



DeWater™ Systems Filter Belt Press

PEWE Innovative Quality

The unique technologies built into each **PEWE DeWater™ System** filter belt press are designed to maximize solids recovery while minimizing chemistry usage. Selection of the appropriate belt press system depends upon the sludge solids characteristics encountered.

PEWE products and systems are designed in-house and produced under tight quality control. Support services are provided for product life.

PEWE offers products worldwide to the Food, Petrochem, Pharma, Metals, Electronics, other industries and Municipal market.



Model DBP-705 Belt Press



PEWE DeWater™ System Advantages

Twin Gravity DeWATERING Zones-

- Improves efficiency prior to solids entering wedge zone.
- Produce a drier high solids cake.

Graduated Pressure Process-

- Solids enter wedge under low pressure, meet increasing mid and final high pressure.
- Maximizes shearing force with steadily increasing compression.

High Tech Powder Coated Roller Assembly-

- Anti-abrasion non-corroding roller surface improves static friction between the rollers and belts.
- Perforated rollers increase moisture removal.

Adjustable *Air Glide™* System-

- Unique air cushion belt tensioner applies seamless pressure on each belt extending their service life.
- Variable frequency drive allows for maximum operation flexibility.





DeWater™ System Design

DeWater™ Systems come with an array of belt options to meet your specific solids requirements. Each filter belt press has a wide solids loading range and can accommodate future plant process changes, higher throughput or cake dryness requirements. **DeWater™ Systems** are designed in a range of sizes suitable for both small and large process applications. Tell us your requirements and **PEWE** can recommend a solution to match your specific needs.

DeWater™ System Construction

PEWE utilizes heavy duty imported welded frame construction components which enables the application of high pressure for maximizing dewatering. This allows a given press to form high cake solids. Carrying this principal further, units are constructed in either AISI 304 stainless steel or painted carbon steel. Each **PEWE DeWater™ System** operates by precise control of an automated panel. **DeWater™ Systems** are designed throughout for a long service life. **PEWE** puts it all together in an easy to clean and maintain dewatering package solution.

DeWater™ Features

- Large Filtration Capacities**
- Maximize Performance**
- Sustainable Solids Feed Rates**
- High Solids Capture**
- Compact Footprint**
- Triple Belt Wash System**
- Easy of Maintenance**

DeWater™ System Model Sizes

<u>Model Unit</u>	<u>Belt Width</u>	<u>Capacity(m³/hr)</u>	<u>Dimensions</u>
DBP-705	0.5 meter belt	0.5-3.0	4.7W x 12.7L x 7.0H
DBP-710	1.0 meter belt	3.0-6.5	6.3W x 12.7L x 7.3H
DBP-715	1.5 meter belt	4.0-9.5	7.4W x 13.0L x 8.5H
DBP-720	2.0 meter belt	5.0-13.0	9.0W x 13.0L x 8.5H
DBP-725	2.5 meter belt	7.0-15.0	10.5W x 16.0L x 9.5H
DBP-730	3.0 meter belt	8.0-20.0	12.1W x 16.0L x 9.5H

Filter Cloth Selection

Model	Wire Diameter	Thick-ness (mm)	Tensile strength (kgf/cm)	Density	Air Perme-ability (m3/m3h)	Applications
FC-501	Warp 0.5 Weft 0.8	1.85	Warp 200 Weft 150	Warp 60 Weft 20	8,000	General sludge Food industry, Slaughter house
FC-502	Warp 0.5 Weft 1.0	2.00	Warp 200 Weft 190	Warp 40 Weft 14	13,000	Industrial sludge
FC-503	Warp 0.5 Weft 0.8	1.90	Warp 200 Weft 150	Warp 64 Weft 20	9,000	Industrial sludge
FC-504	Warp 0.7 Weft 0.9	2.80	Warp 200 Weft 150	Warp 50 Weft 15	18,000	Mining, Cement, Extraction sludge
FC-505	Warp 0.5 Weft 0.7	1.90	Warp 200 Weft 150	Warp 60 Weft 20	7,000	Municipal wastewater treatment plant





