



PHARMACEUTICALS AND FOOD MACHINERY MANUFACTURING

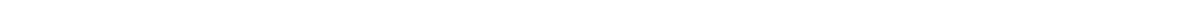


COMPANY PROFILE

Infinity Mactech is a leading manufacturer specializing in advanced machinery for the pharmaceutical and food industries. Established in 2023, we are committed to providing high-quality, innovative solutions that cater to the unique needs of our clients.

Our state-of-the-art equipment is designed to enhance productivity and efficiency across various processes in the pharmaceutical and food sectors.

With a focus on precision engineering and exceptional customer service, Infinity Mactech aims to be a trusted partner in delivering top-tier machinery solutions to industries worldwide.



OUR PRODUCT

3-D TUMBLER MIXER MACHINE

5 KG TO 200 KG



► SALIENT FEATURES

- The Industrial Mixer Machine is an efficient and versatile machine for mixing dry powder and granules homogeneously. All the contact parts made out of stainless steel of required grade by customer. Two third of the volume of the cone blander is filled to ensure proper mixing. It can be used for Pharmaceutical, Food, Chemical, and Cosmetic products etc.
- Maximum care has been taken to ensure safe operation of the unit.
- Suitable size of butter fly valve at one end of the cone provided for material discharge & hole with openable cover provided at other end of the cone for material charging & cleaning.
- Worm reduction gear use for speed reduction.

CONTA BIN BLENDER

10 KG TO 5000 KG



OCTAGONAL BLENDER

10 KG TO 5000 KG



DOUBLE CONE BLENDER

10 KG TO 5000 KG



V-CONE BLENDER

10 KG TO 5000 KG



- Cone will be mirror polished from the inside & outside & structure will be matt polished.
- One shaft with 04 nos of fixed buffels with mirror polished provided inside the cone.
- All moving parts covered with SS304 covers.
- Food grade rubber gasket will be used on both end of cone as well as in butterfly valve.
- As per customer requirement machine will be provided with left side drive or with right side drive.
- The conical shape at both ends enables uniform mixing and easy discharge.

RIBBON BLENDER

10 KG TO 5000 KG



MASS MIXER

10 KG TO 5000 KG



- Manual rotating facility with hand wheel for inching. The same will be provided with ss cover & limit Switch. (200 Kg And Above model)
- Safety guards made from SS304 pipes provided in front of the m/c with limit switch.
- General structure made out of SS304 and Polished to the matt / mirror finish (as required by you) in GPM model.
- All safety guards & covers made out of SS304 in GMP Model.
- Panel fabricated from SS304 material with facility of three phase indication, D.O.L. Starter, Digital timer & Amp. Meter.
- Hand wheel will be provided for manual tilting of cone.
- Safety guards provided with limit switch to not start the machine when safety guards are not in proper position.
- Two nos. of safety road will be provided at back side. (One LH side & one RH side).

ROLL COMPACTOR MACHINE DETAILS

We are one of the pioneering manufacturers of Roll Compactor machines in India. Our Roll Compactor is specifically designed for dry granulation in the pharmaceutical industry. Unlike the time-consuming wet granulation process, which typically requires 5-6 machines to convert powder into granules, the Roll Compactor offers a more efficient solution. It is also used to increase the bulk density of products, which can be achieved in a single pass or in two to three passes, depending on the initial bulk density of the material.

COMPACTATION PRINCIPLE

This machine operates using a dry granulation method. The core principle involves forcing fine powder into a solid compact or sheet. Several factors influence the compaction process, including the roll surface, diameter, peripheral speed, separating force or pressure capabilities, and the feed screw. The use of binders can also be introduced to enhance the processing of the material.

OUR INNOVATIONS

- The compaction roll is engineered to ensure uniform force distribution, resulting in consistent bulk density and high-quality granules after subsequent processing. This ensures that all granules are of equal quality.
- The results can be further optimized by using a larger production-sized machine.
- The compact and portable design allows for easy mobility, making it convenient for testing at any desired location.



