

DEWATERING & SLUDGE HANDLING PLANTS & EQUIPMENTS

EQUIPMENTS > PROJECTS > SOLUTIONS



ABOUT US...

Whirler Centrifugals Pvt Ltd, Established in 1978 by Late Mr. Rahul Patel, A Mechanical Engineer and a Gold Medalist, as a small scale manufacturing company with space of 900 Sq. Ft floor area and couple of lathes, making barrel pumps. Today, Whirler Centrifugals Pvt Ltd spans to 50+ skilled employees, 50,000 Sq.ft of production area, latest machineries and software, and has marked itself as a leader in its field.

Since establishment, WHIRLERTM have added numerous products to its portfolio such as, vacuum pumps, water ring vacuum pumps, fluid couplings, peeler centrifuges, decanter centrifuges, rotary dryers, sludge dryers, decanters and so on.

With progress of India and its population, Whirler has shifted its focus to waste treatment technologies to provide technical, efficient and performant solution to the industry.

ENVIRONMENTAL POLICY: ISO 14001:2015

We understand ourselves as a technology company committed to environmental protection. Our responsibility for the environment is not limited to the conception of our products & services but also includes state-of-the art manufacturing technology to save the environment and conserve our resources.

QUALITY POLICY: ISO 9001:2015

Quality determines our thinking and actions in every single subprocess. We consider quality management our driving force to increase our performance, a performance our customers expect from us and we aim to improve it continuously.

PARTNERSHIPS & PROGRESS

We have worked with Environmental Agencies & Consultants, Project Contractors, Municipal & Government Water Supply Boards to provide best in class product & solutions. Whether your need is simple equipment or Complete projects, We work with hand in hand to achieve the best economical, efficient, environment friendly and robust solution to the given problem. No problem is too small, or too big. Please write to us at *info@whirlercentrifugals.com*.

TWO PHASE DECANTERS FOR SLUDGE DEWATERING

DEWATERING DECANTER CENTRIFUGE

0.1 M³/HOUR TO 100 M³/HOUR



Your Advantages

- A. High Reliability
 - a. Robust Construction
 - b. Simple Working Principle
 - c. Simple Installation
- B. Ease of Maintenance
 - a. Fewer Components
 - b. Simple Assembly
 - c. Standard Sizes
- C. Cost Effective
 - a. Longer Operating Life
 - b. Energy Efficient
 - c. Standard Spares

Whirler Advantages

- 1. Cost Effective Solution.
- 2. Standardised Parts.
- 3. Exact Outputs.
- 4. Energy Efficient.
- 5. Low Noise & Odor.
- 6. Low Wash Water Consumption.
- 7. Rapid Installation.
- 8. VFD Control as Standard.
- 9. Modular Wear Parts.
- 10. Prompt Services.



TWO PHASE DECANTERS FOR SLUDGE DEWATERING

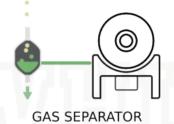
DEWATERING DECANTER CENTRIFUGE

0.1 M³/HOUR TO 100 M³/HOUR

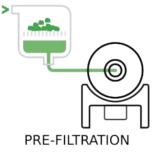


		Decanter Models					
	Model	Capacity Liters Per Hour (LPH)	Bowl Internal Dia (mm)				
20D 500-2000		500-2000	200				
	25D	2000-10000	250				
	35D	3500-20000	350				
	45D	10000-40000	450				
	60D	25000-100000	600				











Application Specific Other Accessories are Available on Request, contact us with your requirements.



	Screw Conveyor Configurations			
-	Screw Diameter (mm)	50mm to 600mm		
	Solid Flow Rate	50 kg/hour to 10000 kg/hour		
	Material of Construction	MS, SS304, SS316		
	Inclination (degree)	-30 Degree to +30 Degree		
	Motor Power (kw)	0.18kw to 10kw		

NON CLOGGING SCREW PRESS FOR BIO-SLUDGE DEWATERING

SELF CLEANING SCREW PRESS

0.1 M³/HOUR TO 100 M³/HOUR



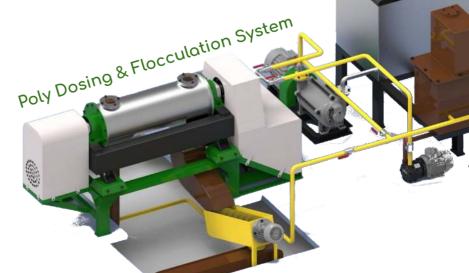
WHIRLER ADVANTAGES

- No Need For Thickeners, Sludge Storage, Or Separate Dosing Facilities.
- 2. No Need For Regular Operator Attendance.
- 3. Produces High-quality Filtrate, High Solids Recovery.
- 4. Extremely Low Power Consumption–up To 95% Less
- 5. Low Noise, Low Odor, Low Wash Water Consumption
- 6. Able To Handle Oily Sludges
- 7. Rapid Installation

