

DENSITY REGULATION SYSTEM



The Density Regulation System (HK DRS) works as a supplement to the active circuit of the separation plant. It extends the life of the slurry (reduction of exchange due to improved cut-point) and increases the capacity of the fine treatment equipment consisting of a filter press and/or a centrifuge setup. The containerized system developed by Herrenknecht is equipped with a hydrocyclone stage, a collection tank and pumps, installed in a bypass to the active tank.

Importance of Density Regulation Systems

- › Extend quality & lifetime of active slurry
- › Reducing variety of density levels in the waste bentonite suspension
- › Improving fines treatment capacity 10-20%
- › Possibility to pump thickened underflow back into dewatering screens or dump it into waste slurry tanks

Advantages of the Herrenknecht Density Regulation System

- › Increase of fines treatment capacity
- › Lower costs due to longer slurry lifetime
- › less fine treatment equipment needed
- › High quality components
- › Integration into HK.Connected data management
- › Modular design & easily expendable
- › Low cut points

Technical Specifications

- | | |
|----------------------------------|--------------------------|
| › Containerized | 20-40 ft |
| › Size of cyclones | 4 inch |
| › Cutpoint D_{50} approx. | 10 - 15 μm |
| › Maximum flow rate (p. cyclone) | 20 m^3/h |
| › Thickening of up to | 1.45 kg/l |

