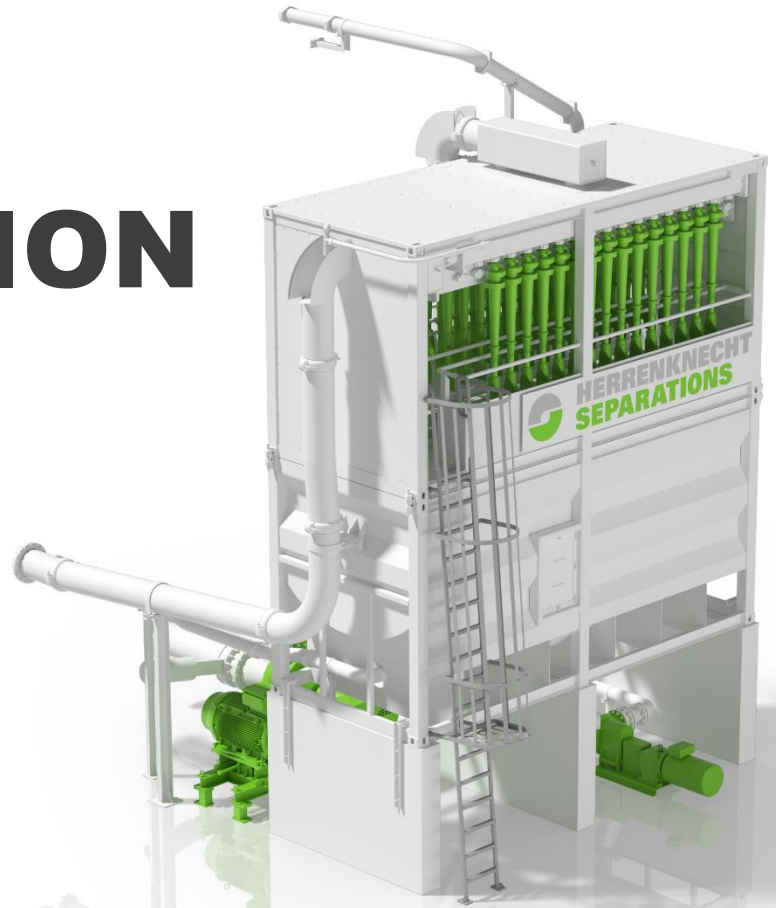


# DENSITY REGULATION SYSTEM



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
- › 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 Herrenknecht.Connected
- › Modular design & easily expendable
- › Low cut points

## Technical Specifications

- |                                    |                      |
|------------------------------------|----------------------|
| › Containerized                    | 20 ft                |
| › Size approx. (L x W x H)         | 6 x 2.5 x 6 m        |
| › Size of cyclones                 | 4 inch               |
| › Cutpoint D <sub>50</sub> approx. | 10 µm                |
| › Maximum flow (per cyclone)       | 20 m <sup>3</sup> /h |
| › Thickening of up to              | 1.45 kg/l            |
| › Max No of hydrocyclones          | 70 No                |



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