

SEPARATION PLANTS



Herrenknecht Separation Plants (HKS) are used in fluid-assisted tunnelling for the primary separation of solids from the suspension (slurry). They are multi-stage, modular, containerized and pre-assembled for easy handling, fast installation and commissioning. Efficient and reliable components, specifically designed according to the geological requirements and to the maximum excavation parameters, guarantee safe and trouble-free operation under optimal disposal conditions. This ensures that the separation process does not become a bottleneck in the tunnelling process.

Importance of separation on jobsites

- › Essential for AVN, HDD and Direct Pipe Systems
- › Optimized disposal costs
- › Efficient recovery of water
- › Extension of the slurry lifetime
- › Securing the advance rate of boring systems

Advantages of HKS

- › Stable and robust separation process
- › Easy setup and operation
- › Capable of handling high solids loads
- › Durable and adjustable components
- › High G-forces with multi-deck shakers
- › Hydrocyclones with low cutting points
- › Wear resistant pump systems

Herrenknecht Separation Plants

Technical specifications

- > Adaptable for all requirements
- > Modular
- > Small footprint
- > Low hydrocyclone cut points
- > Wear resistant & interchangeable components



Additional options

- > PLC controller
- > Fine Stage for improved cut point
- > Centrifuge inline integration
- > Further peripheral components to complete the jobsite

		HKS 100	HKS 150	HKS 300	HKS 500
General technical information					
Max. flow rate	m ³	100	150	300	500
Coarse screen deck	m ²	2	3.2	4.8	6.4
Dewatering screen deck	m ²	2	3.2	4.8	6.4
Vibration motors	kW	2 x 4	2 x 8	4 x 5.6	4 x 5.6
1st Hydrocyclone stage					
Number of cyclones		2	1	2	2
Nominal diameter		10"	15"	15"	15"
Pump drive	kW	30	30	45	75
2nd Hydrocyclone stage					
Number of cyclones		-	4	8	12
Nominal diameter		-	6"	6"	6"
Pump drive		-	30	55	90
Dimensions	L x W x H	5.4 x 2.5 x 2.6 m	6.1 x 2.5 x 6.0 m	6.1 x 2.5 x 6.0 m	6.1 x 2.5 x 6.0 m
Integrated tank volume	m ³	24	20	20	20
Total installed power	kW	40	80	125	190

