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## **INNOVATIVE 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 productions**. 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 comfortably.
- All upper guard **interlocks** is provided as a safety function.
- Electronic **Tablet Counting** System
- Granules are fed through an open feed frame which ensures trouble free settings and minimum wastage of valuable material.
- 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.



## **INNOVATIVE MINI TABLET PRESS**

**Optional Parts/ Accessories available with the Tablet Press:** 

- Force Feeder Assembly
- SS 316 Non-Contact Parts
- Stand with Drawer (SS 304)

Mini- 8 D	Mini- 10 D	Mini- 10 B		
Mini Press	Mini Press	Mini Press		
8	10	10		
D	D	В		
4800 / 14000	6000 / 18000	6000 / 18000		
10-30	10-30	10-30		
60 KN	60 KN	60 KN		
22 mm.	22 mm.	16 mm.		
20.5 mm.	20.5 mm.	17.5 mm.		
2 to 6 mm.	2 to 6 mm.	2 to 6 mm.		
38.10	38.10 38.10			
25.34	25.34	18.99		
133.6	133.6	133.6		
2.0 H.P. x 1440 RPM x 3 Phase x 415 Volts				
480 x 670 x 1050 mm				
400				
	Mini Press  8  D  4800 / 14000  10-30  60 KN  22 mm.  20.5 mm.  2 to 6 mm.  38.10  25.34  133.6	Mini Press  8 10 D D D 4800 / 14000 6000 / 18000 10-30 10-30 60 KN 60 KN 22 mm. 22 mm. 20.5 mm. 20.5 mm. 2 to 6 mm. 38.10 38.10 25.34 133.6 2.0 H.P. x 1440 RPM x 3 Phase x 41		



## INNOVATIVE SINGLE ROTARY TABLET PRESS

This rotary Tablet press is built as per the GMP directives with total robust construction. This machine is very useful for small to medium batch size production.



- It is square GMP model **Single Rotary Tablet Press**. Operator friendly design, provided with electronic **digital tablet cum RPM counter**. Reverse direction motion protection is also provided for safety purpose.
- Cast iron body and turret of special grade iron casting with CI middle plate, imported needle roller, bearing is provided at the bottom of turret.
- There is not any painted parts in tablet manufacturing zone as all parts are made of stainless steel 304 or gunmetal or of hard chrome plated.
- Upper punch penetration system, variable speed pulley, one shot lubrication system & anti vibrating mount.
- Upper Pressure Roller & Lower pressure roller is made of OHNS material
- Lower guard of polished stainless steel and upper guards of acrylic material. Turret guards has sturdy aluminium frame. All guards are interlocked for safety.
- Provided with double sided lifting cams. Extra hand wheel is provided for easy loading of punch die sets.
- Effective Dust Extraction Nozzles.
- One Shot Lubrication System is provided for lubricating Pressure Rollers.



## **INNOVATIVE SINGLE ROTARY TABLET PRESS**

#### **Optional Parts/ Accessories available with the Tablet Press:**

- (1) Force Feeding Attachment
- (2) A. C. Variable Drive & Electromagnetic Clutch
- (3) Pre-compression pressure roller.
- (4) PLC Touch Screen

Machine Type	16 D	20 D	26 B		
Number of Stations	16	20	26		
Type of Tooling	D	D	В		
Output- Tablets/Hr	13440- 40320	16800- 50400	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.)	38.10	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	3.0 H.P. x 1440 RPM x 3 Phase x 415 Volts				
Overall Dimensions(mm.)	980 x 1020 x 1820				
Net Weight (Kgs.)	1100				



## **INNOVATIVE DOUBLE ROTARY TABLET PRESS**



- Square GMP Model
- Machine is Having C.I. Body and C.I. Middle plate
- Paint free tablet manufacturing zone.
- Upper Guards of transparent acrylic material.
- Lower guards are made from SS 304 material.
- Turret of Special Grade S.G. Iron casting
- Turret with SS 316 Middle plate and Electro less Nickel Plating will be provided (Optional)
- Phosphorous bronze bush is provided inside the turret hole.
- Worm is made from Phosphorous bronze material.
- 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.
- Double Sided lifting cams
- Aluminium Turret Guards
- Effective Dust Extraction Nozzles
- Imported needle roller bearing provided at the bottom of turret.
- Variable Speed pulley, one shot Lubrication System, Anti Vibrating mounts
- Reverse direction motion protection is provided to avoid accident.



