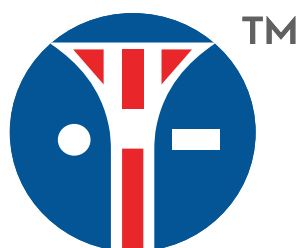




Serving From 6 Manufacturing Units Across India

Gujarat - 2 units, Mumbai - 2 units, Vizag & Hyderabad

Product Catalogue



ADVANCED EXPERTISE TECHNOLOGY PVT. LTD.

Manufacturer of Pharma/Chemical Equipment
Fluoropolymer Coating & Lining (Rotolining)

WWW.ADVETPL.COM





From the founder’s desk - Mr. M.H. CHOUDHARY

Advanced Expertise Technology Pvt Ltd (AETPL), established in 2004 and headquartered in Mumbai, India, is a leading provider of high-precision industrial solutions specializing in the pharmaceutical, chemical, and allied sectors. With over a decade of experience, AETPL combines advanced technology, skilled engineering, and innovative methodologies to deliver customized solutions that meet the highest quality standards.

AETPL's core competencies include:

Fluoropolymer Coatings & Linings: Specialized in HALAR, PVDF, ETFE, PFA, PTFE coatings for equipment such as Reaction vessels, dryers, valves, filters, and agitators, ensuring corrosion resistance and enhanced equipment longevity.

Pharmaceutical & Process Machinery: Design, supply, and maintenance of machinery like Nutsche filters, centrifuges, dryers, and mixers tailored for process efficiency and compliance with regulatory standards.

Various types of Custom Engineering Solutions: End-to-end project management from conceptual design to installation, with a focus on quality, safety, and regulatory compliance.

Our Mission:

To provide technologically advanced, durable, and cost-effective solutions that empower industries to operate efficiently and sustainably.

Our Vision:

To be recognized as a trusted partner in industrial engineering solutions, delivering innovation, reliability, and excellence in every project.

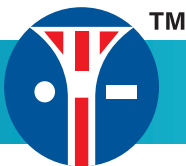
Geographical Presence:

AETPL operates across India via 6 Manufacturing Units with facilities and service capabilities in Mumbai, Gujarat (Valsad), Chennai, Hyderabad, and Vizag, providing timely and localized support to its clients.

Why Choose AETPL?

- Over a decade of industry experience
- Expertise in high-performance coatings and machinery
- Committed to quality, safety, and regulatory compliance
- Customized solutions tailored to client requirements

Industries Catered & Technical Capabilities



Industries we cater:

Pharmaceutical API & Formulation

Pigments & Dyes

Chemical

Cosmetics

Pesticide

Food & Spices

Semiconductor

OUR TECHNICAL CAPABILITIES



ISO certified
CE
ATEX



Curated designs as required



In-house Fabrication facility & HALAR/ ETFE/ PFA/ FEP/ PVDF/ PP Coating & Roto Lining facility run by a skilled team.



Largest coating facilities in India with all required FDA/USDA/NSF certification approved



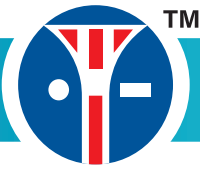
Specially dedicated team of Service Engineers with vast experience on Erection, Commissioning and Troubleshooting.



Expert Material flow handling and supply chain management team for sourcing and delivering



Design backed up by qualified Mechanical Engineers, Chemical Engineers, Process Engineers, Electrical & PLC Programmers and 24x7 Service Engineers.



FLUOROPOLYMER COATING

- 1 HALAR (ECTFE)
- 2 PERFLUOROALKOXY ALKANE (PFA)
- 3 ETFE / PTFE / TEFZEL
- 4 POLYPROPYLENE (PP)
- 5 POLYVINYLIDENE FLUORIDE (PVDF)
- 6 PEEK

HEAVY EQUIPMENT

- 1 PRESSURE VESSEL REACTOR
- 2 STORAGE TANK
- 3 RECEIVERS
- 4 HEAT EXCHANGER
- 5 DISTILLATION COLUMN

FILTER EQUIPMENT

- 1 SPARKLER FILTER
- 2 PRESSURE NUTSCHE FILTER
- 3 ALL TYPES OF CENTRIFUGE
- 4 CARTRIDGE/BASKET/DUPLEX FILTER
- 5 LEAF FILTER
- 6 ROBO FILTER

FORMULATION EQUIPMENT

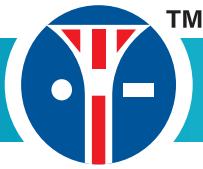
- 1 OINTMENT & CREAM MANUFACTURING PLANT
- 2 VIBRO SIFTER
- 3 MILTIMILL
- 4 RIBBON BLENDER
- 5 OCTAGONAL BLENDER
- 6 DOUBLE CONE BLENDER

DRYING EQUIPMENT

- 1 ROTARY CONE VACUUM DRYER (RCVD)
- 2 AIR TRAY DRYER (ATD)
- 3 VACUUM TRAY DRYER (VTD)
- 4 AGITATED NUTSCHE FILTER DRYER (ANFD)
- 5 FLUID BED DRYER (FBD)
- 6 ROTARY VACUUM PADDLE DRYER (RVPD)

OTHER PRODUCTS / SERVICES

- 1 NITROGEN BLANKETING SYSTEM
- 2 SEMICONDUCTOR INDUSTRIES
- 3 ROTOLINING
- 4 HOLIDAY DC SPARK DETECTOR
- 5 MESH WELDING
- 6 GLASSLINED REPAIRING SERVICES



Fluoropolymer contains molecules of carbon and fluorine. It is characterized by high resistance to solvents, acids, and bases. It is a high-performance plastic material which is used in harsh chemical and high-temperature environment, primarily where a critical performance specification must be met.

It is majorly used for industrial coatings because they possess a positively unique quality.

Chemical resistance

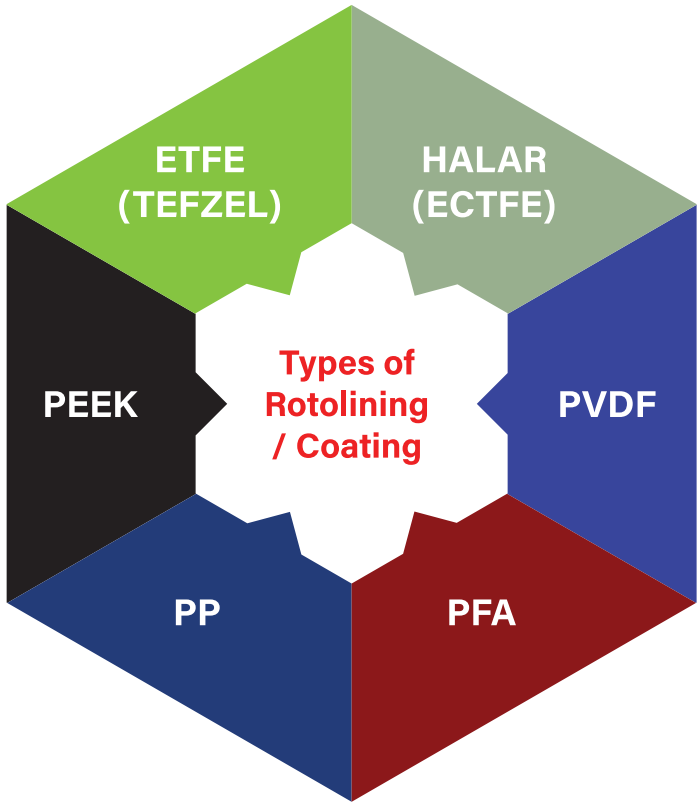
Corrosion resistance

Non-stick property

Low friction

Non-Wetting & Static Dissipation

Different types of fluoropolymers:

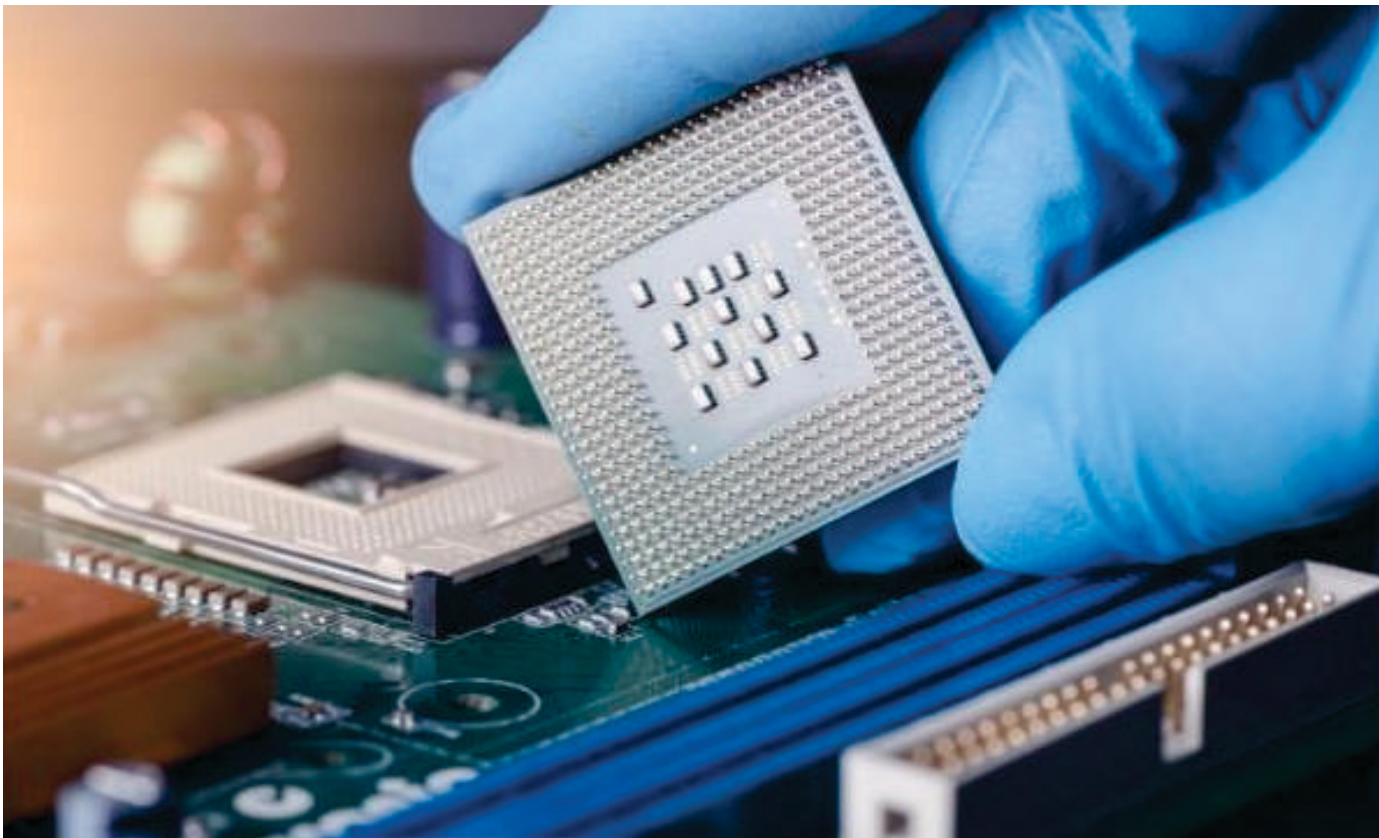


FDA/USDA/NSF Approved Fluoropolymer Coating

Specific fluoropolymer coatings are FDA and NSF compliant, USDA approved as per ISO 10993, and are used extensively in various environment in which non-stick, insulating, and chemical or corrosive protective properties are paramount. We have a longstanding history of success in industries such as food & beverage processing and packaging, API, pharmaceutical & chemicals, and Petrochemical, Ore & Surface treatment.



Fluoropolymer coatings are widely used in the semiconductor industry because they provide exceptional chemical resistance, purity, and durability in harsh processing environments.



Fluoropolymer coatings (like PFA, ETFE, and Halar® (ECTFE)) offer:

- **Excellent chemical resistance** : Withstand aggressive etchants and cleaning chemicals
- **Low surface energy & non-stick properties** : Reduce particle adhesion, improving yield
- **High purity** : Minimal leaching or contamination
- **Electrical insulation** : Critical for equipment safety and performance
- **Durability** in vacuum, plasma, and high-temperature environments

Applications in Semiconductor Manufacturing:

- 1. Wet Process Equipment**
 - Tanks, pipes, valves, and fittings are coated with PFA, PTFE, or ECTFE
 - Protects against acids used in wafer cleaning and etching
- 2. Plasma Etching & CVD Tools**
 - Chambers, electrostatic chucks, and fixtures are lined or coated with fluoropolymers
 - Prevents corrosion from plasma gases (e.g., CF_4 , SF_6 , Cl_2)
- 3. Wafer Handling & Transport**
 - Fluoropolymer coatings prevent particle contamination on wafer carriers and chucks
- 4. Cleanroom Components**
 - Coatings on rollers, trays, and ducts minimize contamination and chemical attack
- 5. Analytical & Process Control Instruments**
 - Protects sensors, flow meters, and probes exposed to corrosive gases and liquids

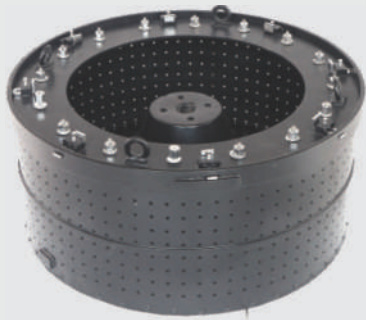


Benefits for Semiconductor Manufacturing

- **Longer equipment life** → reduced downtime and maintenance costs
- **Improved wafer yield** → fewer defects due to contamination or corrosion
- **Cost savings** → fewer replacements, better uptime
- **Compliance with cleanroom and purity standards**

Common Fluoropolymers in Semiconductors:

Material	Key Features	Use Case
PTFE (Teflon®)	High temp resistance, non-stick, chemically inert	Valves, gaskets, seals
PFA	Melt-processable, excellent purity	Tanks, tubing, wafer carriers
FEP	Transparent, non-stick	Tubing, films
ETFE	High strength, chemical resistance,	Wire insulation, coatings
ECTFE (Halar®)	Balance of chemical resistance & mechanical strength	Wet benches, exhaust ducts



Antistatic Halar Coated Basket



TEFZEL Coated Column



**PFA Coated Vessel With
Welded Baffles**



Halar Coated Vessel



PFA Coated Agitator



Xylon Coated Valve Housing

Filter

- Agitated Nutsche Filter
- Pressure Nutsche
- Basket Filter
- Cartridge Filter
- Bag Filter
- Sparkler

Mixers & Blenders

- Nauta
- Ribbon Blender
- Octagonal Blender
- Double Cone Blender
- Static Mixer
- Planetary Mixer

PFA Ruby Red Coated



Centrifuges

- Top Discharge
- Bottom Discharge
- Lifting Bag Type
- Peeler Centrifuge

Tank

- Storage Tank
- Horizontal / Vertical
- Jacketed Receiver
- ML Tank
- Dosing Tank
- Vacuum Receiver

PP Coated



Dryer

- ANFD
- VTD
- Tray Dryer
- FBD
- Rotary Cone
- Double Cone
- ATFD
- Rotary Drum

Pipe, Fittings & Valves

- Piping
- Fitting-Bend
- Tee-Reducer
- Valves-Diaphragm
- Butterfly & Ball Valve
- Thermo Well

Halar Coated



Reactor

- Anchor
- Impeller
- Special Design Blades

Columns

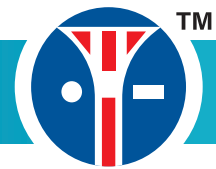
- Distillation
- Scrubber
- Absorber

PVDF Coated ANFD Base



TEFZEL Coated





ADVANCED Roto Lining Facility with International Technology of HDPE/PP/ PVDF/HALAR/ETFE/PFA/FEP 1st Time in India

It is a computer controlled lining technology using rotational movement of equipment along with sintering process. This process creates seamless lining with virtually uniform lining thickness from 1mm to 8mm. Roto lining of HDPE, PF, PVDF, HALAR, ETFE, FEP, PFA is available in natural, FDA or Antistatic Conductive Lining.



