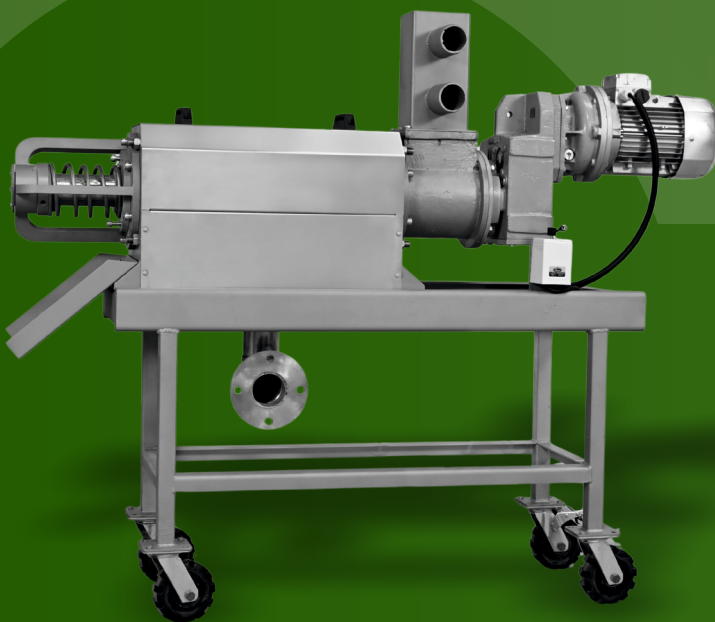




**Gemach  
Technologies  
Private Limited**  
The Way To Excellence



**MANUFACTURER  
SUPPLIER  
EXPORTER**



# About us

We are one of the most well known manufacturer of Environmental machine, specifically used for wastewater management based at Ahmedabad, Gujarat. Gemach Technologies Private Limited, established & founded on May 1st, 2025, provides complete solid-liquid separation solutions for wastewater management. Our team of experienced technical and management professionals offers a wide array of machines for all industries.

We're driven by innovation, consistently introducing new products each year under the Gemach Technologies brand. As experts in dewatering, we supply specialized equipment such as cow dung dewatering systems, wedge wire screw presses, and precise automatic and manual dosing systems. Our leading product is the advanced sludge dewatering screw press machine, engineered for peak performance.

Our vision at Gemach Technologies is clear: to offer unparalleled service and develop the most efficient and capable dewatering machines for diverse industrial uses.



