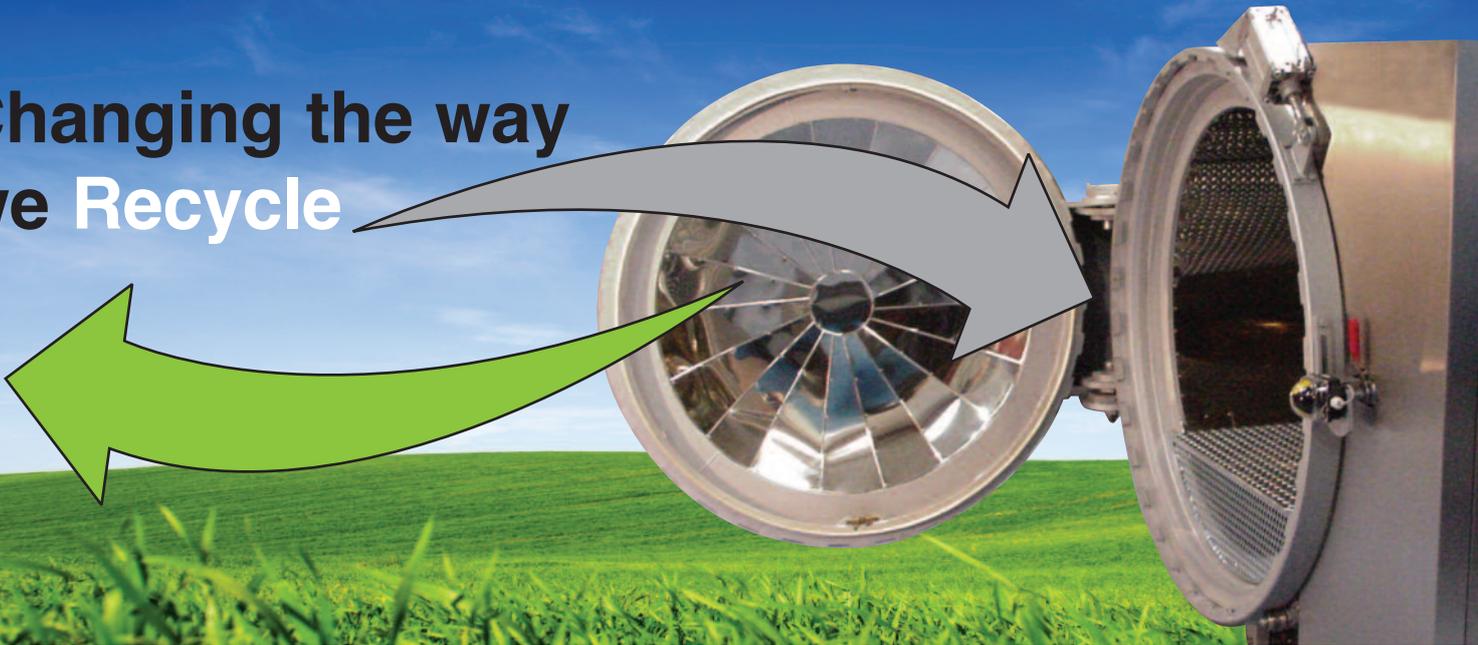


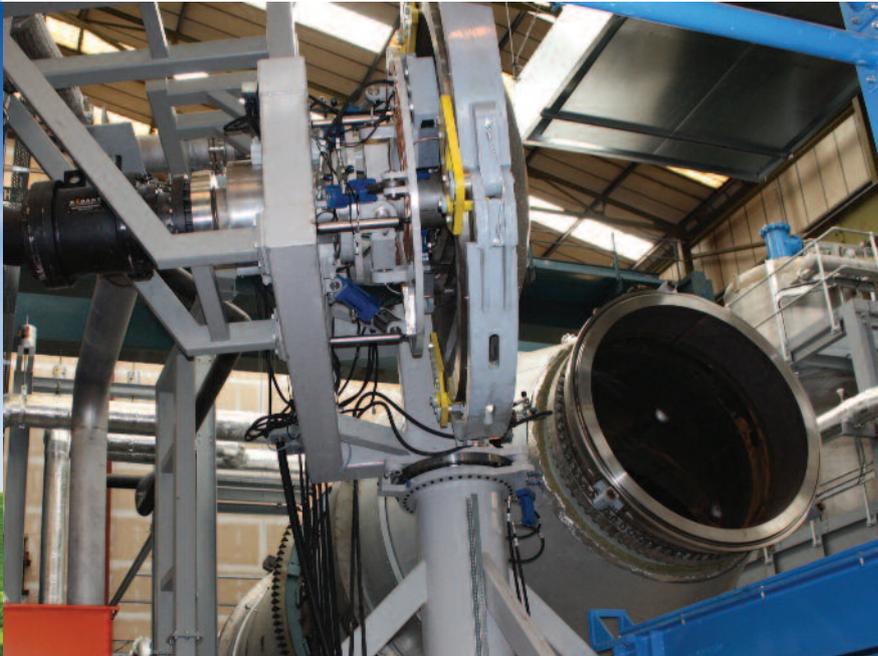
Changing the way
we **Recycle**



Special Purpose Machinery
for the **Waste Management Industry**

Environmental Solutions

At Rhodes Environmental we are committed to first class, design led engineering solutions geared directly at producing state-of-the-art machinery for the Waste Management industry.



