

Bollegraaf's upgrade ensures cleaner output & increasing waste volume



Based on previous experience, Ateliers Fouesnantais, Ecotri (AFE) asked Bollegraaf Recycling Solutions to further improve their new MRF. With the upgrade of the existing system, also built by Bollegraaf, Ecotri is able to sort film from the waste stream at an early stage, so the waste volumes to be processed can be increased. Together with partners Tomra for the optical sorting and Lubo Systems B.V. for the screening technology, Bollegraaf was able to deliver a state-of-the-art facility of 20 tonnes/hr. A reference for every management in the recycling industry!

Specifications Ecotri, Fouesnant

Capacity: 20 tonnes/hr

Input: Single Stream

Surface area: 3,256 m²

Recyclables: Paper, Card Board, PET, HDPE, PS, PP, PE, Plastic film.

Technologies: Lubo Elliptical, Lubo OCC Screen, Lubo Fines Screen, Lubo Paper Magnet, Lubo ONP Screen, Bollegraaf Drumfeeder, Bollegraaf Filmgrabber



Cleaner output through screening technology

To meet the objectives, Bollegraaf Recycling Solutions used the latest technologies. Bollegraaf combined this specialised sorting equipment in one facility. Recirculation loops keep feeding residue back into the system, including the waste at the very end, which results in the highest possible purity of all recyclables. For example, in order to reach 95% purity, the installation has been equipped with the Lubo Elliptical, which is a state-of-the-art ballistic sorting machine. The material stream is divided into three fractions: it separates the 3D fractions, such as cans, bottles or stones from the 2D fractions, such as paper and film, and separates the small fraction, depending on the screen fraction size. The Lubo Elliptical is unique because of the adjustable screen surface and the way it agitates the material. The result: the efficient separation with a long service life plus a low cost of ownership. The Lubo Elliptical takes sorting to the next level!!



Less maintenance by adding Bollegraaf Filmgrabber

Plastic film, such as shopping bags and wrappings, make the sorting process of recyclables more difficult and more time-consuming. The Bollegraaf Filmgrabber has been developed to solve this problem.

The Bollegraaf Filmgrabber sorts film from the other recyclables at the beginning of the separation process, eliminating over 70 percent of the film larger than A4 from the material stream. The machine consists of a rotating drum with a variable speed motor and protruding fingers which comb through the recyclables and hook the film. The film is lifted out of the stream, after which the fingers retract and the film is blown off to the collection bin.





High quality, low costs

The upgrade at Ecotri included an increase of the level of automation of the system; manual sorting stations are replaced by quality control stations where pickers recycle errors conveyed in the automatic line. This both reduces the operational costs as well as increases the purity rate of the output significantly. This aspect was especially important to Ecotri in view of their commitment to reduce waste and the cost to dispose of it.

About Bollegraaf Recycling Solutions

Bollegraaf Recycling Solutions is a world leader in the engineering and manufacturing of ready-to-use recycling solutions and equipment. The company is renowned for its innovative and reliable solutions, as well as the high quality of its products. Bollegraaf has a proven track record in the industry that stretches back over 50 years. The company invests heavily in research and development, in addition to the very latest production equipment and facilities. The goal of all this is to guarantee a profitable and robust organization for Bollegraaf customers.

Bollegraaf Recycling Solutions is established in the Netherlands and comprises two sister companies, i.e. Bollegraaf Recycling Machinery B.V. and Lubo Systems B.V. Bollegraaf also has offices in Germany, France and the United Kingdom, responsible for sales and services in these countries. In addition, Bollegraaf is part of a large dealer organization that covers the entire USA and Canada. Bollegraaf also has vendors, service engineers and sales agents throughout the globe. For more information on our solutions and technology, please visit our website www.bollegraaf.com

About Ecotri, Ateliers de Fouesnantais

Ecotri is the Fouesnant MRF owner which treats the waste of 12 local authorities (365 000 inhabitants). With an authorization of 65 000 tpy and a capacity of 20 tph, it is one of the major plants in France. Furthermore, Ecotri gains a lot of experience on new sorting stream by operating two other plants (Caudan & Glomel), on over-sorting of plastics, and sorting of recycling on refuse.

Note for the press/more information:

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