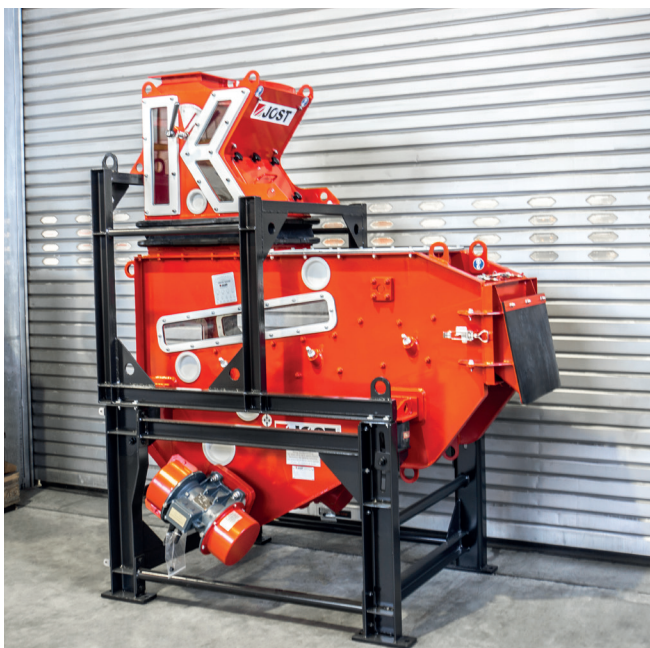


K-Sifter

The JOEST K-Sifter is an innovative system for fine material processing. It combines the advantages and functionality of the JOEST zig zag separator and of the JOEST separation table in a compact and economical design.

This solution involves a single air system for manufacturing and operating economics. The direct connection of the two systems increases system efficiency while reducing footprint and costs. Material is introduced to the system via a vibratory feeder. The feeder uniformly spreads out the material so that it is metered into the zig zag section across its entire width. Rubber curtains across the entry point to the zig zag section inhibit additional air from entering the system.

In the zig zag section, the ultra-fine fraction is separated from the heavier fractions by JOEST's cross flow and counter flow separation processes. The ultra-light fraction is exhausted out the top of the K-Sifter. The aspiration air with the ultra light fraction must go to a cyclone filter combination with suction fan. The heavier fractions fall onto the vibrating perforation plate in the air table section.



Using proven air separator table techniques, heavier material is separated out and discharged on the high side of the separator. Lighter fractions travel down the platen and are discharged on the low side.

The process air used in the separation table is also used for the zig zag section, thus reducing the required air volume and operating costs. The process is optimized the air flow and air path inside the K-Sifter, inclination angle and infinitely adjustable flap for subsequent sorting of the heavy material.

ADVANTAGES

- ✓ Three-component sorting into ultra-fine, light and heavy fractions via combination of K-Sifter and separation table.
- ✓ No additional process air necessary. The air of the separation table is also used as process air for the separator.
- ✓ Very low construction height of only 600 mm is necessary
- ✓ Low costs in comparison to separate standard zig zag and air separation installation
- ✓ Bypass regulation to control the required separator air coming from the separation table is installed inside the K-Sifter
- ✓ Minimal, simple adjustments necessary to achieve high efficiencies.
- ✓ Highly engineered separation table perforation plate with larger holes prevents clogging while prohibiting the material from falling through.

A member of the
JOEST® group

JÖST GmbH + Co. KG, Germany
Gewerbestraße 28 - 32, 48249 Dülmen

Fon: +49 2590 98 0
Fax: +49 2590 98 101

info@joest.com
www.joest.com





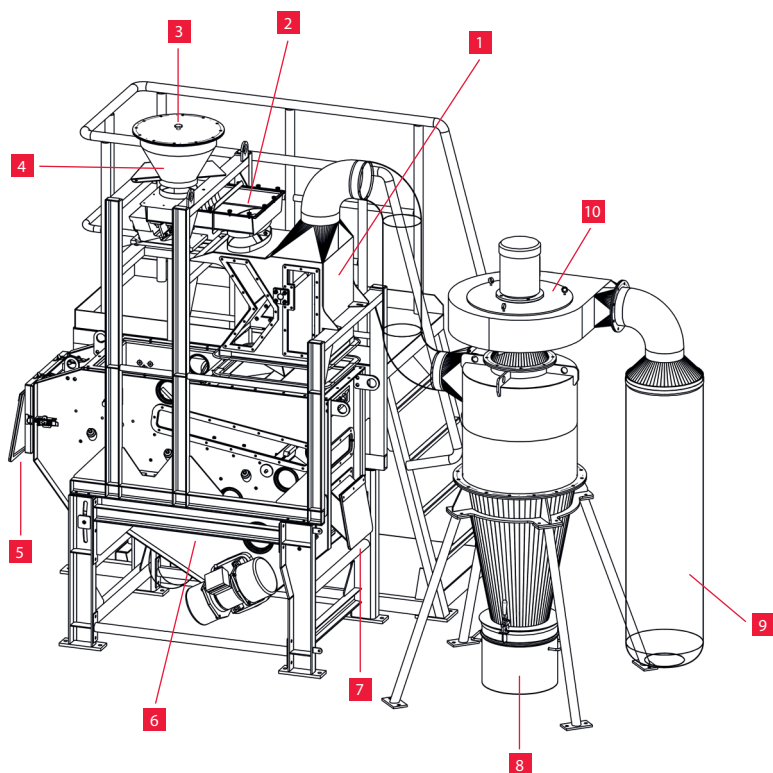
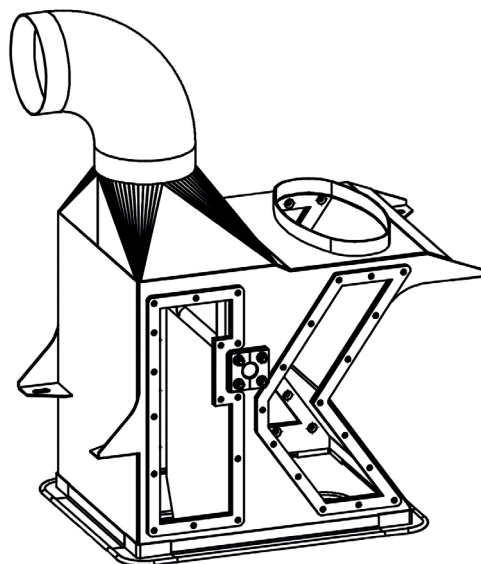
APPLICATIONS

- ASR
- Tires Recycling
- Electronic Scrap
- Construction Waste
- Household and Industrial Waste



OPTIONS

- Vibration feeder or dosing feeder for material intake (necessary)
- Cyclone and/or filter installation with aspiration fan for the aspiration air of separator and separation table (necessary)



TEST INSTALLATION

- 1 K-Sifter
- 2 Dosing Feeder
- 3 Product Intake
- 4 Hopper
- 5 Heavy Material
- 6 Separation Table with Unbalanced Motors
- 7 Light Material
- 8 Ultra Light Material
- 9 Filter Socket
- 10 Suction Fan
- Pressure Fan (not indicated in the picture)