

PC TANK EGG-SHAPED DIGESTERS

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Egg-Shaped Digesters

The Egg-Shaped Digesters (ESDs) are often used as sludge digester because they have effective shape as a mole efficient digestion process. The use of ESDs has proven to be advantageous about the sludge digestion process and is gradually becoming more common. The sediments flow to the bottom of the cone by the curved surface shape, and can be easily and continuously removed.

Conversely, a crust of light particles forms on the surface of the sludge. Because their surface area is smaller than that of circular tanks, crust removal becomes easier and more efficient.

Post-tensioning tendons are used vertically and horizontally in this type of tank. Vertical tendons are typically looped, anchored in lower lifts and foundations, and extend through subsequent lifts. Horizontal tendons are often stressed at blockouts, hence buttresses are not needed.

Construction of digester tanks (ESDs) usually progresses in horizontal rings, where post-tensioning is applied in the circumferential and vertical directions.

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