



Manufacturer & Exporter of
Pharmaceutical Machinery & Equipments

COMPANY PROFILE



Innovative Engineering Works is one of the prime manufacturers of Pharmaceutical Machineries in India to meet the global needs of the Pharma industry. The company has built a high reputation as a leading machinery provider for quality products in the pharmaceutical sector.

We have advance manufacturing facility and capacity to develop new products responding to the diverse needs of its domestic and international customers. Apart from Pharmaceutical Machineries we deal in Food, Chocolate & Chemical Industries all over India and worldwide.

Our vision is to empower the technology and customer. We are continuously working to improve productivity and quality of our product.

Innovative Engineering Works have well-experienced team for development, manufacturing, quality control and service. We supply machineries as well as provide service contract for machinery maintenance. We also provide maintenance service, Automation system and up gradation of machines which supplied by other manufacturers to improve productivity and performance.

OUR VISION

Our Vision is to shape the future by Preserving our legacy, discovering new knowledge and utilizing our resources with expertise.

OUR MISSION

We mobilize skill and resources to drive research to development for a cure and to address the challenges of pharmaceutical industries

COMPANY PROFILE



QUALITY

Innovative Engineering Works is a reputed and trusted name in the pharmaceutical machinery manufacturing space.

Our relentless efforts have helped us to maintain high standards of quality associated with our name in the domestic and international market.

We ensure that quality is maintained at each level of the working process, enabling us to offer our wide assortment of products, each of superlative quality.

INFRASTRUCTURE

Having engineered and planned by a team of highly qualified specialists, the company has started out with manufacturing of pharmaceutical machineries. Now, Innovative Engineering Works is equipped with the latest technology.

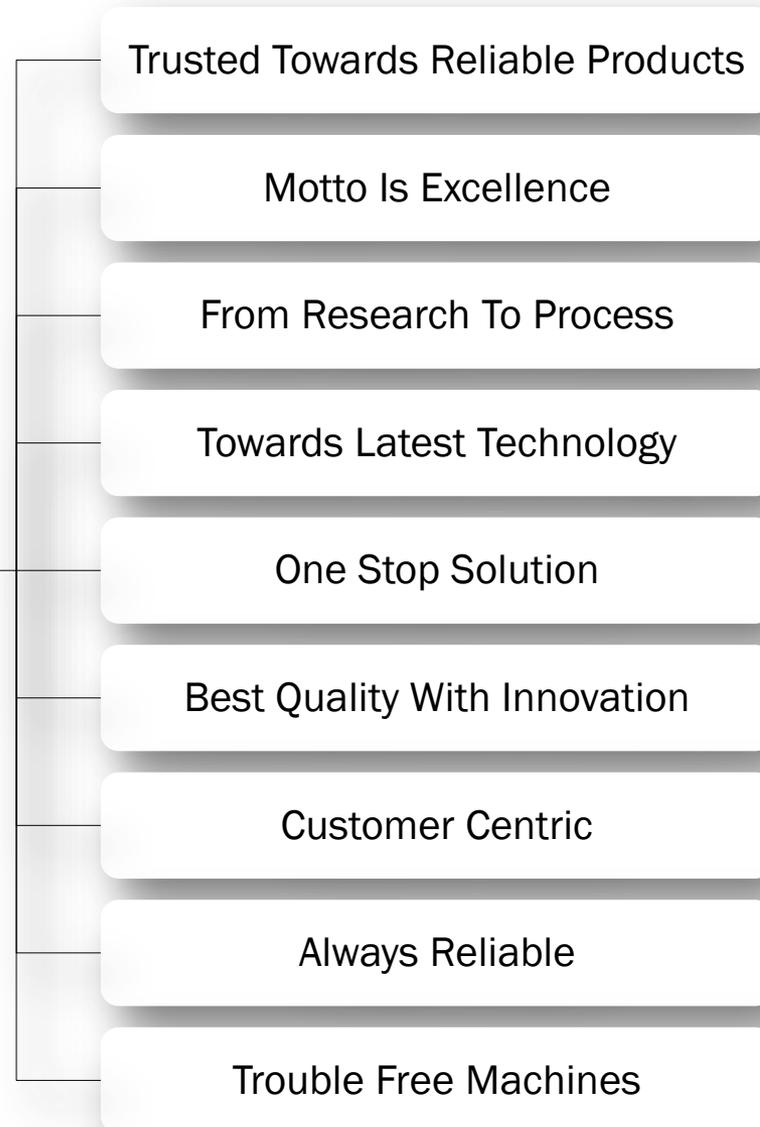
CUSTOMER CARE

Innovative Engineering Works commits to continuous investment in the latest technology and complete adherence to the highest standards of quality, innovation and customer satisfaction.

