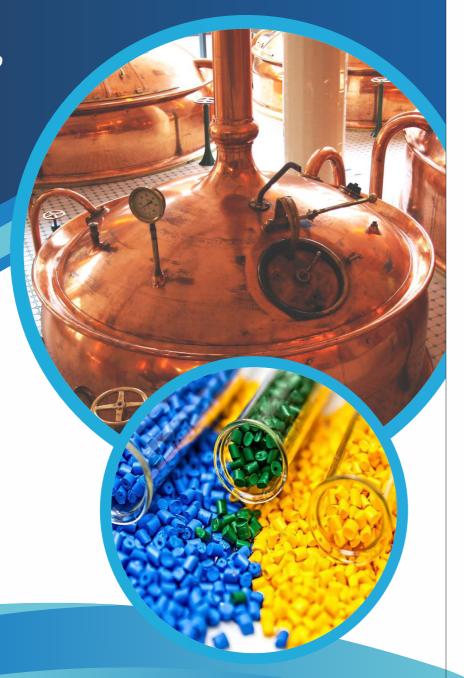
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If you need industrial solution... We are available for you



DSP ENGINEERING is in the field of Manufacturing of Processing equipments for the past five years providing innovative & cost effective solutions to the Machinery & Equipment needs of various industries viz.







BULK DRUGS

PLASTICS

FOOD PROCESSING







POLYMERS

CHEMICALS

ADHESIVES & COATINGS

QUALITY DRIVEN

DSP Engineering believes in providing best quality with minimum cost.

CUSTOMER FOCUSSED

DSP Engineering believes in customer focus and satisfaction.

GLOBAL SOURCING

DSP Engineering is have gobal source of resource to provide best solution.

REACTION VESSEL

Reaction Vessel are one of the most important equipments of any chemical, food, drugs, dyes and allied industries. There are various types of reaction vessel viz jacketed, Limpet coil in Body flange or Welded Types, Top open type, Top dish type etc.

Lenton Assembly

Lenton Assembly contains Bearing Housing with TOP Tapered Roller Bearing for High Accuracy and resistance to impact load & vibratory load and Ball Bearing at the bottom for smooth rotation. Stuffing Box is provided with Jacket for Cooling arrangement to give long life to Gland rope. Gland pusher is provided with Gunmetal Bush Bearing thus ensuring Minimised Friction giving longer life to the Gunmetal Bearing. Bearing Housing and Lenton Assembly are steel Fabricated made from M.S. Plates of suitable strength.

Types

Jacketed Vessel

We manufacture Jacketed Reaction Vessel with capacity ranging from 100 liters to 20,000 liters in Material of Construction Stainless Steel & Mild Steel depending on the requirement of the Material to be processed.





Nozzle Orientation

Jacket Welding

Jacket & Closure Ring welding work is performed by using high grade filler rods to withstand closure ring tension. Welding work is performed by Argon Arc process using Good Characteristic Filler rods on all S. S. Parts. M.S. Parts welding is performed by D. C Arc / Argan welding process using suitable electrodes.

Drive System is specially Designed for Maintenance & Trouble Free Performance.

Jacketed Vessel

Sttifner Ring is provided on Inner Shell of Jacket inbetween Inner Shell and Outer Jacket to intensify main Vessel and to provide uniform circulation and minimise stagnation of heating or cooling medium.

Limpet Coil Vessel

Sttifner Ring

We manufacture Limpet Coil Reaction Vessel with capacity ranging from 100 liters to 20,000 liters in Material of Construction Stainless Steel & Mild Steel depending on the requirement of the Material to be processed.





Limpet Welding

Limpet welding work performed by using high gradefiller rods depending on material of construction of the limpet coil to withstand design pressure.

Drive System is specially Designed for Maintenance & Trouble Free Performance.

Limpet Coil

Nozzle Orientation

OUTER LIMPET COIL

Limpet coil can be made up of mild steel or stainless steel single end single start as well as double and double start as per the application of the user.



Top Open Vessel

Top Open Vessel can be fabricated in Jacketed Or Limpet coil as per the application of the user. Top open vessel are similar to Reaction vessel but Have hinged lid on the 1/3rd opening.





Drive System is specially Designed for Maintenance & Trouble Free Performance.

