

## Technical Information Sheet

<b>1. Name of technology</b>	Vertical high-speed rotating waste crusher
<b>2. Type of technology</b>	This crusher was developed specially for waste, is available for a various types of waste, and has the following features: <ul style="list-style-type: none"> <li>• This crusher uses fewer auxiliary parts with a simple free-fall structure, saving energy.</li> <li>• The high-speed rotation produces a strong air current that prevents gas stagnation, which is a cause of explosion, providing improved safety.</li> <li>• The rotational direction can be changed by a switch. Both ends of the hammer and liner can be used evenly, saving labor.</li> </ul>
<b>3. Description of technology</b>	<p><b>[Objective and application of the technology]</b>                  Recycling waste containing two or more materials requires crushing before sorting. This crusher enables safer crushing with reduced energy consumption and is easy to maintain.</p> <p><b>[Characteristics of the technology]</b>                  &lt;Energy saving with a simple structure&gt;                  Waste is put in from the top, falls into the cone, and is gradually crushed into smaller pieces. This has eliminated the need for a feeder for constant feeding, pre-crushing of large pieces of waste, and volume reduction. This has also eliminated the need for a vibrating conveyor that receives crushed waste to horizontally discharge it. Therefore, this crusher uses fewer auxiliary parts, saving energy.</p> <p>&lt;High level of safety&gt;                  By far, the most common cause of explosions in crushers is that a combustible gas in the crusher ignites and explodes. The hammer of this crusher rotates at a high speed and produces a strong air current. This provides better ventilation in the crusher and prevents combustible gases from building up in the crusher, providing a high level of safety. The inside of the crusher can be monitored with video cameras, making it possible to monitor the crushing of waste and immediately detect problems such as fire. This allows for safe operation management.</p> <p>&lt;Easier maintenance&gt;                  The rotational direction can be changed with a single switch. The right and left ends of the hammer and liner can be used evenly, reducing the labor required for maintenance.</p> <p><b>[Delivery record]</b>                  Over 100 crushing and sorting facilities with vertical high-speed rotating crushers have been constructed in Japan.</p> <p><b>[Price and other inquiries]</b>                  Address: 3-15-10 Higashi-shinagawa, Shinagawa-ku, Tokyo 140-0002                  Tokyo Office, KYOKUTO KAIHATSU KOGYO CO., LTD.                  Kazutake Ito, Sales Department, Environment Division</p>
<b>4. Classification of technology</b>	
(1) Applicable fields	Municipal solid waste treatment, Industrial waste treatment, Recycling (material)
(2) Target waste	Construction waste, Home electric appliances, Other (bulk waste, composite waste, etc.)
(3) Services provided	Sales of machinery and equipment (machinery), Technical cooperation/licensing



Fig. Kyokuto Tremash 72 Model Crusher

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

<b>5. Countries to which this technology can be provided</b>	China, Korea, ASEAN countries
<b>6. Keywords</b>	Crusher, crushing, hammer, composite treatment, material sorting, pretreatment, explosion, energy saving, labor saving
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