All components are manufactured under the supervision of highly qualified and technically experienced engineers and carry the assurance of quality.

Our sturdy products can withstand continuous operation for long working hours without any hitch.

WHY SHOULD YOU GO FOR “ IEW “



PRODUCT PORTFOLIO

1. MINI TABLET PRESS
2. SINGLE ROTARY TABLET PRESS
3. DOUBLE ROTARY TABLET PRESS
4. HIGH SPEED DOUBLE ROTARY TABLET PRESS
5. DUST EXTRICATION UNIT
6. DE-DUSTING & DE-BURRING UNIT
7. COLLOID MILL
8. MULTI MILL
9. VIRBO SIFTER
10. TABLET COATING UNIT
11. COATING PAN MACHINE
12. OCTAGONAL BLENDER
13. V BLENDER
14. DOUBLE CONE BLENDER
15. RIBBON BLENDER MACHINE
16. STORAGE TANK

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.

MINI TABLET PRESS

Optional Parts / Accessories:

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

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.	17.5 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		

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 aluminum 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.

SINGLE ROTARY TABLET PRESS

Optional Parts / Accessories :

- 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	B
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		

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
- Aluminum 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.

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	B	B	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.	11.1 mm.
Max. Depth of Fill	20.5 mm.	17.5 mm.	17.5 mm.	17.5 mm
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.)	38.10	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			

HIGH SPEED DOUBLE ROTARY TABLET PRESS



- In Compliance with CGMP Standard
- Higher output suitable for large batch production
- Force feeder attachment is a standard feature, 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 butterfly 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.

HIGH SPEED DOUBLE ROTARY TABLET PRESS

TYPE	37D	45B	55B	61BB
No. of station	37	45	55	61
Type of tooling	D	B	B	BB
Output (Tablets/Hour*)	222000 (Maximum)	270000 (Maximum)	333000 (Maximum)	366000 (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)	6.70/9.00			
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 / 3Phase / 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)	2835			

DUST EXTRICATION UNIT



- Provided with stainless steel S.S 304 contact parts
- Blower fan is dynamically balanced.
- Machine is 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.

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.	4.30 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.)	500 CFM (500 Mtr. Cube/Hr.)
starter	Star & Stop (DOL)	Star & Stop (DOL)	Star & Stop (DOL)

DE-DUSTING & DE-BURRING UNIT



- GMP model
- All contact parts are easily accessible for washing/sterilization
- Special design tablet paths for effective De-dusting and De-burring 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



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.

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 Liters.
Motor	5HP / 2800 RPM / 3 Ph.
Height	1100 mm.
Wheels & Base.	PU-Castor Wheel or Anti Vibration Pad.

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(Optionaly)
- 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.

MODEL	AE -MM-200 Multi Mill
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. Scrapper
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

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.

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.

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.
- Baffles 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.

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

COATING PAN MACHINE

Our Coating Pan Machines widely used for Tablet Coating, Chocolate Coating, Sugar Coating, Flavoring & Mixing in Pharmaceutical, Food & Chocolate Industries.



- In compliance with cGMP guidelines
- Sanitary design of pan
- Excellent tablet rolling welded baffle
- Spraying system with peristaltic pump and solution tank (Optional)
- Quick dismantle & adjustment of spray guns (Optional)
- Effective coating of tablets.
- Interchangeable pans from higher to lower capacity
- Exhaust blower with motor (Optional)
- Coating Machine is available with 12", 24", 30", 36", 42", 48", 60" or 72", size SS Pan. Coating Machine is totally enclosed with MS Cladding with standard Gear Box, Motor, Hot Air Blowing arrangement. Machine is designed with MS fabricated structure and all arrangement – except electric control, air filter and SS Pan are inside the enclosure, which makes simple cleanable outside covering.
- 30", 36", 42" or 48" Coating Machine has variable speed drive and hot air blowing system is built in the machine.
- 60" or 72" Coating Machine has two speeds with step pulley without hot air blowing system. Suitable hot air blowing system can be supplied separately on demand.
- Coating Machines are provided with interlocked electrical circuit so that heaters can be operated only after blowers are made 'ON' to avoid burning of hearts. Coating SS Pan Mouth ring is soldered at their rim cavities to avoid collection of dirt or contaminated drug. Clit standards machine with reduction Gear Box and Motor and all electrical controls are of Siemens or L&T make. Thermostat control can be provided on demand. On customer demand, Gear Box and electrical including motors can be provided local make for economic purpose.