Finish

All weld joints will be finished from inside and outside, S S. Parts is cleaned from inside and outside. Two coates of primer/redoxide will be given on M.S. parts from outside.

Testing

Equipments are tested Hydraulically as per design Pressure.

Service

After sales servicing is provide by our fully trained and competent engineers.

Types of Blade and Agitator can be used in Reaction Vessels



Double Anchor



Single Anchor





Flat Blade Turbine Curved Blade Turbine





Marine Propeller



Paddle

HEAT EXCHANGER

Heat Exchangers are designed and manufactured to facilitate indirect heat transfer between the two fluids. The two fluids can be liquid and liquid or vapor and liquid. The shell-and-tube heat exchanger has two main areas -Tube side and Shell side. DSP Engineering is a proven Shell and Tube Heat Exchanger manufacturer.

Construction and Manufacturing of Shell and Tube Exchanger - Main components of Shell and Tube type heat exchanger are- Shell, Tube, Tube sheet, Baffles, Tie roads spacers.

Shell - The cylindrical shell can be fabricated from rolled plate or from pipes.





Tubes can be plain tubes. Or heat transfer surface area of the tubes can be increased many folds by using finned tubes or corrugated tubes. Shell tube heat exchanger with fin tubes are known as finned type heat exchanger and with corrugated tubes it is known as corrugated tube heat exchanger.

Tubes of the heat exchanger will be held on both the sides by Tube sheets. Tubes will be inserted through holes provided on tube sheets. Tubes are firmly fitted in the tube sheet either by welding or by mechanical or hydraulic expansion.

Baffles

Baffles are provided to support the tubes, to maintain the space between the tubes and it also channelized the fluid flow as per design through the shell side of heat exchanger.

Tie Rods and Spacers

Tie rods and spacers will hold the baffle assembly together; and will also maintain the spacing between the baffles. One end of the tie rods are secured to the tube sheet and other ends are secure in the last baffle.

Equipments are tested Hydraulically as per design Pressure.

STORAGE TANK

Vertical Storage Tank / Horizontal Storage Tank

We fabricate Storage Tank from 500 Liter to 60,000 Liter. Storage Tank can be made of Mild Steel or Stainless Steel as per application of the user. The big size (heavy volume) of storage tank we fabricate on site also.

Welding

Welding work is performed by Argon Arc process using Good Characteristic Filler rods on all S. S. Parts. M.S. Parts welding is performed by D. C Arc welding process using suitable electrodes.





Material of Construction

The Storage Tank Material of Construction is Carbon Steel and Stainless Steel.

All weld joints will be finished from inside and outside, S S. Parts is cleaned from inside and outside. Two coates of primer/redoxide will be given on M.S. parts from outside.

Equipments are tested Hydraulically as per design Pressure.

Service

After sales servicing is provide by our fully trained and competent engineers



SIGMA MIXER / DOUBLE ARM MIXER CUM KNEADER





Sigma Mixer

Z Type Blade

DSP ENGINEERING introduces the most sturdy, heavy duty SIGMA MIXER for trouble free long term operation for various application like mixing, kneading, grinding, dispersion, drying etc.

Our SIGMA MIXERS have application to process Viscous to highly Viscous material in various industries viz.

Adhesives, Break lining, Chemical, Confectionery, Carbon Black, Ceramic, Dyes & Pigments, Food Products, Fibre Glass, Grease, Lead Storage Battery, Magnetic Tape Coatings, Paint, Polymers Plastic, Putties, Plastic, Pharmaceuticals, Printing ink, Resin, Rubber, Soap & Detergent etc.

Sample Applications Of Sigma Mixers

Adhesives	Food and confectionery products	Pencil erasers	
Biscuit doughs	Gaskets and Gland Packings	Pharmaceuticals	
Butyl rubber	Grinding wheel preparations	Plastics	
Carbon pastes	Hot-Melts	Putties	
Ceramics	Inks and pigment products	Refractories	
Chemicals	Marzipan	Solid propellants	
Chewing gum	Mastics	Sugar pastes	
Crayon and pencil lead	Metal powders	Sealing compounds	
Explosives	Moulding preparations	Silicone rubber	
Fiberglass resin doughs	Soaps and detergents	Viscous rubber solutions	







CONSTRUCTION

SIGMA MIXER consist of "W" shaped container made of either Mild Steel or Stainless Steel 304 or 316 with jacket of Carbon Steel covering two side for heating or cooling application & dust free cover to get Vacuum if desired or normal cover. The mixing elements (Blades) are of Sigma Z type Steel casted and duly finished two in number which contra rotate inward fitted at close or specified clearance with the container to give thorough and uniform mixing. There is a Gland pusher with Gun Metal Bush which ensure minimal friction and extend the long life of mixing elements (Blades) Shaft.