Advantages of Roto Lining:

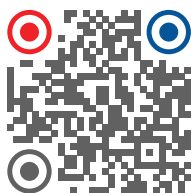
1. Lining thickness ranging between 1mm to 8mm within single heating
2. Faster delivery due to minimum downtime
3. Mono block type tanks & Receivers without main body flange can be lined
4. Seamless without any weld joints
5. Suitable for full vacuum
6. Suitable for heat transfer application
7. Antistatic conductive, FDA Lining available
8. Repair possible at site
9. Non Stick properties

COMPARED WITH COATING

- Thicker Lining Possible Upto 8mm
- Uniform Lining Thickness
- Better chemical resistance as polymer heated only once above its melting point.
- Economical as less wastage of raw material.
- Longer pipes can be lined from inside
- No over spray on outside surface.
- Less Delivery Time.

COMPARED WITH SHEET LINING

- No welding line/ Seamless surface
- Better Bonding with metal without air gap
- Better operating Temperature up to 200°C
- Possibility of heat transfer
- Suitable for full vacuum
- Better purity of product as no adhesive is used
- Higher operating pressure for equipment
- Available Antistatic Conductive Lining with Resistance of 10e4 to 10e8 OHM
- Less Delivery Time



ADVANCED SPARKLER FILTER (ZERO HOLD UP)



ADVANCED acquires various range of GMP Model Zero Hold up Sparkler Filter (Horizontal type) used in Pharmaceuticals, Biotech, API, Bulk-Drugs, Chemicals, Distilleries, Food, and other related Industries.

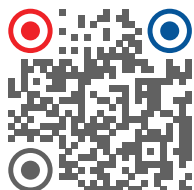
The operation of the sparkler filter press is to filter the impure liquid. Placed on top of each horizontal plate with increasing pressure, the filter media holds back the impurities and allows the filter to pass through the centre by interlocking cups, which takes the filtrate to the outlet of the filter.



Specifications:

- Capacity (Dia In Inch) - 8, 14, 18, 24 & 33 with Suitable No. of Plates.
- Accessories- Pressure Gauge, Safety Valve, Air Vent, Ball Valves, Sampling Valve, Filter Media (PP/Cellulose) & Suitable Elastomer Silicon/ PTFE/ EPDM/ Viton.
- cGMP Model and Design as per ASME guidelines.
- MOC- SS304/ SS316L/ Hastelloy/ PP/ Solid PTFE
- Suitable model to be suggested as per the actual requirements of holding capacity and filtration area.

- Various types of Coating for Wet parts like- HALAR/ ETFE/PFA/PVDF/PP (Food Grade) & Hastelloy for friction parts etc.
- Available Lining- PVDF, PP PFA & Teflon.
- Options for Various range of Pumps (KSB, Antico, QVC, Flurolined, Sulzer, Johnson, Alfa Laval, or as per requirement).
- Qualified Documents- IQ, DQ, OQ & FAT Protocol



ADVANCED NUTSCHE PRESSURE FILTER

Nutsche Filter is a closed vessel designed to separate solid & liquid by filtration under pressure or vacuum. The closed system ensures odorless, contamination-free, and non-polluting working conditions maintaining product purity and hygiene.



Specifications:

- Capacity (Dia in MM)- 300, 500, 550, 600, 900, 1000 and 1200
- Accessories- Pressure Gauge, Ball Valves, & Suitable Elastomer Silicon/PTFE/EPDM/Viton.
- GMP Model and Design as per ASME guidelines.
- Various types of Coating for Wet parts like- HALAR/ETFE/PFA/PVDF/PP (Food Grade) & Hastelloy for Friction Parts etc.
- Available Lining- PVDF, PP and Teflon.
- Qualified Documents- IQ, DQ, OQ and FAT Protocol



ADVANCED BAG LIFTING CENTRIFUGE



Improved design of Manual discharge centrifuge. After removal of solvent/liquid the solid products is completely discharged by lifting the filter bag from the Top. The filter bag is lifted by Bag lifting device (BLD) hence complete discharge of solids can be achieved. This 4-point suspension system can be used in various Pharmaceutical, Chemical, R & D – Plant, Petrochemical, Cosmetic, Food industry etc industry.

Specifications:

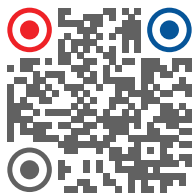
- Carbon Steel, Stainless Steel, Hastelloy etc MOC.
- Fluoropolymer Coatings like Halar (ECTFE), PVDF, ETFE, Teflon (PFA), Rubber Lined etc. can be done on contact surface
- Coating can be provided on the contact parts as well as on the exterior body (non-contact surface) to prevent spills & corrosive atmosphere.



Advantages:

- Time required for Solid Cake removal is less.
- Spill of cake on the floor is minimum.
- Manual contact with product can be avoided.
- Residual is almost zero.
- Easy cleaning of basket.
- Production can be increased.

AETPL Bag Lifting Centrifuge Model	Unit	18" LBT	24" LBT	36" LBT	48" LBT	60" LBT
Basket Diameter	mm.	450	600	900	1200	1500
Basket Depth	mm.	300	300	450	450-500	450-500
Working Capacity under lip	Lts.	23	47	159	285 - 315	442 -5 90
Basket load (Max) @ Bulk Density 1 gm/cc	kgs.	23	47	159	285 - 315	442 - 590
Basket Revolutions	rpm.	900	900	900	900	800
G. Force	G.	203	271	406	542	535
Filtration Area	m2	0.42	0.57	1.27	1.7 - 2.26	2.12 - 2.83
Motor Power	kW.	2	5	7.5	15	20
Overall Dimension						
Length	mm.	1050	1250	1800	2000	2500
Width	mm.	750	900	1250	1500	2000
Height	mm.	900	1825	2500	3100	3500
Empty Weight	kgs.	800	1150	3200	4200	5700



ADVANCED MANUAL TOP DISCHARGE



Manual Top discharge A regular and always in demand 4-point suspension Centrifuge which is widely used in various Pharmaceutical, Chemical, R & D – Plant, Cosmetic, Food industry.



Specifications:

- Carbon Steel, Stainless Steel, Hastelloy etc MOC.
- Fluoropolymer Coatings like Halar (ECTFE), PVDF, ETFE, Teflon (PFA), Rubber Lined etc. can be perform on contact surface.
- Coating can be provided on the contact parts as well as on the exterior body (non-contact surface) to prevent spills & corrosive atmosphere

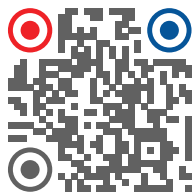
Advantages:

- Simple in construction.
- Easy manual removal of solids from top portion of the equipment.
- Residue next to zero.

Accessories offered with equipment.

