

Colnbrook

Materials Recovery Facility

Grundon's unique £5 million Materials Recovery Facility (MRF), part of the Colnbrook Integrated Waste Management Park near Heathrow Airport, has an annual capacity in excess of 100,000 tonnes per annum. The plant processes up to 90% of the paper, cardboard, steel and aluminium passing through it for subsequent recycling.

Grundon also have MRF's in Beenham, near Reading, Ewelme, near Oxford and a new MRF at Leatherhead, Surrey.



the picking conveyor



No Pre-sorting

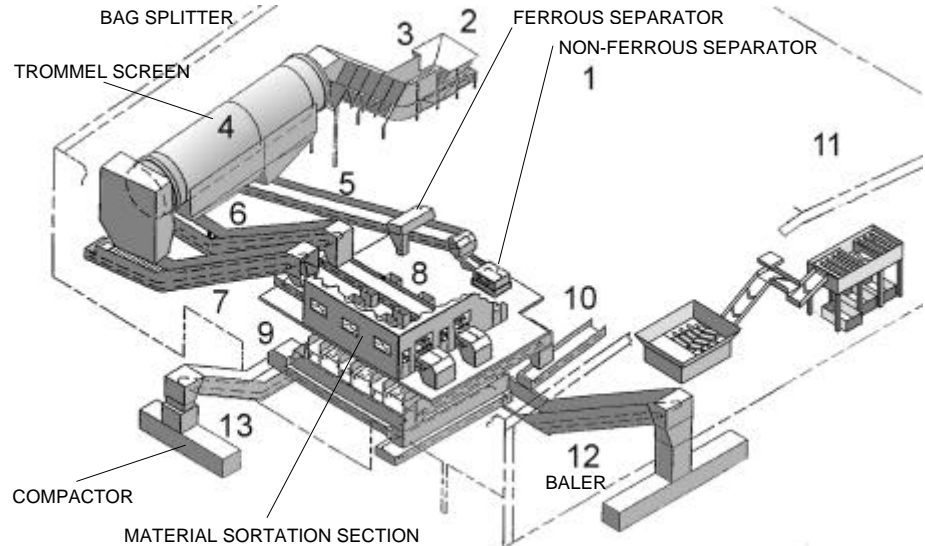
The major advantage of the Grundon system is that trade and commercial waste producers do not need to segregate their wastes prior to collection. This avoids the need for multiple handling and specialized containers in an often restricted environment.

Further, the waste producer does not need to concern themselves about cross-contamination of waste streams prior to recycling.

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1. Tipping Area 2. Grad loading into hopper 3. Receiving hopper and feed conveyor
 4. Trommel 5. Fines conveyor with electro magnet and eddy current separator 6/7. Feed conveyors
 8. Picking station 9. Multi directional cross conveyors 10. Fines waste conveyor
 11. Removal point for waste fines 12. Baler for recovered material 13. Back up compactor
 14. Existing high density waste baler

Process Flow

The waste to be processed is unloaded onto the tipping area (1) and grab loaded (2) into the receiving hopper and feed conveyor (3). The rotating, 15 metre long trommel (4) sorts the materials into three different sizes. The first stream leaving the trommel on the fines conveyor (5) transports cans through an electro-magnet and an eddy current separator to sort the steel from the aluminium. The residue is fed by another conveyor to a stockpile for disposal elsewhere. The two remaining streams from the trommel (6/7) carry paper and cardboard to the picking station (8). Here, up to twenty pickers work in a room sorting this material. Below the picking stations are conveyors (9) which feed the sorted paper and cardboard to a baler (12) with a capacity in excess of 20 tonnes per hour.

In addition to saving labour and space by not segregating their own wastes, Grundon's customers, by using our Material Recovery Facilities, will also benefit from more stable waste disposal costs and a reduced reliance on landfill.



www.grundon.com

Further information can be obtained from any of the following offices of Grundon Waste Management Ltd.

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