DRIVE

The Drive Consists of Motor either TEFC Or Flameproof of Specified HP.1 440 RPM, Reduction Gear Box Of Reputed Make having suitable size and ratio, Spur Gears, are also provided of adequate size and having machine cut teeth, between the front and rear blade complete with guard suitable for grease lubrication.

STAND

The complete Mixer is Mounted on Steel Fabricated stand of suitable strength to withstand the vibration and give noise free performance.

FEATURES

SIGMA MIXER as the name suggests contains mixing element (Blades) of Sigma type two in number which contrarotates inward to achieve end to end circulation & thorough & uniform mixing at close or specified clearance with the container. The mixed product can be easily discharged by tilting the container with the help of screw with motorised system(motor and gearbox), by hand lever system of gears manually operated or by hydraulic & power pack system.

Standa	ard Mixer -	- Design Features Bearing Specifications Double row series, angular contact metric, ball bearing							bearing	
MODEL	CAPACITY	- LTRS.	MOTOR HP	Bearing	ID	OD	Width	LOAD RA	TING - KN	Speed Limit RPM
	WORKING	BRIM]	No.				Dynamic-c	Static-cd	grease
DSP-25	25	40	3	3209	45	85	30.2	40	40	5000
DSP-50	50	80	5	3210	50	90	30.2	45	45	4800
DSP-100	100	150	7.5 / 10	3211	55	100	33.3	49	52	4300
DSP-150	150	200	12.5	3213	65	120	38.1	67	73.5	3600
DSP-200	200	300	15							
DSP-300	300	400	25	3215	75	130	41.3	78	86.5	3200
DSP-400	400	550	30							
DSP-500	500	600	30	3217	85	150	49.2	102	118	2800
DSP-600	650	800	40							
DSP-1000	1000	1500	50	3218	90	160	52.4	112	132	2600
DSP-1200	1200	1800	50							
DSP-1500	1500	2000	60	22220	100	180	46	275	240	1900
DSP-2000	2000	2500	75	22222	110	200	53	355	315	1700

PLANETARY MIXER

Planetary mixers are used for highly viscous material for mixing in paste form. The mixing Unit assembly rotates with a Planetary Motion contains two sets of Blades viz one set of blade rotates as well as revolves and the other blade sweeps the entire circumference of the container.



Common Features

- Single or Double Planetary Blades.
- Floating scraper blade adjusts to bowl contour.
- Single base structure to for simplicity in mounting.
- Lift manually or hydraulically operated
- Special steel planetary gears, heat treated and hardened for durable, long life.
- Heating, Cooling or Vacuum Construction

Advantages

- Optimum homogenization of mixing material, even in challenging applications
- Low wear and minimum maintenance
- Minimum waste
- Mixing stars rotate on different axes
- Material is completely recirculated with only one revolution of the mixing tools





Mixer Blades



RIBBON BLENDER MIXER

Ribbon Blender are mostly used by Chemicals, Plastic, Pharmaceutical, Paints and food industries. The Ribbon Blender does homogenous mixing of powder and semi-wet material of different densities. The ribbon blades of different designs are used to suit the need of different materials. The Blender consists of a Semi-cylindrical shell inside which rotates a Shaft fitted with spiral inner and outer ribbons.

Ribbon Blenders are fabricated in capacities ranging from 50 liters to 8000 liters in MOC Mild Steel and Stainless Steel. Ribbon Blender can be designed in single part (welding) as well as two part (bolting). The outer ribbon blades pushes the material at the centre of the container and simultaneously the inner ribbon blades pushes the material at the either ends (opposite direction) of the container for better mixing.



