Automatic Scum Removal System
And
Monorail Type Sludge Collector
Corporate Mission

- Primordial forms of life is “Water”.
  We keep “The Life of Water”, purify contaminated water, and improve water environment.
  We create a comfortable living environment, through water environmental business.
- We’ll protect “Human Life”, to protect a very important human being from natural and human disasters.
- We’ll attend to our work faithfully, to make safety towns for all citizens through disaster prevention activities in cooperation with official and nonofficial organizations.
- We’ll lead to protecting the global environment, to realize abundant nature by human wisdom.

Our Business

Planning, Designing, Manufacturing and Installation for Environmental Machines and Equipment.

- Water Treatment Business
  “Fuji Float”(Automatic scum removal system)
  Monorail type sludge Collector
  Froth Remover
- Disaster Protection Business
  “Tasukaru Tower”(Tsunami Evacuation Tower)
  Other Tsunami Evacuation Equipment of all descriptions
- Home Rescue Goods
  Bed Flame for Relief disaster prevention, Shelter, Tool set for disaster Relief
- All business concerned designing and manufacturing
# Our History

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/1980</td>
<td>Established Fujiwara Industry Co., LTD.</td>
<td>04/1996</td>
<td>Certificated of technology examination Froth Remover by Japan Sewage Works Agency</td>
</tr>
<tr>
<td>06/1982</td>
<td>Started Water Environment Business Developed “Fuji Float”, Automatic Scum removal System</td>
<td>04/1999</td>
<td>Certificated FJ Type Domestic Wastewater Treatment Tank by Architectural Association of Japan (Certified No.3244, DW3N8234)</td>
</tr>
<tr>
<td>04/1989</td>
<td>Certificated of technology examination Fuji Float (Automatic Scum removal System) by Japan Sewage Works Agency (Certified No.63069)</td>
<td>03/2005</td>
<td>Awarded for Research encouragement (Tsunami Guard Rope) by Disaster and Environment Research Association</td>
</tr>
<tr>
<td>12/1992</td>
<td>Awarded as Person of invention and execution by the governor of Osaka</td>
<td>07/2009</td>
<td>Exported to China 8 Monorail Type Sludge Collector</td>
</tr>
<tr>
<td>01/1994</td>
<td>Started Disaster Prevention Business</td>
<td>05/2009</td>
<td>Developed Hydraulic Cylinder-Driven Monorail Sludge Collector</td>
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<tr>
<td>01/1995</td>
<td>Awarded as Osaka excellent inventor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04/1995</td>
<td>Certificated of technology examination Monorail Type Sludge Collector by Japan Sewage Works Agency (Certified No.604)</td>
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Water Treatment Equipment in Environmental Business

Planning, Designing, Manufacturing and Installation for environmental Equipment

- "Fuji Float" (Automatic Scum removal System)
- Monorail Type Sludge Collector
- Froth Remover
Flow Chart of Waste Water Treatment

- Inflow
- Grit chamber
- Separate tank
- Primary tank
- Aeration tank
- Concentration tank
- Chlorine mixing tank
- Chlorine feeder
- Secondary tank
- Outflow
Introduction of Fujiwara’s Products (1)

“Fuji Float” (Automatic Scum removal System)

- Powerless System which works linked with Sludge Collector (No Electric Equipment Required)
- Superior Earthquake Resistance
- Excellent Draining Capacity against Pipe Skimmer
Introduction of Fujiwara’s Products (2)

Monorail Type Scum Collector
1. Summary of structure

In this device, the blade carrier equipped with sludge collecting blades shuttles on a rail installed on the basin. First, the drive unit begins forward rotation to lower the scraping blades. Then the blade carrier moves towards the pit, collecting the sludge. At the return, the blade carrier moves backwards, after turned up the blades.
2. Compared toward Traditional Collector

1) Simple structure with small number of parts

*Chain & Flight Type*  
*Monorail Type*
2) High performance for sludge collection

- As Collecting blades designed to match the tank bottom, very few sludge is remained.
- Excellent sludge collecting performance enables Intermittent driving.
- It is possible to adapt design to the earthquake strengthened bottom.
3) Superior earthquake resistance

- There is no parts on the side wall, which is subject to earthquakes.
- The driving unit has low center of gravity and moves on the little rolling tank bottom,
- Blurring prevention rollers and float up prevention shoes make small subject to earthquakes.
3. New Monorail Type Sludge Collector

1) Energy saving, No electric – Hydraulic Driving Method

- Using water pressure to move the Collecting blades, the motors and the chain are not required.
- Changing the rotation directions by automatic bulb operation, electric Equipments and electric supply are not required.
- By simplified structure, installation can be completed in a short time and doesn’t need high installation technology.
Oversea business mission visited our factory for inspection of Hydraulic Monorail Type Sludge Collector.
4. Business record of foreign countries

Taiwan

- Sedimentation tank for industrial water use
  - 32 Units installed in 2004

China (Fuzhou)

- Sedimentation tank for filtration plant
  - 2 Units installed in 2007

China (Ningbo)

- Sedimentation tank for waste water treatment plant
  - 8 Units installed in 2007
Life Prevention Products from Disasters

Planning, Designing, Manufacturing and Installation for Environmental and Disaster Prevention Equipment

- Tsunami Evacuation Equipment such as Tasukaru Tower (Tsunami Evacuation Tower)
- Family Size Tsunami Evacuation Tower, Bed Frame for Relief disaster prevention
- Shelter, Floating Tatami-mat
- Tool set for Disaster Relief
Prepare against disaster of Tsunami by earthquake

TSUNAMI EVACUATION TOWER (TASUKARU TOWER)

2 Stages Type

Basic Type

2004～2011 20Units
After 2012 14Units (at the end of Aug.)

Verified the Safety of Tsunami Evacuation Tower against Wave Power at Disaster Research of Kyoto university.
Disaster prevention Product for Private / Enterprise

- Relief disaster prevention bed flame (Type B)
- Tasukaru Table (Refuse Table from collage)
- Disaster Prevention Shelter
- Tool set for Disaster relief
- Tasukaru Hat (Refuse hat from wall drops)
- Experimental device for cooking oil