Ami Polymer

"Sealing Expert in Silicone"

TUBING | HOSES | SINGLE USE ASSEMBLIES | GASKETS | INFLATABLE SEALS | SIEVES & SCREENS

TUV NORD CERTIFIED:- ISO 9001:2015 (QMS), ISO 14001:2015 (EMS), ISO 45001:2018 (HEALTH AND SAFETY), ISO 27001:2013 (ISMS), ISO 15378:2017 (PPMFMP), ISO 13485:2016 (MEDICAL DEVICES) CERTIFIED MANUFACTURING FACILITY OF CLEAN ROOM CLASS 10000

SIEVES & SCREENS

for Pharma, Food & Chemical Industries

APPL is a manufacturer of world-class Sieves and Screens, which are vital for blend consistency, compression efficiency, quality control, accurate particle size control, and contaminant elimination in tablet manufacturing.

www.amipolymer.com

info@amipolymer.com

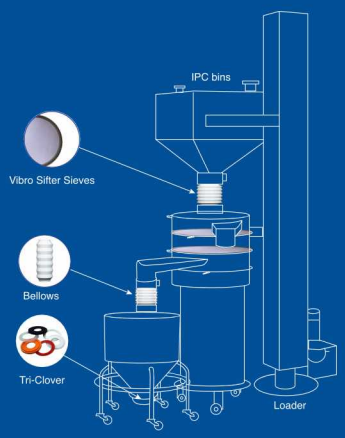
About Us

Since 1998, APPL has been engaged in the business of polymer products, which ultimately provide solutions to fluid transfers, sealing and contamination controls for the pharma, biopharma, medical, laboratory, food, beverage and engineering sectors worldwide.

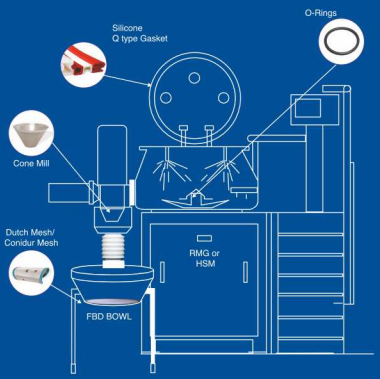
APPL has ISO class 7 and 8 cleanroom facilities certified with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013 and ISO 13485:2016. We also have a BPOG extractables program for our products for regulatory markets worldwide.

APPL has world-class manufacturing technology with end-to-end process capabilities to fulfill the needs of customers. Our advanced facilities include laser-controlled extrusion, automated hose production lines, thermoplastic extrusion lines, automatic hydraulic presses for elastomers and polymeric components, a cutting-edge laboratory equipped with R&D machinery, in-house tooling and mold-making machinery, laser cutting machines and online printing and marking systems.

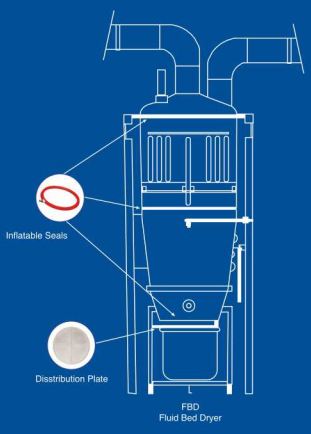
The Company believes in "Be in business with ethics" and assure Quick Development, Fastest Delivery, Ultimate Quality and also very Competitive Rates.



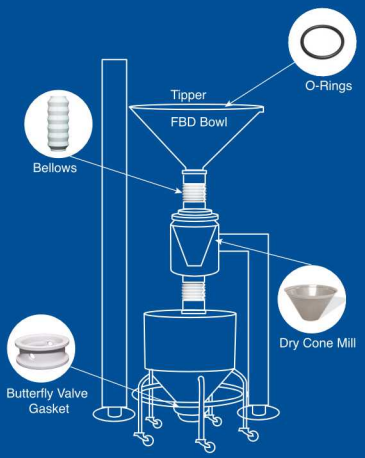
SIEVING



GRANULATING



DRYING



MILLING

Our Strength

- Expanding manufacturing capacity by adding a new world-class manufacturing facility with a total area of 2,50,000 sq ft (including 60,000 sq ft of clean room) located in Kala, Dadra Nagar Haveli Daman and Diu, India
- 25+ registered brands with a global sales footprint in 50+ countries
- A dedicated strength of 600+ employees, which includes qualified polymer technologists, biotechnologists, engineers, and management professionals
- Excellence in the manufacturing process through world-class extrusion, molding and tooling facilities
- Quick development of customized single-use manifolds and bag assemblies
- Dedicated research facility with the latest laboratory equipment and devices.
- A world-class hose crimping and hydrotesting facility ensures leak-proof performance.
- Laser-controlled extrusion system for accurate dimensions of tubing and profiles
- In-house tool design capabilities through advanced CMC and VMC machines
- Awarded in Asia-Pacific Bioprocessing Excellence Awards-2023 for the Best Bioprocessing Supplier: Single-Use Consumables
- DMF #26201, 32560,32558, 32556, 32559, 32561 & 32549 (Drug Master File) for manufacturing of Tubes and Hoses accredited by USFDA
- Clean Room of Class 10000 Certified Facility
- NSF-51 Certification on Platinum Cured Silicone Resin (84% Standards of USFDA are derived from NSF)
- BPOG standardized extractables test reports on single-use products
- TOXIKON Lab (USA) based E&L study, USP class87, ISO 10993 biocompatibility studies on products
- TUV Nord Certified IMS (Integrated Management System) facility [ISO 9001 :2015, ISO 14001 :2015, ISO 45001 :20181] ; ISO 27001:2013; ISO 13485:2016
- High Performance Capability and Credit Rating of MSE-1 from CRISIL
- Sound Infrastructure and Capabilities to Develop Tailor-made Products as per Customer's Requirements
- Most advanced fully automatic Microwave Continuous Curing System which ensures Accurate Dimension, Glossy Surface and Aesthetically Finished Profiles
- Successfully developed 5000+ customized products and having 3000+ satisfied customer globally.