Ribbon Blades



CONTRA MIXER (SHARE BAR MIXER)

Contra Mixer as the name suggest works on the principle of Contra rotation of Blades for simultaneous beating and scraping operation. The mixer is highly versatile and mostly used for manufacturing toothpaste, creams, cosmetics and viscous products.



The Mixing Assembly consists of series of paddle type blades of appropriate shape to move the material back towards the centre of the container. The paddle type blades are provided on the central shaft which runs through a hollow shaft on which other sets of blades are welded. Both the sets of blades intermeshes with each other and rotates in clockwise and anti-clockwise direction respectively and one sets also scraps the container

wall for thorough and uniform mixing of the material. Mixer Blades



The mixer is so designed to withstand high vaccum applied during the process for optimum mixing. Contra Mixer is provided with a jacket for cooling or heating as per the application.

We manufacture Contra Mixer with Capacity ranging from 100 litres to 5,000 litres in Material of construction SS 304 or 316.

FLUSH BOTTOM VALVE

Upper Opening Flush Bottom Valve

These are vessel valves used mainly in Reaction vessel to completely flash material from the bottom of the vessel. It avoids unreacted material being left in the bottom outlet nozzles. It is specially made as upper opening or down opening depending on the space between the agitator and the bottom of the vessel.

Flash bottom are available in various sizes and Material of Construction in Stainless Steel only.



Note:- Seat of flush bottom valve is also provided with Teflon bush.

PLOUGH SHEAR MIXER

Plough Shear Mixer has a horizontal cylindrical shape with flat end plates. The main shaft passes through the axis of the vessel and is supported at the end plates in specially designed bearing housing. The plough shaped mixing elements are arranged concentrically on the main shaft. The clearance between the ploughs and shell wall is minimum, to facilitate better mixing.







Plough with Shaft

Technical Data

Model	Working Capacity	HP (Plough Shear)	HP (Chopper)
DSP PSM 100	25 - 80	3 HP	1 HP X 1 HP
DSP PSM 200	60 - 200	5 HP	2 HP X 2 HP
DSP PSM 300	130 - 300	10 HP	3 HP X 3 HP
DSP PSM 500	160 - 500	15 HP	5 HP X 5 HP
DSP PSM 700	250 - 700	20 HP	5 HP X 5 HP
DSP PSM 1000	400 - 1000	25 HP	7.5 HP X 7.5 HP
DSP PSM 1500	500 - 1500	40 HP	7.5 HP X 7.5 HP



Types of Ploughs and Choppers

Application: • Chemicals • Minerals • Food • Break Lining and Industrial Estate • Glass Industries • Anima Feed • Fire Extinguishng Powder • Fertilizers • Dyes and Intermediates

Working Principle

The Mixer consistes of a cylindrical shell, fitted with series of ploughs rotated on the central shaft which incorporates ploughing motion. This pattern results in collisions and blending of both dry and wet materials. Plough Shear Mixer is long term operation for various applications like mixing, grinding, dispersion etc. Multiple Choppers are fitted on the mixing vessel between ploughs. Choppers can be with multiple blades or simple depending on the applications.. They prevent lump formation and better mixing. For controlling the mixing, the Chopper motor can be switched on and off independently.

Nozzles

Generally a feed inlet nozzle is provided at the top of the mixer with quick opening lid Rotary valve, Butterfly valve etc. can be provided depending on application.

Discharge nozzle is provided at the bottom of shell for discharging wet or dry material Operation of Discharge door shall be operated manually. This can be pneumatic or hydraulic depending on application. Besides this one or more Flat type Inspection doors can be fixed, on the front side of the mixer.

Jacket

Blender can be designed with jacket or without jacket for heading or cooling application.

Vacuum / Pressure

The Equipment can be designed for pressure and vacuum application where in solid/Liquid/gas phase reaction can be carried out.

Fluid Coupling is fitted in between motor and gear box to prevent shock loading on gear box, prevents the drawing of large current by the motor and damage to the drive elements due to frequent starting and stopping of motor.

Control Panel

On off switching for plough and chopper. Ammeter, Voltmeter, Temperature indicator Pressure indicator Audio Visual Alarm are housed in the panel.