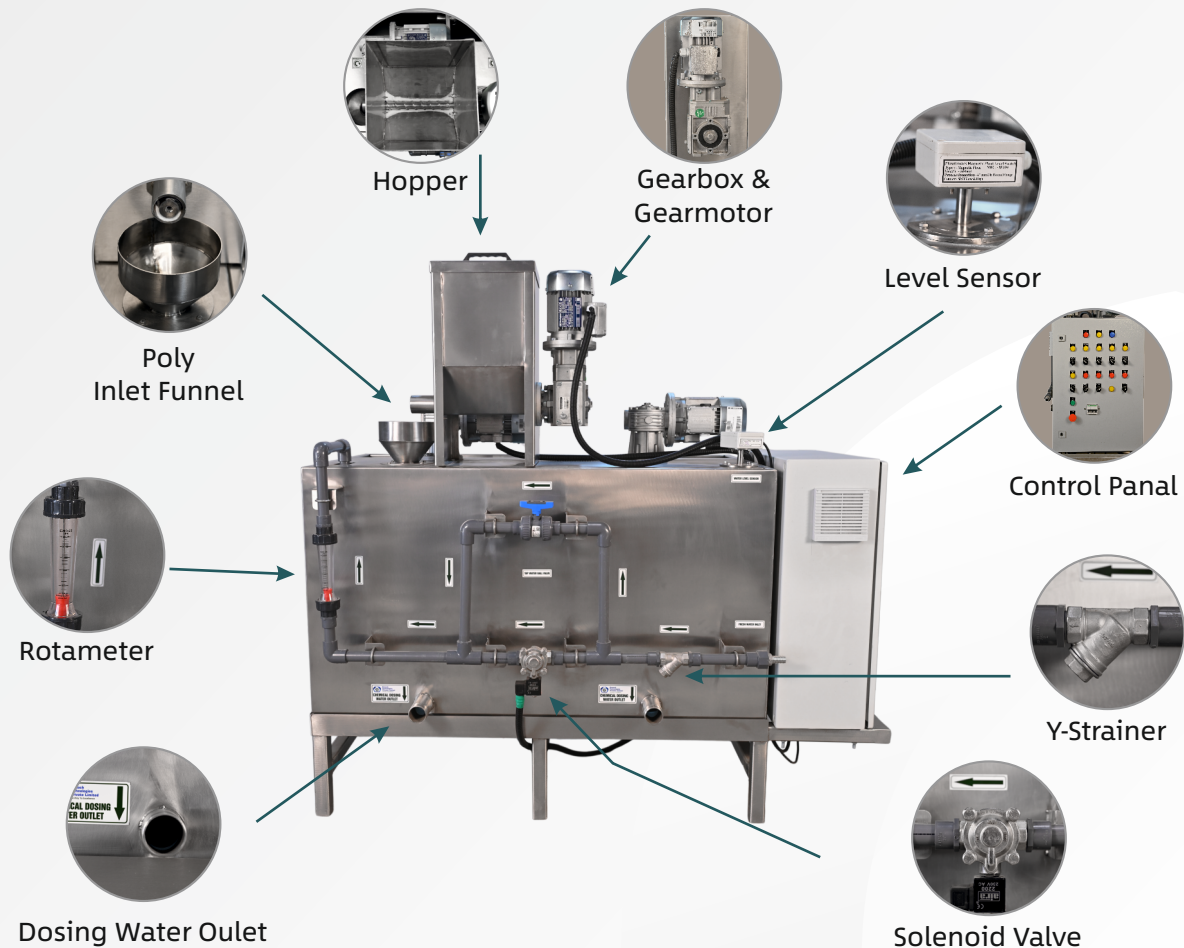
# AUTOMATIC DOSING SYSTEM

(SS304/316)

## Product Description & Overview

The **Automatic Dosing System** by Gemach Technologies Pvt. Ltd. is a compact, reliable, robust, skid-mounted and fully automated dosing solution, engineered for precise and controlled dosing of chemicals in water, wastewater, and industrial process and utility applications. Designed with proven Gemach engineering standards, the system ensures high accuracy, operational reliability, and long service life. The system ensures consistent dosing, reduced chemical wastage, and minimal manual intervention.

## DESIGN FEATURES



## Salient Features

- Fully automatic & continuous dosing operation
- PLC / Timer / pH-ORP based automation options
- Heavy-duty skid-mounted compact design
- High dosing accuracy with minimal chemical wastage
- Corrosion-resistant construction for long life
- Low maintenance & energy efficient
- Easy installation, operation & maintenance
- Custom-built as per site & process requirements

## Typical Installation Layout

- Chemical Storage Tank with Level Arrangement
- High-Accuracy Dosing / Metering Pump
- Control Panel with Automation Logic option
- Agitator / Mixer
- Safety Valves & NRV
- Interconnecting Piping & Accessories (UPVC/SS304)

## Technical Specifications

Parameter	Specification
Dosing Capacity	As per customer requirement
Tank Capacity	250L to 10000 L (HDPE / FRP / SS-304/SS316)
Pump Type	Diaphragm / Solenoid / Metering Pump
Control System	Level Switch /Timer / pH-ORP Controller/PLC
Power Supply	3Phase / 415 V AC
Mounting	Skid Mounted
Dosing Accuracy	±1%



## Key Advantages

- Precise, accurate & consistent chemical dosing
- Reduced chemical consumption & operating cost
- Enhanced process efficiency & compliance
- Safe operation with automated controls
- Reduce Operational cost
- Seamless integration with existing systems

## Optional Accessories

- Online pH / ORP Analyzer
- Flow Meter & Dosing Interlocks
- Level Switch & Alarm System (Sensors)
- PLC-SCADA / Remote Monitoring