Introduction to Sieves and Screens:

SIEVES or SCREENS are important and critical (product contact) machine changeable parts during pharmaceutical production processes; especially for the manufacturing of oral solid dosage forms.

Further, various types of sifting or sieving equipment are used, which not only assist in separating oversized raw material but also help in the dispersion of material to obtain ingredients of uniform and required particle size.

A particle size reduction or milling process is employed for the milling of wet and dry granules during the manufacturing of pharmaceutical products.

Products

- **Imasieves®** - Lead Free Vibrosifter Sieves, Static Dissipative Sieves, FBD, FBE & FBP Sieves.
- **Imascreen®** - Cone MILL, Rotary Sifter, Multimill, Communiting Mill, Oscillating Granulator Turbosifter / Turbomill.
- **Imapot®** - Detachable / Fixed Screen

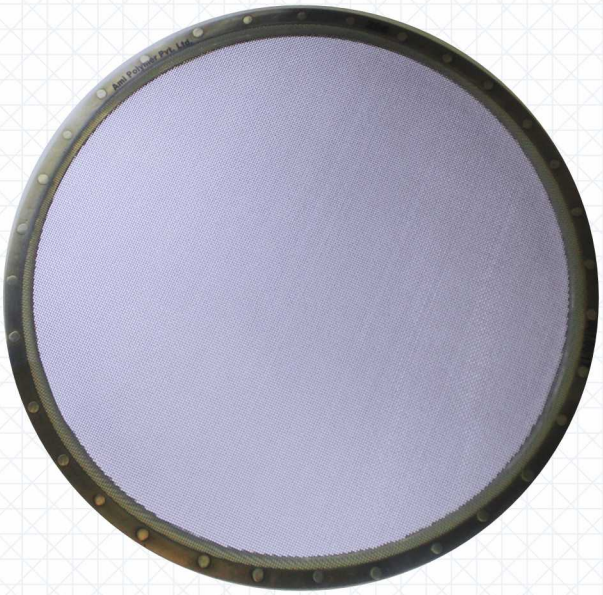
Imasieves®

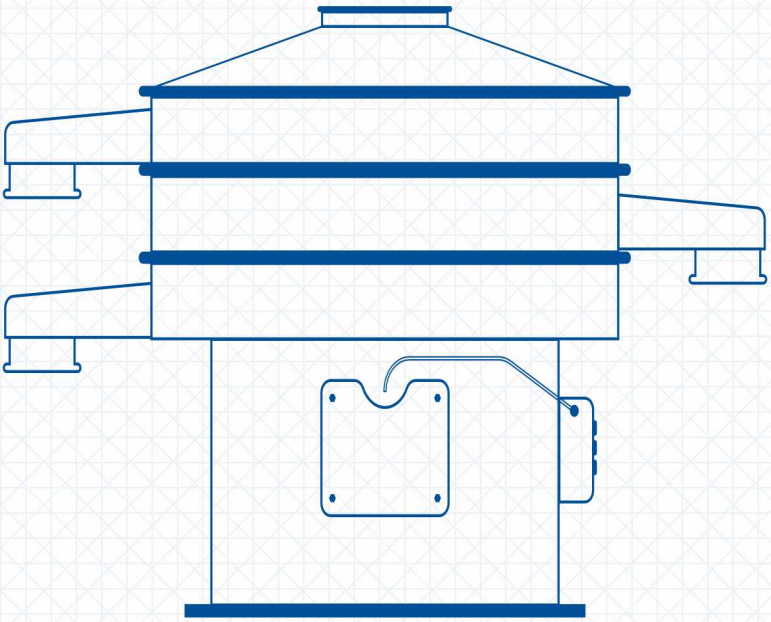
Lead Free Vibro Sifter Sieves

- Crevice free GMP Designs
- Material of Construction: Stainless Steel 316L Quality
- Mesh sizes AVAILABLE from 4 # to 625 #
- Import Substitute Designs Available
- Certified as per International Standards
- Standards: ISO-9044, ASTM E-2016.
- Special Designs: For Z TYPE SIFTERS, Ultrasonic sifters

Sifters usually use vibration energy or a combination of vibration & ultrasonic energy to achieve screening. The mesh are held in tension, making it easier for material to move in the direction of the vibration. This could be in a horizontal or vertical direction, depending on the type of material you wish to process. The screen structure uses FDA-approved seals to prevent cross-contamination of the products in sieves. Since particle size distribution plays a vital role in drug dissolution, maintaining the accuracy of the sieve apertures is an essential part of sieve manufacturing. Proper thickness of wire, accurate nominal aperture sizes, high tensile strength, & toughness of the sieve are essential for high sifting performance.

Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free





Static Dissipative Sieves

The food and pharmaceutical industries are facing many issues regarding safe processing operations. Major processing steps involved in drug manufacturing and delivery systems involve dynamic mechanical movements. Dynamic movements of machines generate static electricity charge on the surfaces of components. Silicone is the most widely used polymer in the pharma industry for fluid delivery and sealing applications. Naturally, silicone rubber has insulating properties. static electric charges developed on the polymer surface can cause fire when in contact with flammable processing solvents. Many fire incidents happened in the last few years because of this reason.

Material can be categorized as per its conductivity of electric charge.

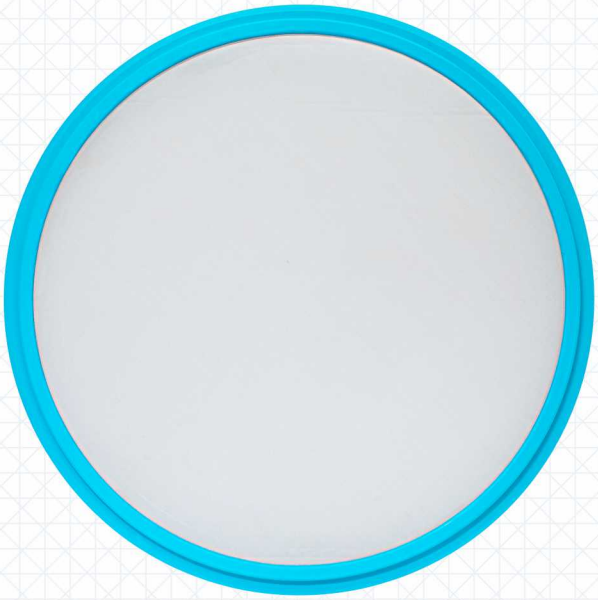
10^3 to 10^5	10^6 to 10^9	10^{10} to 10^{11}	$>10^{12}$
Conductive	Dissipative	Anti-Static	Insulative