1. Inverter drive
2. FLP Panel
3. N2 Purging arrangement
4. CIP arrangement
5. Zero speed interlock
6. Heel blow back
7. Vibration tripper limit switch
8. Vibration monitoring system
9. FLP switch / proxy sensor
10. N2 blanketing system
11. Customized design

ADVANCED MTD Centrifuge Model	Unit	18" MTD	24" MTD	36" MTD	48" MTD	60" MTD
Basket Diameter	mm.	457	610	915	1220	1524
Basket Depth	mm.	300	300	450	450-500	450-600
Working Capacity under lip	lts.	24	48	169	294-327	467-519
Basket load (Max)	kgs.	24	48	169	294-327	467-519
Basket Revolutions	rpm.	900	900	900	900	800
Centrifuge Force	G.	206.2	275.2	412.8	550.4	543.3
Filtration Area	sq.mts.	0.43	0.57	1.29	1.72-1.92	2.15-2.87
Motor Power	kW.	2	3	7.5	15	20
Overall Dimension:						
Length	mm.	1050	1350	1800	2000	2500
Width	mm.	750	1000	1250	1500	2000
Height	mm.	1300	1500	1900	2100	2200
Empty Weight	kgs.	750	1100	2750	4000	5000



ADVANCED BOTTOM DISCHARGE CENTRIFUGE



A unique design for unloading of solid products from the bottom of a 4-point suspension Centrifuge which is widely used in various Pharmaceutical, Chemical, Cosmetic, Food industry, Mining, Rubber, Crop Protection etc industries.

Specifications:

- Carbon Steel, Stainless Steel, Hastelloy etc MOC.
- Fluoropolymer Coatings like Halar (ECTFE), PVDF, ETFE, Teflon (PFA), Rubber Lined etc. can be done on contact surface
- Coating can be provided on the contact parts as well as on the exterior body (non-contact surface) to prevent spills & corrosive atmosphere.

Advantages:

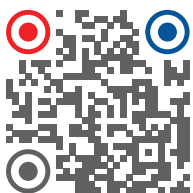
- Simple in construction.
- Easy manual removal of solids from the bottom side of equipment.
- No scrapper knife required as scrapper exist in machines.
- Residual is almost zero



Accessories offered with equipment.

1. Inverter drive
2. FLP Panel
3. N2 Purging arrangement
4. CIP arrangement
5. Zero speed interlock
6. Vibration tripper limit switch
7. Vibration monitoring system
8. FLP switch / proxy sensor
9. Full Automation
10. Customized design

AETPL BD Centrifuge Model	Unit	18	24	36	48	60
Basket Diameter	mm.	457	610	1220	1220	1524
Basket Depth	mm.	300	300	500	450-500	450-600
Working Capacity under lip	lts.	24	48	300	294-327	467-519
Basket load (Max)	kgs.	24	48	375	294-327	467-519
Max. Basket Revolutions	rpm.	900	900	1000	900	800
Centrifuge Force	G.	206.2	275.2	682	550.4	543.3
Filtration Area	sq.mts.	0.43	0.57	1.91	1.72-1.92	2.15-2.87
Motor Power	kW.	2	3	7.5	15	20
Length	mm.	1050	1350	2000	2150	2500
Width	mm.	750	1000	1500	1600	2000
Height	mm.	1300	1500	2100	2350	2100
Empty Weight	kgs.	800	1150	3500	4200	5500



ADVANCED PHARMA PEELER CENTRIFUGE



Operates on the principle of centrifugal force to separate the solids from the liquid. Horizontally designed useful for batch and continuous centrifuge processes. This pharma version is easy to clean and validation with full access to all process wet parts, assured by a fully openable casing.

This equipment can be used in a clean room area application where it is separated by through wall. Feeding, Washing, discharge carried out in processed area where motor, hydraulic power, bearing housing kept. Widely use in APIs, Chemical, pharmaceutical intermediates, antibiotics and various industries

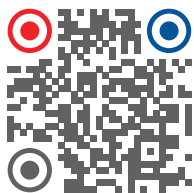
Specifications:

- Stainless Steel, Hastelloy etc MOC.
- Fluoropolymer Coatings like Halar (ECTFE), PVDF, ETFE, Teflon (PFA), Rubber Lined etc. can be done on contact surface
- Coating can be provided on the contact parts as well as on the exterior body (non-contact surface) to prevent spills & corrosive atmosphere.

Advantages:

- Robust & reliable design for durability & continuous smooth operation.
- Excellent design feature as per "cGMP" norms.
- Lower residual cake moisture due to high centrifugal force.
- Horizontal peeler centrifuge provides higher centrifugal forces than vertical peeler, and increases performances and flexibility.
- Due to continuous discharge of filtered liquid through perforated inner surface of rotating basket, the pressure drop, main driving force of filtration is increased across the solid cake & filter medium, as a result, the filtration rate can be boosted.





Operates on the principle of centrifugal force to separate the solids from the liquid. Horizontally designed useful for batch and continuous centrifuge processes. This chemical version is used to separate medium to large quantities of product that can be washed and then spin-dried.

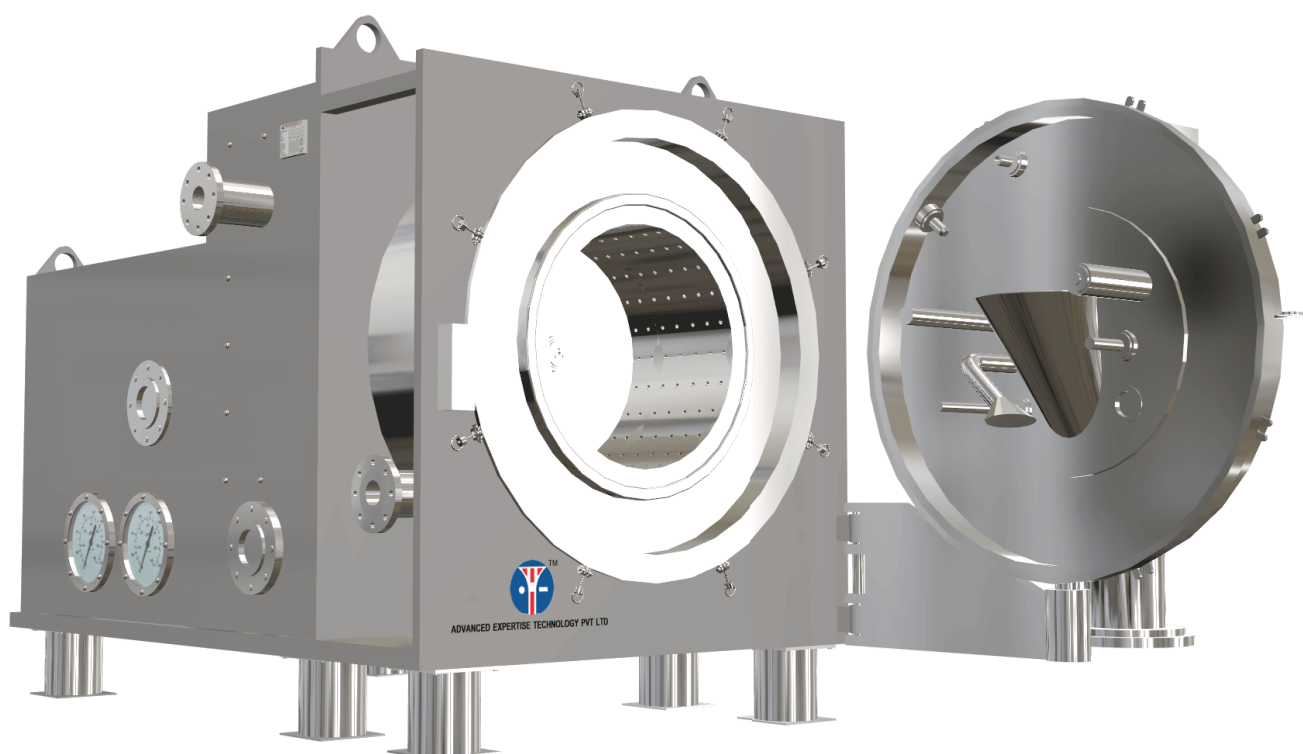
These machines are fit with a highly polished discharge chute with zero dead ends to prevent solid accumulation. Widely used in APIs, Chemical, pharmaceutical intermediates, antibiotics, petrochemical and various industries.