HIGH SPEED STIRRER

High Speed Stirrers are extensively used for varied mixing needs of Chemicals Pharmaceutical, Foods, Dairy, Paints,



Coatings, Pigments, Varnish, Adhesives industries. We manufacture High speed Stirrers in Mild steel. Stainless Steel 304 or 316, with different types of Blades for different types of function viz. Saw Tooth Blade, Impeller Blade, Propeller Blade, Stator Rotor type Blade, Turbine Blade, Pitch Blade etc Different types of function of Mixing, Dispersion, Shearing, Emulsifying etc can be achieved by using different kinds of Blades. High Speed Stirrers will be performed using T.E.F.C or Flameproof Motors.

Blades











Pitch Blade

Propeller Blade

Saw Tooth Blade Stator Rotor Impeller

Turbine Blade

SPARKLER FILTER

Filter press is used for clear filteration of Pharmaceuticals, Chemicals, Beverages, Food, Varnish, Resin and other industries.

We Manufacture Filters in S.S. 304/316/316 L quality carbon steel internal with rubber lining. DSP Engineering Horizontal Plate Filters gives Optimum recovery of Product with Quick change of Cartridge in totally enclosed system ensuring Low operating cost in various sizes viz. 8", 14",18",24" & 33". Filter press are also available with jacket arrangement for hot filteration.



Technical Data

Dia of Plates	No. of Plates	Filter Area m2	Cake Space (Lit)	Flow Rate Lit/hr
8"	6	0.18	3.6	450
8"	8	0.24	4.8	550
8"	12	0.36	7.2	750
14"	8	0.75	22.5	1600
14"	10	0.93	27.9	2000
14"	12	1.12	33.6	2300
14"	16	1.5	45.0	2700
18"	10	1.5	30.0	3000
18"	15	2.3	46.0	4500
18"	23	3.5	70.0	7000
18"	30	4.5	90.0	8500
18"	36	5.4	108.0	9500

Filter Operation:

The liquid to be filtered is pumped into the FILTER TANK by Gear Pump. A CARTRIDGE PLATE ASSEMBLY consists of several filter plates arranged with supporting SCREENS, FILTER MEDIA and interlocking CUPS, is fitted in the filter tank. The liquid in the tank finds its way to the top of the plates through the circular openings on the side of the plates. The Filter media arrests suspensions and allows the filtrate to pass through them and the screens and to run down the central vertical channel formed by the interlocking cups. It then goes out through the outlet pipe. The filterate is collected from the outlet pipe.

SPIRAL FILTER

Spiral filters are used for Filteration of liquid with high solid contents in Chemical, Food, Adhesives and other industries. Discharge of the cake in dry or wet form can be done easily by opening and tilting of the filter Container and easily removing the spring catridge.





Technical Data

Model	Filtration Area	Cake Holding Cap
DSP SF 1	1m2	60 kg
DSP SF 1	2m2	100 kg
DSP SF 1	3m2	200 kg
DSP SF 1	4m2	300 kg
DSP SF 1	5m2	400 kg

Filter Operation

The liquid with high solid contents to be filter is pumped or charged by gravity into the filter container. A spring Catridge consists of spiral spring with a perforated pipe passing through it and supported by studs The spiral spring is covered with filter cloth and tied to the central hollow pipe at every turn of the spring to increase the filteration area. The mixture to be filtered is passed through the filter cloth. The solid remains on the filter cloth and the filterate is discharge through the perforated pipe end. DSP Engineering Spiral Filters are fabricated from Stainless steel, Mild Steel.

DRUM FLAKER

Drum Flaker Machine are used for making flakes after solidifying of Molten material. It offers continous formation of flakes of desired thickness on the water cooled drum by manual setting of the Scrapper.

The Flaker Drum is fabricated out of Mild Steel \ Stainless Steel plates of tested quality and is so designed so as to get uniform cooling effect. The Flaking surface of the Drum is dulyground and hard chromed with superior finish for fast and uniform formation of Flakes and prevention of dried material being stuck on the drum surface after scrapping. The drum is provided with a Hollow shaft for entry of Cooling medium. Rotary joint is provided on the hollow shaft at the Intel and Mist of Cooling medium.