► TECHNICAL SPECIFICATION FOR PRODUCTION MODEL

MODEL	IM-RC-200/50	IM-RC 200/75	IM-RC 200/100	IM-RC 200/150	IM-RC 200/200
Output	20 to 60 Kg/Hr.*	75 to 100 Kg/Hr.*	100 to 250 Kg/Hr.*	100 to 350 Kg/Hr.*	150 to 400 Kg/Hr.*
Roll size	Ø 200 mm x 50 mm Width	Ø 200 mm x 75 mm Width	Ø 200 mm x 100 mm Width	Ø 200 mm x 150 mm Width	Ø 200 mm x 200 mm Width
Roll surface (Selection depends upon material characteristics)	Corrugated Plain Knurled Briquetted				
Roll speed (Step pulley drive)	5 to 25 RPM				
Feed screw speed (Through Mechanical Variator)	10 to 60 RPM				
Roll drive Motor	5 HP/ 960 RPM/ 3 Ph	5 HP/ 960 RPM/ 5 Ph	7.5 HP/ 960 RPM/ 3 Ph	10 HP/ 960 RPM/ 3 Ph	10 HP/ 960 RPM/ 3 Ph
Feed screw drive motor	3 HP / 1440 RPM/ 3 Ph	3 HP / 1440 RPM/ 3 Ph	3 HP / 1440 RPM/ 3 Ph	5 HP/ 1440 RPM/ 3 Ph	5 HP/ 1440 RPM/ 3 Ph

► TECHNICAL SPECIFICATION FOR LAB MODEL

Working Capacity	2 to 5 Kg. / Hr.
Roll Speed	2-29 RPM Variable
Screw Speed	5-86 RPM Variable
Roller Motor	1.5 HP / 3 Ph.
Feeder Motor	1 HP / 3 Ph.

► KEY FEATURES

- Fully compliant with GMP guidelines.
- All covers are designed to ensure dust-free operation.
- The feed screw is seamlessly driven by a variable frequency drive.
- Compaction rolls are hard chrome-plated and mirror-finished, made from high-quality tool steel.
- The pre-compaction chamber guides the product to the rolls, preventing slippage or leakage.
- Electrical interlocking system between the main roll drive and feed screw drive for enhanced safety.
- Water jacketing arrangement available as an optional feature.
- Hydraulic power pack system available as an optional feature.
- ACVF drive for rolls available upon request as an optional feature.

OSCILLATING GRANULATOR MACHINE

► SALIENT FEATURES

- Robust and quiet design for smooth operation.
- User-friendly operation and easy maintenance.
- Efficient granule size distribution, with a higher ratio of desired granules.
- Continuous oscillating stirrer drive for consistent performance.
- Simple and effective screen holding and tensioning mechanism.



► TECHNICAL SPECIFICATIONS

MODEL	IM - OC
Hopper capacity	33 Liters
Screen area	388 mm (W) x 762 mm (L)
Stirrer size	Ø 138 mm x 368 mm Length
Oscillation	110 Per Minute.

Output*	30 to 75 Kgs./Hr.
Charging height	1135 + 5 mm
Discharging height	655 + 5 mm
Main Electric Motor	2 HP / 1440 RPM / 3 Ph.

MULTI MILL

► SALIENT FEATURES

- Reversible beater direction
- All contact parts including beaters, scrapper blades and screen is made of SS 316
- Designed for quick and easy dismantling of contact parts for cleaning
- Designed for continuous operation
- Cylindrical screen allows higher productivity
- Castor wheel mounted equipment
- Flame proof electrical (Optional)



CONE MILL



► TECHNICAL SPECIFICATIONS

MODEL	IM MM-250
Output	50-250 Kg/Hr
Rotor Dia	250 mm
Rotor Speed	750/1500/2300/3000 RPM
No. Of Beater	12 knife and impact edges and 2 Scrapper Blades
Screen Dimension	Inner-260 mm
Screen Height	135 mm

MODEL	IM MM-250
Motor	3 HP/1440 RPM/415 C/50 Hz
Starter	"DOL" with reversible switch
Charging Height Approx	1440nm
Discharging Height Approx	730 mm

VIBRO SIFTER

► SALIENT FEATURES

- Noiseless & maintenance free machine for high speed sieving
- Compact & portable foot print
- All contact parts and screen is made of SS 316
- Very less power consumption
- Designed for quick and easy dismantling of contact parts for deaning
- Double & Triple deck options available (Optional)
- Flame proof electrical (Optional)



► TECHNICAL SPECIFICATIONS

MODEL NO.	SCREEN DIA. (MM)	CAPACITY (KG/HOUR)	CHARGING HEIGHT (MM) APPROX	DISCHARGE HEIGHT (MM) APPROX	MOTOR (HP)
IMVS 12"	310	1 to 10	765	510	0.25
IMVS 20"	500	20 to 40	1150	600	0.25
IMVS 30"	750	100 to 200	1270	730 & 880	0.5
IMVS 36"	900	200 to 300	1300	775 & 900	1.0
IMVS 48"	1200	300 to 400	1340	910 & 1065	1.5