Specifications:

- Carbon Steel, Stainless Steel, Hastelloy etc MOC.
- Fluoropolymer Coatings like Halar (ECTFE), PVDF, ETFE, Teflon (PFA), Rubber Lined etc. can be done on contact surface
- Coating can be provided on the contact parts as well as on the exterior body (non-contact surface) to prevent spills & corrosive atmosphere.

Advantages

- High speed rotating machine, classified as "High G" centrifuges.
- Full opening of lid gives complete access to entire processing area.
- Easy to Maintain, clean and inspection.
- Low residual moisture achieved by high G effect.



ADVANCED CARTRIDGE FILTER



Cartridge Filter Housings are designed and manufactured where a contaminated fluid is passed through a special pore-sized cartridge to separate suspended particles from process liquid. The micron cartridge filter housings can have flow direction in to out or out to in as per dirt load and application.

MOC:- Filter Housing in SS / Hastelloy / SS + fluoropolymer MOC is available with mirror polished outside

Types of filter housing.

- Single Cartridge Filter
- Multi Cartridge Filter
- Duplex Single Cartridge Filter
- Duplex Multi Cartridge Filter
- Jacketed Cartridge Filter



ADVANCED BASKET FILTER

A basket filter is suitable for coarse filtration or with low contamination. The dirt collects in the basket-like screen insert and can be easily removed during cleaning. These are designed for heavy duty with side or top entry for easy connections. The swing bolt design enables quick access to the basket enabling easy removal and installation.

MOC:- SS316L/SS304/Hastelloy/Fluoropolymer coating



ADVANCED DUPLEX FILTER



Duplex filters are a valuable solution for applications where continuous fluid filtration is essential, and uninterrupted operation is crucial. They provide a balance between efficient filtration and minimal downtime by allowing for on-the-fly switching between two filter housings. When one of the two filters in a duplex system gets clogged, all you need to do to keep the flow going is switch a valve so it sends fluid to the other filter. Cleaning can then be done without stopping production.

MOC:- SS316/SS316L/SS304/Hastelloy/Fluoropolymer coating

ADVANCED acquires various range of GMP Model Zero Hold up Sparkler Filter (Horizontal type) used in Pharmaceuticals, Biotech, API, Bulk-Drugs, Chemicals, Distilleries, Food, and other related Industries.

The operation of the sparkler filter press is to filter the impure liquid. Placed on top of each horizontal plate with increasing pressure, the filter media holds back the impurities and allows the filter to pass through the centre by interlocking cups, which takes the filtrate to the outlet of the filter.

Key Feature of ADVANCED LEAF FILTER

- Leaf Filter can available from size 50 litres to 1000 litres cake holding volume.
- MOC:- SS316L/ SS304 /MS/ Hastelloy/ Duplex
- Special Fluoropolymer On contact parts - PFA/TEFZEL/ETFE/HALAR/PP



ADVANCED ROBO FILTER



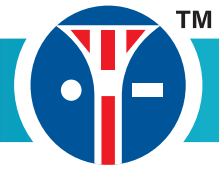
Robo Filter is used for filtration/separation of liquid from solid with less manual intervention.

Key Feature of ADVANCED ROBO NUTSCHE FILTER

- Robo Nutsche Filter can available from size 50 litres to 1000 litres Filtration volume
- MOC:- SS316L/SS304/MS/ Hastelloy
- Special Fluoropolymer On contact parts - PFA/ TEFZEL/ ETFE / HALAR / PP



ADVANCED ROTOcone VACUUM DRYER (RCVD)



Rotocone Vacuum Dryer (RCVD) is suitable for drying of material that cannot resist high temperature, material which are easily oxidized, volatile material which should be retrieved, material that are strong irritants and poisonous in nature.

Specifications:

- Capacity: 5 - 4000 LTRS
- MOC- SS304/ SS316L/ Hastelloy
- cGMP Model and Design as per ASME guidelines.
- Drying at a lower temperature under vacuum.
- Complete discharge.
- Closed system – Automatic charging & discharging.
- Qualified Documentation like- IQ, DQ, OQ & FAT Protocol

Optional Items/Accessories:

- Provision for Lump breaker.
- Nitrogen purging arrangement.
- Various types of Coating for Wet parts like -HALAR/ ETFE/ PVDF /PFA (Food Grade).
- Direct drive to avoid greasing of the gear.

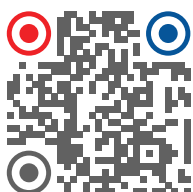
NB: Spare items also available like Gasket, Vacuum Shaft, Valves, and other related components, overall maintenance.



Widely used for material drying in Pharmaceutical and Chemical Industries. It's drying process is based on circulation of hot air through the chamber having material. A Tray Dryer is a convectional drying equipment with enclosed insulated chambers and trays placed on top of each other in a trolley.

Specifications:

- Capacity (No. of Trays): 3, 6, 12, 24, 48, 96 & 192
- cGMP Model and Non-GMP Model
- MOC- SS304/SS316L/Hastelloy
- Various type of Coating for Wetted Parts like HALAR/ETFE/ PFA/ PVDF/ PP (Food Grade).
- Qualified Documents- IQ, DQ, OQ and FAT Protocol
- Optional Items/Accessories:
 - Flame proof Construction
 - Double Skin Body
 - AHU



ADVANCED VACUUM TRAY DRYER (VTD)

Mainly used for drying of high grade, temperature and oxygen sensitive products. It is highly suitable for drying hygroscopic substances, which are dried on very low residual moisture, content level.

Specifications:

- Capacity (No. of Trays): 3, 6, 12, 24, 48, 96 & 192
- cGMP Model and Non-GMP Model
- MOC: MS/SS304/SS316L/Hastelloy
- Various type of Coating for Wetted Parts like HALAR/ETFE/ PFA/ PVDF/ PP (Food Grade).
- Qualified Documents: IQ, DQ, OQ and FAT Protocol
- Optional Items/Accessories:
 - Flame proof Construction
 - Double Skin Body



NB: Spare items also available like Gasket, Eye Bolt, Filter, Heater, and other components etc.

Advanced Agitated Nutsche Filter Dryer widely used in chemical, pharmaceutical, Agro chemicals, fine chemicals, Herbal, pharma the food industry for filtration, separation, drying of solid + liquid-based slurry.

The closed system which works under pressure / vacuum to separate the solid from liquids. The closed operation ensure safe operation (containment free, without human intervention)

Key Feature of ADVANCED ANFD

- Available in size from 5 Litres to 16,000 Litres
- MOC:- SS316L/SS304/MS/ Hastelloy/ Duplex
- Special Fluoropolymer Coating/ Roto lining /Sheet Lining On contact parts - PFA / Tefzel /ETFE/HALAR/PVDF/PP
- MS/RUBBER LINING, MS/FRP LINING , GLASSFLEX COATING
- Available in Customise design, Monoblock type, Detachable plate type, Super C Bayonet Clamping, Teethed Bayonet etc.
- For filtration dual filtration arrangement can be provided. (Filter cloth+ Multi-layered Sintered Mesh)



Fluid Bed Dryer (FBD) is a kind of equipment used extensively in the pharmaceutical industries to reduce the moisture content of pharmaceutical powder and granules. The wet solids are lifted from the bottom and suspended in a stream of air (fluidized state).

FBD work on the principle of fluidization, a process in which hot gas or air is introduced into the spaces between solid particles. Upward forces on the particles increase as the air's velocity increases causing them to equal the gravitational forces below.

