

Highly efficient PET recycling – live presentation under production conditions

B+B Anlagenbau GmbH presents its innovative pilot line for highly efficient processing of PET and HDPE bottle fractions at K 2007 in Düsseldorf. The central components of the line with its throughput of approx. 300 kg/h are dry grinding with downline dry mechanical separation of contaminating substances, followed by continuous hot washing. Potential customers have the possibility to see the pilot line in action during a live presentation in the B+B technical centre in Tönisvorst (25 km from Düsseldorf) - even with their own material. B+B offers for this a shuttle service during the K in order to drive those who are interested from the fairground to the B+B technical centre within approx. 20 minutes.

Processing of the materials, that are usually available in bale form, takes place on a line of the latest generation. The B+B line is characterised by a large proportion of the adhered contaminating substances such as labels, adhesives, sand, etc being separated in a dry mechanical way already before wet washing.

With conventional techniques, the early use of water already at the shredding stage leads to additional amounts of waste water, that has to be treated later in a laborious process. Further costs arise for the operator from the need to dispose of the separated waste, that arises as slurry or moist solid waste. The dry mechanical pre-treatment in the B+B line significantly reduces these costs. The material is present after processing in the form of cleaned flakes (Hot Washed Flakes), the quality of which provides, with further processing (e.g. Bühler, Erema, Starlinger, or URRC plants), a starting material for food contact bottle-to-bottle applications.

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About B+B Anlagenbau GmbH

The range of products offered by B+B Anlagenbau GmbH extends from worldwide supply of complete turnkey plants, via special individual components for particular process stages, right up to modernisation and reconstruction of existing plants. More than 45 complete recycling plants have been so far realised worldwide, for processing of PE/PP, PS, PVC, PET and other plastics waste. Large amounts of equipment and plant are also delivered for the area of textile machinery, as well as for driers, colour laboratories and dosing plant. The company has applied for over 30 patents in the area of plastics recycling.