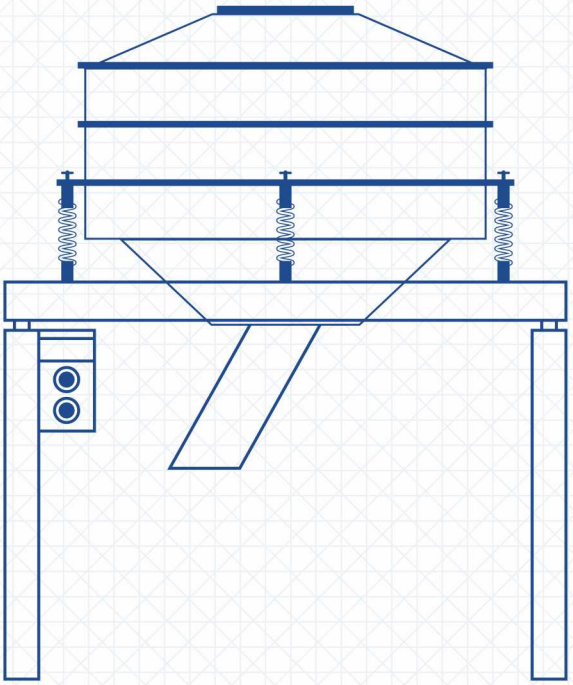
Increasing **Conductivity** **Decreasing**

Our static dissipative sieves is specially developed to dissipate static charge while sifting. Sieves are as technologically advanced in their design as they are brilliantly simplistic in their use. The silicone surface is left absolutely smooth and crevice-free, with its integrity intact. The complete sieve is turned into an electrostatic dissipater, thereby eliminating the fire, explosion, and electrocution hazards.

Static Dissipative Silicone Sieves is successfully tested for food grade FDA 21 CFR 177.2600 Test.

Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free



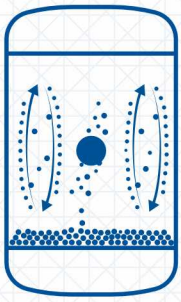


Imasieves® FBD

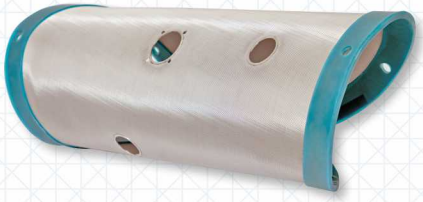
FBD, FBE & FBP Sieves

- Material of Construction: Stainless Steel 316L Quality
- Crevice Free GMP Designs
- Aperture Sizes: 20 microns to 125 microns.
- Aperture Shape: Dutch woven.
- Specialty: For handling very hard material, sticky material & high loads.
- Finer opening for better filtration efficiency and quality.
- Available in silicone / static dissipative rubber molding, S.S Cladding and in Circle cutting.
- Certified as per International Standards

Drying is the process of removing water or another solvent by evaporation from a solid, semi-solid mixture. Our sieves are free from toxic lead and tin metals. The edge of the wire mesh is moulded in Silicone / Static Dissipative Rubber Toxicology tested polymer. The super-tough sieve gives a better throughput, has a longer life, and maintains a uniform aperture size.

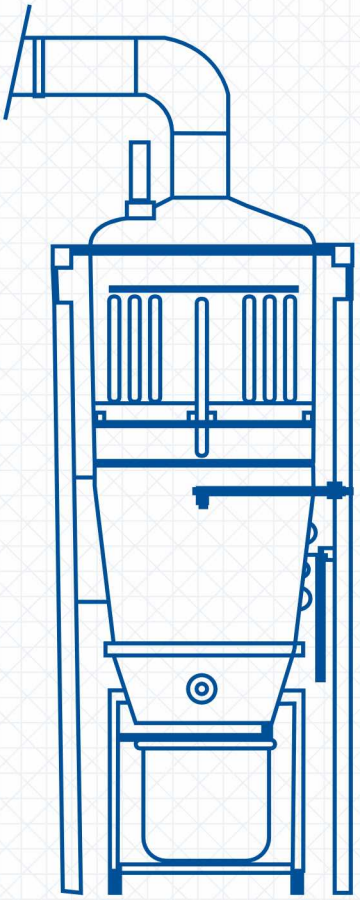


Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free



Silicone Molded Dutch mesh

SS 316L Air Distribution plate



The Conidur plate in an FBD machine plays a crucial role in enhancing air distribution, fluidization, and overall drying efficiency. Its unique perforation pattern is designed to promote uniform drying, prevent agglomeration, and optimize the fluidization process, contributing to the production of high-quality dried products.

Sifter Sieves Standard Sizes

ID	OD	THK	MESH	MOLDING
135	155	5	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
134	174	8	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
180	220	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
215	255	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
260	300	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
330	350	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
312	327	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
310	360	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
350	400	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
354	384	15	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
450	500	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
461	511	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
500	550	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
495	550	70	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
550	600	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
600	640	11	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
700	750	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
700	750	12	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
850	900	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
850	910	10	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
1150	1220	12	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
1470	1530	12	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
525	610Z	30	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
715	800Z	30	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
917	1000Z	30	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE
1109	1200Z	30	4# TO 635#	SILICONE TRANS / WHITE / STATIC DISSIPATIVE

FBD Sieves Sizes

ID	OD	THK	MESH SIZES	MOLDING	CAPACITY
450	400	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	85 LTR
574	497	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	125 LTR
777	727	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	250 LTR
950	900	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	500 LTR
1050	1000	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	800 LTR
1200	1150	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	1300 LTR
580	530	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	30 KG
738	688	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	150 KG
957	897	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	200 KG
1170	1110	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	250 KG
1475	1405	5	20 MICRON TO 125 MICRON	SILICONE / STATIC DISSIPATIVE	500 KG