INFINITY – POWDER TRANSFER SYSTEM

- INFINITY – Powder Transfer System (IMPTS) is an innovative and advanced solution designed for efficient material handling across various industries, including Pharmaceuticals, Food, Agro-Chemicals, Sugar, and Chemicals. This system is ideal for inline milling, sifting, blending, loading, and unloading applications.
- The INFINITY Vacuum Transfer System is a unique, dust-free dry material transfer solution that eliminates human contact during the transfer process. It offers a safe, efficient, and hygienic way to move materials, ensuring minimal risk of contamination.
- Proven to be more effective than traditional manual handling, the INFINITY system can transfer virtually any material that can be conveyed through a hose or tube. The system consists of a blower, a vacuum receiver with a filter, a cyclone filter, and piping.
- Designed for direct charging of blenders, mixers, sifters, mills, reactors, or any vessel that can withstand a vacuum, the INFINITY Vacuum Transfer System can be configured as a mobile unit. This mobility feature includes a lifting provision, allowing the system to be moved easily between rooms for convenient loading and unloading of machines.



► SALIENT FEATURES

- Complies with GMP, cGMP, and USFDA standards.
- Easy to clean, operate, and maintain with minimal effort.
- Low-cost vacuum transfer process for efficient material handling.
- Compact design with minimal space requirements.
- No tools required for opening and cleaning.
- Suitable for handling capacities ranging from 100 kg to 5000 kg per hour.
- Maximum discharge with minimal product retention.
- Reduced product waste, loss, and risk of contamination.
- Dust-free material transfer in an enclosed environment.
- Quick and smooth transfer of large volumes.
- Contact parts made of stainless steel 304 (SS 316 optional).
- Minimizes product segregation and degradation.
- Vacuum blower and cyclone filter can be installed outside the production area.
- Dynamically balanced blower fan, with castor wheels for mobility.
- Fully automated transfer system with minimal human interference.
- Features timing controls and automatic air blow-back system for filter cleaning.
- Easy cleaning and washing of contact parts.
- Option for inline milling, sifting, and blending with loading to RMG, tablet press, or other vessels.
- Stainless steel inlet manifolds and dust collection trays.
- Castor wheels for ease of mobility.
- Low operational and maintenance costs due to a no-moving-parts design.
- Saves on manpower costs and simplifies material handling.



FLUID BED DRYER / PROCESSOR / COATER

► SALIENT FEATURES

- In compliance with cGMP guidelines
- All contact parts are made of SS 316
- Very accurate temperature control by & 2° C
- PLC based operations with color HMI (Optional for FBD)
- Easy to Dismantle the dutch sleeve & perforated sheet at product container during product change over
- Single pole technology for mixing, drying, granulating and pallet coating (if essential features are taken)
- Inbuilt on line sampling device
- Finger bag lifting and lowering by rod less pneumatic cylinder
- Very precise temperature control for inlet air, product chamber & exhaust air

- All electrical and pneumatic components of reputed brands
- Bottom spraying system-Wooster design (FBC)
- AHU with HEPA filter as a standard feature in FBP (Optional for FBD)
- Wet and dry scrubber (Optional for FBC)
- Flame proof design (Optional)
- Product charging system (Optional)
- WIP system (Optional)
- Inlet & outlet duct (Optional)



Motor HP will change if equipped with softom spraying system, HEPA or scrubber and ducting length above 5 meter



► TECHNICAL SPECIFICATIONS

MODEL	FBD /P/C-30	FBD /P/C-60	FBD /P/C-120	FBD /P/C-150	FBD /P/C-200	FBD /P/C-250	FBD /P/C-300	FBD /P/C-400	FBD /P/C-500	FBD /P/C-600
Working Capacity in Liters	90	170	290	350	475	575	675	900	1110	1330
Max. Working Volume in Liters	60	120	240	300	400	500	600	800	1000	1200
Batch Size (kg) Min. & Max.	12-30	24-60	46-120	60-150	80-200	100-250	120-300	160-400	200-500	240-600
Blower Motor (HP)	7.5	12.5	25	25	30	30	40	50	50	60
Air Flow (CFM)	750	1100	1900	2000	2588	2700	3235	3824	4412	5500
Air Flow (m³/hr)	1275	1870	3230	3400	4400	4590	5500	6500	7500	9350
Steam Pressure (kg/cm sq.)	3.5									
Steam Consumption (kg/hr)	90	130	150	186	216	244	344	344	344	344
Electrical Heater (kW)	20	36	Na							
Atomization Air Pressure For FBP) 35 CFM						2-4 Bar				
Number of Spray Nozzles	1	1	3	3	5	5	6	6	7	7
Spray Nozzle Port	2	2	3	3	3	3	3	4	4	4
Compressed air Pressure (bar)(30 CPM)	7	7	7	7	7	7	7	7	7	7
Drying Temp. (°C)					30-80°C					
Electrical supply					3Ph. AC					

