.
- Tilting unit for unloading.

Optional Features:

- Mixing stirrer with VFD control.
- Digital temperature controller and digital timer.

Mass Mixer

Salient features

- Models are available with working volume 50,100 & 200 kgs. At bulk density of 0.50 gms/cc.
- All contact parts are made out of SS 316.
- Compact design & Easy to clean and operate.
- Single stirrer for dry & wet mixing.
- Contact parts are mirror finished & non contact parts are matt finished.
- Safety guards are provided for all moving parts.
- Thrust bearings are provided to carry out rigid thrust load.
- Interlocking system with top dust cover, to avoid accident, during process.
- Tilting system provided for easy unloading of material & cleaning.
- Provision for easy lubrication.
- In compliance with cGMP.



Rapid Mixer Granulator

Salient features

- Models are available with 3 L to 800 L working capacity.
- Fully automatic operation based on PLC control.
- Better productivity with lesser mixing time.
- All Contact parts are SS 316 / 316L.
- Uniform mixing & granulation.
- Requires less man power & more hygienic.
- In compliance with cGMP.





Multi Mill

Salient features

- Output ranges from 50-200 kg\hr.
- Reversible switch provided for changing the direction of beaters.
- Machine is designed for continuous operation.
- Castor wheels provided for mobility.
- Flameproof electrical components (Optional).
- Beaters and scraper blades of S.S. 304/316 material.
- All contact parts can be easily dismantled and cleaned.
- S. S. Perforated Screens: (Optional).
- S. S. Wire Mesh Sieve:(Optional).
- In compliance with cGMP.

Communiting Mill

Salient features

- Output ranges from 50-800 kg\hr with beater speed 1000\2250\4500 R.P.M.
- Side discharge instead of bottom discharge.
- Swing beaters assembly and fixed beaters assembly also available.
- Available in Plain & Water Jacketed model.
- AC variable speed drive for main and screw feeder motors (optional).
- Interlocking system for belt guard, throat hopper and chamber assembly for operator safety.
- Castor Wheel provided for mobility.
- Flameproof electrical components (Optional).
- In compliance with cGMP.



Vibro-Sifter

Salient features

- Models available in 20" & 30".
- Compact Design.
- Faster Separation.
- Double & Triple deck screens with outlet and hopper for bottom deck available on request.
- Lesser Maintenance & Power Consumption than the Conventional Sifter.
- Easy dismantle & clean.
- In compliance with cGMP.



Fluid-Bed-Dryer

Salient features

- Modular Design.
- Uniform Drying with less Drying time.
- Easy Dismantling of Dutch Sieve & Perforated Sheet at the Product container.
- Online Sampling Device.
- Fully Automatic Operation through PLC (Optional).
- Product Container with Stirrer (Optional).
- Flameproof Design (Optional).
- All contact parts are SS 316 / 316 L.
- In compliance with cGMP.

Models	LPTFBD 15	LPTFBD 30	LPTFBD 60	LPTFBD 120	LPTFBD 200	LPTFBD 300	LPTFBD 400	LPTFBD 500	LPTFBD 600
Container Gross Volume Ltr.	46	71	142	280	475	650	870	1055	1350
Max. Batch Capacity (0.5 bd) Kg	10 to 15	20 to 30	40 to 60	80 to 120	160 to 200	200 to 300	300 to 400	400 to 500	500 to 600
Blower Motor HP **	5	7.5	10	20	25	30	40	50	50
Air Flow (CFM) ± 10 %	430	706	1060	1880	2590	3225	3825	4000	4705
Steam Pressure (Kg/cm ²)	3.5 kg./cm ²								
Steam Consumption (Kg/Hr)	30	50	80	140	216	250	288	344	384
Electric Heater (KW)	20	20	36	60	N.A.	N.A.	N.A.	N.A.	N.A.
Compressed Air Pressure (bar)	6								
Drying Temp (°C)	35-80								
	415 V ± 10%, 3 Phase, AC								

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



Roll Compactor

Salient features

- All Contact parts are made of S.S. 316 except rollers.
- All covers are designed to obtain dust-free operation.
- Feed screw is steplessly driven through VFD.
- Compacting rolls made of tools steel with Hard chrome plating & mirror finishing.
- Pre-compaction chamber guides the product to rolls without any trouble.
- Provision of interlocking between main roll drive and feed screw drive.
- Water Jacketing arrangement (optional).
- Hydraulic Power Pack system (optional).
- AC Variable speed Drive for rollers (optional).
- PLC Controller (optional).
- In compliance with cGMP.