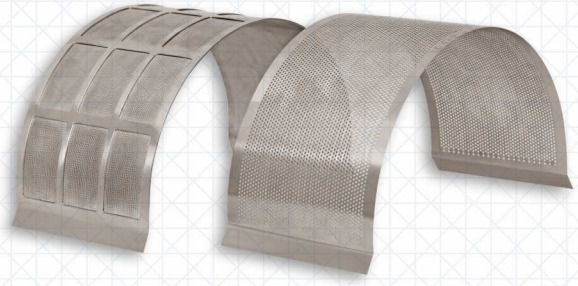
Imascreens®

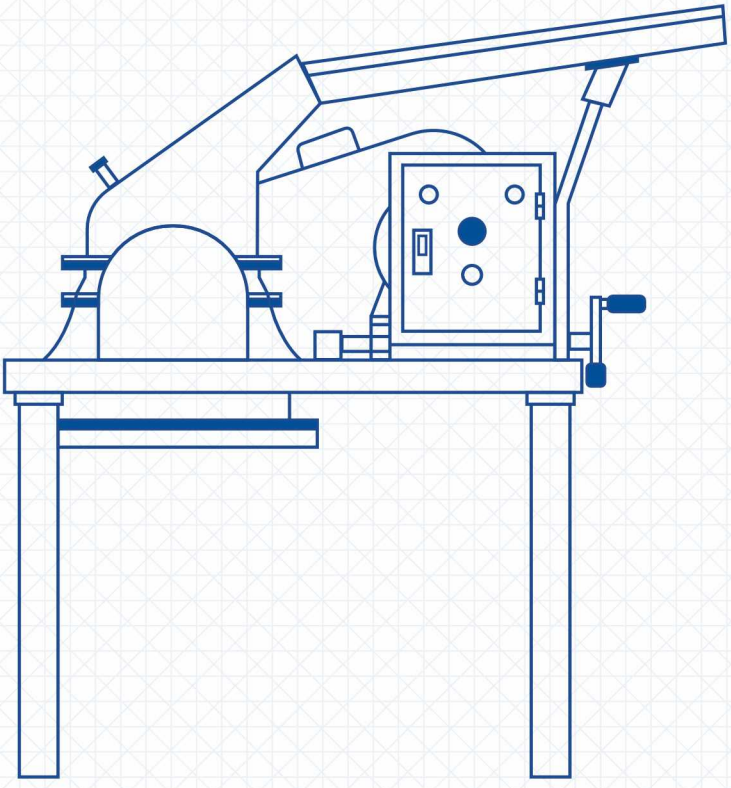
Cadmill Screens/Comminuting mills

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Perforation sizes available from 0.1mm to 25mm.
- Perforation shapes are available in round and square.
- Triangular & Spherical Grater perforation Available.
- Certified as per International Standards.
- Screens can be tailor-made to your specifications.
- Laser printing is available for lot identification.

Cadmill Screens Comminuting mills are horizontal hammer mills used mainly for milling, sizing, and delumping. Milling depends on many factors, like the physical & chemical characteristics of the product, the design of the machine, the design of the hammers, environmental conditions, & most importantly, the type of screen used. screen parameters like the size & shape of the aperture, pitch, & thickness play a very important role in material processing. These are available in variety of sizes according to the machine size. Perforation sizes available from 0.1mm (100 micron) to 20mm (2000 micron), Size below 0.5mm and odd size perforation is achieved by laser perforation S.L.E. Technology, with complete set of certificate.

Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free

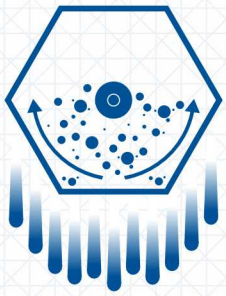




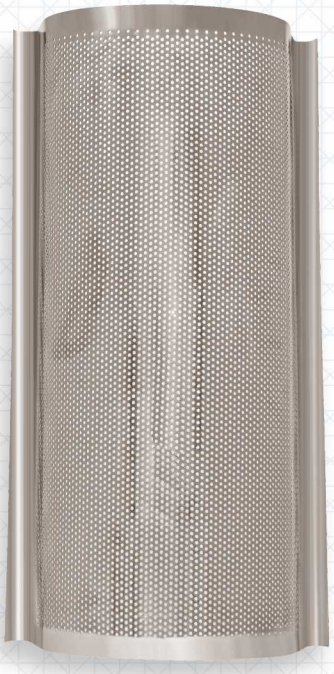
Screen for Oscillating Granulation

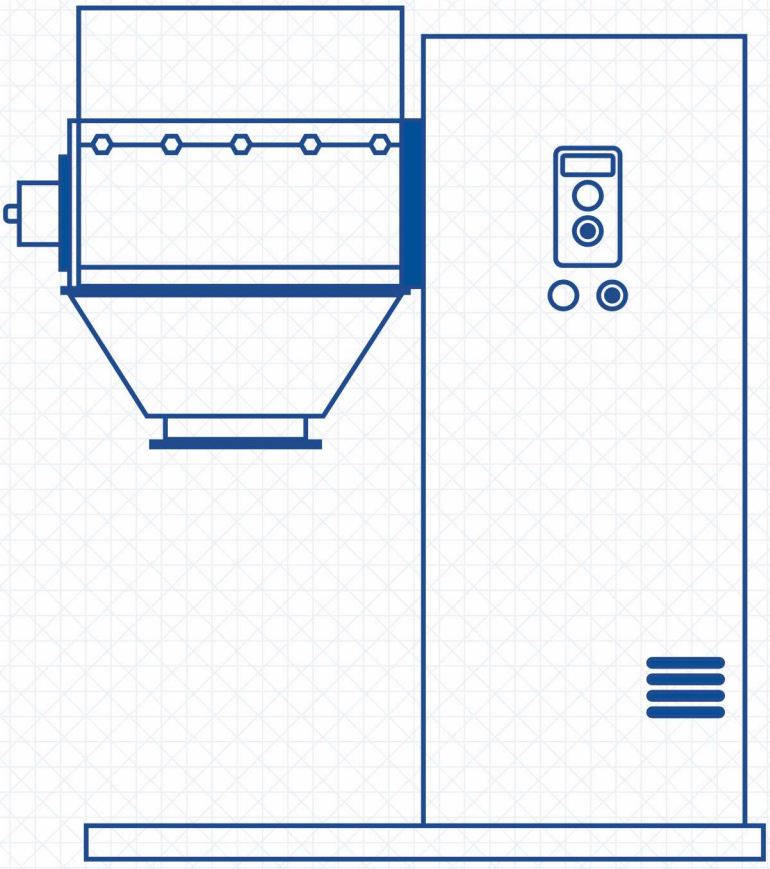
- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Perforation sizes Available from 0.1mm to 25mm.
- Perforation shapes are available in round and square.
- Triangular and spherical greater perforation available.
- Certified as per International Standards.
- Screens can be tailor made to your specifications.
- Laser printing is available for lot identification.

