

Technical Information Sheet

1. Name of technology	Waste pyrolysis gasification and melting system
2. Type of technology	Gasification of combustible waste using a pyrolysis drum for pyrolysis and using a vertical downflow-type rotary melting furnace, conversion of ash to molten slag
3. Description of technology	<p>[Objective and application of the technology] This technology is used to gasify and melt waste, convert the ash to slag, and reduce pollution.</p> <p>[Characteristics of the technology] This technology uses a pyrolysis drum with high-temperature air pipes in it for pyrolysis. Waste is crushed, fed to the pyrolysis drum while being compacted, and then pyrolyzed and gasified for about one hour in oxygen-free conditions. The long retention time makes it possible to absorb variations in the refuse quality, enabling stable operation. Steam is recovered from high-temperature exhaust gas and is used for turbine power generation.</p> <p style="text-align: center;"><System flow (example)></p> <p>[Delivery record] Company K (90 tons per day 2,000 kW of power generation), City K (81 tons per day × 2 1,600 kW of power generation), 3 other facilities</p> <p>[Price and other inquiries] Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd. Person in charge: Susumu Uno TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895</p>
4. Classification of technology	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Hazardous waste treatment, Recycling (material/thermal)
(2) Target waste	Paper/cardboard, Waste plastic, Food waste/raw garbage, Other
(3) Services provided	Plant construction, Sales of machinery and equipment, Waste treatment service, Technical cooperation/licensing, Environmental impact assessment, Survey/data processing, Other (Municipal solid waste, industrial waste)
5. Countries to which this technology can be provided	No limitations have been placed on country or region.
6. Keywords	Waste treatment, pyrolysis, gasification and melting
7. Contact information	Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd. Person in charge: Susumu Uno TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895

Objective, application, characteristics, delivery record, and price of technology