MODEL	LPTRC 200/50	LPTRC 200/75	LPTRC 200/100	LPTRC 200/150
Max. Output* (Kg/Hr)	20 to 60	30 to 100	100 to 250	100 to 350
Roll Speed (R.P.M)	6 to 25	6 to 25	6 to 22	6 to 22
Feed Screw Speed (R.P.M)	10 to 60	10 to 60	16 to 50	16 to 50
Roll Drive Motor (3Ø, A.C)	5 HP	5 HP	7.5 HP	10 HP
Feed Screw Drive Motor (3Ø, A.C)	2 HP	2 HP	3 HP	3 HP

* Output depends on the physical & chemical properties of the material to be compacted, the type of the rolls & their speeds etc.

Tray Dryer

Salient features

- Highly effective re-circulating system is provided.
- Uniform design, controlled temperature, sturdy construction & large working space.
- All Contact parts are SS 316 / 316L. and non-contact parts are S.S 304.
- Process timer with digital control panel.
- Flame proof design and motor with FLP Control Panel (optional).
- Digital temperature controller.
- Aluminium/ Polypropylene / Frp/ M.S. galvanized trays available on demand.
- Steam Radiator/Steam accessories available on demand.
- In compliance with cGMP.



MODEL		LPTTD-12	LPTTD-24	LPTTD-48	LPTTD-96
Dimensions in cms	INTERNAL	85x44x85	85x87x85	103x94x184	197x94x184
	EXTERNAL	138 x 54x104	138x95x95	199x103x189	333x103x189
Electric Heaters	120°C	3kw	6kw	9kw	15kw
	200°C	6kw	9kw	15kw	21kw
	300°C	9kw	12kw	18kw	27kw
Blower Motor (H.P)		0.5	1	1.5	2.5
Insulation in mm 100°C/200°C/300°C		50\75\75			
Steam Pressure		3.3kg\cm ²			
Steam Consumption		25 LBS\hr	48 LBS\hr	60 LBS\hr	80 LBS\hr
No. Of Trays		12	24	48	96
Trolley		Fixed	Fixed	One Movable	One Movable



COMPRESSION SECTION

OCTA-Press

Salient features

- Special R&D application .
- Combined Design for "B" & "D" Tooling.
- Machine with Pre-compression.
- Front controls for adjusting weight & pressure.
- Maximum Tablet output upto 19,200 Tab/Hr.
- Operator friendly.
- A.C.Variable speed drive for Force Feeder and main motor.
- Adjustable upper punch penetration.
- PLC Control (Optional).
- In compliance with cGMP.

MODEL	LPTOCTA "B" & "D" TOOLING	LPTOCTA "D" TOOLING	LPTOCTA "B" TOOLING
No. of Stations	4 + 4 = 8	8	8
Tooling	4B / 4D	"D"	"B"
Max. Operating Load	40kn (4 Tons)	40kn (4 Tons)	40kn (4 Tons)
Max. Pre-comp. Load	10 kn (1 Ton)	10kn (1 Ton)	10kn (1 Ton)
Min. Output (Tablets/Hr)	2400	4800	4800
Max. Output (Tablets/Hr)	9600	19200	19200
Max. Tablet Dia (mm)	23 for "D" Tooling 16 for "B" Tooling	23	16
Depth of fill (mm)	17	17	17
Upper punch penetration (mm)	3 to 6	3 to 6	3 to 6
Main electric motor	2HP	2HP	2HP
Feeder electric motor	0.25HP	0.25HP	0.25HP
Total rated power**	2.5 HP, 3 Ø, A.C.	2.5 HP, 3 Ø, A.C.	2.5 HP, 3 Ø, A.C.

**Electric voltage & frequency ratings can be provided as per customer's requirement

HEXA-Press

Salient features

- Output up to 57,960* Tab/Hr (Max).
- Main compression pressure up to 100 kN.
- Higher turret speed up to 42 RPM.
- Variable speed pulley drive.
- Overload pressure release arrangement.
- Interlocking at Upper Guards.
- Dust nozzle with clamp.
- Auto Lubrication (optional).
- Digital counter for total out put.
- In compliance with cGMP.

MODEL	LPTH-12	LPTH-16	LPTH-20	LPTH-23
Tooling	Special	"D"	"D"	"B/D"
No. of Stations	12	16	20	23
Max. Output (Tab/Hr)	15,840	40,320	50,400	57,960
Max. Pressure for compression (Tons)	12	10	10	10
Max. Tablet Dia (mm)	40	25.4	25.4	17.4
Max. Depth of Fill (mm)	30	20	20	17
Main motor	3 HP, 3 Ø, A.C.	2 HP, 3 Ø, A.C.	2 HP, 3 Ø, A.C.	2 HP, 3 Ø, A.C.