Oscillating granulation is an agglomeration process or a particle size enlargement process. For proper granulation, parameters like sieve thickness, pitch, and aperture size are important in maintaining the proper granule size and reduce the generation of dust when handling very hard material, sticky material, and high loads.



Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free

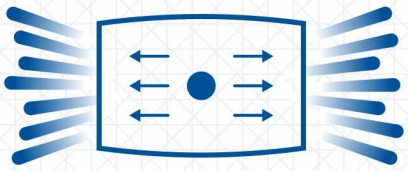




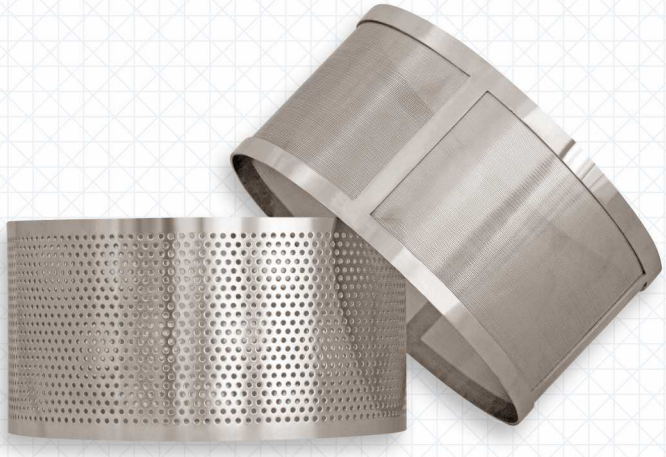
Screen for Multimills

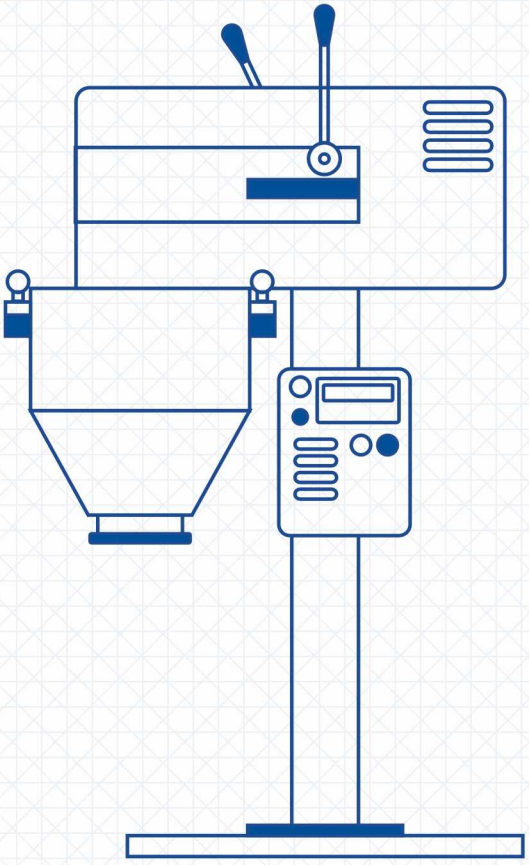
- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Perforation sizes Available from 0.1mm to 25mm.
- Perforation shapes are available in round and square.
- Triangular and spherical greater perforation available.
- Certified as per International Standards.
- Screens can be tailor made to your specifications.
- Laser printing is available for lot identification.

Multimills are cylindrical hammer mills used mainly for milling, sizing, and delumping. Milling depends on many factors, like the physical and chemical characteristics of the product, the design of the machine, the design of the hammers, environmental conditions, and most importantly, the type of sieves used. Sieve parameters like the size and shape of the aperture, pitch, and thickness play a very important role in material processing. These are available in various sizes, including a lab model. Most common size is 263mm Inner diameter X 140mm Height available from 0.1mm to 25.0 mm hole diameter in perforation sizes below 0.5mm can be had in laser perforation know as Laser technology.Open with us in numerous arrangements, these offered items are colossally prescribed.



Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free

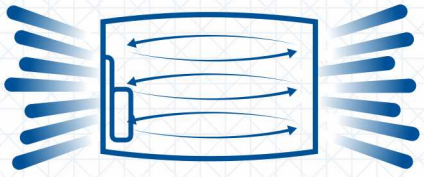




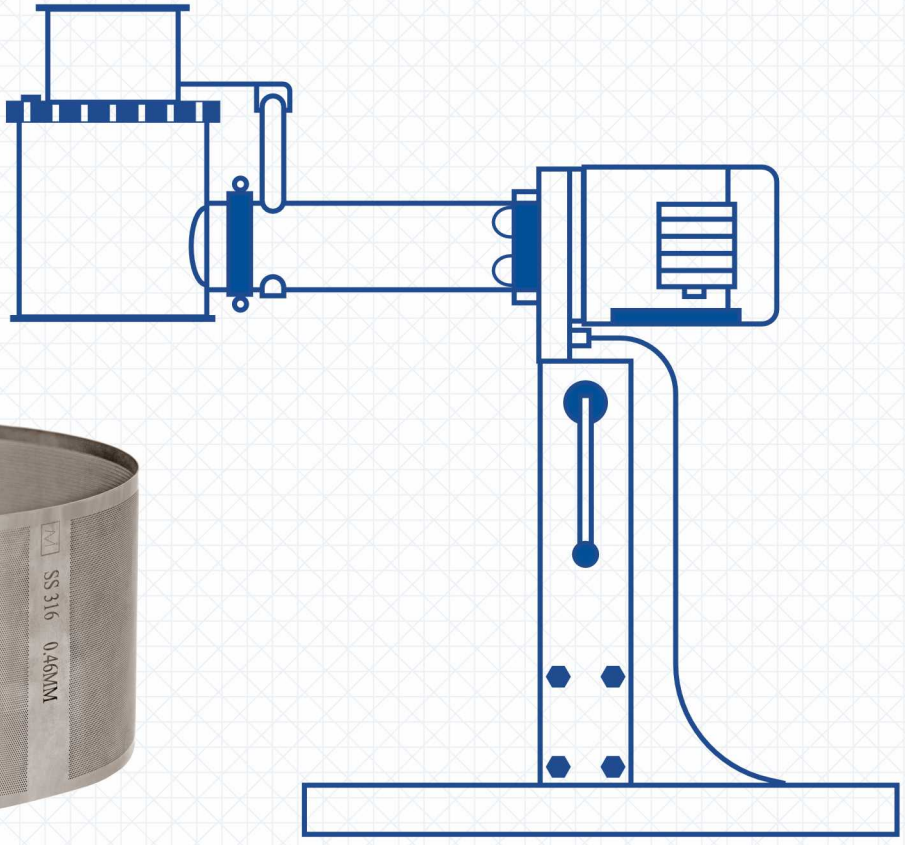
Screen for FlexSift

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Perforation sizes Available from 0.1 mm as per customer requirement.
- Certified as per International Standards.
- Screens can be tailor-made to your specifications.
- Laser printing is available for lot identification.

FlexSift is the high-capacity centrifugal sifter/separator with the convenient inline design that has revolutionized security screening equipment technology. Simply install FlexSift near the beginning of your process stream to effectively deagglomerate raw materials while capturing and retaining foreign materials and other impurities before they can contaminate your final product. Centrifugal action can achieve a high volume of screening with a small machine footprint. These are mainly used for check screening but can also be used for sizing and separation. Sieves are designed to withstand the high stress forces generated, and apertures and sheet thicknesses are carefully selected for maintaining proper throughput and particle size distribution.



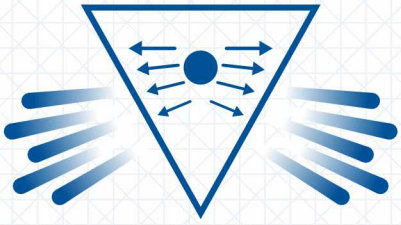
Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free



Screen for Cone mill

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality
- Perforation sizes Available from 0.1mm to 25mm.
- Perforation shapes are available in round, square, oblong, slotted, herringbone and hexagonal.
- Triangular and spherical grater perforation available.
- Certified as per International Standards.
- Screens can be tailor-made to your specifications.
- Laser printing is available for lot identification.

Conemill provides the perfect solution to achieve material size reduction in pharmaceutical manufacturing. It is used for reducing the size of dry material in production, de-lumping material post-drying, sizing wet material post-granulation (increasing surface area for quicker drying) and DE agglomeration of clumped material, as well as for various other processes. Besides pharmaceutical processing, the Conemill is also suitable for use in other hygienic process environments, including biotech, nutraceutical, food, cosmetic, and chemical manufacturing.



Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
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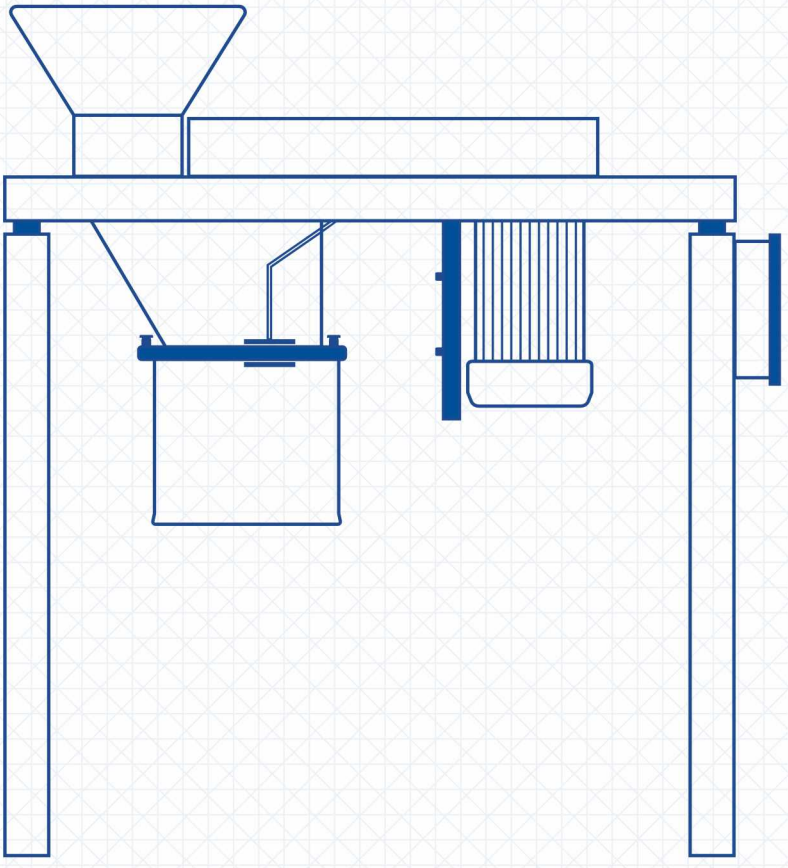
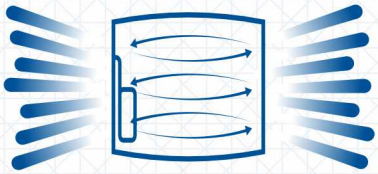


