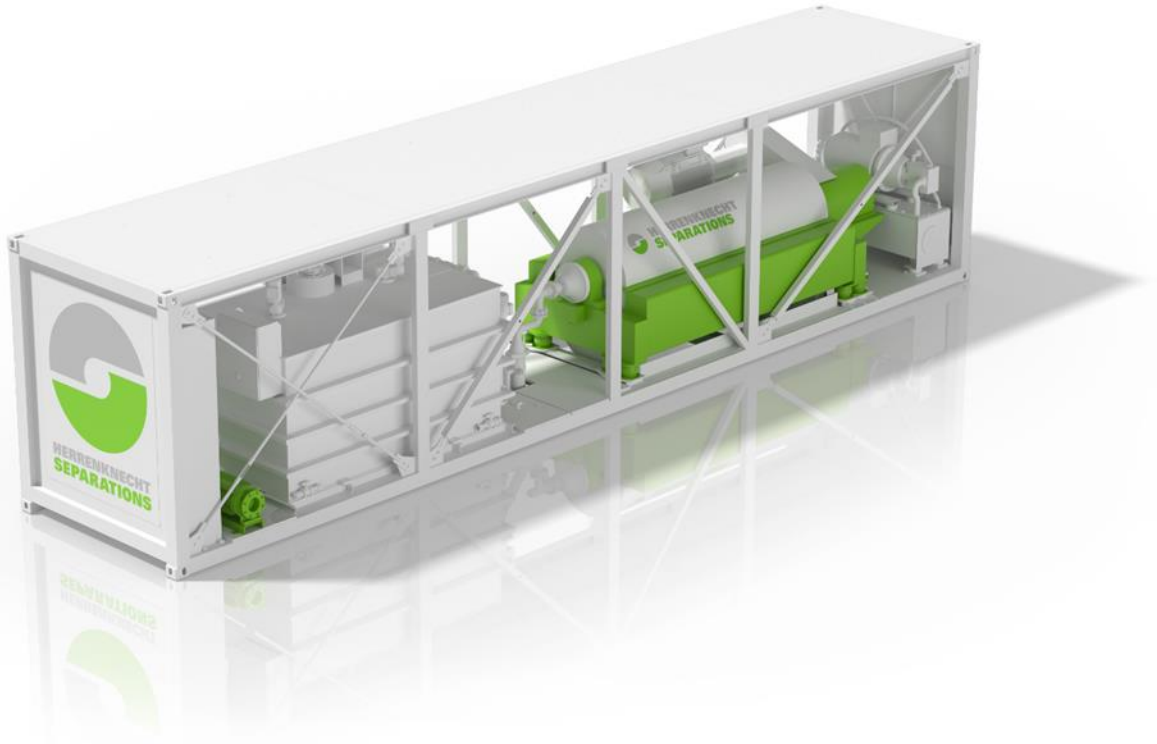


# TUNNELLING CENTRIFUGES



Centrifuges are used for secondary treatment of suspensions loaded with fine particles such as silt and clay. To meet the increasing requirements of modern tunneling, Herrenknecht has developed the Tunnelling Centrifuge (HKC). This ensures lower disposal costs and significantly improves the quality of the centrate medium. Different designs and capacities offer a solution for almost any project challenge. The HKC can be used in combination or as an alternative to filter presses. The compact and modular container design allows easy handling, quick assembly and disassembly, as well as minimum space requirements.

## Importance of centrifuges

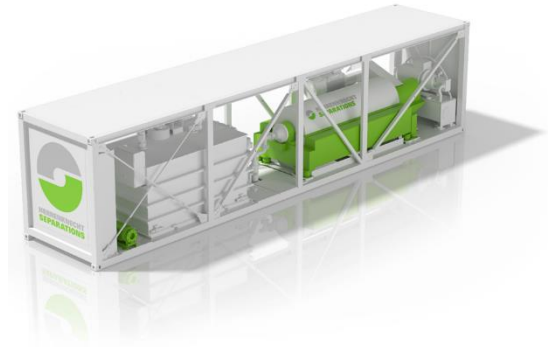
- › Extension of slurry lifetime
- › Performance factor for TBMs
- › Separation of ultra-fine particles from the suspension for good disposal conditions
- › High capacity
- › Proven technology
- › Applicable for various industries

## Advantages of HKC

- › Container-cased design
- › Modular & expandable
- › Designed for tunnelling
- › Decanter operation for highest capacity
- › Highly efficient separation
- › Fast assembly & disassembly
- › Low maintenance & operation cost
- › Integration into HK.CONNECTED data management system

# Herrenknecht Tunnelling Centrifuges

## Technical specifications



- > Containerized
- > Low residual moisture of discharged solids
- > Modular and expandable
- > Continuous processing
- > Suitable for powder and liquid flocculants and polymers
- > High centrate water quality

### Basic items

- > Decanter centrifuge
- > Switch cabinet with control touch panel
- > Feed pump
- > Flocculant station

### Optional items

- > Process centrate tank with pump
- > Access stairs and walkways
- > Erection frame
- > Conveyor belt

Type	Feed capacity max*	Solids discharge (DS)**	Bowl diameter	Installed power***	Container size
HKC 8	≤ 25 m <sup>3</sup> /h	≤ 8 t/h	530 mm	80 kW	20 ft.
HKC 10	≤ 35 m <sup>3</sup> /h	≤ 10 t/h	530 mm	90 kW	20 ft.
HKC 15	≤ 50 m <sup>3</sup> /h	≤ 15 t/h	650 mm	150 kW	20 / 40 ft.
HKC 18	≤ 60 m <sup>3</sup> /h	≤ 18 t/h	820 mm	200 kW	40 ft.
HKC 25	≤ 80 m <sup>3</sup> /h	≤ 25 t/h	920 mm	260 kW	40 ft.

\* depending on geology, properties of the feed suspension like viscosity and density, polymers, coagulants, flocculants

\*\* in operation with Density Regulation System (DRS) the solids discharge will increase by approx. 10-20%

\*\*\* including feed pump and flocculate agent station

## Important parameters to know

- > Geology
- > Density and solids content of the feed suspension
- > Bentonite content in the feed suspension
- > Feed volume
- > Polymers, flocculants and coagulants
- > Local restrictions and circumstances (like disposal restrictions, etc.)

### HERRENKNECHT AG

77963 Schwanau  
 Germany  
 Phone +49 7824 302-0  
 Fax +49 7824 302-3403  
 separations@herrenknecht.com  
 www.herrenknecht.com