Flaker Drum with Feed Tray

Flaker Drum with Scrapper

Bearing - The drum is provided with selfaligning spherical roller bearings to take care of smooth rotation and scrapping loads.

Gear Drive - The drum is rotated by Chain sprockets arrangement with the Reduction Box to absorb the vibratory load of the scrapper. The Gear Box is driven by Pulley Belt drive.

A Feed Tray is provided with Flaker machine with jacket for cooling or heating purpose.



CENTRIFUGES

The main parts of the Centrifuge are Bearing and Shaft, Basket, Drive and Brake.

Bearing And Shaft:

The Heavy duty bearing is choosed to withstand vibratory load and centrifugal forces duly fitted in bearing housing. The bearing housing is so designed and filled with grease ensuring long maintenancefree performance. The shaft is made up of suitable material and duly balanced independently without the basket for higher accuracy.

Basket:

The basket is made up of adequate thickness so as to withstand the loads caused by the centrifugal forces developed by material in the basket. It is perforated and duly balanced. The basket bottom is made up of Mild Steel and lined at the inner surface by Rubber or SS as required.

Drive:

The drive consists of Motor mounted at the basket casing driven through V belt with provision of the tensioning the belts. The Centrifuges are fitted with Mechanical Clutch pulley at the motor shaft.

Brake:

The Centrifuge are fitted with external shoe brakes with brake liners. The brakes are heavy duty type designed to bring loaded basket to stop quickly.

Material Of Construction:

The Centrifuge Material of Construction is Carbon Steel, Stainless Steel and Rubber lined.

Technical Data

Model	DSP-24	DSP-36	DSP-48	DSP-60
Basket Diameter mm	600	900	1,200	1,500
Depth mm	300	425	500	500
Max. Basket Revolution RPM	1,000	1,000	900	800
Filteration Area Mtrs sq.Area	0.56	1.2	1.88	2.35
Motors H.P.	3	7.5	15	20
Rated charge in Basket Ltrs	50	140	280	400





Note: We reserve the right to change size and design features.

Centrifuge Shell with Basket Fluid Coupling

Technical Specifications

	Carbon Sto	eel & Stainless	Carbon Steel Rubber Lined					
Model	DSP-24	DSP-36	DSP-48	DSP-60	MSRL-24	MSRL-36	MSRL-48	MSRL-60
Inner Basket Thickness	4mm	5mm	6mm	8mm	M.S5mm	M.S6mm	M.S8mm	M.S8mm
Top Lid Thickness	4mm	5mm	6mm	8mm	M.S5mm	M.S6mm	M.S8mm	M.S8mm
Outer Body Thickness	4mm	5mm	6mm	8mm	M.S5mm	M.S6mm	M.S8mm	M.S8mm
Pulley	Mechanical Clutch Pulley	Mechanical Clutch Pulley	Fluid Pulley	Fluid Pulley	Mechanical Clutch Pulley	Mechanical Clutch Pulley	Fluid Pulley	Fluid Pulley
Total Weight	800 kgs	1,000 kgs	3,800 kgs	4,000 kgs	900 kgs	1,200 kgs	4,000 kgs	4,200 kgs

Centrifuge Bearing Specifications

	Single Row Series, Cylindrical Metric, Roller Bearing NF - 300 With Lips On Inner Ring & Single Flane Outer Ring									
MODEL Bearing ID OD Width Dynamic-c Static-cd Speed Limit RPM grease Position										
DSP-24	NF-312	60	130	31	112	82.5	5,500	Тор		
	NF-311	55	120	29	101	72.5	5900	Bottom		
DSP-36	NF-315	75	160	37	173	133	4,400	Тор		
	NF-314	70	150	35	144	109	4,700	Bottom		
		Sing	gle Rov	v Series,	Deep Grove N	letric Radial 6	300 Ball Bearing			
DSP - 48	6320	100	215	47	133	132	3,200	Тор		
	6319	95	200	45	118	111	3,300	Bottom		
DSP - 60	6321	105	225	49	141	144	3,000	Тор		
	6320	100	215	47	133	132	3,200	Bottom		

3 POINT SUSPENSION CENTRIFUGES

Types

1. Manual Top Discharge Centrifuge



Manual Top Discharge type of Centrifuge is the basic type of Centrifuge for solid liquid separation. It contains Basket which is dynamically balanced in which a filter bag is placed which retains the solid within the Basket. The discharge of the solid cake is from the top which is done manually. It is a three point suspension under driven centrifuge.