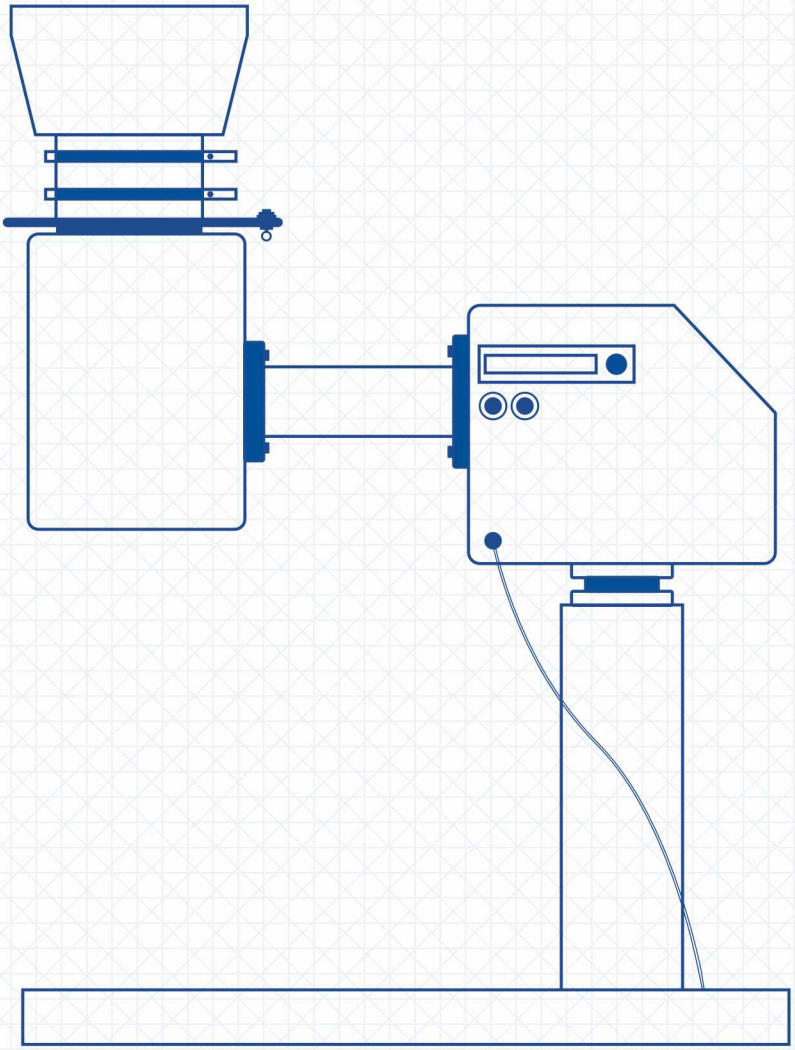
Screen for Rotary Sifter

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality
- Perforation sizes Available from 0.1mm to 25mm.
- Certified as per International Standards.
- Screens can be tailor-made to your specifications.
- Laser printing is available for lot identification.

The Lead-Free Turbo Witt is an innovative new sieving system that allows high-throughput size reduction and screening of raw materials. High-throughput sieving is made possible by the high-speed rotary basket screen, which creates centrifugal forces that act on the product to gently force it through the basket holes while preventing foreign material like packaging from entering the process.



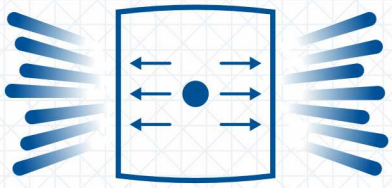
Crevice Free cGMP Quality	Optimum Porosity for High Throughput
Traceability To International Stds	Precise & Controlled Aperture Sizes
Durability	TSE BSE Free



Screen for Turbo Sifter / Mill

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Perforation sizes Available from 0.1mm to 25mm.
- Certified as per International Standards.
- Screens can be tailor-made to your specifications.
- Laser printing is available for lot identification.

Lead-free turbo sifter, cum turbo mill are available both in perforated as well as wire mesh screens. The reinforcing frame is designed to give complete support to the screen without reducing the output. The screen is passivized and micro-polished to give a smooth, non-sticky surface. These are used together in a single machine.



Crevice Free cGMP Quality	Optimum Porosity for High Throughput
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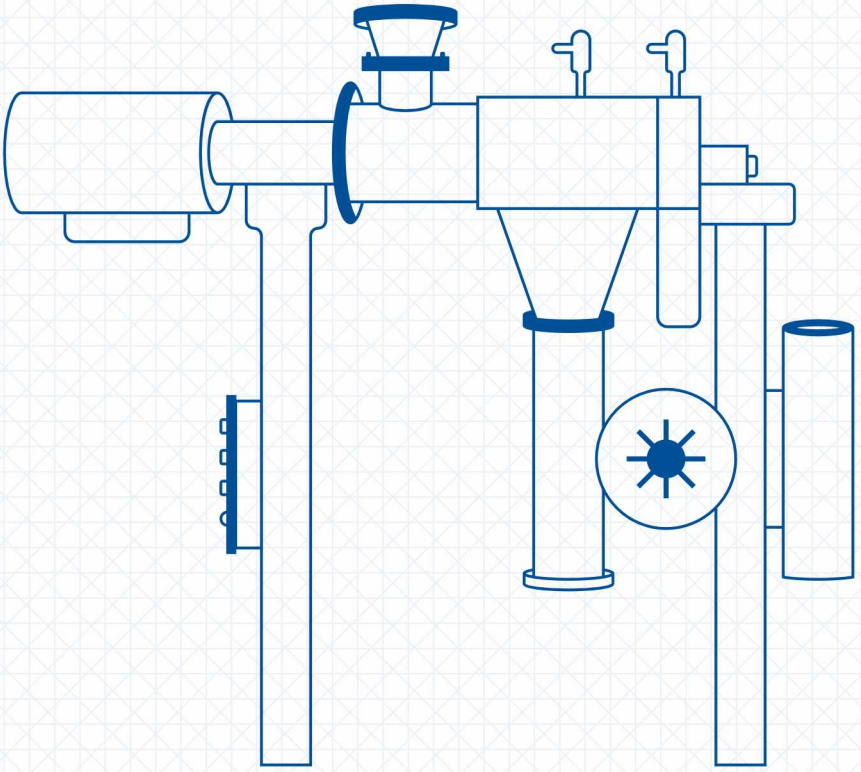
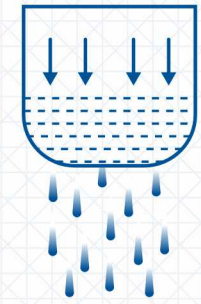
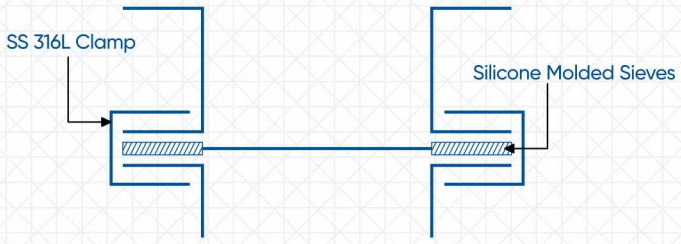