## **INNOVATIVE DOUBLE ROTARY TABLET PRESS**

#### **Optional Parts/ Accessories:**

- (1) Force Feeding Attachment(2) Two Layer / Bilayer Tablet Attachment
- (3) Auto Lubrication Pump
- (4) 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	В	В	BB		
Output- Tablets/Hr	54000- 129000	54000- 129000	70000- 168000	90000-216000		
Turret RPM (Max)	40 RPM	40 RPM	40 RPM	40 RPM		
Max. Operating Pressure	100 KN	60 KN	60 KN	60 KN		
Max. Tablet Diameter	25 mm.	16 mm.	16 mm. 16 mm.			
Max. Depth of Fill	20.5 mm.	17.5 mm.	17.5 mm. 17.5 mm.			
<b>Upper Punch Penetration</b>	1.5 to 8 mm.	1.5 to 8 mm.	1.5 to 8 mm.	1.5 to 8 mm		
Diameter of Die(mm.)	38.10	30.15	30.15	24.10		
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 1440 RPM x 3 Phase x 415 Volts					
Overall Dimensions(mm.)	1040 x 1000 x 1790					
Net Weight (Kgs.)		1400	0			



## **INNOVATIVE HIGH SPEED DOUBLE ROTARY TABLET PRESS**



- In Compliance with CGMP Standard
- Higher output suitable for large batch production
- Force feeder attachment is a standard features, So higher weight consistency of Tablets.
- Inter locked guards, for safety
- Internal helical gear ring and pinion drive for smooth running of machine.
- Easily removable bottom driven rotary force feeders
- ACVF Drive for Main motor & also ACVF Drive for Feeder Motors
- Electromagnetic Clutch
- All the tablet parameters can be set from outside of the tableting zone.
- Accumulator Cylinder for pressure loading and overload Release
- Continuous lubrication Pump for Turret Helical Gear & Pinion
- One shot Lubrication pump is provided for lower roll pins
- Lower Punch seals in Turret.
- 3 Types of Filling cams
- Upper punch penetration
- Round Hopper with butter fly valve
- Upper & lower pressure rolls fitted with ball bearings
- Hydraulic gauge is provided on lower guard for easy view
- Separate Electrical Panel on front of machine, which facilitates easy cleaning of Machine.



## INNOVATIVE HIGH SPEED DOUBLE ROTARY TABLET PRESS

ТҮРЕ	37D	45B	55B	61BB	
No. of station	37	45	55	61	
Type of tooling	D	В	В	BB	
Output (Tablets/Hour*)	222000	270000	333000	366000	
	(Maximum)	(Maximum)	(Maximum)	(Maximum)	
Max. operating pressure-Main(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	9.00		
Main Motor (kW/hp)		5.50/7	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 / 3Pł	nase / 50 Hz		
Overall dimensions L x W x H (cm)	144 x 143 x 192				
Net weight(kg)	2500				
Case dimension L x W x H (cm)	167 x 183 x 215				
Gross weight(kg)		283	35		



## **INNOVATIVE DUST EXTRCATION UNIT**



- Provided with stainless steel S.S 304 contact parts
- Blower fan is dynamically balanced.
- Machine in fitted with the castor wheels for easy mobility.
- Overcome dust hazards as well as cross contamination at tablet compression
- All inlet manifolds and dust collection trays are of SS 304
- Four inlet manifolds facilitate to connect any Tablet press machine and two for De-burring units.

#### **Technical Specifications:**

MODEL	AE - Dust Extractor Machine OMP & Standard Model					
Description	150 CFM	300 CFM	500 CFM			
Electric Motor	1H p / 2800 RPM/ 3 PH.	1.5Hp / 2800 RPM/ 3 PH.	2.0Hp / 2800 RPM/ 3 PH.			
Filter Area	1.343. Sq. Mtr.	2.40 sq. Mtr.	4.3o sq. Mtr.			
Dust Storage Capacity	40 Liters	60 Liters	90 Liters			
Suction Capacity	150 & 200 CFM (500 Mtr. Cube/Hr.)	300 CFM (500 Mtr. Cube/Hr.)	\$00 CFM (500 Mtr. Cube/Hr.)			
starter	Star & Stop (DOL)	Star & Stop (DOL)	Star & Stop (DOL)			



## **INNOVATIVE DE-DUSTING & DE-BURRING UNIT**





- GMP model
- All contact parts are easily accessible for washing/sterilization
- Special design tablet paths for effective Dedusting and Deburring of tablets
- Removes fine surface dust and edges without damaging the tablet
- Noise less operation
- Maintenance free and No lubrication required
- Easy to install
- P.U. Castors wheel provided for easy mobility
- Telescopic Design for height adjustment
- Suitable for online application for all types of Tablet Press Machine

#### **Technical Specifications:**

Model	AE-DD-Vibro.	AE-DD-Elevating
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 (Optional Item)	With Brushing arrangement.



