From waste to valuable secondary products.

Turn-key solutions for processing RDF.

Processing plant for RDF.
Processing of Refuse Derived Fuels (RDF-Plants)

**Definition**

Processing municipal, industrial and bulky waste, construction refuse and surplus production with high-calorific value into homogenous RDF or secondary fuels for cement kilns or power stations.
Input material

- Plastic packaging
- Paper industry rejects
- High-caloric plastics
- Mixed waste from households, industry, construction business
- Wood

Textiles  Plastics  Mixed waste  Bulky waste, mattresses
Processing of Refuse Derived Fuels (RDF-Plants)
Processing of Refuse Derived Fuels (RDF-Plants)

Plant concept

Overband magnet, Drum screen and Wind shifter
Pre-shredding

Granulation Line
Fe-Fraction
RDF
NF-Metal
Pre-shredding

- Pre-shredding with UNI-CUT® AC AlphaCutter
- To obtain homogeneous RDF with high-calorific value, the input material should be well-mixed in your system.
- Massive extraneous materials have to be removed at first.
Processing of Refuse Derived Fuels (RDF-Plants)

Overview

Overband magnet, Drum screen, Wind shifter, Granulators, Fe-, NF-separation
Processing of Refuse Derived Fuels (RDF-Plants)

Separation step after Pre-shredding

Overband magnet  Drum screen  Fine screen
Processing of Refuse Derived Fuels (RDF-Plants)

Granulation Line (Granulator UNI-CUT® UG)

Wind shifter

Granulators
Processing of Refuse Derived Fuels (RDF-Plants)

Fe- and NF-separation
Processing of Refuse Derived Fuels (RDF-Plants)

Output

NF-fraction, 10-30 mm

Heavy fraction after Wind shifter

RDF depending on screen size 10-90 mm
Optional: Further Processing

High-calorific fraction:
Pellets or fluff
# Processing of Refuse Derived Fuels (RDF-Plants)

## Technical Information

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>15 - 50 tons / h Pre-Shredding</td>
</tr>
<tr>
<td>Space needed</td>
<td>approx. 70 x 25 meters</td>
</tr>
<tr>
<td>Granulation</td>
<td>approx. 70 x 25 meters</td>
</tr>
<tr>
<td>Height</td>
<td>approx. 10 meters</td>
</tr>
<tr>
<td>Electrical connection</td>
<td></td>
</tr>
<tr>
<td>Pre-Shredding AC L 2200</td>
<td>approx. 340 kW</td>
</tr>
<tr>
<td>Granulation 2 x UG 1608</td>
<td>approx. 580 kW</td>
</tr>
<tr>
<td>Granulation 2 x UG 2008</td>
<td>approx. 710 kW</td>
</tr>
<tr>
<td>Effective Power consumption</td>
<td>approx. 70%</td>
</tr>
<tr>
<td>Personnel requirement / Shifts</td>
<td></td>
</tr>
<tr>
<td>Pre-Shredding</td>
<td>approx. 2 Persons</td>
</tr>
<tr>
<td>Granulation</td>
<td>approx. 3 Persons</td>
</tr>
</tbody>
</table>

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MACHINES    PLANTS    PROCESS SOLUTIONS
Processing of Refuse Derived Fuels (RDF-Plants)

References

- Albra Winschoten
  Netherlands

- Jakob Becker GmbH & Co. KG
  Germany

- Shanks Group
  Belgium; United Kingdom

- BEGO
  Germany

- Glitzner Entsorgung GmbH
  Germany

- R.A.B.E. Abfallaufbereitung GmbH
  Germany

- Remondis
  Erftstadt, Germany

- PEG
  Germany