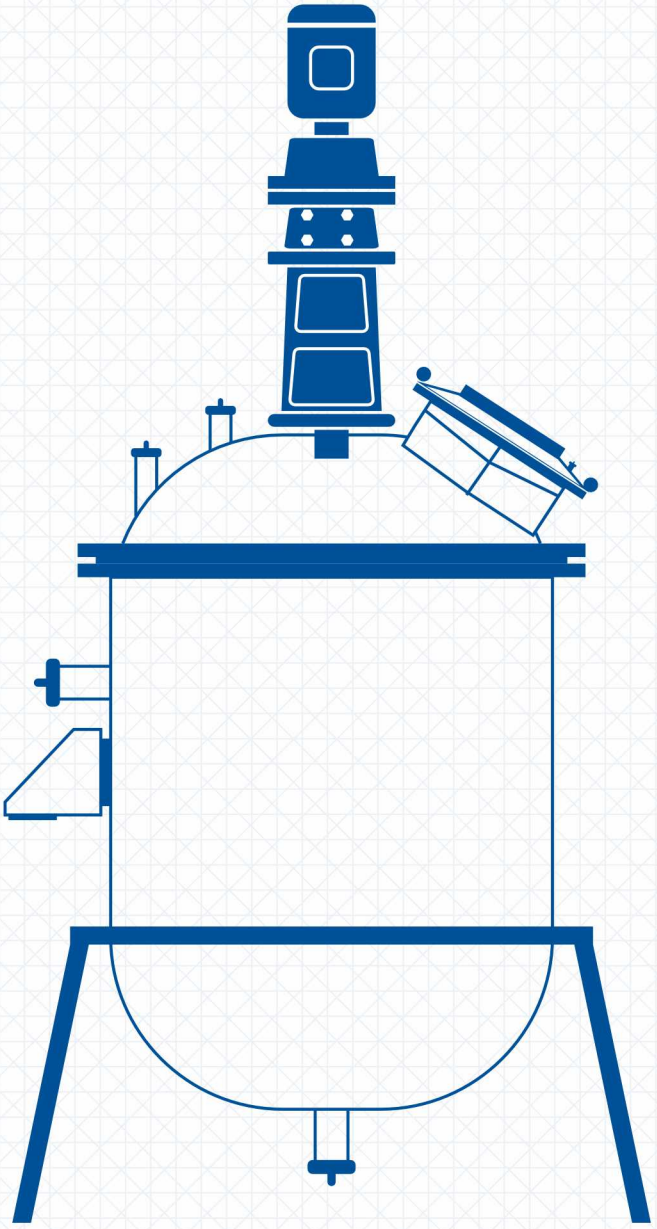
Imapot®

Detachable / Fix Pots For Filtration

- Crevice-free GMP Designs.
- Material of Construction: Stainless Steel 316L Quality.
- Certified as per International Standards.
- Sieves can be tailor-made to your specifications.
- Laser printing is available for lot identification.







Our Presence In World

Our Branches in India

BADDI (H.P.) +91 9816 595 011/+91 9218 595 011 baddi@amipolymer.com	**BENGALURU** +91 8123 023 922 support1@amipolymer.com	**CHENNAI** +91 7738 788 877 chennai@amipolymer.com
DELHI +91 9977 600 935 newdelhi@amipolymer.com	**GOA** +91 9223 290 943 / +91 9223 290 940 goa@amipolymer.com	**AHMEDABAD** +91 9152 032 305/ +91 9712 588 819 guj@amipolymer.com
HYDERABAD +91 7700 908 414/ +91 9515 113 662 hybd@amipolymer.com	**INDORE** +91 9712 588 819 / +91 9512 273 730 indore@amipolymer.com	**MUMBAI** +91 9223 290 943 / +91 9512 283 830 mumbai@amipolymer.com
HARIDWAR +91 9977 600 935/+91 7718 888 743 roorkee@amipolymer.com	**SIKKIM** +91 9512 274 748 sikkim@amipolymer.com	**VIZAG** +91 7700 908 414/ +91 9515 113 662 hybd@amipolymer.com
PUNE +91 9512 298 787 pune@amipolymer.com	**SILVASSA** +91 9223 290 934 / +91 9512 235 354 dnhdd@amipolymer.com	**ROI** +91 9223 290 936 info@amipolymer.com

CORPORATE OFFICE

Office No. 6 & 7, Upper Basement, Western Edge II, Behind Metro Stores, W.E. Highway, Borivali, Mumbai, Maharashtra - 400066
Cell: +91 9512 215 158 / +91 9223 290 943

USA OFFICE

800 West Cummings Park, Suite 3325 | Woburn, Massachusetts 01801
Cell: +1 (978) 482-5400/+1 (267) 810-3834 | Email: usa@amipolymer.com

MANUFACTURING UNIT- I

Plot No. 66-D/E, Govt. Industrial Estate, Near Beekaylon Factory, Masat, Silvassa, UT of Dadra & Nagar Haveli and Daman & Diu, India 396230

MANUFACTURING UNIT- II

Survey No. 106/2/1, 106/2/2, 113/3/P1, Opp. Guarniflon India Pvt. Ltd, Karajgam Road, Village Kala, Khanvel, UT of Dadra & Nagar Haveli and Daman & Diu, India 396230