Rhodes Environmental is one of Europe's leading manufacturers of Autoclaves, Crushing and Feeding equipment for processing and recycling Municipal Solid Waste (MSW). Constantly striving to improve technologies, the Company designs and manufactures unique machinery geared towards handling and processing waste for recycling rather than sending it to a landfill.

Despite increasing household attempts to sort rubbish into recycle bins, the reality, is that in many areas over 75% of kerbside collected recycling material goes to landfill, together with the rest of the waste. Eliminating rubbish is fast becoming a major problem nationwide and costs councils and taxpayers increasingly more money for landfilling.

By supplying machinery that accepts segregated and non-segregated waste from households and commercial operations, it ensures kerbside collected material will be properly recycled, including waste that, until now, has been very difficult to process, such as bottles with corks in them and shredded paper.

THE COMPANY AIMS TO:

- Provide cost-effective alternatives to landfill
- Offer solutions to recover and recycle materials that otherwise would not be recovered
- Produce sanitised waste that is ready for recycling and re-use
- Reduce the carbon footprint of waste

THE FACILITY

Rhodes Environmental operates from an 8-acre site with over 15,000 sq. metres of factory space under crantage. The Wakefield factory boasts excellent fabrication, machining and fitting departments ensuring that all aspects of machine build are controlled to the Company's quality (ISO 9001), environmental (ISO 14001) and European safety (CE) accreditations.

Main (left): Autoclave supplied to VT (Babcock International) for processing Municipal Solid Waste.

Above (top): Box Feeder.

Above (bottom left): Disintegrator.

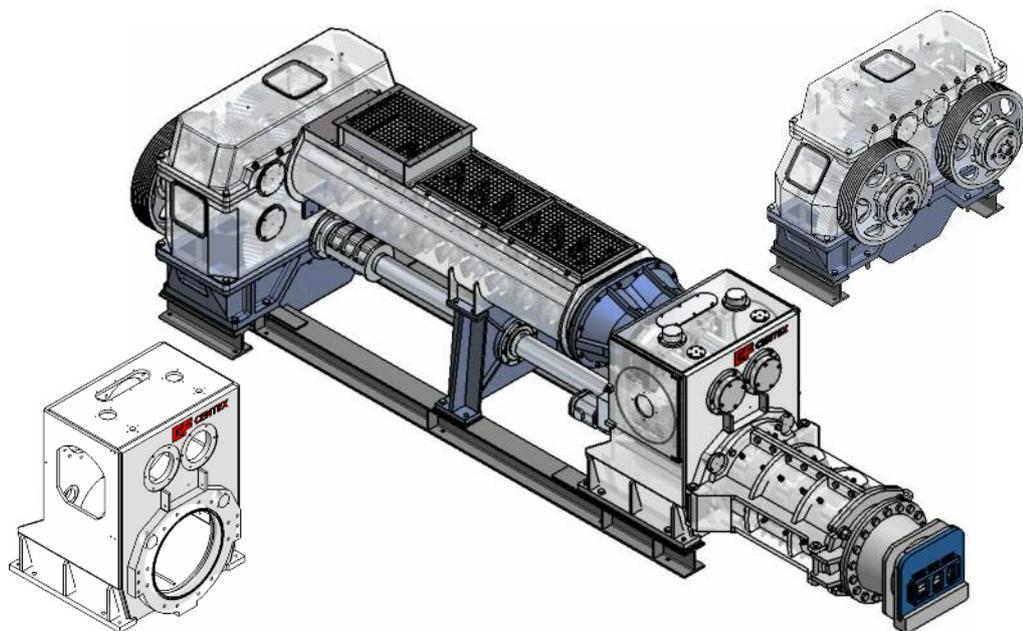
Above (bottom right): Dry Grinding Mill.