Specifications:

- Capacity: 10- 500 Kg
- cGMP & Non-GMP Model Available
- MOC- MS / SS304 / SS316 / SS316L / HASTELLOY
- Inflatable silicon tube for bag sealing & product container sealing
- Food Grade Elastomers
- Online Sampling Device
- Telescopic Cylinder for Bag shaking (Top/Side)
- Safety Interlock (Motor Overload, Emergency Shut off, Inlet Temp high- Close steam control valve, Blower failure, low seal gasket pressure- Top & Bottom etc.)
- Steam Valve controlled through Panel with solenoid valve to control the steam temperature
- Qualification Documents- IQ, DQ OQ & FAT Protocol



Options:

- Solid Monitor Flow
- PLC with HMI / SCADA
- FLP Motor & FLP Panel
- Double Skin AHU Body
- Air Handling Unit with Hepa Filtration
- Pneumatically operated Inlet & outlet Dampers
- Racking System in the container with Motor, Gear Box, Stirrer, Bearing- Housing & Combined control Panel
- Various type of Coating for Wetted Parts like HALAR / ETFE / PVDF / PFA (Food Grade)
- VFD for Blower
- 21 CFR Part 11- Provision & Compliance
- Silencer
- Rupture Disc

Drying optimization is a process that is carried out by means of external and internal heating. The large heat transfer area available on the wide paddles and hollow shaft enable and equip maximum heat transfer efficiency to the product. External heating is generated through jacket or limpet coils, while internal heating through a hollow shaft, along with a set of hollow paddles. These hallow paddles are equipped with scrapers that have very low gap from wall in order to maximize heat transfer. Scrapers move material to all parts of the dryer and additionally help in discharging the material.

There is a hollow rotating agitator shaft that imparts heat to the product and scrapes the shell wall tumbles. This facilitates for maximum heat transfer and discharge product whenever required. Mechanical seals at Shell ends/Stuffing Box. The vessel is well designed to take temperature stresses in the process of vacuum drying. Thereby, there is low power consumption with the use of helical bevel gear box. Special floating bearing design to combat temperature stresses. So as to remove the condensate formed by steam heating in the hallow shaft, special rotary joints are also designed to introduce heating media in the hollow shaft.

Product Filter is very efficiently used to arrest valuable product carried away with the vapors in a filter bag. The arrested product particles are thrown back into the dryer by reverse flow of pulsating air. Generally, the product filters are heated to avoid condensations of vapors in the filter bag. User friendly discharge valve design provides vacuum tight closing when the material is processed. The quick opening facility lever facilities filling of bags when material discharge and packed. Breaker bars are incorporated in the RVPD to break the lumps when the product forms lumps at some stage in drying process. Insulation with Cladding will provide on heating jacket/Limpet coil

Key Benefits:

- Low energy consumption thus cost reduction
- High thermal heat transfer efficiency
- Very high solvent recovery
- Low pressure drying enables processing of highly toxic materials
- Limited threat to the workplace using a closed system

Key technical parts of the specification-

- Operation temp. - 0 - 200 °c, Heating temp -30°c to 300°c
- Atmospheric to full vacuum
- Capacity- 100 -10000ltrs



ADVANCED REACTORS



Reactor is the generic term for a type of vessel widely used in processing industry. A typical reactor consists of a storage tank with an agitator and integral heating or cooling system.

Application: Pharma, Chemical, Food and Beverages etc.

- Capacity: 5 - 25000 LTRS
- cGMP and Non-GMP Model Available.
- MOC- SS304/ SS316L/ Hastelloy.
- Jacketed/Limpet/Fermenter/Reaction Vessel.
- Qualified Documents: IQ, DQ, OQ and FAT
- Protocol

NB: Spare items also available like Agitator Assembly, Man Hole Covers, Gaskets, Baffles, Discharge Valves, and other related components.



Optional Items/Accessories: -

- SIP/ CIP
- Reactor Assembly
- Various types of Coating for Wet Parts like -HALAR/ ETFE/ PVDF/ PFA (Food Grade).

ADVANCED MANUFACTURING & STORAGE VESSEL



Specifications:

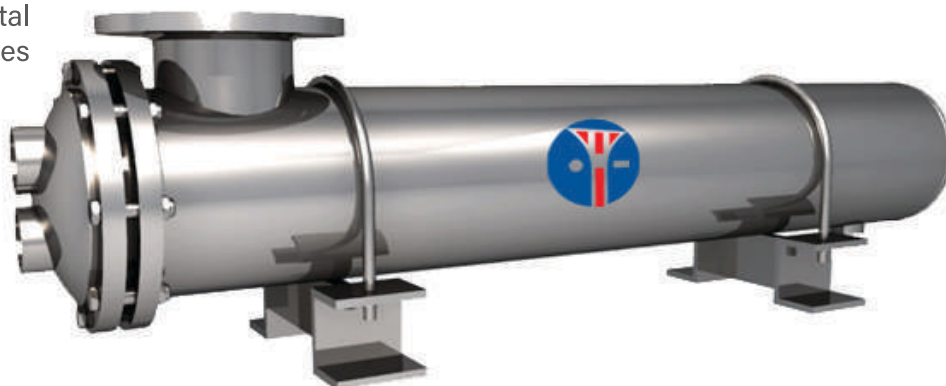
- Capacity- 10 - 30000 LTRS
 - MOC- SS304/ SS316L /MS
 - Various types of coating.
 - Vessel design as per cGMP/ USFDA/ ASME guidelines.
 - Options of Mechanical and Magnetic Stirrer and High Shear Mixer with Sterile flanges
 - Load Cell / Level Indicator
 - Sensors (pH, Conductivity, Temp. etc.) and suitable accessories.
- Capacity- 10 - 30000 LTRS

Heat Exchangers are generally used for heating or cooling elements – depending on your requirements. Having said this, the use of heat exchangers in industry is dedicated to cooling, to ensure that vital pieces of equipment or volatile substances do not overheat.

Types of Heat Exchangers

1. Shell and tube heat exchanger.
2. Double pipe heat exchanger.
3. Plate heat exchanger.
4. Condensers, evaporators, and boilers.

The use and popularity of shell and tube heat exchangers is due to the simplicity of their design and efficient heat exchange rate.



Specifications:-

- MOC – SS316L/SS304/Hastelloy
- Size – 1 m² to 25 m²

ADVANCED RIBBON BLENDER

Ribbon blender widely used in chemicals, pharmaceuticals, food and cosmetics industries for blending, shearing, mixing of dry powder, granules, spice and low-viscosity paste and liquid. It is specifically suitable in mixing solids with solids and solids with liquids.

Advantage Of Ribbon Blender:

- To complete process of mixing/blending & shearing in one equipment
- Working capacity ranges from 50L to 15000L
- Suitable for mixing solids with solids and solids with liquids
- All contact parts are made of SS304/316L & mirror polished
- Flush plug valve from discharging finished product without minimum hold up
- Can be used in CGMP regulations
- It can be consistent and achieve high shear mixing



Material of Construction

- MOC – SS316L / MS / Hastelloy / Fluoropolymer Coating

OCTAGONAL BLENDER

An **Octagonal Blender** is a type of industrial blending machine widely used in the pharmaceutical, food, chemical, and cosmetic industries for uniform mixing and blending of dry powders and granules. The blender rotates on its axis, causing the material inside to cascade and intermix due to gravity. The octagonal shape provides a unique tumbling action that leads to homogeneous blending without degrading particle structure.



Specifications:

- Capacity: 5 - 4000 LTRS
- MOC - SS304/ SS316L/ Hastelloy
- cGMP Model and Design as per ASME guidelines.
- Drying at a lower temperature under vacuum
- Complete discharge
- Closed system - Automatic charging & discharging
- Qualified documentation like - IQ, DQ, OQ & FAT Protocol

Remove srying at lower temperature line

- Gentle blending without heat generation.
- Uniform mixing up to 70% of total volume.
- Easy to load and unload.
- Suitable for large batch production

DOUBLE CONE BLENDER

A **Double Cone Blender** (also called a **Twin Cone Blender**) is a type of industrial mixing equipment widely used for **uniform blending of dry powders and granules** in industries like **pharmaceutical, food, chemical, and cosmetic manufacturing**.



