

**BUCKET WHEELS OF THE SERIES E**

Are used in the preparation process as well as mainly for the direct feeding by suction dredgers with a mixture output of up to 5,000 m<sup>3</sup>/h and a solid quantity of up to 1,000 m<sup>3</sup>/h.

**Bucket wheel 2 x E 6518 H wheel diameter 6,500 mm  
Bucket width 2 x 900 mm, output each 500 m<sup>3</sup>/h**

**BUCKET WHEELS OF THE SERIES ES ... BB**

Are used to recover sand within a processing plant when at the same time an optimum fine sand recovery is demanded.

**Bucket wheel ES 5014 BB wheel diameter 5,000 mm  
Bucket width 2 x 700 mm, output 250 t/h sand**

**BUCKET WHEELS OF THE SERIES ES ... BL**

Are used if any loss of fine sand shall be avoided. They have the same trough width as the fine sand bucket wheels and differ only in the larger bucket volume and the more powerful drive.

**Bucket wheel ES 5014 BL 100 wheel diameter 5,000 mm  
Bucket width 1,400 mm, trough dimensions 5,200 x 10,000 mm**

**FINE SAND BUCKET WHEELS OF THE SERIES FS ... BL**

Are used especially for the recovery of fine sand and distinguish themselves by a larger sedimentation area and low speed.

**Bucket wheel FS 2707 BL 58 wheel diameter 2,700 mm  
Bucket width 700 mm, trough dimensions 2,800 x 5,800 mm**

**BUCKET WHEELS OF THE SERIES DS, 3S**

Are used to wash, size and dewater sand. With computer-controlled sand dosing to produce 2 and/or 3 different sand fractions

**Bucket wheel DS 2709/07 BL 100 with double drive**



**REFINING OF SAND  
AND GRAVEL**

WITH THE WORLDWIDE LARGEST WASHING AND  
DEWATERING BUCKET WHEEL PROGRAM



→ Learn more on our website  
www.smt-stichweh.com

## EXTRACT MINERAL RESOURCES: FULLY EXPLOIT THE BENEFITS!

In order to obtain special products out of the mineral resources sand and gravel, they have to be refined.

**Washing and sizing are therefore the most important phases during their processing.**

Coarse material is already cleaned from impurities during the screening. For finer-grained material like sand or gravel

mixtures special washing, dewatering and recovery systems are necessary.

**Especially for that the STICHWEH-washing and dewatering bucket wheel is used.**

### → FROM BUSINESS TO PROFIT:

- The worldwide largest bucket wheel program for the national and international market.
- Bucket wheel series perfectly tailored to the material conditions and sand traps which dewater the material coming from the washing and screening plant or from the excavator.
- System solutions individually configured to your demands as combination of SMT STICHWEH machines and components.
- Highest operational safety and functionality as well as sustainable production with energy-efficient and long-lasting equipments.

## FROM PROS FOR PROS: PERFECT BOTH IN FUNCTION AND USE!



Our bucket wheel series are perfectly targeted to your project requirements and the most diverse conditions of use.

Due to the many different requirements and the geologically determined material conditions we have available specific bucket wheel solutions for different applications.

- For suction dredgers up to 5,000 m<sup>3</sup>/h mixture and 1,000 m<sup>3</sup>/h solid output
- For the sand extraction within processing plants
- For the fine sand recovery from wastewater

So, an optimum use is possible for the whole spectrum – from the sand and gravel dewatering to the finest sand recovery.

### AND THIS IS HOW IT WORKS:

- The **feed mixture of solid and liquids** is delivered to the bucket wheel. The solids are deposited in the bucket wheel trough and are discharged by the wheel body.
- The bucket wheel buckets are equipped with **special plastic sieves** of different slots. The extended vacuum chambers generate a natural vacuum which increases the degree of dewatering to a maximum.
- In the trough a number of **adjustable overflow weirs** are arranged. Thus it is possible to extract finest sands or discharge not required fine sands.
- Optimum bucket filling by using a **load-dependent speed control**.

Depending on the output the bucket wheel rotates at a speed of 0.5 – 1.5 rpm. **Power required and wear are extremely low and achieve very high energy saving rates.** That means: Even under most difficult operating conditions they work **economically profitable.**

#### SERIES E

- For the recovery of sand and gravel within a processing plant or direct feeding by suction dredgers.
- + Up to a wheel diameter of 8,000 mm

#### SERIES ES ... BB

- For the recovery of sand and avoidance of fine sand loss.
- + The quantity of water is four times higher than the quantity of sand

#### SERIES ES ... BL

- For the maximum avoidance of fine sand loss.
- + Larger bucket volume and more powerful drive than bucket wheels of the series FS

#### SERIES FS ... BL

- For the recovery of fine sand.
- + Large settling area and low speed

#### SERIES DS, 3S

- To improve the sand quality
- + Double drive, production of 2 and/or 3 sand fractions



### SERVICE:

JUST GIVE US A CALL AND INFORM YOURSELF:

T + 49. 51 86. 94 14 - 0

MORE SAND. MORE GRAVEL. MORE SUCCESS.