

**HKS100 – HKS500**

# EFFICIENT SEPARATION FOR MICROTUNNELLING



## **HKS100 – HKS500**

- › Optimized for the treatment of microtunnelling slurries
- › Stable and robust separation process
- › Easy setup and operation
- › Capable of handling high solids loads
- › Field-proven PU screen system – durable and adjustable
- › Powerful g-forces with double-deck shakers
- › Well-designed cyclones for a better fine-cut even under difficult conditions
- › Wear resistant rubber-lined pumps

**PIONEERING  
UNDERGROUND  
TECHNOLOGIES**



# HKS100 – HKS500

## Technical specifications

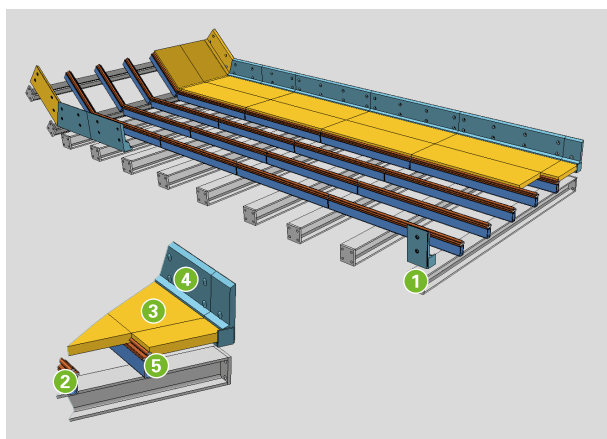
GENERAL	HKS100	HKS150	HKS300	HKS500
› Max. flow rate	100 m³/h	150 m³/h	300 m³/h	500 m³/h
› Coarse screen	2 m²	3.2 m²	4.8 m²	6.4 m²
› Dewatering screen	2 m²	3.2 m²	4.8 m²	6.4 m²
› Vibration motors	2 × 4 kW	2 × 8 kW	4 × 5.6 kW	4 × 5.6 kW
<b>1. Cyclone stage</b>				
› Number of cyclones	2	1	2	2
› Nominal diameter	10"	15"	15"	15"
› Pump drive	22 kW	30 kW	55 kW	75 kW
› Cutting Point d50 (1.2 g/cm³ density)	24 µm	33 µm	33 µm	33 µm
<b>2. Cyclone stage</b>				
› Number of cyclones	–	4	8	12
› Nominal diameter	–	6"	6"	6"
› Pump drive	–	30 kW	55 kW	90 kW
› Cutting Point d50 (1.2 g/cm³ density)	–	20 µm	20 µm	20 µm
› Dimensions (l/w/h)	5,400 mm/2,438 mm/2,590 mm	6,050 mm/2,438 mm/6,000 mm	6,050 mm/2,438 mm/6,000 mm	6,050 mm/2,438 mm/6,000 mm
› Integrated tank volume	24 m³	20 m³	20 m³	20 m³
› Total rated power	40 kW	80 kW	125 kW	190 kW
› Total weight	11 t (including tank)	20 t	24 t	28 t

### Screen System

Herrenknecht has developed an extremely wear resistant polyurethane screen system. The screens are especially designed to stand the high g-force and abrasive solids being excavated by tunnelling machines. Different screen sizes, geometries and materials are available.

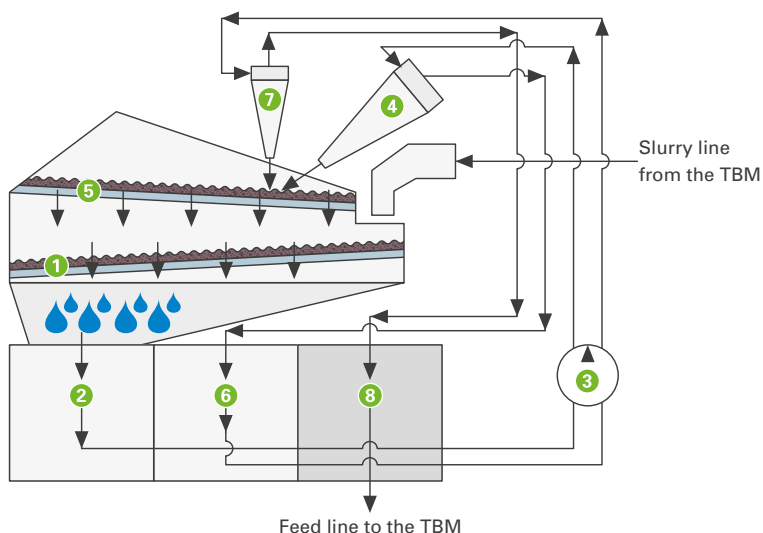
Rapid replacement screens:

- ① Lateral support profile
- ② Snap-in support
- ③ Screen element
- ④ Side support
- ⑤ Longitudinal support



### The Separation Process

- ① Coarse screens
- ② Process tank 1
- ③ Centrifugal pump
- ④ Coarse cyclones
- ⑤ Dewatering screens
- ⑥ Process tank 2
- ⑦ Fine cyclones
- ⑧ Process tank 3



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