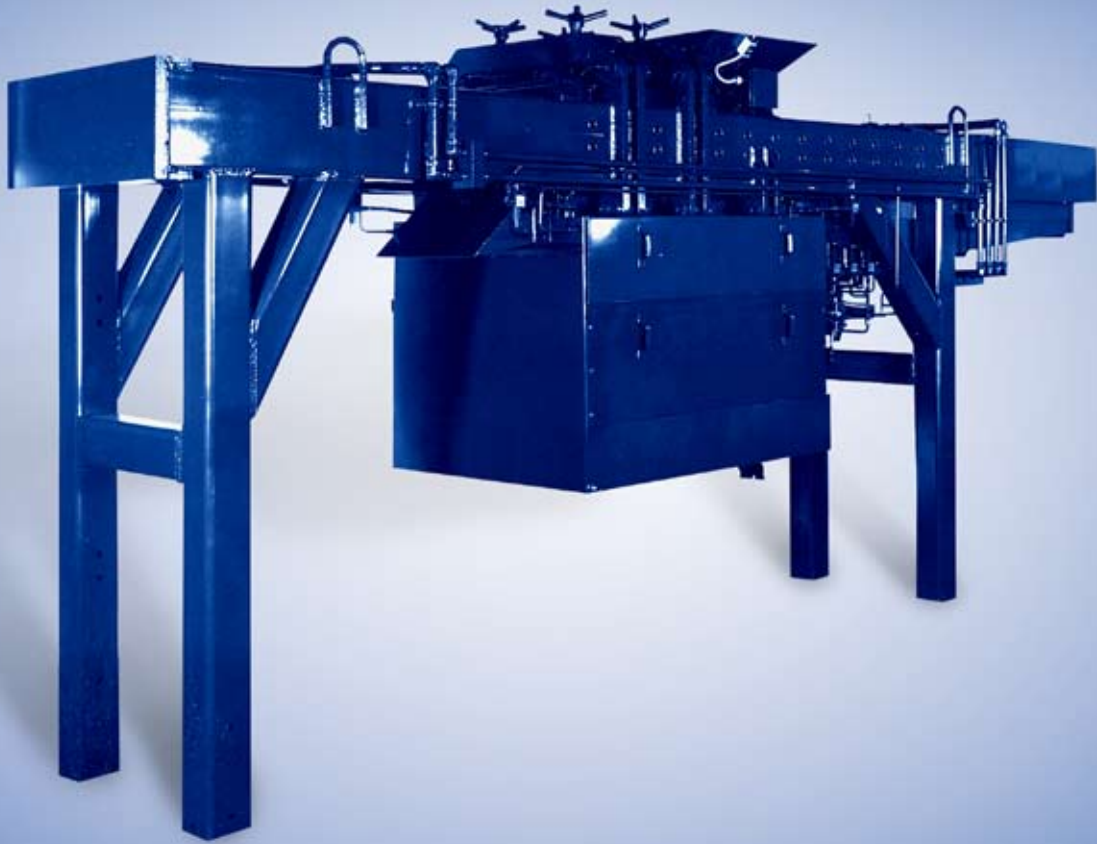


Sludge Briquetter



Ecoclean Briquetter



Ecoclean

Wet sludge dewatering



Briquetter operates automatically, prompted either by a full load, or by the start of a timed index cycle

Technology

Ecoclean Sludge Briquetter unit is designed to receive wet grinding sludge or similar compressible material for dewatering. After wet sludge is introduced into the inlet chute, fluid is squeezed out of the material by means of two hydraulically operated rams. As one of the rams squeezes the sludge, the fluid flows through a Wedgewire screen into a collection sump mounted below for pumping to process waste or returning to the filtration system.

Process

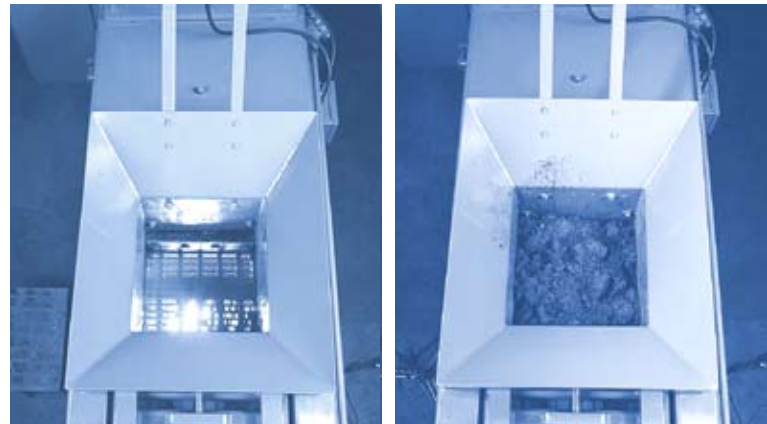
Wet sludge is introduced from a feed conveyor or filter discharge chute. Briquetter automatically senses the presence of sludge and begins a cycle. The compression ram advances pushing the wet sludge into the compression chamber. The ram retracts to allow more sludge to be added to the compression chamber. Initially the ram compresses the sludge at a low pressure allowing the free fluid to drain out of the sludge. As the time cycle continues, the squeeze pressure increases, improving the dewatering process. After the time cycle is over, the plugging ram retracts opening the compression chamber and the compression ram advances discharging the compressed brick of sludge.

Capacity		
Type	Dimensions	Cubic feet per hour
Hydraulic	6" x 18" x 18"	12 to 16
Hydraulic	3" x 12" x 12"	2 to 3

Briquetter process

Operation

1. Sludge Briquetter operates automatically, either when a detector senses a full load of sludge in the hopper, or when the index timer starts a cycle (top photos).
2. Pressure on the sludge is applied at a uniformly increasing rate for one or more minutes. On the larger, hydraulically-powered models, the compression ram retracts mid-cycle and accepts more sludge for compression, increasing efficiency.
3. During the compression cycle, the fluid in the sludge is recovered to the catchment tray under the unit (middle photo).
4. After the compression cycle is complete, the compression chamber is opened and the dried swarf is ejected for recycling or disposal (bottom photo).



Hopper



Fluid recovered to catchment tray



Dried swarf

Sludge Briquetter

Features

- Automatic operation
- Minimum floor space required
- Recovers valuable oil and coolant
- Produces dry sludge for over-the-road transportation, recycling and recovery / disposal
- Replaceable stainless steel filter screen
- Compact design allows installation under filter discharge ramp
- Can pay for itself in as few as eight months, due to savings from salvaged fluid

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Briquetter



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