COATING PAN MACHINE

Model	18"	24"	30"	36"	42"	48"	60"	72"
Working Capacity (Ltr)	12	15	40	75	125	200	310	520
Pan RPM (Max.)	28	2	28	24	24	24	12	10
Inlet Blower (CFM)	200	200	400	400	500	550	1000	2000
Exhaust Blower (CFM)	400	400	500	500	700	800	1500	3500
Heater (KW)	3	4	6	6	9	9	12	21
Main Drive Motor(Hp)	1	1	2	2	3	3	5	7.5
Inlet Blower Motor (HP)**	0.5	0.5	1	1	1.5	1.5	3	5
Exhaust Blower Motor (HP)**	1	1	1	1	2	2	5	10
Compressed Air (bar)	6							
Power Supply	415V ± 10%, 3Phase, AC							

OCTAGONAL 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 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.

OCTAGONAL BLENDER

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.
Electrical Components	Push Button through START / STOP / Main 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.)

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.

DOUBLE CONE BLENDER



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			
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.)			
Discharge valve size.	DIA–200MM. Manually Hand Operated Butterfly Valve. (Optional – Pneumatic Operated Butterfly Valve)			
Gasket	White food Grade			
Electrical controls	DOL Starter. / Push Button Station for ON / OFF / INCH. / Digital Timer.			

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

RIBBON BLENDER MACHINE

Our Ribbon Blender Machine is widely used for Tea Blending, Spices Mixing Blending, Powder Mixing, Flavoring, Namkeen Mixing in Food, Pharmaceutical, Chemical and Other Industries.



- Ribbon blenders are widely used for homogeneous mixing of dry granules and powders. The blender comprises a "U" tank, shaft with two sets of spiral ribbons, one inside the other. Inner and outer ribbons are perfectly arranged, that during rotation, the material reaches each corner of the trough and imparts radial and linear motion to the whole of the material to be mixed. Our range of ribbon blenders are based on a proven agitator construction that provides a triple mixing action ensuring fast, efficient blending. As the agitator rotates in ribbon blender, the material is tumbled and carried radially around the inside of the blender. The pitch of the outer ribbon moves the material towards the discharge opening valve inside. The inner ribbon which has an opposing pitch moves the material away from the discharge opening valve inside.
- Ribbon blenders are available in working capacity of 50 liters - 8,000 liters
- Ribbon blender is mounted on supports providing adequate discharge clearance.
- Ribbon blenders are available in different grades of stainless steel 304, 316, mild steel, carbon steel and special alloy steels.
- Standard ribbon blenders are available in centre discharge and also configurable as per requirements
- Ribbon blenders are available centrally located flush bottom discharge.

RIBBON BLENDER MACHINE

- Ribbon blender's top cover depending on the length of the agitator stainless steel surfaces are polished to desired standards.
- All exterior non-stainless surfaces are painted with automotive paints.
- Food and ingredients infant formula, cocoa mix, instant salad dressing, cake mixes, spices, seasonings, flavorings, gelatin. The list of food material in which our blender can speed up mix times and provide consistent uniformity, goes on and on. Variety of feed and discharge arrangements are possible to tailor to your needs. Our blender provide the required uniformity in shorter times which means less dusting and breakage of the ingredients that can cause gastric ulcers in the animals, and bridging of downstream handling equipment. Additionally, by using scrapers or drop bottom discharge, the amount of material left over between batches is minimized, reducing the opportunity for bacterial growth. Slurries the action within ribbon blender is vigorous enough to homogeneously distribute liquid slurries. Special high speed intensifiers can be added to the bottom to help break lumps that may be present. Proper shaft seal design is critical for handling liquids. Shaft seal choices include: mechanical, packing glands and double mechanical glands and double mechanical.

Model Kgs	Gross Volume Liter	Working Volume Liter	Motor Power HP	Discharge Valve	Machine Speed RPM
5	13	10	0.5	4"	20-30
10	25	20	0.5	4"	20-30
25	63	50	1	4"	20-30
50	125	100	1.5	4"	20-30
100	250	200	3	4"	20-25
250	625	500	7.5	6"	20-25
500	1250	1000	10	8"	20-25
750	1875	1500	150	10"	20
1000	2500	2000	20	12"	20

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(Customized)



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