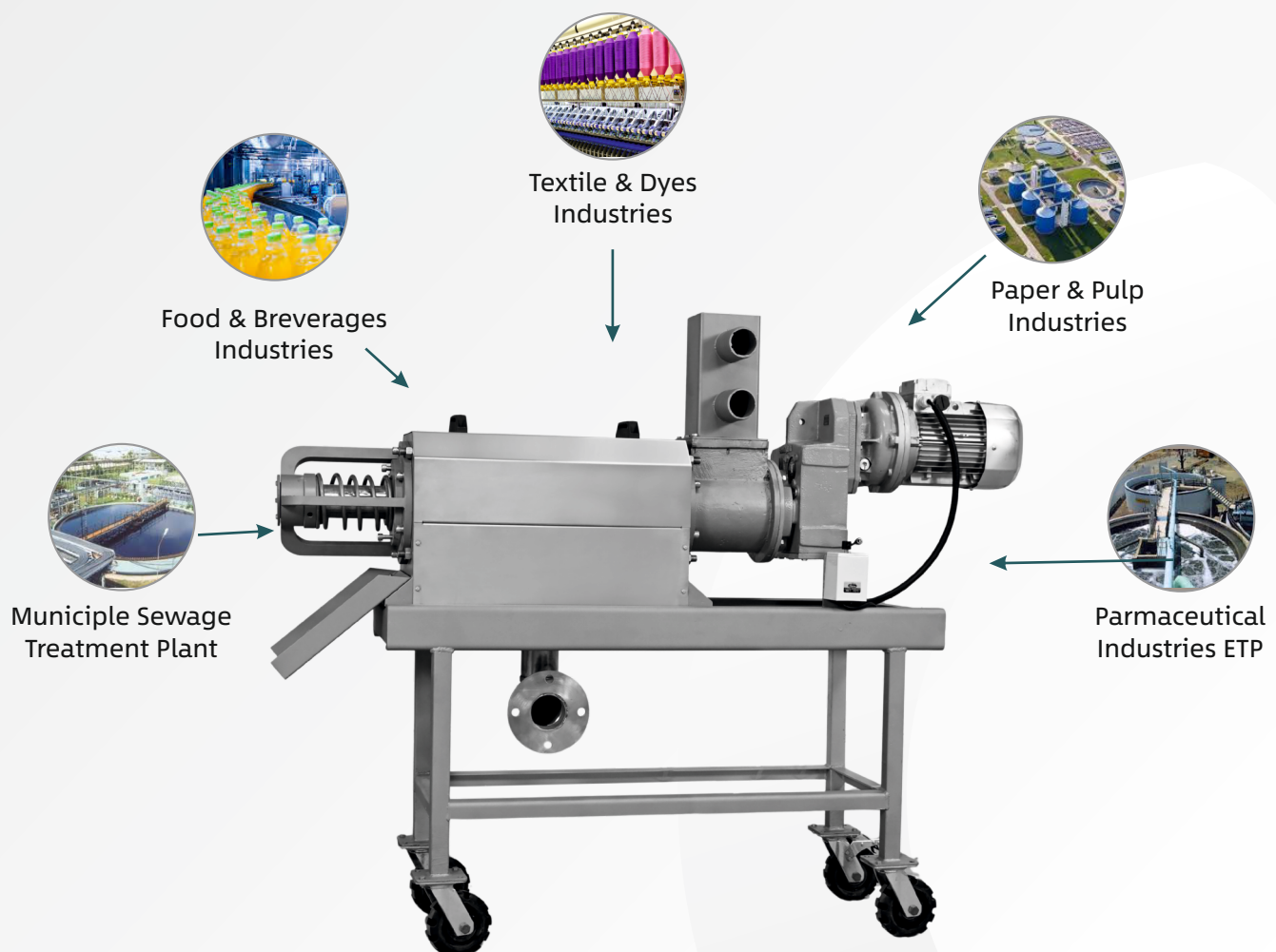
# Wedge Wire Dewatering Screw Press Machine

(SS304/316/MS)

## Product Overview

The **Wedge Wire Dewatering Screw Press Machine** is designed for efficient separation of solid and liquid from sludge or slurry. It reduces moisture content, minimizes handling volume, without doing dosing with chemicals or polyelectrolytes.

## APPLICATIONS



## Construction Details

- Inlet chamber / Hopper: SS fabricated hopper for uniform feeding
- Screw Assembly: SS 304/316 Precision-machined screw for effective pressing
- Screen Section: SS 304/316 High open-area wedge wire screen for maximum drainage
- Drive Unit: Electric motor with reduction gearbox
- Frame: Rigid SS 304/316 fabricated base frame

## Process Description

1. Raw Slurry is fed into the inlet hopper.
2. Material is conveyed through a screw press or dewatering mechanism.
3. Liquid passes through screen / wedge wire slots.
4. Dewatered solid cake is discharged at the outlet.
5. Filtrate liquid is collected separately for reuse or further treatment.