## **INNOVATIVE COLLOID MILL**



- All contact parts are made out of SS 304 (SS 316 on demand at extra charges). No casting is
  used for avoiding contamination problems.
- 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.
- Contact parts can be easily dismantled for cleaning.
- Special design facilitates adjustment of grinding gap by an exterior screw by means of handle even during operation.

MODEL	Colloid Mill		
Output *	12 to 1000 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 Litters.		
Motor	5HP / 2800 RPM / 3 Ph.		
Height	1100 mm.		
Wheels & Base.	PU-Castor Wheel or Anti Vibration Pad.		



## **INNOVATIVE MULTI MILL**



- Design of the machine compliance with GMP Standards.
- All Contact parts of the machine is made from SS 304/SS 316 (Optional)
- 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 scrapper 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 of 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, 40, 50, 60 Mesh size available.

#### **Technical Specifications:**

MODEL	AE -MM-200 Multi MIII
Output`	50 to 200 kg./Hr.
Rotor Assembly Diameter	250 mm. Approx.
Rotor Speed	780/1500/2330/3000 RPM
Beaters	12 nos. with knife and impact edges and 2 nos. Scraper
Screen Dimension	Inner Diameter 265 mm/ Height 140 mm
Motor	3 HP / 1440 RPM
Starter	"DOL" with reversible switch
Material Charging Height	1460 mm
Material discharging Height	760 5 mm



## **INNOVATIVE VIRBO SIFTER**



- GMP/STANDARD
- Available in inch (20" / 30" / 36" / 48" / 60" / 72" )different models
- Specially designed hopper.
- Compact vibratory design for high speed & dust free sieving
- Noiseless and Maintenance free machine
- All contact parts and screen made of SS 304 Material.(SS 316 Optional)
- Low power consumption compared to reciprocating vibratory system.
- Easy dismantling and cleaning of contact parts
- Machine available with flame proof and double deck option.
- Machine is fitted with PU Castor wheel for easy movability.

#### **TECHNICAL SPECIFICATIONS:**

MODEL	VSM 20"	VSM 30"	VSM 36"	VSM 48"	VSM 60"	VSM 72"			
Screens	,	SS 304 (SS 316 / 316 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.			
Charging height	800 mm without Lid 1000 mm with Lid	900 mm without Lid 1220 mm with Lid	900 5 mm without Lid 1220 mm with Lid	1000 5 mm without Lid 1350 5 mm with Lid	1100 5 mm without Lid 1420 mm with Lid	1100 5 mm without Lid 1420 mm with Lid			
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.			



## INNOVATIVE TABLET COATING UNIT



- In compliance with cGMP guidelines.
- Also available with Standard Painted Model & for small scale laboratory purpose.
- Conventional Coating Pan with very sturdy M.S structure made of angles & channels which are covered from all the sides by covers & doors.
- The Coating Pan drive is through standard make heavy duty worm reduction gear box & electrical motor by means of belt and pulley drive fitted on a rigid structure. Coating Pan Speed can be changed through variable speed pulley mounted on the shaft of electric motor (AC Variable Frequency Drive Optional with extra cost).
- Coating Pan made of SS 304 / SS 316 or SS 316L material and mirror polished from inside & outside.
- Baffels either welded or detachable (welded are the standard supply if not specified) provided inside the pan considering production requirements.
- Easy mounting arrangement considering changeover of coating / polishing pan.
- Separate mobile Hot Air Blower System is provided for easy operation.
- Digital Temperature Controller provided with necessary temperature control device with interlocking for heater function.

#### **TECHNICAL SPECIFICATIONS:**

MODEL	12"	18"	24"	30"	36"	42"	48"	60"	72"
Loading Capacity in Kg.	05	7 to 8	20 to 25	40 to 45	60 to 80	90 to 100	110 to 120	150 to 210	200 to 250
Motor HP	0.5	0.5	1.0	1.5	1.5	2.0	2.0	5.0	7.5
Blower HP	0.25	0.25	0.5	0.5	1.0	1.0	1.0	2.0	2.0
Blower fan Volume CFM	90	90	150	150	150	150	150	300	300
Heater Capacity in Kw.	1.0	1.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0



# **INNOVATIVE OCTAGONAL BLENDER**



cGMP / GMP & Standarad Model

• Contact Parts : Stainless Steel 316 or 316 L

• Non-Contact Parts : Stainless steel 304 / Cladded or M.S. Powder Coated

• R & D Lab Models : 10 Liter. 20 Liter. 30 Liter.