Screw Diameter	100mm to 350mm
Flow Rate Capacity	1 m³/hour to 100 m³/hour
Sludge Rate Capacity	10 kg/hour to 200 kg/hour (Single Unit)
Material of Construction	SS304, SS316, SS316L, Nylon(Disks)
Gearbox	SEW, Rotomotive Make, Helical Type Gearbox

Application type	Input Free Solids (%)	Cake solids (%)	Solid Recovery (%)	Liquid Separation (by volume %)
Biogas Manure	0.2 to 15	15 to 35	60 to 90	98
STP Sludge	0.1 to 15	15 to 30	60 to 90	98
Food Waste	0.5 to 15	15 - 30	65 to 88	98



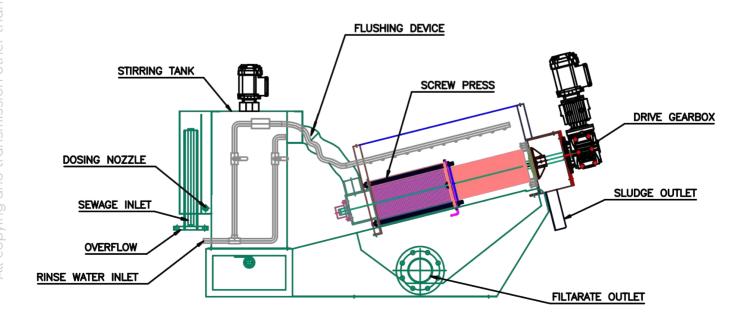


SELF CLEANING SCREW PRESS FOR BIO-SLUDGE DEWATERING

SELF CLEANING SCREW PRESS

0.1 M³/HOUR TO 100 M³/HOUR

FLOW DETAILS							
Item	Locati	on	From	То	Unit	Ren	narks
Flow Quantity	Inle	t	0.5	150	m3/hr	Per	unit
Flow Solid	Inle	t	0.1	10	Percentage		
Flow Solid	Outle	et	15	25	Percer	ntage	
Pressure	Inle	t	0	0.5	kg/cm2	not re	equired
Poly dosing	Inle	t	1	3	Kg / Ton of	Dry So	olid
Feed Type	Inpu	t	Sewage	Effluent	Sludge De	ewateri	ng
			SPECIFIC	CATION			
Noise Level 1M Distance		60	70	db			
Vibration Level	Vibration Level Mounting Point			70	um/s		
Voltage	Inpu	t	440	-	volt AC		
Switchgears	ABB / Siemens / Schneider / Equivalent						
Screw Motor	Standard TEFC induction motor						
Motor Control Variable Frequency Drive Othe							
Screw Motor	ABB / Crompton / Bharat Bijlee / Siemens Request						
Screw MOC	SS304	SS316	SS316L	Has	te Alloys	1,00	14000
Gearbox	SEW / Rotomotive / Bonfiglioli / Equivalent						
Hardening	Stellite Welding						
Inclination	Inlet to Outlet 15			degree			
Spray Nozzle	Inlet Pre	ssure	2	2.5	kg/cm2	Size	DN15



DRYER FOR SLUDGE MOISTURE REMOVAL & WEIGHT REDUCTION

WEDGE PADDLE TYPE DRYER

10 kg/hour to 500 kg/hour

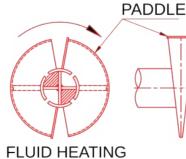
MODELS				
Model	Capacity Kg/Hr Output*	Paddle Dia (mm)		
20PD	5 to 25	200		
25PD	20 to 100	250		
35PD	75 to 250	350		
45PD	150 to 500	450		

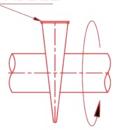


Configuration Options				
Material Options	MS, SS304, SS316			
Heating Medium	Steam, Thermic Fluid			
Energy Source	Electric, Wood, Coal, Dried Sludge, LPG, LDO			
Can be Installed After	Centrifuges, Belt Press, Filter Press, Drum Screen			
Optional Accessories	Output Conveyor, Scrubber, Nitrogen Purging			

Typical Performance					
Application type	Input Solids Moisture	Output solids Moisture	Weight Reduction		
Centrifuge Output	60-70 %	5-7 %	70-50 %		
ETP Sludge	60-70 %	5-10 %	60-50 %		
STP Sludge	65-75 %	5-10 %	70-85 %		









VERTICAL BASKET BATCH TYPE CENTRIFUGES FOR SLUDGE DEWATERING

VERTICAL BASKET CENTRIFUGE

5 KG/BATCH TO 600 KG/BATCH

Basket Diameter (Inch)	12", 18", 24", 36", 48", 60"
Batch Size in Kg	5kg to 600kg
Solid Removal Options	 Manual Top Discharge Lifting Bag Bottom Discharge
Slurry Feed Options	 Gravity Feed Pump Feed Screw Feed
Material of Construction	 SS304, SS316 Carbon Steel with Rubber Lining PTFE or ECTFE Coating
Construction Options	 3 Point Suspended 4 Point Supported Wheel Mounted Portable GMP or non-GMP Model
Safety Features	 Zero Speed Interlock Vibration Switch Nitrogen Purging Flameproof, Explosion Proof









