

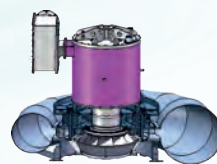
ADVANTAGES OF THE DIVE-TURBINE

Characteristics	Technical benefits	Benefits for operator and owner
Turbine and generator unit completely submerged	<ul style="list-style-type: none"> + No turbine house required + Minimum cost of civil works + Save operation in flood-areas 	Reduced investment
Direct-drive, free of mechanical transmission	<ul style="list-style-type: none"> + Minimum noise and vibration + Free from maintenance and free from wear and tear + No gearbox or belt-drive losses 	Hydropower in residential areas
Patented, single DIVE-bearing unit for turbine and generator	<ul style="list-style-type: none"> + Permanent lubrication of bearing unit in oil bath + Leakage of lubricants (oil) impossible + No danger in cases of runaway speed and grid interruption 	Minimum operational cost and risk
Patented, wear and tear free sealing system	<ul style="list-style-type: none"> + No necessity of a costly sealing system + Free from maintenance and free from wear and tear + Safe operation in saline and dirty water and high load of sediments 	Maximum technical availability and no risk at flood situations
Fixed runner blades	<ul style="list-style-type: none"> + No maintenance and wear-intense pitching of the runner + Runner design optimized for max. efficiency + Zero-gap and fish friendly runner 	Minimum operation cost and risk Maximum technical availability
Double regulation by variation of speed and pitching of the guide vanes	<ul style="list-style-type: none"> + High efficiency at part-load (reduced flow and changed head) + Single machine solution for medium head + Discharge from 5% to 100% 	Maximum annual revenue with a single machine solution
Critical components made of stainless steel	<ul style="list-style-type: none"> + High resistance against wear and corrosion 	High durability of the main components (e.g. runner and guide vanes)



**DIVE-Turbine
für Low Head Applications**

Head 2m - 20m



**DIVE-HAX-Turbine
for Medium Head Applications**

Head 20m - 120m

