

Description

The HDS-M from WIMA is a machine for water-based density separation with integrated sediment discharge.

The core of the HDS-M is the infinitely variable propeller which generates an up-flow of water.

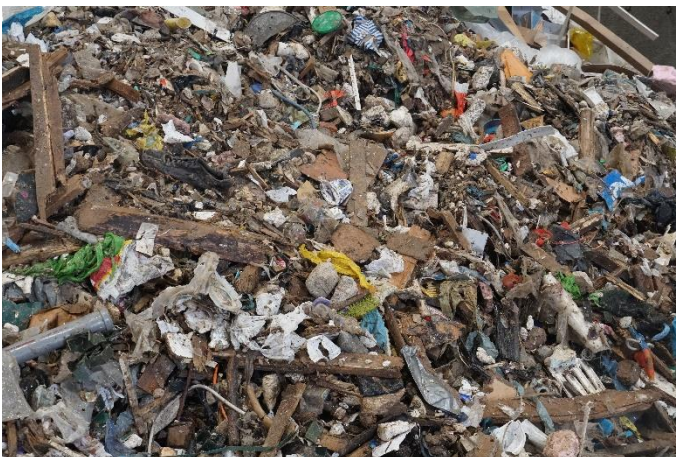
The material is fed onto the inclined chute of the HDS-M and slides down into the water bath by gravity. Dense particles sink to the bottom and light particles float on the water. A shaftless screw conveyor on the bottom of the water bath discharges dense particles with an edge length of up to 150 mm. The water and the light particles are flowing into a drum. A conveyor belt at the end of the drum discharges the "light" particles. The water is collected in a water tank below the drum. Remaining sediments in the water sink to the bottom and are discharged by a small sediment screw conveyor. The treated water flows over into the suction chamber to the propeller for reuse.

With the help of the variable up-flow of water even materials with a density of $> 1 \text{ g/cm}^3$ can be separated from denser particles (e.g. stones).

For the density separation process it is necessary to limit the size ratio of the largest to the smallest grain.

Features and application possibilities

Description	<ul style="list-style-type: none">• The HDS-M is a machine for water-based density separation with integrated sediment discharge from WIMA• Internal water circulation• Low operating costs• Plug and Play
Applications	<ul style="list-style-type: none">• Compost screen overflow, demolition and construction waste



Technical Details

Dimensions:

total length	14.555 mm
total width	2.496 mm
total amount	3.912 mm

Weight:

total weight	7.500 kg
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Energy supply:

network type	3Ph/N/PE
supply voltage	400 VAC
frequency	50 Hz
protection class	IP 44
Control voltage	24 VDC
Back-up fuse (CEE plug)	125 A

Drum:

diameter	1.400 mm
length	3.200 mm
openings	optionally
material thickness	optionally
drum speed	0-20 1/min
drum weight	940-1.770 kg
drive	electric motor

Water:

quality:	operating water
water quantity Initial filling	ca. 5 m ³

conveyor belts:

length	5.000 mm
width	800 mm

