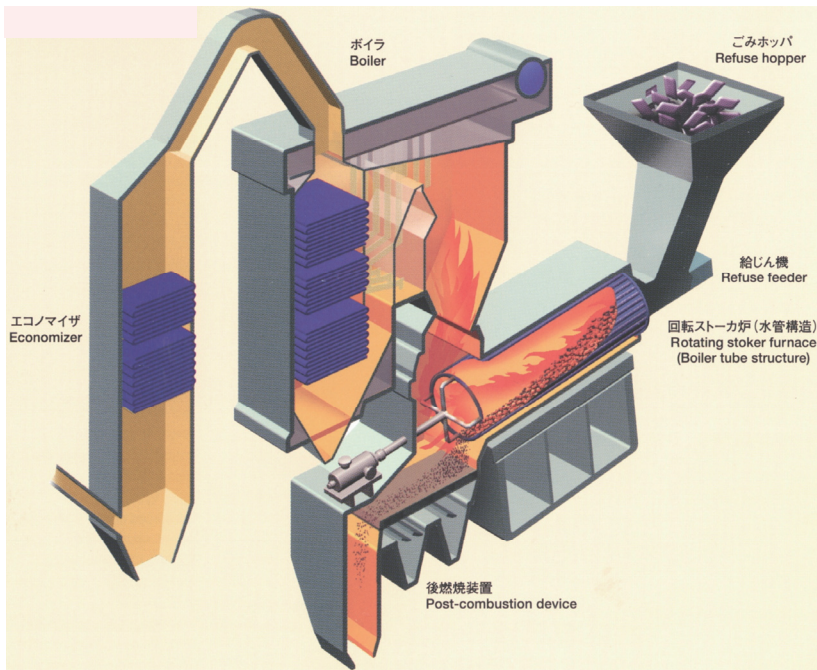


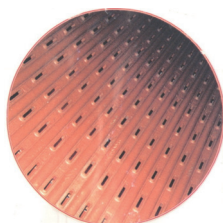


## Technical Information Sheet

|                              |  |
|------------------------------|--|
| 1. Name of technology        | Rotary combustor incinerator (IHI stoker incinerator)  |
| 2. Type of technology        | The IHI stoker incinerator is a rotating stoker incinerator whose grates are made up of boiler water tube walls that have air nozzles. This incinerator is characterized mainly by its high durability, applicability to various types of refuse, ranging from low quality refuse to high calorie refuse, low-air-ratio combustion, and high efficiency thermal recovery. 30 years have passed since the first model was delivered. This technology is a mature, well-proven technology with a long history.   |
| 3. Description of technology | <p><b>[Objective and application of the technology]</b></p> <p>This incinerator is used for general waste or industrial waste (especially for high calorie refuse) and is mainly used for complete combustion, detoxification, volume reduction, and waste heat recovery of waste.</p> <p><b>[Characteristics of the technology]</b></p> <ol style="list-style-type: none"> <li>(1) The furnace rotates, enabling continuous and three-dimensional feed and kneading.</li> <li>(2) The furnace does not use fire-resistant materials and sliding parts, keeping maintenance costs low.</li> <li>(3) The water-tube (water-cooling) structure enables low-air-ratio combustion and the furnace has extremely high durability.<br/>(The grates (water tubes) do not need to be replaced for 20 years or more.)</li> <li>(4) The boiler, which constitutes the main body of the furnace, and its low-air-ratio combustion enable efficient waste heat recovery. This technology can be applied to high efficiency refuse power generation.</li> <li>(5) The intelligent control that combines neural net and fuzzy enables complete combustion with air volume control in each combustion zone.</li> </ol> <p>Objective, application, characteristics, delivery record, and price of technology</p>     <p><b>[Delivery record]</b></p> <p>Domestic municipal solid waste treatment facilities: 5<br/>Industrial waste treatment facilities: 4</p> <p><b>[Price and other inquiries]</b></p> <p>Ryutaro Murayama, Sales Headquarters<br/>TEL: 03-3642-8361 FAX: 03-3642-6023</p> |

|  |   |
|--|---|
| <b>4. Classification of technology</b>                       |   |
| (1) Applicable fields  | Municipal solid waste treatment, Industrial waste treatment, Hazardous waste treatment, Recycling   |
| (2) Target waste   | Paper/cardboard, Waste plastic, Food waste/raw garbage, Construction waste, Waste tires, Medical waste, Waste oil, Other  |
| (3) Services provided  | Plant construction, Sales of machinery and equipment, Waste treatment service, Technical cooperation/licensing, Consulting, Survey/data processing, Other   |
| <b>5. Countries to which this technology can be provided</b> | (No particular restrictions)  |
| <b>6. Keywords</b>   | Rotating, stoker, incinerator, low-air-ratio combustion, boiler, durability, heat recovery, maintenance, low cost, complete combustion, neural net, fuzzy, intelligent, water-cooling grate, detoxification, volume reduction, stable operation, low dioxin, next-generation stoker |
| <b>7. Contact information</b>                                | IHI Kankyo Engineering Co., Ltd.<br>Person in charge: Ryutaro Murayama, Sales Headquarters<br>Contact: TEL 03-3642-8361      FAX 03-3642-6023   |