



DesignOtt Engineers Inc.

Accelerated Erosion Testing System

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Motivation

- One component can cause critical failure of a costly and complex system
- Safety of individual people is key when working within the facility

Requirements

1. Contents can be safely drained into a separate container.
2. Operates with a specimen 10 cm diameter, 5 cm thickness.
3. Rotational speed 60-100 rpm.
4. Runs for 2 weeks constantly \pm 3 hours.
5. Volume of device is below 1 m³.

Critical Elements of the Design

- Unique dual-filter system traps particles of different sizes for analysis
- High-torque motor promotes constant circulation
- Temperature control allows the introduction of a new variable to simulate various conditions
- Compact design makes this model eco-friendly and inexpensive