2. Manual Bottom Discharge Centrifuge



Bottom Discharge type of Centrifuge is the basic type of Centrifuge almost like Top Discharge centrifuge for solid liquid separation. It contains Basket which is dynamically balanced in which a filter bag is placed which retains the solid within the Basket. The arrangement for the discharge of the solid cake is provided at the bottom which is done manually. It is quick discharge thereby saves on time and labour. It is a three point suspension under driven centrifuge.

3. Bag Lifting Top Discharge Centrifuge



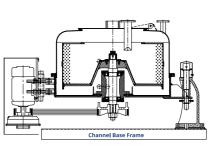
Bag Lifting Top Discharge type of Centrifuge is the basic type of Centrifuge for solid liquid separation. It contains Basket which is dynamically balanced in which a filter bag is placed which retains the solid within the Basket. This bag can be lifted using chain pulley manually or motorised mode. Thus the discharge of solid cake is instant and fast, facilitating faster and less labour involved.



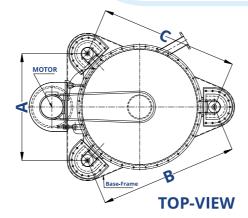
ENGINEERING An ISO 9001:2015 Certified

Sr. No	Model	Α	В	С
1	DSP 24	740	965	965
2	DSP 36	955	1255	1255
3	DSP 48	1290	1660	1660
4	DSP 60	1460	1915	1915





FRONT-VIEW



4 POINT SUSPENSION CENTRIFUGES

Heavy Inertia plate and Anti vibration Mounts helps to isolate the vibration in a 4 point centrifuge.

Advantages:

- 1. Simple operation
- 2. Level of Vibrations much lower
- 3. Easily mounted on upper Floors
- 4. Machine can be easily relocated
- 5. Firm grouting not required

Drive:

The drive consists of Motor mounted on Inertia plate driven through V Belt totally closed.

Drives & Transmissions:

- · Mechanical clutch pulley
- · Variable frequency \Drive (Inverter)
- · Fluid Coupling

Types



1.Manual Top discharge

In a manual top discharge type centrifuge the solid material is scooped out manually from the top of the centrifuge.

2.Baglifting Top discharge

The Filter bag placed inside the basket retains the solid within the basket. This bag can be lifted using chain pulley manually or motorized mode. Thus the discharge of solid cake is instant and fast facilitating faster batch with less labour involved.



3. Manual Bottom discharge

In a manual bottom discharge type centrifuge the solid material is scooped out by scrapper automatically and discharge the material from bottom.

VIBRO SHIFTER

Vibro Sifter works on gyro principle. The required gyratory motion is obtained from specially designed gyro motor, which is fitted underneath the vibrating assembly. The complete vibrating assembly is isolated from the base by means of specially designed rugged springs.

Vibro separators are circular unitary gyratory screens used to separate mass composition of solids from solids, liquid from solid and for gradation of materials as per particle size, having a very wide range applications.

This is accomplished by vibrating the screens in three different planes along the vertical axis by means of a specially designed vibratory motor having off centered weights at the top and bottom end of the motor shaft.

The top weight causes vibration in the horizontal plane which causes the material to move across the screen towards the periphery. The lower weight acts to tilt the machine which causes vibration in the vertical tangential axis

Salient Features:

- Noiseless, Maintenance free & high speeds.
- Available in various models providing screening diameter of 12", 20", 30", 36", 48", 72" etc
- Portable and compact.
- Electric power requirement less than other machine of the kind in the industries & lower energy.
- Consumption compared to reciprocating vibratory system.
- Standard machine are with TEFC motor explosion proof / flame proof motor material.
- All contact parts and screen of SS 304 AISI stainless steel material.
- SS 316 quality contact parts optional.
- Special requirement like brushing arrangements, SS lid with charging port and spring loaded outlets.
- Easy dismantling and cleaning facility for contact parts.
- Wide range of screen sizes 4-300 Mesh.
- Double & Triple deck screens with outlet and hopper for bottom deck available on request.

