



## Patented Regulation for Improved Efficiency

Siapro has recently developed and specially designed the flow regulation of a standard Banki Water Turbine (patent N° EP2642115) to increase its overall efficiency. A **patented invention** that takes a standard, reliable and proven technology to a new level.

Your main **benefits**:

- **Proven, inexpensive** solution with low overall **investment**
- **Good regulation** as well as excellent behaviour under partial loads
- **Increased efficiency** (by up to 5%) due to specially designed and patented Siapro Flow Regulation System
- **Minimal operational costs** due to turbine's relatively simple construction and self-cleaning effect
- **High profitability** of the investment
- Automation system with **standard industrial components** for high lifetime expectancy



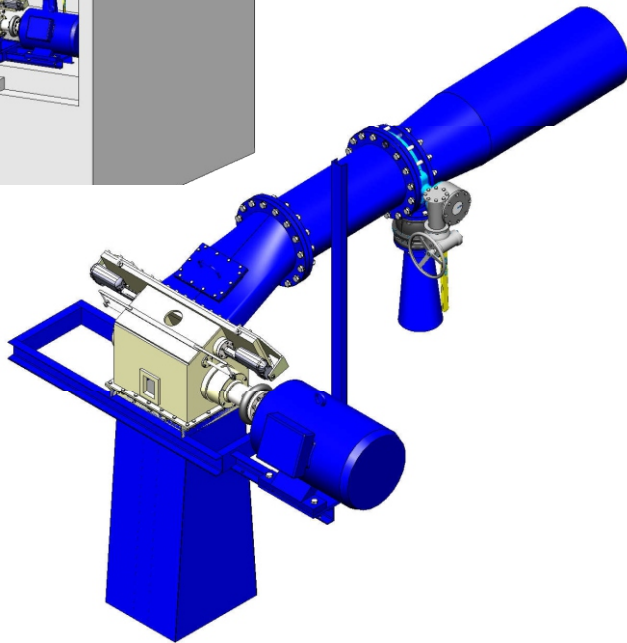
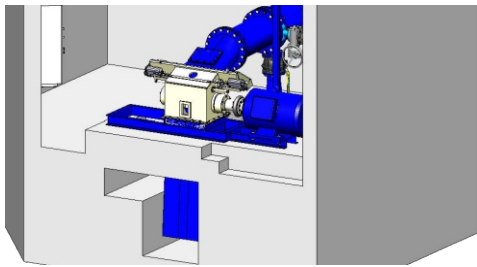


The Crossflow Turbine made by Siapro, improved with patented flow regulation for competitive higher efficiency, is designed for following conditions:

Flow:	0,1 to 1,0 m <sup>3</sup> /s
Net head:	2 to 100 m
Rated power:	10 to 1.000 kW

### 3D modelling

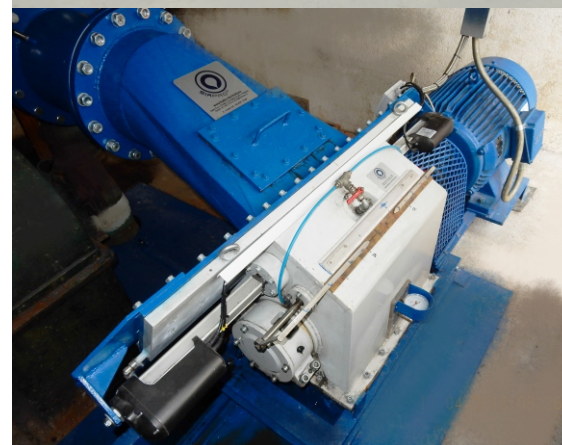
- Quality starts already with the design.



### Main characteristics, production and commissioning:

- A wide range of configurations
- Turnkey supply and installation ready to operate
- Standardized manufacturing processes to secure high quality of the end product
- 3D 5 axis machining
- Manual or automatic control - depending on customer's requirements
- Depending on customer's budget use of different materials for runner; Inox, other materials

Siapro has more than **25 years of experience**. We offer consulting, engineering service, production and implementation. Numerous **reference projects** are a reflection of trust in our services and products. We provide also Francis, Kaplan and Pelton Water Turbines.



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