PRODUCT RANGE:

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SHREDDERS
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PULVERIZING SYSTEMS
WASHING SYSTEMS
EXTRUDERS
SILOS

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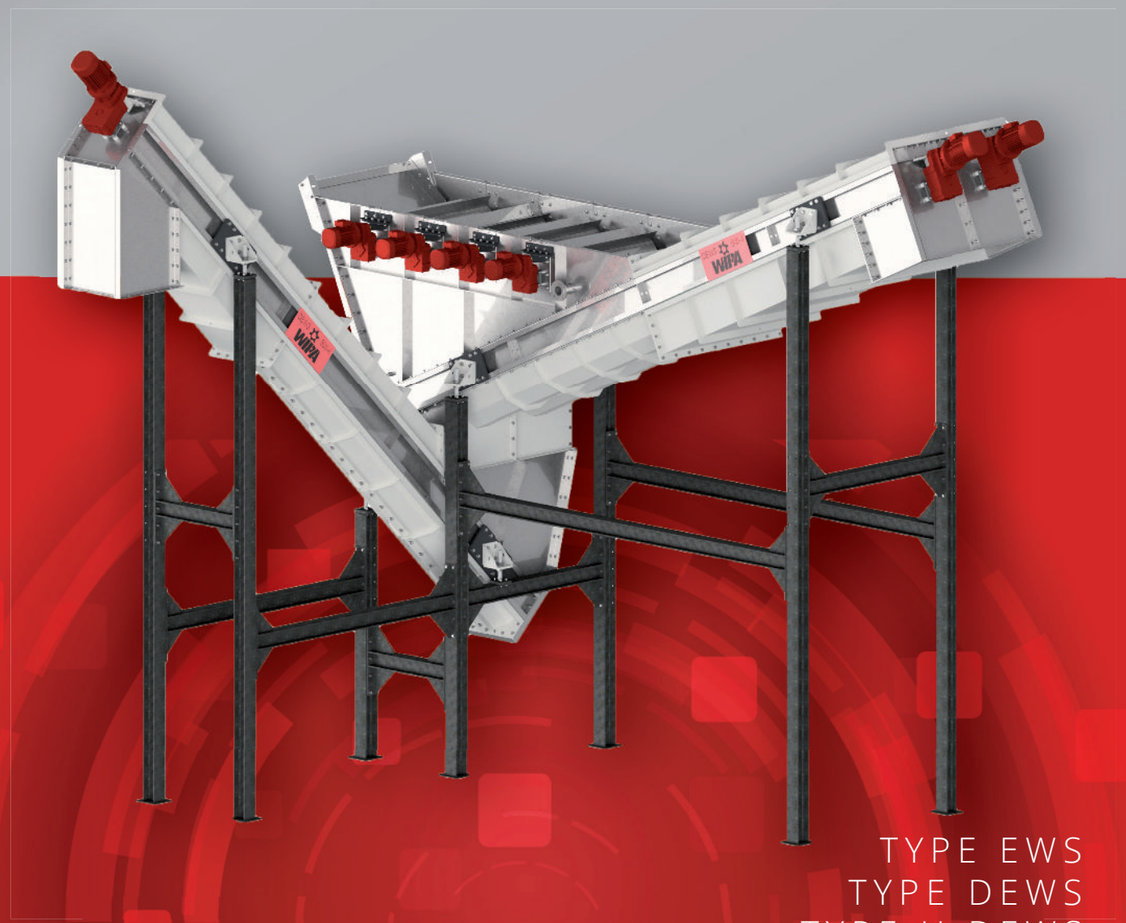
ENG

THAT'S THE WAY TO RECYCLE



TYPE EWS
TYPE DEWS
TYPE H DEWS

WIPA PRE-WASH SCREW SEPARATION TANK

www.wipa-germany.de

WiPa Pre-wash screw

WiPa Pre-wash screw Type EWS / DEWS

The WiPa pre-wash screws are used to wash, rinse, soak and separate sinking contamination substances such as stones, sand or glass.

The process EWS / DEWS

The material is fed into a pre-wash tank at the bottom end of the pre-wash screw and pushed under water by paddle rollers. Subsequently, 1 - 2 screw conveyors move the material to the top. During transport the material moves a lot, which means that contamination substances such as stone, sand, glass and metals can easily sink down. Additionally, the adhesions on the plastic material are being soaked and can be separated more easily.

Different discharge systems can be used, depending on the type of contamination. Simple, small contamination substances such as stone or glass are discharged over a time-controlled valve system. For larger or long contamination substances, such as wire, or for larger contamination volumes, drag chain conveyors are used for discharge.

