

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

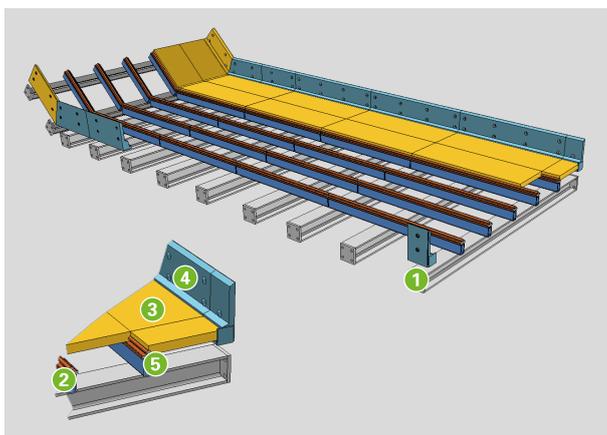
GENERAL	HKS100	HKS150	HKS300	HKS500
› Max. flow rate	100 m <sup>3</sup> /h	150 m <sup>3</sup> /h	300 m <sup>3</sup> /h	500 m <sup>3</sup> /h
› Coarse screen	2 m <sup>2</sup>	3.2 m <sup>2</sup>	4.8 m <sup>2</sup>	6.4 m <sup>2</sup>
› Dewatering screen	2 m <sup>2</sup>	3.2 m <sup>2</sup>	4.8 m <sup>2</sup>	6.4 m <sup>2</sup>
› 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/cm <sup>3</sup> 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/cm <sup>3</sup> 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 m <sup>3</sup>	20 m <sup>3</sup>	20 m <sup>3</sup>	20 m <sup>3</sup>
› 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.

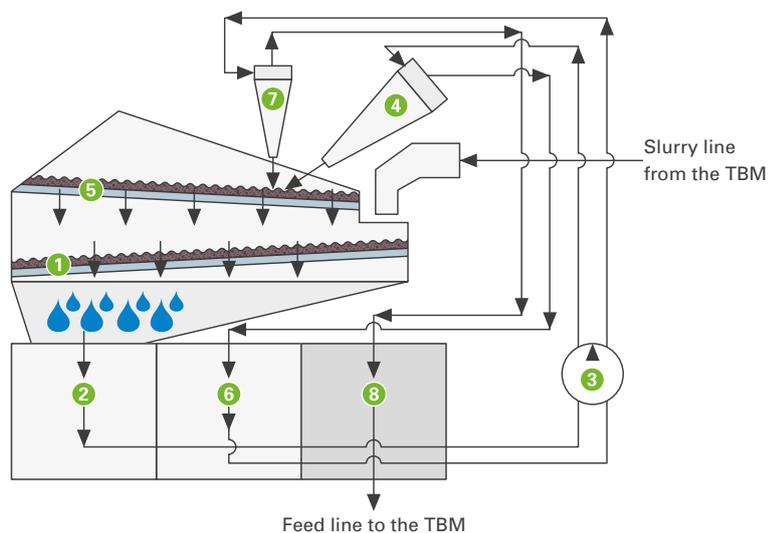
Rapid replacement screens:

- 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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