

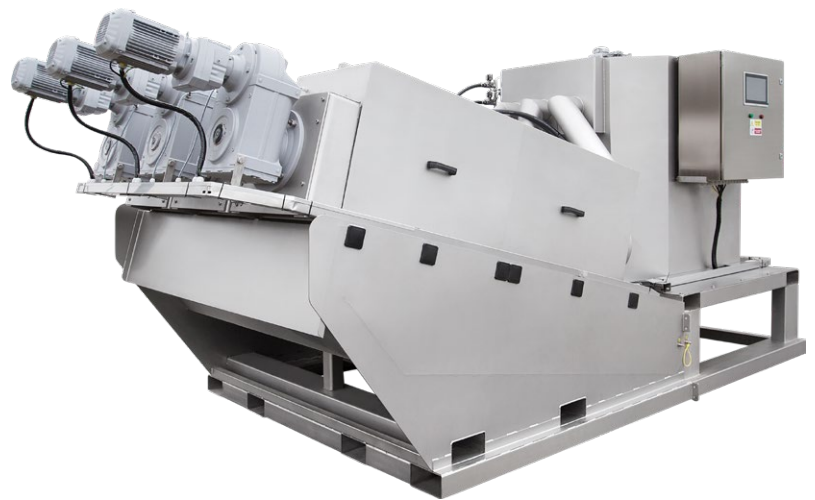
# Dewatering Screw Press

Efficiency and Reliability in Dewatering

[clearfox.com](http://clearfox.com)

## The advantages of the ClearFox® Dewatering Screw Press

- Low energy consumption
- Efficient sludge thickening
- Simple installation and operation
- Suitable for municipal and industrial applications
- Automatic operation



## MP-DW Dewatering Screw Press

The Dewatering Screw Press represents the efficient and reliable management of sludge water, a secondary product across various sectors.

This device is designed to exceed the capabilities of traditional sedimentation and dewatering methods, reflecting our commitment to advancing environmental management technologies.

### Product description

The Dewatering Screw Press is a key piece of technology in modern wastewater treatment strategies, offering unparalleled efficiency in thickening sludge water up to 24% dry-matter content. Its design and functionality not only meet the needs of wastewater treatment plants but also cover the thickening of industrial water and wastewater within food processing operations. Integrating

this press within new WWTP designs can significantly reduce construction costs by eliminating the need for large sedimentation tanks, offering a cost-effective and environmentally friendly solution.

### Dewatering Process Description

Sludge water goes into the Dewatering Screw Press via a feeder pump, leading to an inlet chamber that optimizes flow via an overflow system.

A critical step in the process involves the injection of a flocculant (polymer) into the sludge water, which helps solid particles clump together into "flocks".

This flocculation process, taking place in the mixing chamber, is enhanced by slow agitation with the flocculant.

Next, the sludge is moved to the screw assembly, which features fixed and variable helix plates that act as a self-cleaning filter.

This reliable design ensures a smooth dewatering process, finishing with a spring-loaded closure plate that maximizes dewatering efficiency by increasing the internal pressure.

### Some Fields of Applications

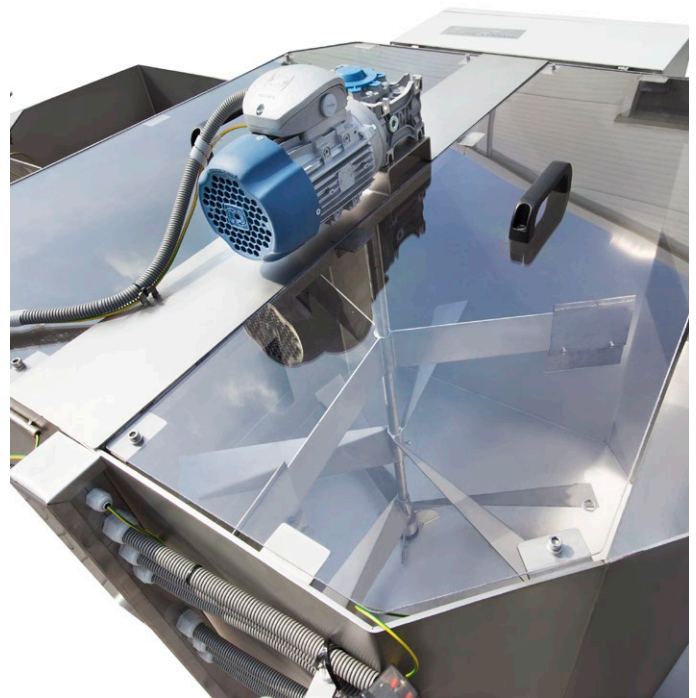
- Municipal Waste Water Treatments
- Biogas Stations
- Slaughterhouses
- Oil, Gas & Mining Industry
- Milk and Dairy Production
- Wine and Beverage Production
- Distillery Industry
- Food Processing
- Grease Trap
- Industrial waste processing

The Dewatering Screw Press's versatility makes it an essential component in various settings, significantly reducing sludge volume and thereby lowering transportation and disposal costs. Its features, backed by a robust design featuring high-grade stainless steel construction and specialized surface treatments, ensures optimal performance even in challenging environments.



### Key Benefits

- Versatility: Suitable for a broad range of applications across different industries.
- Automated Operation: Features an automated mode for operator-free operation.
- Cost-Effectiveness: Investment return could be as little as one year
- Energy Efficiency: Designed to operate with minimal energy consumption.
- Ease of Installation and Operation: User-friendly design ensures undemanding installation and operation.
- Durability: Surface treatment of critical parts guarantees resistance to wear.
- High Performance: Capable of efficiently thickening sludge from 0.5–5% at the inlet to 15–25% at the outlet, with specific sludges up to 45%.
- Low Noise and Vibration: Low RPMs ensure quiet and smooth operation.
- Technical and maintenance support
- Modifiability & Accessories
- Technical development and enhancement



## Technical data

Model	Screw Dia- meter	D.S. Capacity [kg/h]		Power	Weight	Dimensions		
	[mm]	Inlet Sludge Content		[kW]	[kg]	L [mm]	H [mm]	B [mm]
		0.2-0.5%	0.5-5%					
MP-DW-131	Ø 130	6	10	0.5	300	2200	1100	600
MP-DW-201	Ø 200	20	30	0.9	580	2900	1350	800
MP-DW-301	Ø 300	40	60	1.1	980	3600	1750	1000
MP-DW-302	2x Ø 300	80	120	1.9	1350	3800	1800	1300
MP-DW-303	3x Ø 300	120	180	2.7	1700	3950	1750	1750
MP-DW-401	Ø 400	100	140	1.9	1350	4350	1750	1250
MP-DW-402	2x Ø 400	200	280	3.4	2700	4900	2200	1600
MP-DW-403	3x Ø 400	300	420	4.9	3750	5100	2200	2200

