wima.

TWIN SHAFT LOG WASHERS

SEPARATING AND WASHING

You want to take action against contamination? The Twin Shaft Log Washer manufactured by WIMA is the best solution.

DWSW stands for the German word DoppelWellen SchwertWäsche

Counter-rotating shafts vigorously roll the material.

Twin Shaft Log Washers for separating clay, loam and wood, from gravel and recycled material.

The most complicated thing about this machine is probably its tongue-twisting German name – Doppelwellenschwertwäsche.

At the same time, the principle is very simple. Quite often, in raw material processing or recycling, the starting materials are heavily contaminated. Clay, loam or wood may adhere to gravel, crushed stone or other recycled materials. This is where our Twin Shaft Log Washers come into play. They combine mechanical separation with water purification.

TECHNICAL FACTS

WIMA Twin Shaft Log Washers with capacity from 60 t/h to 400 t/h

The WIMA Twin Shaft Log Washer discharges the purified material through a Curved Screen below the DWSW onto a conveyor belt for dewatering.

The name reveals how it works:

TWIN SHAFT – LOG – WASHER

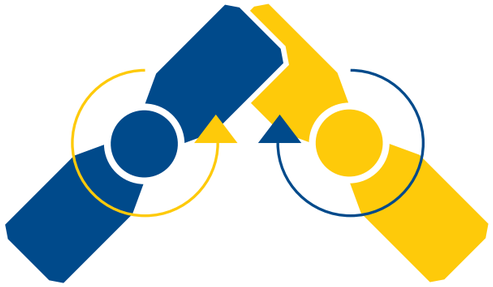
In addition to the two shafts rotating in opposite directions, there is a large number of blade-shaped paddles in the machine along the shaft axis, which are arranged in a spiral and serve two purposes:

Breaking up of the feed material mixture by friction as well as the separation of (clay, loam, wood) adhesions from the feed material and the transport of the material mixture by the rotation of the paddles through the wash.

The two shafts work in opposite directions and are synchronized via a toothed belt. Therefore, a distance was chosen that allows the paddles to mesh with each other. At the same time, the spacing of the paddles between the shafts defines the grain sizes to be processed.

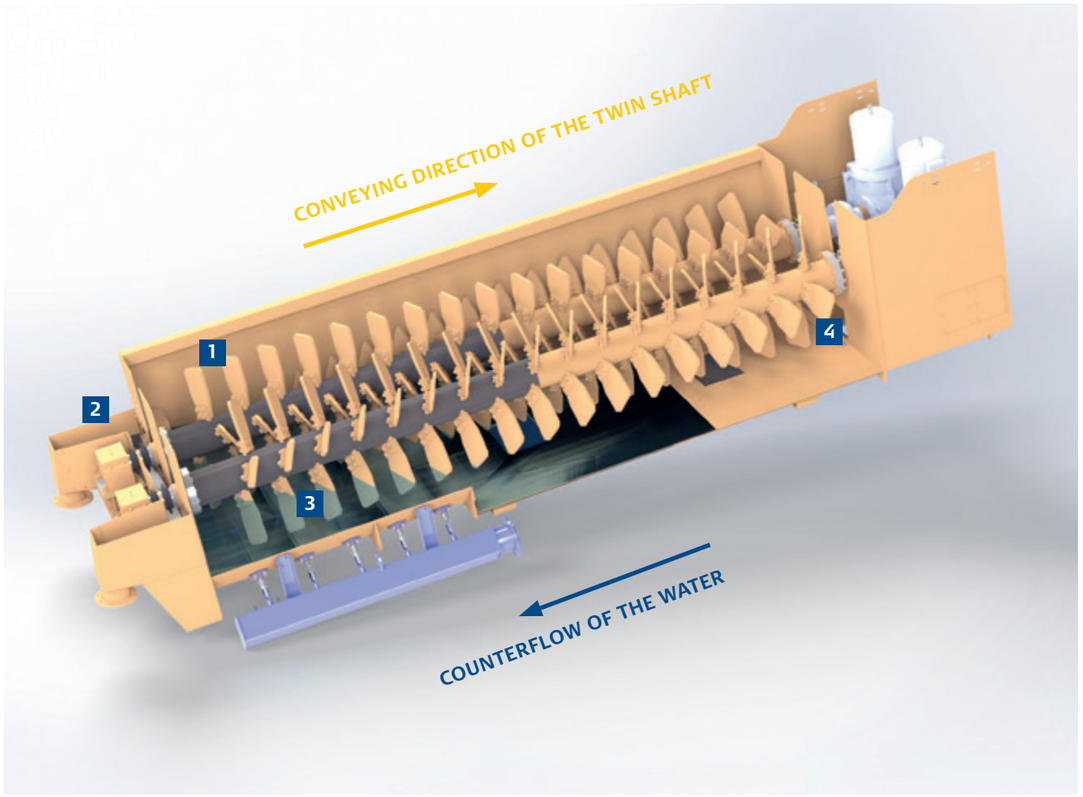
It is obvious that a wash uses water which flows against the conveying direction of both shafts.