Applications:

Pharmaceutical: Mixing dry powders for tablets and capsules.

Food: Blending spices, flavorings, and nutritional powders.

Chemicals: Mixing detergents, pigments, and fertilizers.

Cosmetics: Mixing talc, powders, and granulated materials.

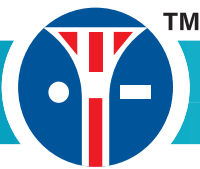
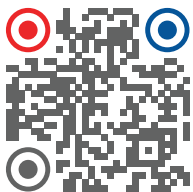
- The double-cone blender has two conical sections joined at a central cylindrical portion.
- As the blender rotates (usually at 10–30 rpm), the material inside tumbles and intermixes due to gravity.
- The gentle mixing action ensures a homogeneous blend without degrading sensitive materials.

Specifications:

- **Capacity:** 5 - 4000 LTRS
- **MOC** - SS304/ SS316L/ Hastelloy
- cGMP Model and Design as per ASME guidelines.
- **Charging/Discharge:** Provided through a butterfly or ball valve.

Optional features:

- Vacuum loading system
- PLC control panel
- Safety guard and limit switches
- Liquid spray attachment (for small liquid additions)



AETPL Can Fabricate & Supply Special Purpose Multifunctional Column the basic objective of distillation is to take a liquid mixture and separate it into two or more streams which have compositions different to the feed stream. In a basic distillation column a feed stream enters in the middle of the column and two streams leave, one at the top and one at the bottom. Components with lower boiling points are concentrated in the stream leaving the top while components with higher boiling points are concentrated in the stream leaving the bottom.

Key specification

- Capacity- 100 NB - 2000 NB - Diameter Column

Material of Construction

- MS/ SS304 / SS316 / Hastelloy

Coating

- Various types of fluoropolymer coating on contact surface i.e. Halar / PP / ETFE / PFA / PVDF available.

Internal Packing

- Pall Ring, Structured Packing, Liquid distributor, Random Packing, Liquid Collector, Demister Pad, Support Grids



The Ointment/Cream Manufacturing Plant is ideal tool for Pharmaceutical, Cosmetics and Consumer Care Industries for the production of Ointment, Cream, Lotions, Tooth Paste (Medicated, Herbals etc.) and other emulsions and homogenizations.

Specifications:

- Capacity:- 5 to 5000 kg
- MOC:- SS 304 / SS 316 L
- Vessel design as per ASME guidelines.
- Pipe fittings are of seamless quality, internally Electro-Polished with tri-clover ended joints.
- Entire Plant can be operated by centralized operating Panel.
- R&D, Pilot, Single/ Double type Model also available or as per Client requirements.
- Semi contra rotary anchor type agitator with open slot Scraper design.
- Pre-Mix vessels with top/bottom Stirrer.
- Inbuilt Homogenizer or Inline Homogenizer.
- Safety Interlocks
- Qualification Documents- IQ, DQ, OQ & FAT Protocol

Optional Items/Accessories: -

- Weighing Facility (Load Cell)
- VFD for all Anchor and Homogenizer
- Contra Anchor for High Viscous Products like Toothpaste
- PLC based, with touch screen HMI and SCADA packages
- 21 CFR Part 11- Provision & Compliance.
- Top Dish for Pre-Mix Vessels.
- Thermowell & Thermosiphon.
- Vent Filters
- FLP Panel
- Utility Pipeline
- Fully Automatic Plant with actuated Valve
- Branded/reputed make accessories (VFD, Load Cell, Valves, Pressure Gauge, Steam Trap, Diaphragm Valve Spray Ball, Sight Glass, wiper, Sensor, Electrical Components etc.)

This machine works on the principle of gyratory vibrations. The material is separated based on its particle size. Once the motor gets energized, vibration is caused in the screen/sieve making the material travel across the sieves according to its particle size.



Material of Construction:

- Capacity (In Inch) – 12, 20, 30, 36, and 48
- cGMP Model and Design as per ASME guidelines
- MOC- SS304 /SS316L/Hastelloy
- Qualified Documents- IQ, DQ, OQ and FAT Protocol

Optional Items/Accessories: -

- Ultrasonic Sonoscreen mesh arrangement for better results (Powder sifting acceleration, less powder wastage, a decrease of sieve screen blinding and Clogging)
- Mesh De-Blinding Kit with Silicon/ PTFE Balls.
- Flame safe and Flameproof Motor(Imported)
- FLP DOL Starter.
- Magnetic Grill
- Single/ Double/ Three/ Four deck.
- USFDA Grade Lead-free Silicon molded Screen.

ADVANCED MULTI MILL

This is a self-contained portable unit useful for high speed granulating, pulverizing, mixing, shredding, and chopping of a wide range of wet and dry materials without special attachments. It operates on the principle of variable force swing beaters having both knife and impact edges rotating within a selected screen to get the required size reduction. The material is fed in the hopper, shredded and milled through beaters consisting of knife and impact edges.

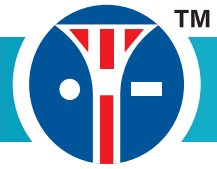
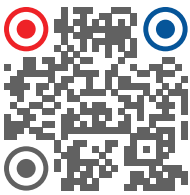
Optional Items/Accessories:

- Belt Drive
- Direct Drive with VFD
- Full SS Construction including Bearing Housing and Motor mounting Plate.
- Flameproof Motor and FLP Starter with Reversible switch FLP Panel Magnetic Grill for Outlet
- Mechanical Seal
- Sieves available: 0.3 - 12 MM (4 mesh to 400 mesh)
- Vacuum loading system to charge the material.

Specifications:

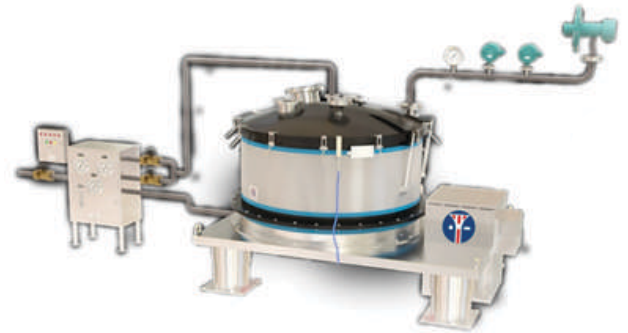
- Capacity (In HP): 1, 3, 5 and 7.5
- cGMP Model and Design as per ASME guidelines
- MOC: SS304/ SS316L/ Hastelloy
- Qualification Documents: IQ, DQ, OQ & FAT Protocol





Advanced Nitrogen Blanketing System

Nitrogen blanketing, while widely used in the chemical, pharmaceutical, food processing and refining industries, is often overlooked as a way to improve safety, productivity and quality. Although blanketing is a simple plant practice, there are options for improvements that balance achieving desired safety or quality results with minimizing cost. Poor choices may add cost, waste nitrogen or increase plant emissions.



Application of Nitrogen blanketing system

1. Storage Tank/process Vessel Blanketing
2. Centrifuge Blanketing

Manual Operated Centrifuge Blanketing System

This is a user friendly system where user will operate the purging & blanketing process manually.

For purging & blanketing there are two separate isolation ball valves. During the purging process operator will open one valve for 40-45 secs & once purging is completed, another isolation for blanketing has to be kept open throughout the process.

Timer Based Semi Automated Centrifuge Blanketing System

This system operates automatically based on its timer which is predefined by manufacturer for which the flameproof PLC or control panel will be provided to operate the purging & blanketing valve smoothly as per requirement.

This system also generates an alarm in case low/high pressure, failure of Nitrogen supply, centrifuge lid open.