WiPa Separation tank Type H DEWS

The WiPa separation tanks type H DEWS serve to separate and divide a large variety of substances based on their specific density. For example, PET or PVC from PE or PP regrind.

The process H DEWS

Explanation, using the example of PP/PE separation in PET bottle recycling processes: The pre-crushed material is fed into the separation tank below the water surface with the help of 2 screws. As PET is heavier than water, it sinks down to the discharge device for settling sediments and subsequently is discharged from the machine by means of a screw or drag chain conveyor. PP and PE on the other hand rise up to the water surface and are moved to the discharge for floating materials by a series of successive paddle drums. During this process they are repeatedly pushed under water to obtain separation of any PET particles still adhered.

WiPa: Your worldwide partner in field of recycling.

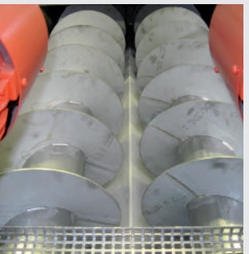
As a rule, a friction washer is placed downstream from the separation tank, because this allows for separation of large quantities of liquids from the material.

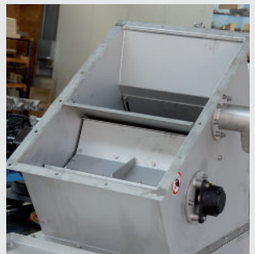
Modular

The WiPa separation tanks type H DEWS are available in various sizes and can be scaled up or down. Even after installation they can be adjusted to higher or lower throughput rates due to their modular and extendable design.

ADVANTAGES

- Effective separation of different specific densities
- Extendable and customizable due to modular design - for example with regard to throughput capacity and materials
- Dosage unit for density adjustment of the water, with salt for example, optionally available
- Easy exchange of elements in case of materials changeover or possible damages





Technical data	EWS300	EWS400	EWS500	EWS600	EWS800	EWS1000
Screw diameter	300mm	400mm	500mm	600mm	800mm	900mm
Screw length in mm	2000	3000	3000	4000	4000 - 6000	4000 - 8000
Number of screws	1x	1x	1x	1x	1x	1x
Number of paddels	1x	1x	1x	1x	1x	1x
Drive screw in kW	3,5	5	7,5	7,5	11 - 15	15 - 22
Drive paddel in kW	0,75	0,75	0,75	0,75	0,75	0,75
Output up to	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**
PP regrind / PET bottle flakes	0,5	0,7	1,1	1,4	1,8	2,5

Technical data	D EWS300	D EWS400	D EWS500	D EWS600	D EWS800	D EWS1000
Screw diameter	300mm	400mm	500mm	600mm	800mm	900mm
Screw length in mm	2000	3000	3000	4000	4000 - 6000	4000 - 8000
Number of screws	2x	2x	2x	2x	2x	2x
Number of paddels	1x	1x	1x	1x	1x	1x
Drive screw in kW	2 x 3,5	2 x 5	2 x 7,5	2 x 5	2 x 7,5 -15	2 x 11 - 22
Drive paddel in kW	0,75	0,75	0,75	0,75	0,75	0,75
Output up to	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**
LDPE film	0,5	0,7	1,1	1,5	2	2,5 - 3
PP regrind / PET bottle flakes	0,7	1	1,5	2 - 3	3 - 4	5

Technical data	H DEWS300	H DEWS400	H DEWS500	H DEWS600	H DEWS800	H DEWS1000
Screw diameter	300mm	400mm	500mm	600mm	800mm	900mm
Screw length in mm	2000	3000	3000	4000	4000 - 6000	4000 - 8000
Number of screws	2x	2x	2x	2x	2x	2x
Number of paddels	2x/4x/6x	2x/4x/6x	2x/4x/6x	2x/4x/6x/8x	2x/4x/6x/8x	2x/4x/6x/8x
Wetting screw	0x / 2x	0x / 2x	0x / 2x	0x / 2x	0x / 2x	0x / 2x
Drive screw in kW	2 x 3,5	2 x 5	2 x 7,5	2 x 7,5	2 x 11 - 15	2 x 15 - 22
Drive paddel in kW	0,75	0,75	0,75	0,75	0,75	0,75
Output up to	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**	**t/h**
LDPE film	0,5	0,7	1	1,5	2	2,5 - 3
PP regrind / PET bottle flakes	0,7	1	1,5	2 - 3	3 - 4	5

Output rate and technical data are experience values and can deviate depending on material type.