

JOEST excels in car recycling with the Flip-Flow Screen TOPCILLA

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For a world-leading US processor of car recycling, JOEST has produced one of its biggest TOPCILLA flip-flow screens yet for classifying light materials.

During car recycling, the JOEST flip-flow screen is used after shredding to classify lightweight materials in preparation for further processing. TOPCILLA combines the advantages of two different screening principles in one machine — the proven JOEST TopSpin cascade screen on the upper deck and the unique Flip-Flow Screen OSCILLA on the lower deck.

The upper deck of the TOPCILLA combi-screen is configured as a TopSpin cascade screen with self-cleaning screening surfaces. Each individual screen opening is opened in the conveying direction, similar to a finger screen. Continuous self-cleaning is ensured by an overlap between the screen's movement and the screening surface. The upper deck performs separation at 35–40 mm and, thanks to the special cascade screen surface, blockages are virtually impossible.

The Flip-Flow Screen OSCILLA is housed in the lower deck. OSCILLA features leaf springs between the two vibrating frames. This allows very large relative vibration ranges and extreme acceleration values in excess of 50G. Fine adjustment is also achieved by varying the number of leaf springs for each area of application. For this kind of combination screen, the high flexibility achieved by adjusting the leaf springs ensures that the vibration conditions required for both screening principles can be implemented successfully.

The upper TopSpin sieve needs a large circular motion, whereas the lower flip-flow screen requires a wide relative amplitude. In order to achieve the best possible control, a twin shaft was installed. Special features of this machine are the high output rate of 40 tons per hour and the large screening surface with 2.40 x 8 m per screen deck.

The JOEST Flip-Flow Screen TOPCILLA has already been delivered and installed. Commissioning is planned for the end of the year.

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