## Optional Accessories

- Variable Frequency Drive (VFD)
- Automatic Slurry Feed Pump
- Inlet chamber / Hopper
- Base Frame Wheels
- SS 304 / SS 316 Contact Parts
- Filtrate Collection Tank
- Control Panel

## Output Characteristics

- **Solid Cake:** Semi-dry & fibrous,
- **Liquid Filtrate:** In certain applications like animal waste by-products are Nutrient-rich liquid usable for irrigation or further treatment

GENERAL INFORMATION						
Item Code	WWDSP-01HP-SS304	WWDSP-3HP-SS304	WWDSP-05HP-SS304	WWDSP-10HP-SS304	WWDSP-20HP-SS304	
Description	Wedge Wire Screw Press 01HP-SS304	Wedge Wire Screw Press 03HP-SS304	Wedge Wire Screw Press 05HP-SS304	Wedge Wire Screw Press 10HP-SS304	Wedge Wire Screw Press 20HP-SS304	
Capacity in (Slurry/HR Depending Upon Input Material)	200 To 300 Kgs	600 To 900 Kgs	1 To 1.5 Tons	2 To 3 Tons	4 To 6 Tons	
Application & Usage	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	
Dry Solid output Moisture Contains	50 % to 75 %	50 % to 75 %	50 % to 75 %	50 % to 75 %	50 % to 75 %	
Output Solid in (kg/HR depending upon Input slurry consistency )	40 to 80 Kgs	120 to 240 Kgs	200 to 400 Kgs	400 to 800 Kgs	800 to 1600 Kgs	
MATERIAL OF CONSTRUCTION & DIMENSION						
Base Frame ( L X W X H )	SS304 ( 1210 X 400 X 580 )mm	SS304 ( 1260 X 508 X 700 )mm	SS 304 ( 1310 X 518 X 700 )mm	SS 304 ( 1224 X 620 X 605 )mm	SS 304 ( 1410 X 712 X 670 )mm	
Feeding Head ( SS 304 )	L=130 mm, ID=96 mm	L= 217 mm, ID= 166 mm	L=227 mm, ID=176 mm	L= 314 mm, ID= 227 mm	L= 410 mm, ID=306 mm	
Feeding Head ( Weight in Kg )	7 kg	25 kg	28 kg	44 kg	94 kg	
Overflow pipe	1.5 Inch Nipple	2 Inch Nipple	3 Inch Nipple	4 Inch Nipple	4 Inch Nipple	
Squeezing Unit ( L X W X H )	SS 304 ( 508 x 195 x 268 )mm	SS 304 ( 585 x 305 x 463 )mm	SS 304 ( 625 x 315 x 473 )mm	SS 304 ( 762 X 410 X 580 )mm	SS 304 ( 780 X 445 X 580 )mm	
Worm Shaft & Screw Conveyor	SS 304 ( L=972 & OD = 89 )mm	SS 304 ( L= 1232 & OD = 165 )mm	SS 304 ( L=1312 & OD =175 )mm	SS 304 ( L= 1586 & OD = 225 )mm	SS 304 ( L=1854 & OD = 304 )mm	