As a result, the separated loam, clay and wood particles are washed out. To further improve the cleaning result, an upstream device is provided at the bottom of the wash. Water flows in from below and washes out the clay, loam and wood.



- Rotation in opposite direction

Operating Principle



1 Material infeed
2 Overflow waste water
3 Nozzles for upstream
4 Material outlet

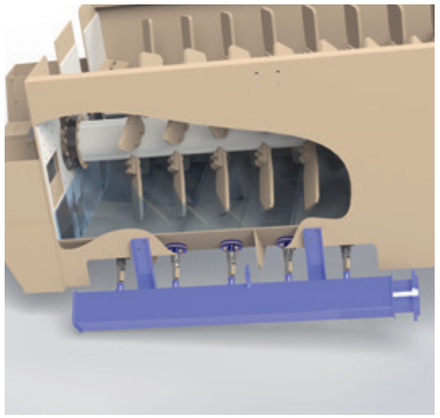
Options

PADDLES

The shaft paddles can be manufactured in various steal qualities depending on the character of the feed material.

RUBBERISATION

We recommend to protect your machine from corrosion by using rubber coating on shafts, bottom, overflow chute, rear and side walls.



SPECIAL UPSTREAM DEVICE

The upstream device regulates the washing effect by adjusting every nozzle individually.

VARIABLE INCLINATION

A variable inclination influences the dwell time in the machine and thus the washing effect.

LOAD-DEPENDENT CONTROL

In order to ensure optimum washing results even with fluctuating feed rates, it is possible to equip our DWSW with a load-dependent control system.

Technical Data

Type	Capacity in (t/h)	Max. feed particle size (mm)	Washing trough width (mm)	Washing trough length (mm)	Power drive (kW)	Machine weight (kg)
DWSW 60/2150/5000/2	60	65	2150	5000	2 x 15	10,200
DWSW 60/2150/6000/2	60	65	2150	6000	2 x 15	11,100
DWSW 80/2150/5000/2	80	65	2150	5000	2 x 18.5	10,200
DWSW 80/2150/6000/2	80	65	2150	6000	2 x 18.5	11,100
DWSW 100/2150/6000/2	100	65	2150	6000	2 x 18.5	11,100
DWSW 100/2150/8000/2	100	65	2150	8000	2 x 22	14,600
DWSW 150/2150/6000/2	150	65	2150	6000	2 x 22	12,600
DWSW 150/2150/8000/2	150	65	2150	8000	2 x 30	15,700
DWSW 200/2400/6000/2	200	75	2400	6000	2 x 30	18,200
DWSW 200/2400/8000/2	200	75	2400	8000	2 x 37	19,100
DWSW 250/2400/6000/2	250	100	2400	6000	2 x 37	20,400
DWSW 250/2400/8000/2	250	100	2400	8000	2 x 45	21,500
DWSW 350/2900/8000/2	350	100	2900	8000	2 x 45	25,700
DWSW 400/2900/8000/2	400	100	2900	8000	2 x 55	26,700

NOTE: In addition to our standard dimensions, special custom designs are also possible, e.g. to fit a machine into your existing steel structure.

The Complete Sytem with WIMA

DENSITY SEPARATORS

SCREENING MACHINES

TWIN SHAFT LOG WASHERS

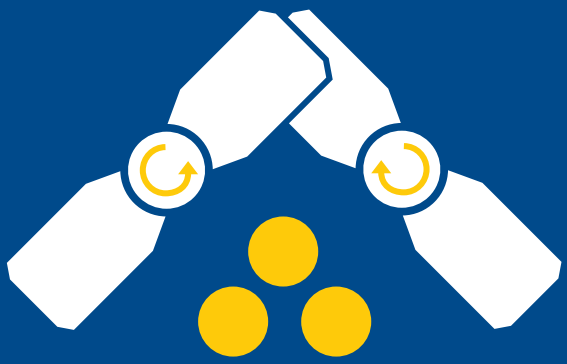
wima.

SAND TRAPS

SERVICE

LAMELLA SEPARATORS

CONTRACT MANUFACTURING



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