



Thickeners

Diefenbach's range of Thickeners has been designed and engineered based on decades of experience with liquid-solid separation.



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Thickeners

Diefenbach's range of Thickeners includes Paste (P Series) and Elevated High-Rate (HR Series) Thickeners. These Thickeners are all composed of a tank, feed pipe, feedwell, rake (and pickets, depending on the style), a bridge for the rake drive mechanism and a chemical dosing system.

Slurry enters the central feedwell of the Thickener, where it is mixed with chemicals/polymers to achieve rapid settling of the solid particles within the slurry. As these solids settle, rotating rakes help to dewater and compact the mud bed, as well as move the settled solids toward the discharge cone in the bottom center of the tank. The thickened solids are discharged out the bottom of the tank, while the solids-free liquid overflows the weir around the top of the tank.



Elevated High-Rate Thickeners - HR-Series

Diefenbach HR-Series Elevated High-Rate Thickeners are used for recovering immediately reusable process water or for separating waste solids from leach liquor. This industrial liquid-solid separation equipment features a fabricated sag steel floor on larger diameter tanks.

The elevated tank design allows for open access under the tank for more efficient pumping of the underflow. It allows for easier access points for maintenance.



Model	Tank Diameter
HR - 5	5m
HR - 6.5	6.5m
HR - 8	8m
HR - 10	10m
HR - 12	12m
HR - 15	15m
HR - 18	18m
HR - 21	21m
HR - 24	24m

FEATURES & BENEFITS

- Advanced modern feedwell and auto-dilution options
- Liquid recovery rates of 85% or greater
- Advanced automation and remote monitoring packages
- Reduce volume of waste material



Complete Testing To Ensure Proper Size And Selection

Diefenbach's team of process engineers and lab technicians perform material testing in an in-house laboratory to ensure the right Thickener type and size are selected for each application. Diefenbach uses laser defraction testing, static and dynamic settling testing, as well as the analysis of size gradation to ensure optimal Thickener operation.



Density Monitoring And Automated Rake Lifts

Diefenbach's Thickeners are equipped with density monitoring systems that allow for optimal control of bed flow, underflow density and automation of underflow pumping and rake lift settings.

Additional advanced automation and remote assistance packages are also available.



Wide Range Of Industries

Solid liquid-separation is used across many industries. Diefenbach Thickeners have been used to provide separation solutions for the mining and aggregates, battery recycling, chemicals, food and beverage, PET recycling and wastewater treatment industries.

Paste Thickeners - P-Series

Diefenbach's P-Series Paste Thickener can achieve the highest concentration of solids and maximum recovery of process water or leach liquor. The discharged solids resemble a paste, from which liquid can no longer freely flow.

Paste Thickeners provide savings in downstream processing costs and in storage facility costs. The high percentage of solids can help producers reduce, and sometimes eliminate, impoundment size, structure and volume.



Model	Tank Diameter
P - 3	3m
P - 5	4.8m
P - 6	6.1m
P - 8	7.6m
P - 10	9.5m
P - 12	12m
P - 15	15m



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