SS 304 Wedge Wire Screen	(L= 473 & ID= 90)mm	(L= 533 & ID= 166)mm	L= 573 & ID=176)mm	L= 730 & ID= 226)mm	L=752 & ID = 305)mm	
Aperture Range	0.3 -1mm	0.3 -1mm	0.3 -1mm	0.3-1 mm	0.3-1 mm	
Size Of Machine ( L X W X H )	( 1370 X 400 X 1000 )mm	( 1500 X 570 X 1350 )mm	(1550 X 580 X 1400 )mm	( 2241 X 783 X 1505 )mm	( 2676 X 800 X 1850 )mm	
Sound	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	
OPERATION / APPLICATION						
Composition of Slurry	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	
Feed Rate slurry ( Kg/HR ) Input	110 Kgs	330 Kgs	550 Kgs	1.1 Tons	2.2 Tons	
Power consumption (KW)	2.25	6.5	11.29	23	46	
Gearbox	1HP- Parallel Helical	03HP-Parallel Helical	5HPParallel Helical	10HPParallel Helical	20HPParallel Helical	
Gearbox & Gearmotor IE2 IP-66	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	
Gearmotor RPM	1455	1455	1455	1455	1455	
Conveyor Screw RPM	40-45	40-45	45-50	45-50	40-45	
Solid Material at Outlet (Kg/HR)	46	138	230	460	920	
Waste Water at Outlet (Kg/HR)	64	192	320	640	1280	
Solid retain in Wedge Wire Screen (Kg/HR)	0.02	0.02	0.02	0.04	0.08	
Moisture Content of Dewatering Material (%)	65 % To 75 %	65 % To 75 %	65 % To 75 %	65 % To 75 %	65 % To 75 %	
TOOLS , ACCESSORIES AND OPERATING & MAINTENANCE MANUAL						
Tool's	Provided	Provided	Provided	Provided	Provided	
OPTIONAL ACCESSORIES WILL BE PROVIDED & CHARGED EXTRA						
Hopper /Inlet & overflow Outlet chamber	SS 304	SS 304	SS 304	SS 304	SS 304	
Mud Pump	0.5HP Make:- (Lubi/MBH/Neerman/Equivalent)	01HP Make:- (Lubi/MBH/Neerman/Equivalent)	02HP Make:- (Lubi/MBH/Neerman/Equivalent)	05HP Make:- (Lubi/MBH/Neerman/Equivalent)	10HP Make:- (Lubi/MBH/Neerman/Equivalent)	
Electrical Control Panel (Standard)	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	
PLC-SCADA-(Automation Provision)	Provision	Provision	Provision	Provision	Provision	
Base Frame Wheels & Quantity (Qty-04)	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Not Provided as foundation is to be by client	