RAPID MIXER GRANULATOR

► SALIENT FEATURES

- In compliance with CGMP Guidelines.
- PLC based operations with color HMI (Optional)
- All contact parts are made of SS 316
- Variable frequency drives for both motors (Optional)
- Pneumatic product discharge
- In-line co-mill (Optional)
- Perfectly engineered mixer & chopper for uniform and homogeneous mixing of substances.
- Flame proof electrical (Optional)
- Pneumatic lead opening
- Shorter mixing and granulating time
- Binder spraying system (Optional)
- Designed for optimum use of bowl capacity
- WIP/CIP system (Optional)
- Effective sealing for leak proof operation
- Easy to clean & maintain
- Mechanical seal for chopper and impeller motor (Optional)



► TECHNICAL SPECIFICATIONS

MODEL	GROSS CAPACITY	WORKING CAPACITY	BATCH CAPACITY	MAIN MOTOR HP (750-1500 RPM)	CHOPPER MOTOR HP (1500-2880 RPM)	GEAR BOX RATIO
RMG-50	50 Liters	40 Liters	10-20 Kg	5 HP /7.5 HP	2.0 HP/3.0 HP	5:1
RMG-100	100 Liters	80 Liters	20-40 Kg	7.5 HP/10 HP	2.0 HP/3.0 HP	7.5:1
RMG-150	150 Liters	120 Liters	30-60 Kg	10 HP/15 HP	3.0 HP/5.0 HP	7.5:1
RMG-250	250 Liters	200 Liters	50-100 Kg	22.5 HP/30 HP	3.0 HP/5.0 HP	10:1
RMG-300	300 Liters	240 Liters	60-120 Kg	22.7 HP/30 HP	3.0 HP/5.0 HP	10:1
RMG-400	400 Liters	320 Liters	80-160 Kg	35 HP/40 HP	5.0 HP/7.5 HP	10:1
RMG-600	600 Liters	480 Liters	120-240 Kg	40 HP/50 HP	5.0 HP/7.5 HP	10:1
RMG-700	700 Liters	560 Liters	140-280 Kg	40 HP/50 HP	7.5 HP/10.0 HP	10:1
RMG-800	800 Liters	640 Liters	160-320 Kg	50 HP/60 HP	7.5 HP/10.0 HP	15:1
RMG-1000	1000 Liters	800 Liters	200-400 Kg	60 HP/90 HP	10.5 HP/15.0 HP	15:1
RMG-1200	1200 Liters	960 Liters	240-480 Kg	80 HP/100 HP	10.5 HP/15.0 HP	15:1

LAB COATER WITH CHANGEABLE PAN

► SALIENT FEATURES

- In compliance with CGMP Guidelines
- All contact parts SS 316
- Ergonomically designed compact foot print
- Easy to clean and maintain
- PLC based operation with color HMI
- Interchangeable pans to accommodate smallest test batch
- WIP system (Optional)
- Easy front loading and un loading
- In built process Air Handling System with HEPA filter
- Highly efficient non chocking type spray guns
- Automatic controlled process parameters
- Spraying interlocked with pan rotation & blower functions
- High efficient solution dosing system with peristaltic pump
- Variable frequency drive for blowers to control air quantum.



► TECHNICAL SPECIFICATIONS

MODEL	LAB Coater 18"/12"/8"
Working Capacity (Kg)	2-5/0.5-1.5/0.5-0.9
Pan Diameter (mm)	450/305/205
Pan Mouth Diameter	250/150
Pan Speed (RPM)	2-18
Main Drive Motor (HP)	1
Inlet Blower Motor (HP)	1
Exhaust Blower Motor (HP)	1
Inlet Blower Capacity (CFM)	300
Exhaust Blower Capacity (CFM)	350
Electrical Heater (KW)	6
Compressed Air (CFM at 6bar)	20
In case of Steam Heater instead of Electric Heater	
Steam Consumption (Kg/Hour)	50
Steam Pressure (Kg/Cm ²)	3.5



INFINITY
MACTECH

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