Special Purpose Machinery for T

-  Autoclaves
-  Conveyors and Storage
 - Box Feeders / Belt Feeders
 - Even Feeders
 - Plastic Feeders
 - Conveyors
 - Silos
-  Vibratory Feeders and Screens
 - Rotary Screens
 - Vibratory Screens
-  Compactors
 - Vertical Presses
 - Extruders
 - Bailing Presses
 - Bail Shears

Turnkey Solutions

Rhodes Environmental works with experienced technology partners to apply a combination of project management and engineering expertise to bring innovative solutions to the waste management market.



Main (right): New Concept De-Airing Extruder.

Above (top left): Fine Roller Mills.

Above (top right): Double Shafted Mixer.

Above (middle): New Concept Rotor for a High Speed Crusher.

Above (bottom left): High Speed Crusher.

Above (bottom right): Screen Feeder.

The Waste Management Industry

Pulverisers/ Sizers

- Hammer Mills
- Disintegrators
- Crushers
- Ball Mills

Shredders

- Waste Chopper
- Disintegrators
- High Speed Crushers
- Kibblers

Reclamation

- Pelletizer
- Mixers
- Pug-sealers
- Autoclaves
- Briquette Presses

AUTOCLAVES

The Company aims to offer the greenest solution to processing waste and delivers against the Government strategy to reduce overall waste and maximise recycling. By processing waste through an autoclave it offers the most effective sorting of sanitised waste, including waste that is otherwise very difficult to process. Key Features of Rhodes Environmental Autoclaves Include: Safety Systems; Temperature Control; Pressurisation Control; Vacuum Control; Computerised Process Control, Monitoring and Data Logging

CONVEYORS AND STORAGE

Available in heavy or extra heavy-duty designs, Rhodes Environmental Conveyors and Storage equipment deliver almost any type of Municipal Solid Waste (MSW) at a controlled rate. The storage feeders are available with steel slat bottoms or with a 'NONSPIL' Rubber Belt for fine materials. The moving track plate or optional conveyor are both fitted with a variable speed drive and a sliding shutter door, thereby controlling the depth of waste leaving the feeder. The machines are available with 40-200 tonne capacity hoppers producing an output of between 5-150 tonnes per hour.

VIBRATORY FEEDERS AND SCREENS

Rhodes environmental offer a new high-capacity screening unit, which uses a compact, multi-deck design that can handle up to 10 times more material than conventional screens occupying the same space. The sizer is used for many different applications including dry, moist and wet materials. Five standard widths are available and provide a range of capacities. The machines are compact in design and have a low power requirement, so maintenance is minimal and its noise levels significantly lower than those of conventional screens.

COMPACTORS

The Company offers a comprehensive range of compacting Presses and De-airing Extruders, with models suitable for both soft and stiff extrusion. Almost any type of MSW can be extruded, at rates of between 5-80 tonnes per hour. The models available range from the Two-stage De-Airing Extruder (9" PMG) which produces an output of up to 5 tonnes per hour, through to the Centex 430 which incorporates a combined double-shafted mixer and pugsealer to produce an output of up to 60 tonnes per hour.



Aerial photograph of the Company's 8 Acre Wakefield site.
(Left): Internal photograph of the factory

PULVERISERS/ SIZERS

Rhodes Environmental supplies a range of machinery including Disintegrators, Crushers and Hammer Mills, for pulverising and sizing waste, including glass. The Disintegrators are fitted with two rollers, a large slow rotating roll with a smooth renewable shell and a small fast rotating roll with renewable breaker bars. For optimum flexibility the Disintegrators feature adjustable gap and bar settings to allow a feed size of between 100-150 mm, and an output setting of as little as 2 mm. High outputs of 60-80 tonnes per hour can be achieved, depending on the type of waste, gap setting and feed system.

SHREDDERS

Used for shredding municipal solid waste, the Company's range of Waste Choppers, Kibblers and Even Feeders, are of a heavy-duty construction and include coated blades for extra wear life. Variable speed drive and adjustable blade width allow extra flexibility in catering for different types of waste, including those used for Biogas production.

RECLAMATION

Pelletisers, Single and Double Shafted Mixers, Pug Sealers and Briquette Presses are amongst the Company's range of Reclamation machinery. The Double Shafted Mixers are capable of outputs up to 100 tonnes per hour, depending on the model selected. All mixers are fitted with specially designed and fully adjustable mixers knives, which allow the pitch of the knives to be varied to give optimum retention time. Drive is through a reduction gearbox, and air operated clutches enable automatic sequence control. An automatic water spray system is fitted as standard, and if required the mixers can be adapted to allow steam tempering for added flexibility. A range of Single Shafted Mixers is also available.



350 Extruder



Kibbler



90 Extruder



Machine Spares



A Group Rhodes
Company



Data provided in this literature is an approximate guide and shall not be contractually binding. The policy of Rhodes Environmental is one of continuous product development. The right to change specification and design at any time without notice is reserved. 0.2M/0910/A

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