Note: Technical specifications and make of spares & accessories provided can be changed by manufacturer for the betterment and quality of product/machine.

# Cow Dung Dewatering Machine

(SS304/MS)

## APPLICATIONS APPLICATIONS



## Process Description

1. Raw Slurry is fed into the inlet hopper.
2. Material is conveyed through a screw press or dewatering mechanism.
3. Liquid passes through screen / wedge wire slots.
4. Dewatered solid cake is discharged at the outlet.
5. Filtrate liquid is collected separately for reuse or further treatment.

## Construction Details

- Inlet chamber / Hopper: MS / SS fabricated hopper for uniform feeding
- Screw Assembly: SS 304 Precision-machined screw for effective pressing
- Screen Section: SS 304 High open-area wedge wire screen for maximum drainage
- Drive Unit: Electric motor with reduction gearbox
- Frame: Rigid MS/SS 304 fabricated base frame

## Advantages

- Efficient solid-liquid separation
- Reduced transportation and drying cost
- Reduces moisture content.
- Save manpower & No Dosing required.
- Continuous and odor-controlled operation
- Long service life

## Utilities Required

- Electrical Power Supply
- Slurry Feed Arrangement
- Drain / Collection System

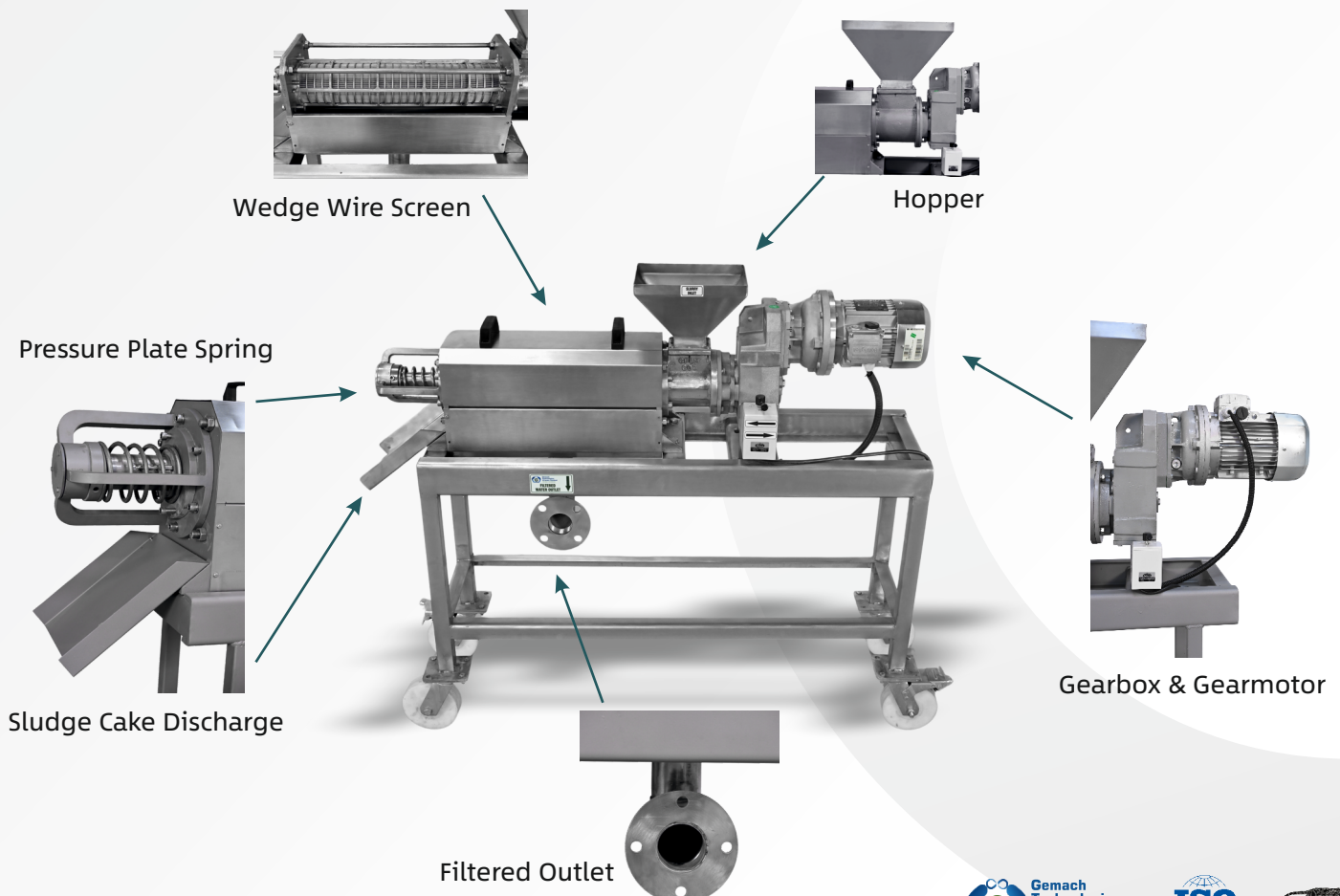
## Safety & Maintenance

- Enclosed drive system
- Emergency stop provision (optional)
- Easy screen cleaning and replacement
- Minimal lubrication points

## Typical Installation Layout

Compact skid-mounted unit suitable for indoor or outdoor installation near sheds or processing areas.

