Case Study

Shanks Unique Waste Treatment Facility

This is one of the most sophisticated waste-to-product facilities in the UK and it increases significantly the recycling rate of Wakefield district while diverting around 95% of the waste away from landfill.

Two Advanced Sorting Systems

SHANKS WASTE MANAGEMENT
South Kirkby, United Kingdom
Completed in 2015

Experience Results with the Sorting Technologies Expert
20 TPH MRF from Mixed Dry Recyclables

36,000 Tonnes per Annum
95% Purity Rate

Sorted material
Cardboard
Mixed Paper
Glass
Plastic film
PET & HDPE
Ferrous
Non-Ferrous

Equipment list
Drum Feeder
MACH OCC Screen Triple Deck
MACH News Combo Screen
MACH Finishing Screen
(2) Ferrous Magnets
Eddy Current
Dust Collector
(2) Fiber Optical Sorters
(1) Plastics Optical Sorter
(2) Machinex Single-Ram Baler
Machinex Closed Door Baler
(7) MACH Motion Floor®
Glass Cleanup System
Plastic Film Vacuum System
30 TPH RDF Preparation Plant from MSW

Sorted material
Mixed Paper
Plastic Film
Mixed Plastics

Ferrous
Non-Ferrous
60mm Fines

230,000 Tonnes per Annum
95% recovery rate

Equipment list
Primary Shredder
Vibrating Screen
Air Drum Separator
Windshifter
(2) MACH Ballistic Separators
(2) Ferrous Magnets
(2) Eddy Currents
Film/Paper Optical Sorter
Plastic Optical Sorter
RDF Monitoring Unit
Machinex II-Ram Baler
Organic Moving Floor
**Mixed Dry Recyclables** - This facility’s special feature includes a plastic film capture system with its dedicated closed door baler.

**RDF Preparation Plant** - The solution proposed by Machinex allowing flexibility remains an important aspect since the plant operator can select the most appropriate recyclates to be recovered according to market values and the desired calorific value of the RDF generated.