

## 5. Applicable Range

**Pump Size**

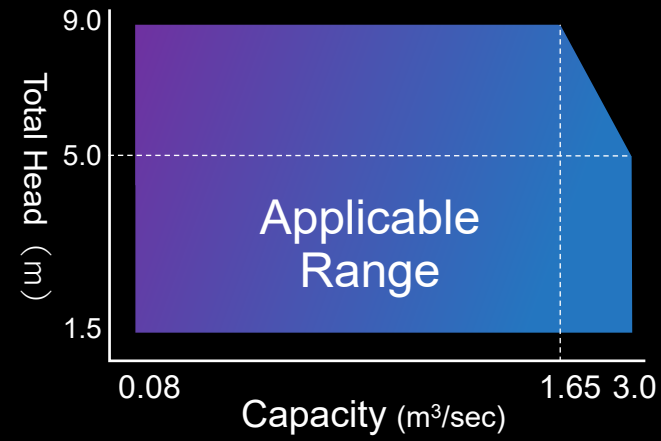
Φ300~1200mm

**Discharge**

0.1~3.0m<sup>3</sup>/sec

**Total Head**

1.5~9.0m



## 6. Delivery Records



Kamikawa Pumping Station  
1200mm / 3cms / 2.9mH / 2units



Horiuchi Pumping Station  
1200mm / 2.85cms / 2.4mH / 2units  
1000mm / 2.5cms / 1.9mH / 2units



Futago Pumping Station  
1000mm / 2.13cms / 3.1mH / 2units



Attori Pumping Station  
900mm / 1.6cms / 2.5mH / 2units



Kyoguchi Pumping Station  
700mm / 1.05cms / 2.6mH / 2units



Balut Pumping Station  
1200mm / 3cms / 3.3mH / 1unit

## 7. Conclusion

**FLOOD BUSTER Realizes...**



**High Reliability**

**Easy Operation**

**Small Construction Site**

**Short Construction Period**

**Low Cost of Construction**

**Best Solution for Flood Control !**

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New Pump Gate System

# FLOOD BUSTER

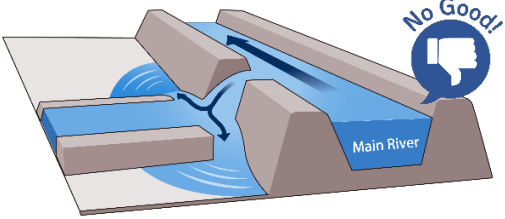
Reliability × Usability × Durability



**ISHIGAKI**



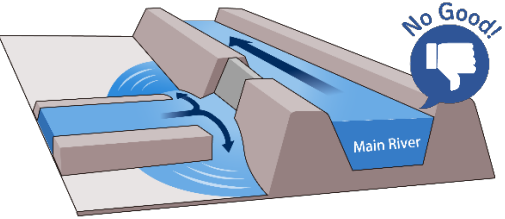
## 1. Role of Pumping Station



**No Good!**

**If the embankment of the river is cut off...**

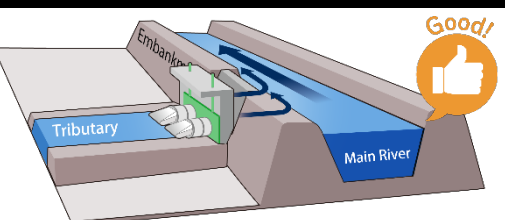
When the water level of main river rises due to heavy rain and others, the water flows back into the tributary and flood damage occurs.



