

Technical Information Sheet

1. Name of technology	Waste melting system with directly connected stoker
2. Type of technology	The stoker furnace and ash melting furnace are combined into one unit. This system may be installed into an existing stoker furnace.
3. Description of technology	<p>[Objective and application of the technology] This system is used to incinerate and melt waste. Waste is incinerated by the stoker furnace and melted by the combustion burner using high concentration oxygen.</p> <p>[Characteristics of the technology] This system is characterized by the stoker furnace and melting furnace being combined into one unit and the fact that these furnaces can use the same exhaust gas treatment process.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Characteristics</p> <ol style="list-style-type: none"> 1) Effective utilization of sensible heat from incineration ash. 2) No need to use exhaust gas treatment equipment for the melting furnace. 3) All waste can be melted. 4) No need to increase the number of operators. 5) Molten slag can be recycled. 6) Intermittent operation is possible. </div> <div style="width: 40%; text-align: center;"> </div> <div style="width: 25%;"> <p>High-efficiency stoker</p> <ul style="list-style-type: none"> • Stoker shape with high combustion efficiency • Stoker with high durability • Stoker shape with reduced riddling ash </div> <div style="width: 20%;"> <p>Complete combustion</p> <ul style="list-style-type: none"> • Decomposition of dioxins with the 3T's (temperature, time, and turbulence) • Almost zero CO concentration </div> <div style="width: 20%;"> <p>Melting of all waste</p> <ul style="list-style-type: none"> • Melting of riddling ash • Combustible waste and residues that can be separated • Existing incineration residue </div> <div style="width: 20%;"> <p>Directly connected melting furnace</p> <ul style="list-style-type: none"> • Effective utilization of sensible heat from incineration ash • Utilization of oxygen • High temperature melting of all waste </div> <div style="width: 20%;"> <p>Safety</p> <ul style="list-style-type: none"> • Continuous slag discharge • Water-sealing of slag duct </div> </div> <p>[Delivery record] 4.8 t/16 h at the Sasebo Wide-area North Refuse Treatment Partial-Affairs Association, 12.6 t/16 h at the Sefuri Refuse Treatment Cooperative Association, 22 t/24 h at the Itoman City/Tomigusuku City Garbage Disposal Facility Association</p> <p>[Price and other inquiries] Please contact the office and person in charge below.</p>
4. Classification of technology	
(1) Applicable fields	Municipal solid waste treatment
(2) Target waste	Paper/cardboard, Waste plastic, Plastic bottles, Styrene foam, Food waste/raw garbage
(3) Services provided	Plant construction
5. Countries to which this technology can be provided	Depends upon the specifics.
6. Keywords	Waste treatment, stoker furnace, ash melting
7. Contact information	KAWASAKI GIKEN CO., LTD. (Representative) TEL: 092-551-2121 FAX: 092-561-5100 http://www.kawasaki-giken.com

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