Pilot scale : 50 Liter. 100 Liter. 200 Liter. 300 Liter.
Commercial Scale : 500 Liter. 1000 Liter. 1200 Liter. 1500 Liter.

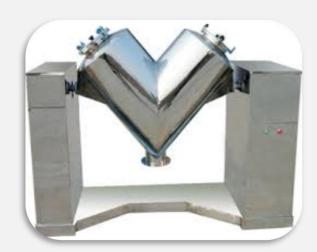
• Heavy Commercial Scale : 2000 Liter. 4000 Liter.

#### **TECHNICAL SPECIFICATIONS:**

Model	AE-OGB- Octagonal Blender - 2000 Liter	AE-OGB- Octagonal Blender – 4000 Liter
Gross Volume	2500 Liters.	4500 Liters.
Working Volume	2000 Liters. (Approx-1100kg.) (Considering 0.5 Bulk Density)	4000 Liters. (Approx-2000kg.) (Considering 0.5 Bulk Density)
All material Contact Parts	Contact Part Stainless Steel-304. (M.O.C.)	Contact Part Stainless Steel-304. (M.O.C.)
All material Non- Contact Parts	Mild Steel.(Color Coated / Powder Coated)	Mild Steel.(Color Coated / Powder Coated)
Motor Capacity & Make	7.5 HP / 15 Kw. (1440 RPM) (CG / BB / KL / Rotomotive)	20.0 HP / 25 Kw. (1440 RPM) (CG / BB / KL / Rotomotive)
Gear Box	8" Ratio. ( Elecon / Premium)	10" Ratio. ( Elecon / Premium)
Blender Cone RPM.	15 RPM Fix. With Chain Drive.	15 RPM Fix. With Chain Drive.
Base Arrangement.	Mild steel color coated.	Mild steel color coated.
Push Button through START / STOP / Main Components Supply / Emergency.		Push Button through START / STOP / Main Supply / Emergency.
Interlock	Railing Limit Switch / Emergency Stop.	Railing Limit Switch / Emergency Stop.
Power Supply	3 Phases. 415 Volt (Client Scope.)	3 Phases. 415 Volt (Client Scope.)



## **INNOVATIVE V BLENDER**



cGMP / GMP & Standard Model

Contact Parts : Stainless Steel 316 or 316 L

Non-Contact Parts : Stainless steel 304 / Cladded or M.S. Powder Coated

• R & D Lab Scale models:

05 Liters.

10 Liters.

20 Liters.

30 Liters.

Pilot Scale Models:

050 Liters.

100 Liters.

200 Liters.

300 Liters.



# **INNOVATIVE DOUBLE CONE BLENDER**



#### **Technical Specifications:**

Model	AE-DCB - 100 Liters	AE-DCB - 250 Liters.	AE-DCB - 500 Liters.	AE-DCB - 800 Liters.			
Gross Volume	170 Liters	280 Liters	590 Liters	920 Liters			
Working Volume	100 Liters ( Consider Bulk Density 0.5gm/cc)	250 Liters (Consider Bulk Density 0.5gm/cc)	500 Liters (Consider Bulk Density 0.5gm/cc)	800 Liters (Consider Bulk Density 0.5gm/cc)			
All Contact Parts	S.S.316						
All Non-Contact Parts	S.S.304 Cladding						
Internal Finish.	220 Grit finish Mirror	220 Grit finish Mirror					
External Finish.	180 Grit finish Matt.						
Blender Shape.	Double Cone Blender						
Motor	1 HP /1440 RPM /415V	2 HP /1440 RPM /415V	5 HP /1440 RPM /415V.	7.5HP /1440 RPM /415V.			
Reduction Gear box	Size – 3"	Size – 3"	Size – 4"	Size – 6"			
RPM of Blender	15 RPM (Fix)						
Internal Baffles	SS- 316/ 316L. (M.O.C	Ç.)					
Discharge valve size.	DIA-200MM. Manually Hand Operated Butterfly Valve. (Optional - Pneumatic Operated Butterfly Valve)						
Gasket	White food Grade						
Electrical controls	DOL Starter. / Push Bu	tton Station for ON / OF	F / INCH. / Digital Timer				

Also available in 5, 10, 20 & 30 Litres.



## **INNOVATIVE STORAGE TANK**



We are the best manufacturer and supplier of SS Pressure Vessels that are used by are clients for various purposes. These vessels are manufactured using premium grade stainless steel and are presented at the best rates in the industry. These are available in market in various sizes as per the requirements of our clients. These are highly appreciated among our clients for their long service life.

#### Features:

- Low cost
- Robustness
- Excellent finish

#### **Specifications:**

- Material: Stainless steel of grade SS304 and SS316
- Size: Client Specific(Customised)