

Application Bulletin

Power Generation

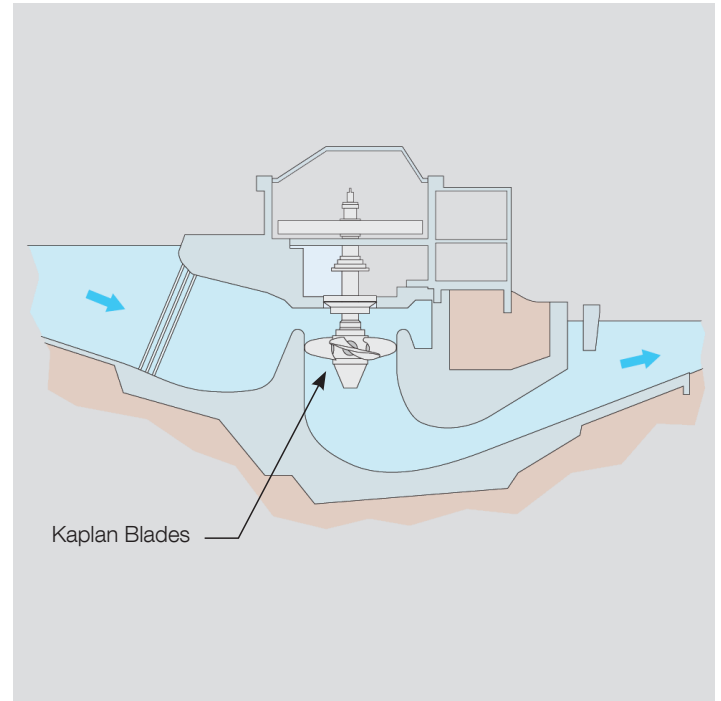
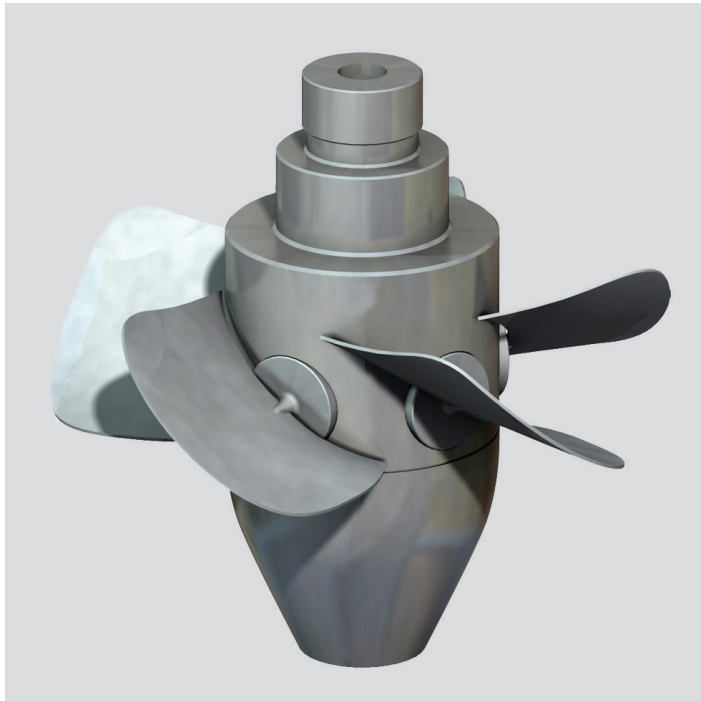
Hydropower – Kaplan Turbine Blades

Kaplan water turbines employ an adjustable propeller that allows the turbine to efficiently work in various flow conditions. However, turbine efficiency can be reduced as a result of exposure of the propeller blades to erosive media, such as sands, silts and gravels. The blades are also subject to fluid erosion and cavitation.

The Oerlikon Metco Solution

Protect Kaplan blades from erosion and cavitation with Oerlikon Metco HVOF materials and application equipment.

- Extend Kaplan blade service life
- Ensure high turbine efficiency
- Maintain expected turbine power output



Recommended Oerlikon Metco Products

Amdry 5843	High performance coating material with very good cavitation resistance
WOKA 3652	High performance coating material for erosion and cavitation resistance
WOKA 3652-FC	High performance coating material, especially for extra-fine silt conditions
HVOF Systems	HVOF gas and liquid fuel thermal spray application systems

More Information

DSMTS-0113
DSM-0221
DSM-0221
HVOF Solutions

Information is subject to change without prior notice.