The most important benefit of this system over manual system will be, loss of N₂ due to human error will be nil.

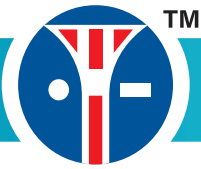
This system requires Single phase AC/DC supply to operate.

Fully Automated Centrifuge Blanketing System

This system will be provided with flameproof PLC or relay-based control panel. Oxygen analyzer is used which will go to continuously monitor the O₂ level in basket. User can define the desired setpoint. N₂ purging will commence by the start button on the panel, If the O₂ level is less than setpoint, system will move into blanketing mode & will allow the machine to run. If the oxygen level increases than the desired setpoint then process will be repeat from purging.

This system also includes an alarm generator for low & high pressure, N₂ source failure, Lid open, O₂ level high, or any other malfunction.





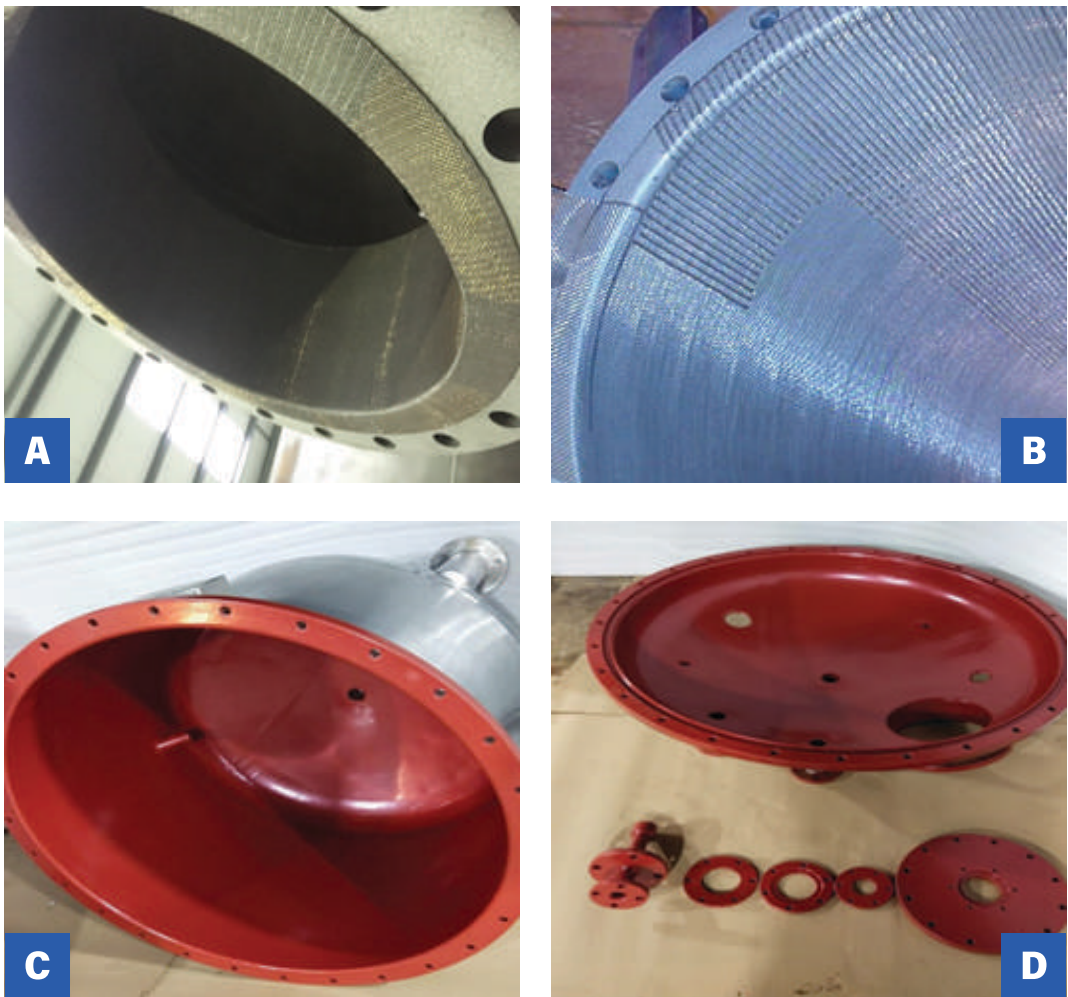
Mesh Welding

Mesh welded coated equipments is a newly developed technique for operations under full vacuum and tough/sharp materials are used.

Advantage is, it is not only suitable under full vacuum but also gives longer life to coating as it causes high and better bonding with metal and polymer. It is also repairable at site.

We have successfully supplied mesh welded coated equipment to M/s SRF Lts, M/s Lupin Ltd, KVC Process Systems, M/s Aastrid Life Sciences Pvt. Ltd. & Deccan Fine Chemicals which has derived satisfactory results.

A & B: photo of a meshed vessel. The image shows the stainless steel meshed after being spot welded to the vessel interior prior to coating.



C & D: Photo after PFA coating process of the meshed vessel.

PROCEDURE OF MESH WELDING

The 304L/SS 316/MS/SS 316L/BQ wire mesh with a wire thickness of 1 TO 1.2mm is spot welded to the 304L/SS 316/MS/SS 316L/BQ substrate such that the weld seams arc run in the same direction with a distance of 4 openings between each weld run. The size of each welding spot will be 1 to 4mm.

PoroDetect

- High voltage Holiday Detectors
- Detects holidays, porosity, pinholes, leaks, and other discontinuities in coatings, linings, and membranes using pulse or continuous DC
- Available as a stick-type with pulsed DC or a compact wand style with continuous DC
- Lightweight, ergonomic design provides comfortable all-day use, reducing operator fatigue
- Regulated pulse or continuous DC voltage output that won't change under load $\pm 5\%$ voltage accuracy



High Voltage Holiday Detectors

- Detects holidays, porosity, pinholes, leaks, and other discontinuities in coatings, linings, and membranes using pulse or continuous DC
- Available as a stick-type with pulsed DC or a compact wand style with continuous DC
- Lightweight, ergonomic design provides comfortable all-day use, reducing operator fatigue
- Regulated pulse or continuous DC voltage output that won't change under load— $\pm 5\%$ voltage accuracy

Simple

- Easy-to-use
- Lightweight, ergonomic design provides comfortable all-day use, reducing fatigue.

Safe

- 7.6 m (25') ground (earth) cable with locking connector and spring clamp
- Shock proof/creep proof—internally sealed to minimize creep distance to high voltage components

Durable

- Rugged, environmentally sealed ABS plastic enclosure
- Weatherproof, dustproof, and shockproof
- Included corrugated case with custom foam inserts for superior protection
- One year warranty
- Lightweight, one-piece ergonomic design provides comfortable all-day use, reducing operator fatigue.
- No shoulder bag required! All electronics, batteries, and connectors are integrated into a single handheld wand.
- User adjustable voltage ranges from 0.5 — 10 kV.
- Powerful Li-ion batteries fit neatly within the compact wand handle eliminating the need for a separate battery box—reducing weight and operator fatigue.

GLASSLINED REPAIRING SERVICES

REPAIRING SERVICES FOR GLASSLINED EQUIPMENT, AVAILABLE ACROSS INDIA

On Site Spark Test with Certification



Glasslined damaged repairing at site



Supply of Glasslined Spare Items



AMC for Glasslined Equipment repairing

We provide comprehensive maintenance and restoration for glass-lined reactors, storage tanks, and heat exchangers. Our service protocols utilize advanced spark-testing diagnostics and high-performance repair materials to restore chemical resistance and prevent substrate corrosion.

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NB: Above clients are associated with our sister concern companies as well.

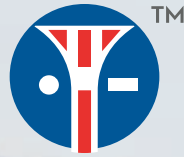
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