BINA Press-GMP Model



Salient features

- Output up to 226800 Tab/Hr (Max).
- Main compression pressure up to 100 kN.
- Higher turret speed up to 42 RPM.
- Variable speed pulley.
- Gravitational feed frame.
- Interlocking at Upper Guards.
- Force feeder with VFD (optional).
- Electro Magnetic clutch (optional).
- PLC system (optional).
- Dust Nozzle with clamp.
- Pressure gauge provided separately on the panel.
- In compliance with cGMP.

MODEL	LPTD3B-27	LPTB3B-27	LPTB3B-35	LPTB3B-45
Tooling	"D"	"B"	"B"	"BB"
No. of Stations	27	27	35	45
Max. Output (Tab/Hr)	136,080	136,080	176,400	226,800
Max. Pressure (Tons)	10 Tons	6.5 Tons	6.5 Tons	6.5 Tons
Max. Tablet Dia (mm)	25 mm	16 mm	16 mm	11 mm
Max. Depth of Fill	20 mm	17 mm	17 mm	17 mm
Main Motor	5 HP, 3 Ø, A.C.	3 HP, 3 Ø, A.C.	3 HP, 3 Ø, A.C.	5 HP, 3 Ø, A.C.
Electricals with A.C. Drive	7.5 HP	5 HP	5 HP	7.5 HP

PRIMA Press-GMP Model

Salient features

- A.C. Drive for main motor with electro-magnetic clutch system.
- Upper punch penetration system.
- Anti vibration mountings are provided.
- Separate control panel.
- Auto lubrication system.
- 3 types of filling cams will be provided.
- PLC system (optional).
- In compliance with cGMP.

Model	LTPD-29	LTPB-37	LTPBB-45
Tooling	"D"	"B"	"BB"
No. of Stations	29	37	45
Max. Output (Tab/Hr)	174,000	222,000	270,000
Max. Pressure	10 Tons	6.5 Tons	6.5 Tons.
Max. Tablet Dia	25 mm	16 mm	11 mm
Max. Depth of Fill	20 mm	17 mm	17 mm
Main Motor	5 HP, 3 Ø, A.C.	5 HP, 3 Ø, A.C.	5 HP, 3 Ø, A.C.
Total Power	5.5 HP, 3 Ø, A.C.	5.5 HP, 3 Ø, A.C.	5.5 HP, 3 Ø, A.C.





PENTA-Press

Salient features

- Machine suitable for large batch production.
- Higher output up to 439,200* Tab/Hr. (Max).
- Hydraulic pressure with hydraulic power pack.
- VFD for main and feeder motors.
- Force feeder drive from the bottom cabinet.
- Front and easy outside controls for machine and tablet parameters.
- Interlocking at Upper Guards.
- Auto lubrication.
- 3 types of filling cams.
- PLC system (optional).
- Hydro-Pneumatic system (optional).
- Electromagnetic clutch.
- In compliance with cGMP.

MODELS	LPTD-37	LPTB-45	LPTBB-55	LPTBB-61
Tooling	"D"	"B"	"BB"	"BB"
No. of Stations	37	45	55	61
Max. Output (Tab/Hr)	222,000	324,000	396 000	439,250
Max. Pressure	10 Tons	6.5 Tons	6.5 Tons	6.5 Tons
Max. Tablet Dia	25 mm	16 mm	11 mm	11 mm
Max. Depth of Fill	20 mm	17 mm	17 mm	17 mm
Main Motor	7.5 HP, 3 Ø, A.C.	7.5 HP, 3 Ø, A.C.	7.5 HP, 3 Ø, A.C.	7.5 HP, 3 Ø, A.C.
Total Power	10 HP, 3 Ø, A.C.	10 HP, 3 Ø, A.C.	10 HP, 3 Ø, A.C.	10 HP, 3 Ø, A.C.

SEPTA-Press

Salient features

- Advanced High Speed Tableting machine for large batch production.
- Higher output up to 583, 200* Tab/Hr. (Max).
- Excellent accessibility for quick cleaning.
- Front control panels.
- Main motor & force feeder motor speed controlled by ACVFD.
- Force feeder drive from bottom.
- Improved tablet quality due to pre-compression system.
- Hydraulic Power Pack system.
- Auto Lubrication.
- Upper punch penetration.
- Safety interlocking for upper guards.
- PLC system (optional).
- SCADA system with computer interface (optional).
- Hydro-Pneumatic system (optional).
- In compliance with cGMP.



