

Steel Plate Digestion Tank Using Injection Nozzles

Developers: JFE Engineering, FUSO Corporation

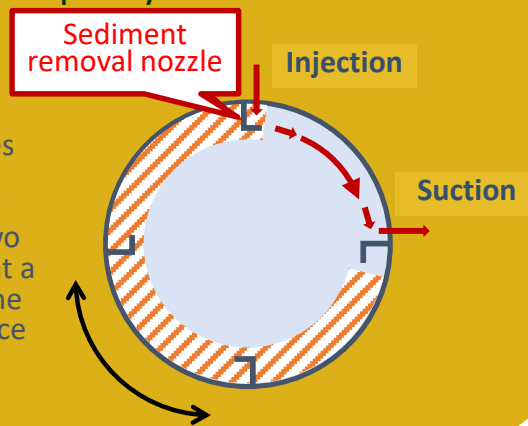
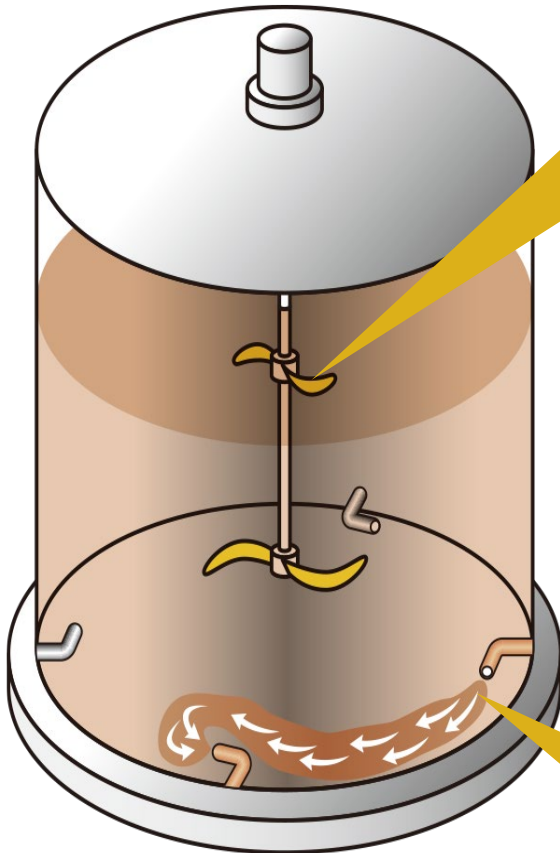
Steel plate and sediment removal structures achieve shortening construction periods and energy-saving.

Swept wing agitator

High mixing efficiency at a low rate rotation, resistance against screenings twining requires no invert operation

Sediment removal structure

- A nozzle on the bottom injects digestion sludge to flow sediment like sand
- The next nozzle sucks digestion sludge and sediment to discharge them to the outside partly



* The nozzles remove sediment by switching two operations at a quarter of the circumference of a tank.

Scope of application:

sewage sludge (primary/excess sludge)

*Mesophilic digestion

*The tank body has a service life of 35 years with appropriate maintenance, including corrosion control coating.

Needs

* **Dewatering performance varies depending on sludge properties. Ask JS for details.**

- Use digestion gas as soon as possible by reducing the construction period of the digestion tank

Benefits

- The digestion tank body made of steel plate can reduce the construction period
- Impeller-type agitators save energy
- Efficient flow and discharge of sediment make maintenance easy