FOR CONTINUOUS DEWATERING OF SALT & CRYSTALLINE PRODUCTS

PUSHER CENTRIFUGE

100 kg/hour to 25000 kg/hour

Basket Diameter	150mm to 1200mm			
Output in Kg/Hour	150 kg/hour to 25000 kg/hour			
Solid Conveying	 Mechanical Hydraulic Screw 			
Slurry Feed Options	 Gravity Feed Pump Feed Screw Feed 			
Safety Features	 Zero Speed Interlock Vibration Switch Nitrogen Purging 			



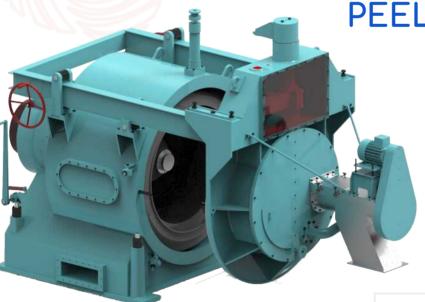
Application

- Salt Dewatering
- **Evaporator Plants**
- Crystalline Products
- Large Particles Dewatering
- Continuous Dewatering

Pusher Advantages

- Continuous separation
- Low energy Consumption
- Low residual moisture
- Low maintenance cost
- Compact design
- Less particle breakage
- Consistent product quality

FOR CONTINUOUS DEWATERING OF STARCH & BULK SOLIDS



PEELER CENTRIFUGE

100 kg/hour to 10000 kg/hour

Peeler Advantages

- Highest throughput in Any Centrifuges for Bulk Solids
- Continuous Operation
- Rugged Builds
- Long Operating Life High "G" Values
- Low Vibrations

Basket Diameter

630mm to 2100mm

Application

Native And Modified Starches, Artificial Sweeteners, Caffeine, Bulk Chemicals, Petrochemical Intermediates, Fertilizers, Chlorides, Sulfates, Calcium Compounds, Sodium Compounds, Fine Chemicals, Bleaching Agents, Surfactants, Herbicides, Pesticides, Catalysts, Dyestuffs, Plastics/Related Products, Abs, Resins, Pharmaceuticals/Related Products, Apis, Antibiotics

FOR BATCH TYPE SLUDGE DEWATERING

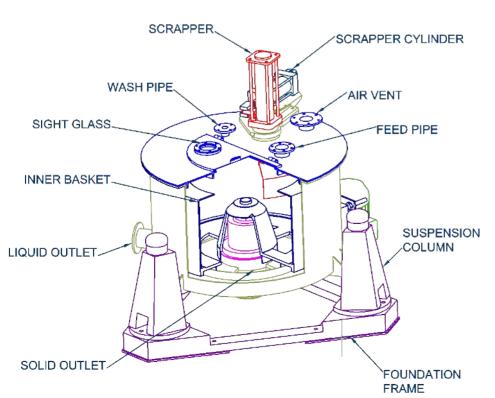
BOTTOM DISCHARGE CENTRIFUGE

50 kg/batch to 600 kg/batch

Basket Diameter	24 Inch to 60 Inch	
Solid Peeling	 Pneumatic Scrapper Hydraulic Scrapper Manual Scrapper 	
Slurry Feed Options	 Gravity Feed Pump Feed Screw Feed 	
Safety Features	 Zero Speed Interlock Vibration Switch Nitrogen Purging 	







Advantages

- Non Human Contact Solid Removal
- Low Cost Dewatering
- High Solid Capture Rate
- Simple Installation
- Compact design
- Low Moisture Content in Output

SOME OF OUR ESTEEMED CLIENTS

































SOME OF OUR CERTIFICATES

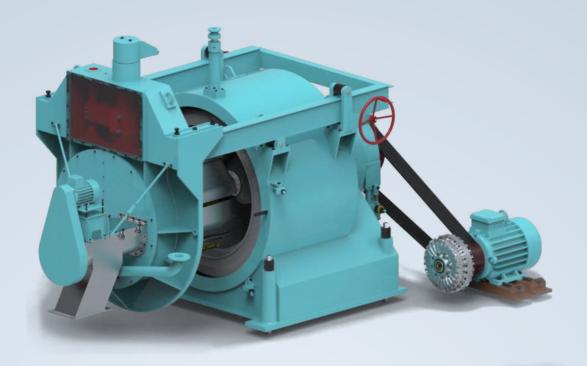






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(For Direction Search Whirler Centrifugals in Google Map)



