FLOOD BUSTER®
New Pump-Gate System

5. Applicable Range

<table>
<thead>
<tr>
<th>Pump Size</th>
<th>Φ300~1200mm</th>
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Applicable Range

6. Conclusion

FLOOD BUSTER Realizes...

- High Reliability
- Easy Operation
- Small Construction Site
- Short Construction Period
- Low Cost of Construction

Best Solution for Flood Control!

Please contact us for further information

http://www.ishigaki.co.jp
masaaki.ito@ishigaki.co.jp
Tel:+81-(0)80-2854-1187
1. Roll of Pumping Station

If the embankment of the river is cut off...
When the main river rises due to heavy rain and others, the water flows back into the tributary and flooding damage occurs.

If closed with a flood gate...
Set up a flood gate so that the water in main river does not flow backward. However, when closing the flood gate, the water in the tributary does not flow, the accumulated water overflows and flooding damage occurs.

If there is a pumping station...
The water of the tributary water can be properly drained. In this way, it is possible to prevent inundation damage of the inland.

2. Comparison

<table>
<thead>
<tr>
<th>Pumping Station</th>
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<tr>
<td>Gate</td>
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</tr>
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Compared to the pumping station, the pump gate can achieve the following:
- Utilization of existing waterways
- Small construction site
- Low construction cost
- Short construction period
- Low number of equipment
- High maintainability

3. How to Operate

**Natural Drainage**
- Fine: Gate : OPEN, Pump : OFF, RAKE : UP
- Rain: Gate : OPEN, Pump : OFF, RAKE : UP

**Forced Drainage**
- Gate : CLOSE, Pump : ON, RAKE : DOWN

4. Advanced Technology

FLOOD BUSTER has Three (3) Operation Modes

- Since the FLOOD BUSTER has three operation modes, it is possible to continue the operation without stopping even at the low water level.
- It is friendly to electrical equipment because it does not repeat starting and stopping.

<table>
<thead>
<tr>
<th>Operation Mode</th>
<th>State</th>
<th>Discharge</th>
<th>Rotation Speed</th>
<th>Power Consumption</th>
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<tbody>
<tr>
<td>1. All Drain Mode</td>
<td>Max Discharge</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>2. Air/Water Mode</td>
<td>Discharge Mixed Air and Water</td>
<td>100~0</td>
<td>100</td>
<td>100~30</td>
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- Gate
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- Mechanical Rake
- Bypass Channel

Pump Gate
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![Applicable Range Chart]

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