

PLT Series Shaftless Screw Press

The PLT Series of presses is designed to convey, dewater, wash and compact solids captured from waste treatment screening devices. The presses are used to remove free liquids from solids. The PLT can either be built as a stand-alone press or a transport and press system.

Method of Operation

The PLT press utilizes a shaft-less spiral to transport solids. The spiral axis is aligned in an upward slope, typically in a range of a 5° to 35° angle.

The solids are fed into a receiving hopper where free liquid is removed through a drainage zone screen. The spiral draws solids along a transport section. At the end of the transport section solids are forced into a screen cylinder for compaction and extraction of water. An active shower cycle with a special selection of nozzles is applied over the outside surface of the screen cylinder. After compacting, the solids plug is broken up and discharged by gravity through a chute.

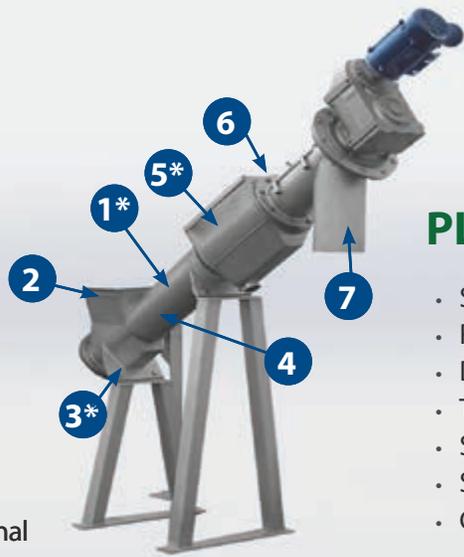
During the transport and compaction process the solids are washed. A small fraction of the shower water flows down the transport tube counter current to the solids, creating a sluice box effect. In the compaction zone, fine solids and waste effluent are flushed away with fresh water during active showering and compaction.



Application

The PLT press is available in a variety of sizes with screws ranging from 8 to 16 inches (203 to 406 mm) in diameter. The transport zone can be lengthened to suit site conveying requirements.

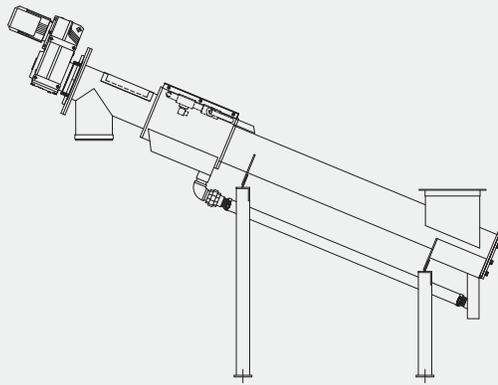
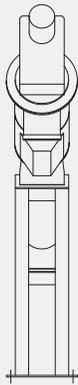
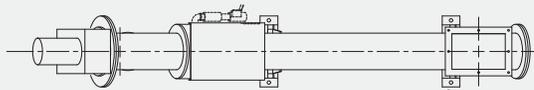




* Internal

PLT Details

- Shaftless spiral
- Receiving hopper
- Drainage zone screen
- Transport section
- Screen cylinder
- Spray bar
- Gravity chute



Features

- 304 stainless steel construction
- Solids chute
- Shaft-mounted, TEFC, geardrive motor
- Spray bar

Options

- 316 stainless steel construction
- Control panel
- Compressed solids bagger, continuous plastic sleeve
- Extensions as required for conveying

The capacity of the PLT may vary due to characteristics of the solids material and the slope of the unit.

PLT Series Press Capacities		
Model	Diameter - inches (mm)	yd ³ /hr (m ³ /hr)
PLT 8	8 (203)	2 (1.5)
PLT 12	12 (305)	6 (4.6)
PLT 16	16 (406)	12 (9.2)

This chart is only to be used as a guide. For specific sizing inquiries please contact JWC Environmental.



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