## Design Features



GENERAL INFORMATION					
Item Code	CD-01HP-MS	CD-03HP-MS	CD-05HP-MS	CD-10HP-MS	CD-20HP-MS
Description	Wedge Wire Screw Press 01HP-MS	Wedge Wire Screw Press 03HP-MS	Wedge Wire Screw Press 05HP-MS	Wedge Wire Screw Press 10HP-MS	Wedge Wire Screw Press 20HP-MS
Capacity in (Slurry/HR Depending Upon Input Material )	200 To 300 Kgs	600 To 900 Kgs	1 To 1.5 Tons	2 To 3 Tons	4 To 6 Tons
Application & Usage	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp	Biogas slurry, Animal Waste, Agro & Vegetable Waste, Paper & Pulp
Dry Solid output Moisture Contains	50 % to 75 %	50 % to 75 %	50 % to 75 %	50 % to 75 %	50 % to 75 %
Output Solid in ( Kg/HR depending upon Input slurry consistency )	40 to 80 Kgs	120 to 240 Kgs	200 to 400 Kgs	400 to 800 Kgs	800 to 1600 Kgs
MATERIAL OF CONSTRUCTION & DIMENSION					
Base Frame ( L X W X H )	MS ( 4" X 1"3' X 1"9' ) Feet	MS ( 4"1" X 1"7' X 2"3' ) Feet	MS ( 4"3' X 1"7" X 2"3' ) Feet	MS ( 4"1" X 2"1" X 2" ) Feet	MS ( 4"7" X 2"4' X 2"3" ) Feet
Feeding Head ( MS )	L=130 mm, ID=96 mm	L= 217 mm, ID= 166 mm	L=227 mm, ID=176 mm	L= 314 mm, ID=306 mm	L= 410 mm, ID=306 mm
Feeding Head ( Weight in Kg )	7 kg	25 kg	28 kg	44 kg	94 kg
Overflow pipe	1.5 Inch Nipple	2 Inch Nipple	3 Inch Nipple	4 Inch Nipple	4 Inch Nipple
Squeezing Unit ( L X W X H )	SS 304 ( 508 x 195 x 268 )mm	SS 304 ( 585 x 305 x 463 )mm	SS 304 ( 625 x 315 x 473 ) mm	SS 304 ( 762 X 410 X 580 )mm	SS 304 ( 780 X 445 X 580 )mm
Worm Shaft & Screw Conveyor	SS 304 ( L=972 & OD = 89 )mm	SS 304 ( L= 1232 & OD = 165 )mm	SS 304 ( L=1312 & OD =175 ) mm	SS 304 ( L= 1586 & OD = 225 )mm	SS 304 ( L=1854 & OD = 304 )mm
SS 304 Wedge Wire Screen	(L= 473 & ID= 90)mm	(L= 533 & ID= 166)mm	(L= 573 & ID=176)mm	(L=730 & ID= 226)mm	(L= 752 & ID = 305)mm
Aperture Range	0.3 -1mm	0.3 -1mm	0.3 -1mm	0.3-1 mm	0.3-1 mm
Size Of Machine ( L X W X H )	(4"5' X 1"3' X 3"3' ) Feet	(4"9' X 1"9' X 4"4' ) Feet	(5"1' X 1"9' X 4"6' ) Feet	(7"4' X 2"6' X 4"11' ) Feet	(8"9' X 2"7' X 6"1' ) Feet
Sound	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment	<85 dBA at 1 meter from the equipment
OPERATION / APPLICATION					
Composition of Slurry	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%	Raw Slurry/Sludge 50%+Water 50%
Feed Rate slurry ( Kg/HR) Input	110 Kgs	330 Kgs	550 Kgs	1.1 Tons	2.2 Tons
Power consumption (KW)	2.25	6.5	11.29	23	46
Gearbox	1HP- Parallel Helical	03HP- Parallel Helical	5HP- Parallel Helical	10HP- Parallel Helical	20HP- Parallel Helical
Gearbox & Gearmotor IE2 IP-66	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent	Bonfiglioli / Rotomotive / PBL/Equivalent
Gearmotor RPM	1455	1455	1455	1455	1455
Conveyor Screw RPM	40-45	40-45	45-50	45-50	40-45
Solid Material at Outlet (Kg/HR)	46	138	230	460	920
Waste Water at Outlet (Kg/HR)	64	192	320	640	1280
Solid retain in Wedge Wire Screen (Kg/HR)	0.02	0.02	0.02	0.04	0.08
Moisture Content of Dewatering Material (%)	65 % To 75 %	65 % To 75 %	65 % To 75 %	65 % To 75 %	65 % To 75 %
TOOLS , ACCESSORIES AND MANUAL PROVIDED					
Tools	Provided	Provided	Provided	Provided	Provided
OPTIONAL ACCESSORIES WILL BE PROVIDED & CHARGED EXTRA					
Hopper /Inlet & overflow Outlet chamber	MS	MS	MS	MS	MS
Mud Pump	0.5HP Make:- (Lubi/MBH/Neerman/Equivalent)	01HP Make:- (Lubi/MBH/Neerman/Equivalent)	02HP Make:- (Lubi/MBH/Neerman/Equivalent)	05HP Make:- (Lubi/MBH/Neerman/Equivalent)	10HP Make:- (Lubi/MBH/Neerman/Equivalent)
Electrical Control Panel (Standard)	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard	Panel Box MS-Rittal standard
PLC-SCADA-(Automation Provision)	Provision	Provision	Provision	Provision	Provision
Base Frame Wheels & Quantity (Qty-04)	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"	Caster Wheel 6" x 2"

Note: Technical specifications and make of spares & accessories provided can be changed by manufacturer for the betterment and quality of product/machine.

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