

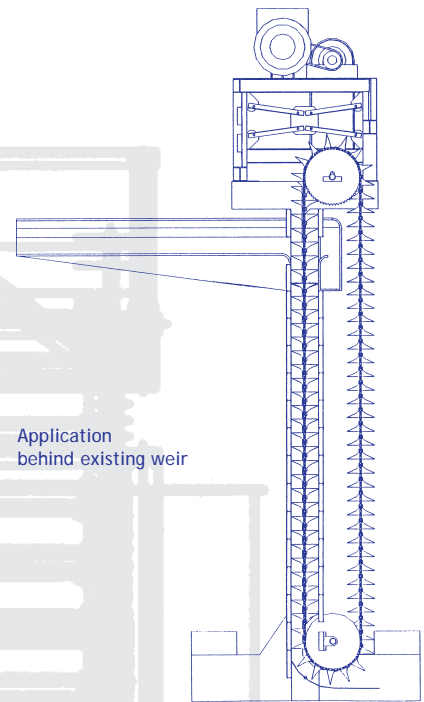
# KataMax Small Hydro Power Station

extremely ecologic and economic ...



## Prevalent Small Hydropower Stations

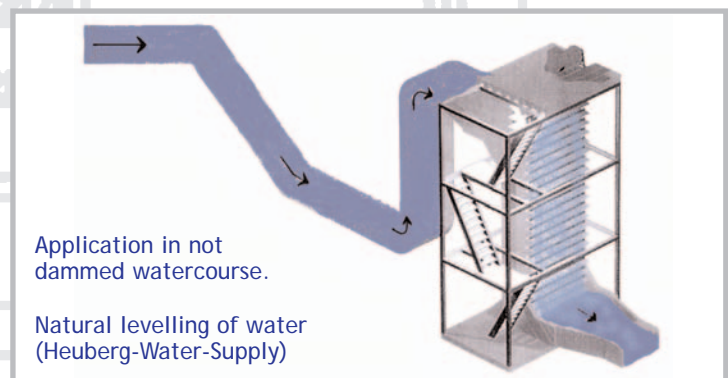
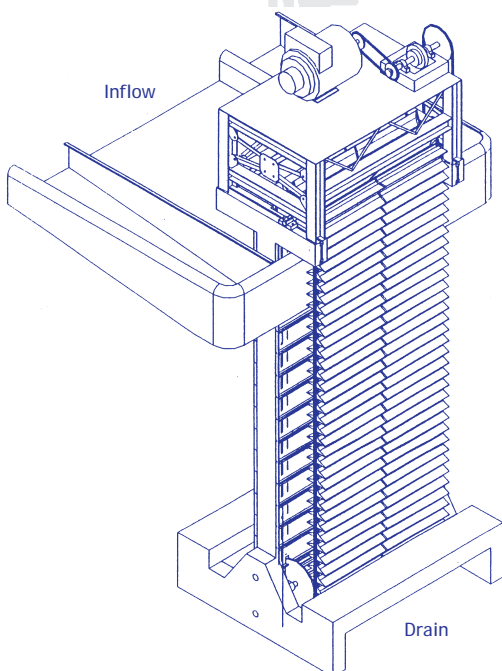
Small Hydropower Stations are known to require high investments per installed unit. 97% of the energy produced by hydropower are therefore generated in big hydroelectric power plants with a capacity of over 10 megawatts. Only these big hydroelectric power plants can be run without subsidies, while the small hydropower stations rely on public funds. Yet small hydropower stations are advantageous in respect of ecological terms. They can run almost non-stop, hours of operation adding up to about 6.000 per year. Their extremely high degree of efficiency lies between 65 and 88%. The cost of operation is low and the resource water mostly has no costs at all.



## KataMax - the renaissance of Small Hydropower

So far, the advantages of small hydropower have never been used to full capacity due to high installation costs. The KataMax Hydropower Station puts an end to this drawback.

The innovation KataMax combines the advantages of ecological operation of the prevalent small hydropower stations and economic advantages, which allow KataMax to run efficiently without subsidies.





## Overview of the Advantages:

### KataMax ...

... stands for worldwide competitive and ecologic electricity production costs

The KataMax Hydropower Stations are delivered to our customers as a ready to use complete system. The KataMax principle allows for a significantly lower price level than the price level achievable with conventional hydropower plants. In some cases the maintenance and operation of KataMax Hydropower Stations can be outsourced to a competent partner company, which further decreases the electricity production costs.

... is predestined for mobile use

The KataMax-System consists of modular elements. The transport is extremely easy. The installation of a KataMax Hydropower Station next to a water source demands only a bottom plate to fix the station onto the ground. The mobility of KataMax enables the temporary use of water rights which had been impossible with conventional systems. The KataMax Hydropower Station can be used until expiration of the right of use, dissipated and rebuilt again.

... is recyclable

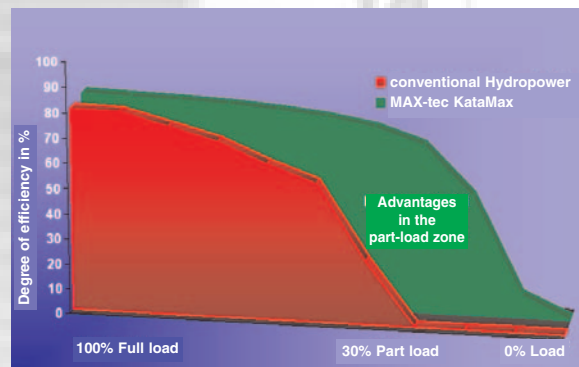
The elements of which the KataMax Hydropower Station consists are all recyclable.

... is assembled easily and therefore of extremely low-maintenance

No specialized Know-How is necessary for construction, building and maintenance. This simple construction makes the use of KataMax Hydropower Stations feasible in all newly industrializing countries.

... stands for extremely high cost effectiveness

Cost effectiveness is achieved by KataMax very good part load characteristics, achieved by its innovative actuation technology.



This technology generates energy from approx. 5% input, while a conventional hydropower station starts generating energy from around 30% or more of the maximum capability. The excellent part load characteristics of KataMax are indeed exceptional. Usual hydropower stations have their major disadvantages in this very characteristics. KataMax Hydropower Stations are able to adjust to the varying amounts of water as they occur in nature. The ability to generate energy in the part-load operational zone enables KataMax operators a significantly higher energy yield.

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