**No Good!**

**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 inundation damage occurs.



**Good!**

**If there is a pumping station...**

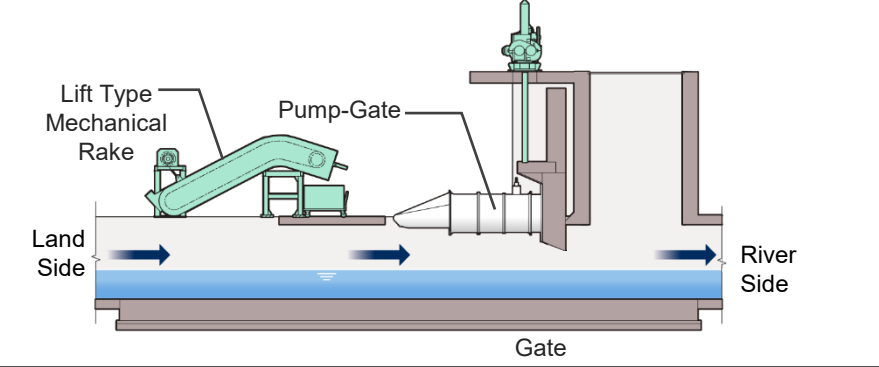
The water of the tributary water can be properly drained. In this way, it is possible to prevent inundation damage of the inland.

## 3. How to Operate

**Fine**

**Natural Drainage**

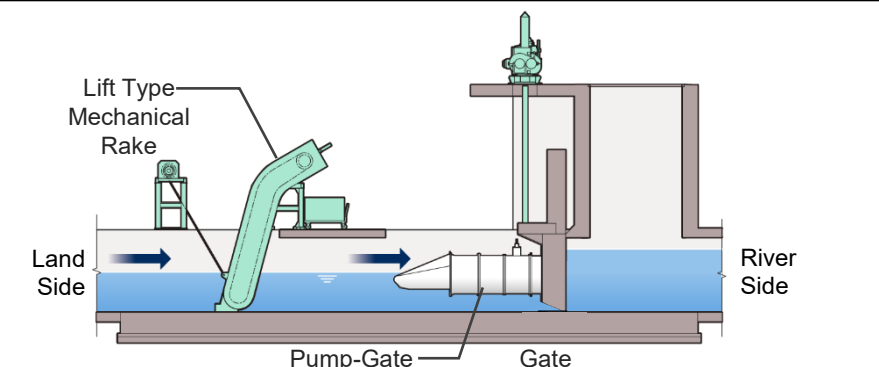
GATE : OPEN  
PUMP : OFF  
RAKE : UP



**Rain**

**Forced Drainage**

GATE : CLOSE  
PUMP : ON  
RAKE : DOWN



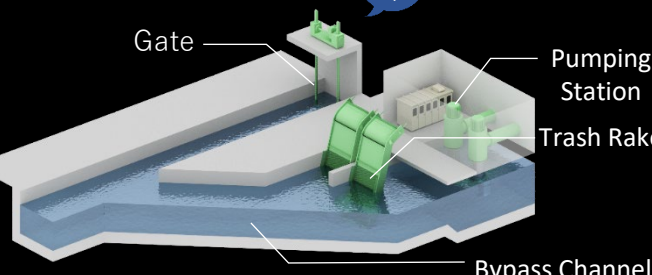


Reliability × Usability × Durability

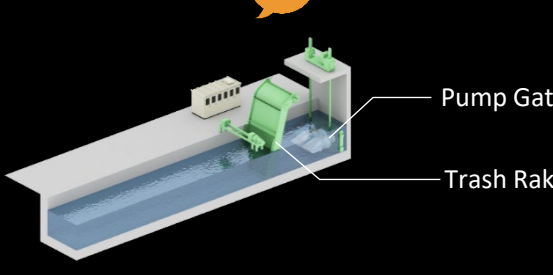
Operable at any water level type horizontal submersible pump  
FLOOD BUSTER realizes best solution for flood control.



## 2. Comparison

**Pumping Station** **No Good!**



**Pump Gate** **Good!**



Compared to the pumping station, the pump gate can achieve the following

- Utilization of existing waterways
- Short construction period
- Small construction site
- Low number of equipment
- Low construction cost
- High maintainability

## 4. Advanced Technology

### FLOOD BUSTER has Three (3) Operation Status

- Since the FLOOD BUSTER has three operation status, 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.

	1. All Drain	2. Air/Water	3. Standby
Status	Water	Air Water	
Discharge	100%	100~0%	0%
Rotation Speed	100%	100%	100%
Power Consumption	100%	100~30%	30%