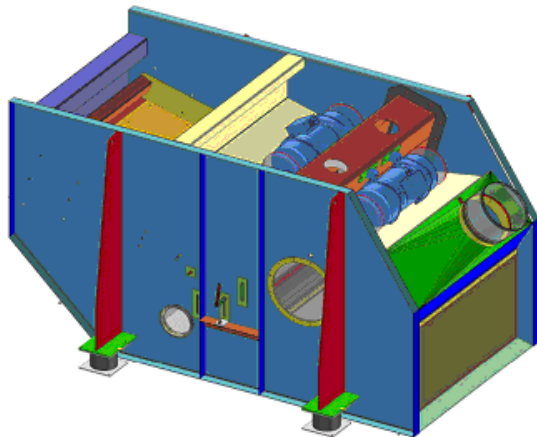
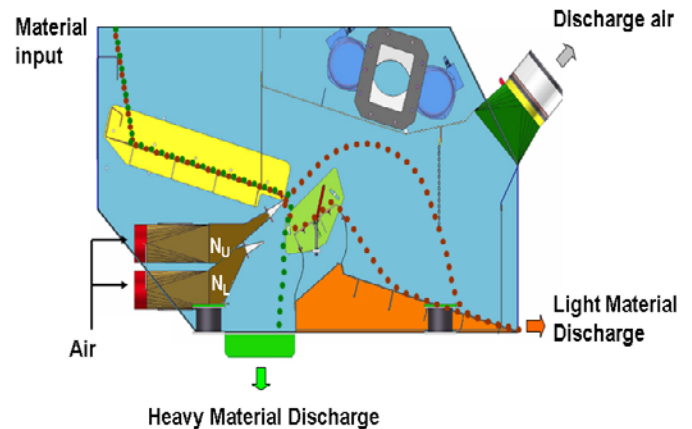


VIBRATION AIR SEPARATOR AirVib

AirVib WITH SEPARATING PLATE



FUNCTION



FUNCTION

With this special designed machine it is easy to process coarse fractions till 300 mm from the recycling sector due to a different density and form, even if those materials are mostly characterized by highly heterogeneous mixtures.

With this separation technology, new possibilities of processing can be created and following processing steps in the separation can be relieved.

For this purpose the complete separator is put in vibration. The conveying component provides that the feeding material is conveyed on a low-wear basis and is uniform distributed over the total width of the separator.

Therefore the total material stream can pass the air stream at the edge of the conveyor, by means of the below situated nozzle. Light material like e.g. foils, paper, paperboard are conveyed to the expansion area and discharged at the light material side.

The middleweight products, which cannot be separated via first air nozzle due to form, size and density, bounces against

a separating plate, which is adjustable in its incline and height.

Especially flat and handy parts are conveyed by the vibration to the expansion area and are also discharged at the light material side.

Rolling shaped and flat parts as for example stones or glass do not follow the upward conveying, but slide down to the heavy material discharge.

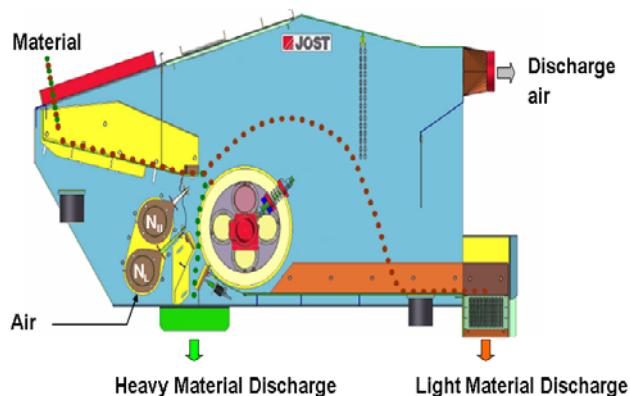
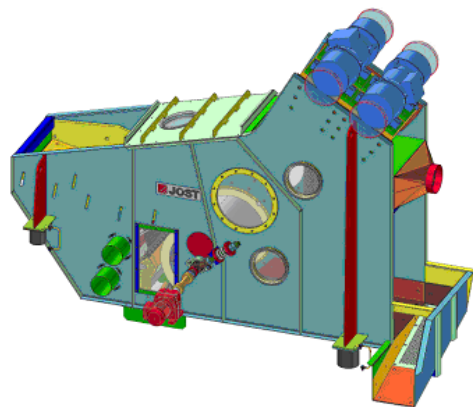
Under the conveying system there is a second nozzle installed, which is arranged in direction to the separating plate. As a result light-weight rolling shaped parts like plastic bottles can be discharged at the light material side too.

Typical control parameters at the machine are stroke, air quantity at the two nozzles as well as the form and surface of the separating plate.

At moist product streams the use of a drum with stripping element instead of a separating plate has been proved.

AirVib WITH ROTARY DRUM

FUNCTION



TECHNICAL DATA (ALL VALUES ARE APPROXIMATE):

Type	A x B x C [m]	air volume [m³/h] ^{1*}	Mass flow [t/h] ^{2*}	Inst. Power [kW] ^{3*}
SUET 600...	1,1 x 3,0 x 2,2	2500	5,0	8
SUET 1200...	1,8 x 3,5 x 2,2	5000	10,0	12
SUET 1600...	2,4 x 3,5 x 2,2	6500	13,0	15
SUET 2400...	3,2 x 4,0 x 3,2	10000	20,0	21

^{1*} depends on product

^{2*} is valid for construction waste

^{3*} based on the ventilator

NOTE:

- complete separator plant starting from planning to commissioning

PROPERTIES OF THE AirVib:

- Applicable for wide ranged particle sizes (20 to 300 mm), therefore multiple appliance in the thermal processing
- Basic parameter settings (air volume, nozzles, separating element) can additionally be varied
- High accessibility to the inner machine
- Good possibilities of visual observation
- Optimal cleaning possibilities

