Hydraulic Elevator Dam

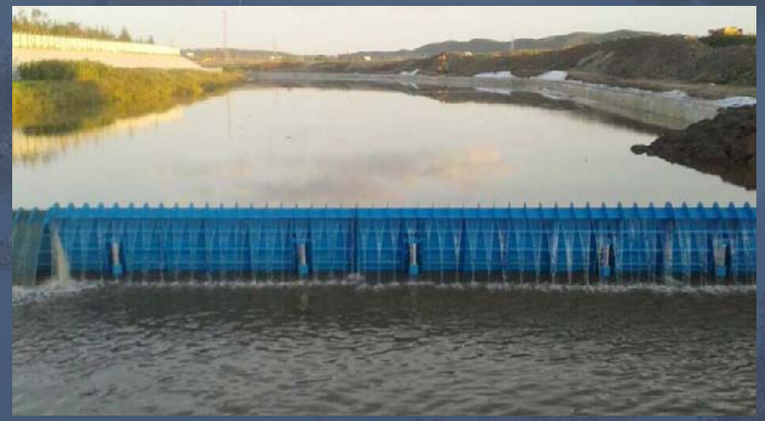
Hydraulic elevator dam is an innovative achievement in water conservancy science and technology researched and developed by BIC. It is the optimized combination of hydraulic“three-hinge-point luffing mechanism principe”and traditional sluice.Hydraulic cylinders stand erectly at the back of the HED gate to lift up the gate for blocking water or to drop down the gate in the case of a flood discharge. It is applicable to various water conservancy conditions and geological conditions, and is widely used in riverway landscape, storage of irrigation water, expension of reservoir capacity and other water conservancy & hydropower, water ecological civilization and urbanization construction projects. This technology has obtained series of patents issued by State Intellectual Property Office of P.R.C, and has been listed in 2014 Catalogue of Key Promotion and Guiding for Advanced Water Conservancy Practical Technologies.

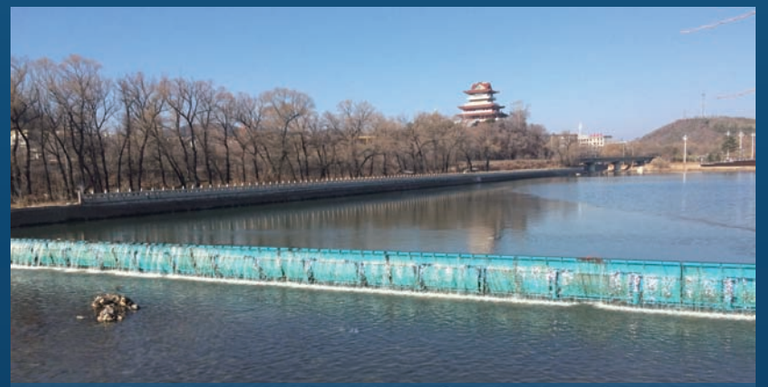
Product Specifications

Gate material: RCC,Stainless steel.
Gate type: Arctype, plate type and shaped type(customized).
Gate height(H): 0.5m-5.0m.
Width of single span: The standard widths are 6m,7m and 8m, and the non-standard shall be designed additionally.
Hoisting structures: Plunger type cylinder, double-acting cylinder and multi-stage cylinder.
Control system: Manual control cabinet, PLC control cabinet, computer local control, computer remote control.
Other optional functions: Synchronous dam elevating and lowering, automatic alarm function and dam lowering in case of exceeding water level.

Top Ten Advantages

1. Simple operation with fast lifting or dropping movement.
2. Reliable structure with high flood discharge capacity.
3. Patent unpowered dam dropping function.
4. Ecological friendly, having fish way and ship-lock functions.
5. Beautiful dam shape and good landscape effect.
6. Long service life and low maintenance costs.
7. Various control patterns.
8. Simple construction with low comprehensive cost.
9. Adjustable water retaining height.
10. Easy to discharge floaters and heavy silt.





Buerhatong River(Antu Section) project
L:54m H:1.5m Sept.2015

Xiaoling River(Yangshan Section)project
L:48m H:2.5 Augest 2015

Mezali River(Myanmar Section)project
L:261m H:2.0 August 2014

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Hydraulic Elevator Dam

Reliable Efficient Professional

China Institute of Water Resources and Hydropower Research