

Mobile Soil Washing Plant



Location

worldwide (mobile) or fixed plant

Contractor

Boskalis Dolman bv

Materials

modules standardized skid-mounted and containerized equipment

Capacity

100 tons/hr contaminated soil

The Boskalis Dolman Mobile Soil Washing Plant (MSWP) is used to process mineral waste materials, e.g. contaminated soil and contaminated dredged sediment. Soil washing involves a number of treatment processes for mineral waste material. The basic principle underlying the soil washing process is the well documented fact that contaminants adhere most to the fine and organic particles in a soil or sediment. This principle applies to a wide range of contaminant types and is therefore widely applicable.

The MSWP process is based on a number of in-line process steps that can each be considered separate plant modules:

- a rotating sieve drum module for the separation and washing of coarse fraction;
- a vibrating shaker screen module for sieving medium to coarse fraction;
- a sand separation module using hydrocyclones and a counter-current washer, followed by a vibrating sand de-watering screen;
- a pre-thickener / clarifier module for separating silt/clay fraction from the process water;
- the mechanical dewatering of silt/clay fraction using one or more belt filter presses.

All modules are built as standardized skid mounted and containerized equipment. The plant can be used in different compositions, depending on site layout and project demands.



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