MODEL	LPTSD-51	LPTSB-61	LPTSBB-75	LPTSBB-81
Tooling	"D"	"B"	"BB"	"BB"
No. of Stations	51	61	75	81
Max. Output (Tab/Hr)	367,200	439,200	540,000	583,200
Max. Pressure	10 Tons	6.5 Tons	6.5 Tons	6.5 Tons
Pre-Compression	1 Ton	1 Ton	1 Ton	1 Ton
Max. Tablet Dia	25 mm	16 mm	11 mm	11 mm
Max. Depth of Fill	20 mm	17 mm	17 mm	17 mm
Main Motor	12.5 HP, 3 Ø, A.C.	12.5 HP, 3 Ø, A.C.	12.5 HP, 3 Ø, A.C.	12.5 HP, 3 Ø, A.C.
Total Power	15 HP, 3 Ø, A.C.	15 HP, 3 Ø, A.C.	15 HP, 3 Ø, A.C.	15 HP, 3 Ø, A.C.



Dust Extractor

Salient features

- Models are available in 150 & 300 CFM suction capacity.
- All contact parts, inlet manifolds and dust collection trays are S.S.304.
- Blower fan is dynamically balanced.
- Castor wheels provided for easy mobility.
- Dust hazards and cross contamination can be easily avoided in tablet compression machine.
- Minimum wear & tear of tableting machine with improved machine efficiency.
- Four inlet manifolds provided for Tablet Press Machine and De-dusting units.

MODEL	LPTDE-150	LPTDE-300
Suction Capacity	150 CFM	300 CFM
Filtration Area	0.84 m ²	1.34 m ²
Storage Capacity	14 ltrs.	40 ltrs.
Electricals	1 HP, 3 Ø, A.C.	1.5 HP, 3 Ø, A.C.

De Dusting De Burring Machine

Salient features:

- Maximum output 2,00,000 tab/hr.
- Noiseless & Maintenance free unit.
- Easy dismantling for cleaning\sterilization\Change-over.
- Vibrations can be controlled by a simple knob.
- Advanced Tablet conveying route design for easy removal of tablets burrs.
- Machine parts are made of SS 304 \ SS 316 (Optional).
- Adjustable discharge height. (Optional).
- In compliance with cGMP.



Metal Detector

Salient Features

- High speed ferrous \non-ferrous detection & rejection.
- Compact Design & Easy compatibility with all tablet machines.
- Date & Time recording for all sensitivity checks and routine QC checks.
- High sensitivity to all metal including the most difficult non-magnetic stainless steel.
- Built in LED Bar Graph to monitor the amount of contamination.
- Stable operation on mineralised or conductive products.
- Easy change Electronic modules.



Coating Pan

Salient features

- In compliance with cGMP.
- Sanitary design of pan.
- Excellent tablet rolling welded baffle. Detachable baffle also available on request.
- Spraying system with Peristaltic pump and solution tank. (Optional).
- Effective Coating of tablets.
- Adjustable angle of Pan.
- Interchangeable Pans from Higher to lower capacity.

MODEL	LPTCP 18"	LPTCP 30"	LPTCP 36"	LPTCP 42"	LPTCP 48"	LPTCP 60"	LPTCP 72"
Working Capacity (Ltr)	12	40	75	125	200	310	520
Pan RPM (Max.)	28	28	24	24	24	12	10
Inlet Blower (CFM)	200	400	400	500	550	1000	2000
Exhaust Blower (CFM)	400	500	500	700	800	1500	3500
Heater (KW)	3	6	6	9	9	12	21
Main Drive Motor (HP)	1	2	2	3	3	5	7.5
Inlet Blower Motor (HP)	0.75	1	1	1.5	1.5	3	5
Compressed Air (bar)	6						
Power Supply	415 V ± 10 %, 3 Phase, AC						

Punches and Dies

Dies and Punches Specifications:

- Suitable for "D", "B", "BB" and "DB" Tooling.
- Dies and Punches for Hole- Polo Type Tablet & Bolus / Slug Tablet.
- Multi Tip Punches and Dies.
- Nickel plated & Plasma coated Dies and Punches can be provided as per customer requirement.
- Punches & Dies are Made of OHNS - Oil Hardened Non-shrinking Steel/ HCHC – High carbon High chromium steel/ SS440C.

Salient features

- Manufactured under ultra-modern technology (CNC & SPM*) for machining and engraving of masters and punches.
- Uniformity across all punches and dies giving interchangeability between every punch or die within the same set.
- Manufactured under equipment and gauges of international standards to give high dimensional accuracy.
- Punch height measurement using highly accurate programmable height gauge.
- Computerised heat treatment.
- Optimum clearance prevents product loss from lower punches.

Standard

- Dies and Punches as per Euro Standard/ TSM/ IPT Standard

*Special Purpose Machine

**Special Die and Punch inspection and polishing Kits available on request.

