

Technical Information Sheet

1. Name of technology	Waste liquid iron removal equipment
2. Type of technology	This equipment reduces environmental load by decreasing the volume of waste liquid.
3. Description of technology	<p>[Objective and application of the technology]</p> <p>This equipment removes or concentrates the fine-grained iron contained in the waste liquids (such as waste oil, alkaline water, and mud water).</p> <p>(1) The technology reduces the basic unit use of rolling oil, and the amount of waste.</p> <p>(2) It reduces the basic unit use of alkaline cleaning water, and recycles water.</p> <p>(3) It purifies and recycles pottery stone (ceramics).</p> <p>[Characteristics of the technology]</p> <p>The equipment removes or concentrates the magnetized fine-grained iron contained in the process liquids by passing them through a tube filled with iron spheres, the latter having been magnetized by the application of a strong magnetic field to the tube.</p> <p>Combining electromagnetic filters and drum-type separators with permanent magnets makes the iron separation process more effective.</p> <ol style="list-style-type: none"> 1. As less liquid is discharged from the system, waste liquid disposal can be reduced. 2. The system has a high iron removal efficiency, and can remove fine-grained iron. 3. Full-automatic operation and easy maintenance.
Objective, application, characteristics, delivery record, and price of technology	<p style="text-align: center;">Example: Installation of this equipment in a rolling oil treatment process HIGAMS (High Gauss Magnetic Separator)</p> <p>Outline of HIGAMS</p>

	<p>[Delivery record]</p> <p><Domestic> JFE Steel; Nippon Steel & Sumitomo Metal; Nisshin Steel NGK Spark Plug, NGK Insulators</p> <p><Overseas> Korea: POSCO Gwangyang Works China: Maanshan Iron and Steel; Wuhan Iron and Steel; Guangzhou JFE Steel Sheet; Shougang Group; Baoshan Iron & Steel; Pangang Group; Shanxi Taigang Stainless India: Tata Steel; JSW Steel</p> <p>Price and other inquiries</p> <p>Persons in charge: Nishida and Kaneko, Recycling Equipment & System Division</p> <p>TEL: +81-93-521-4481; E-mail: y-kaneko@nmd.co.jp</p>
4. Classification of technology	
(1) Applicable fields	Industrial waste treatment, Recycling (materials), Other environmental protection technology
(2) Target waste	Waste oil, Other
(3) Services provided	Sales of machinery and equipment
5. Countries to which this technology can be provided	Not specified.
6. Keywords	Rolling oil, waste liquid, magnetic, separator, filter, HIGAMS, environment, saving of resources, recycling
7. Contact information	<p>Nippon Magnetic Dressing Co., Ltd.</p> <p>Wakizono, Business Coordination & Control Department TEL: +81-93-521-4400; E-mail: wakizono@nmd.co.jp</p> <p>Nishida and Kaneko, Recycling Equipment & System Division TEL: +81-93-521-4481; E-mail: y-kaneko@nmd.co.jp</p>