

## Application Bulletin

### Power Generation

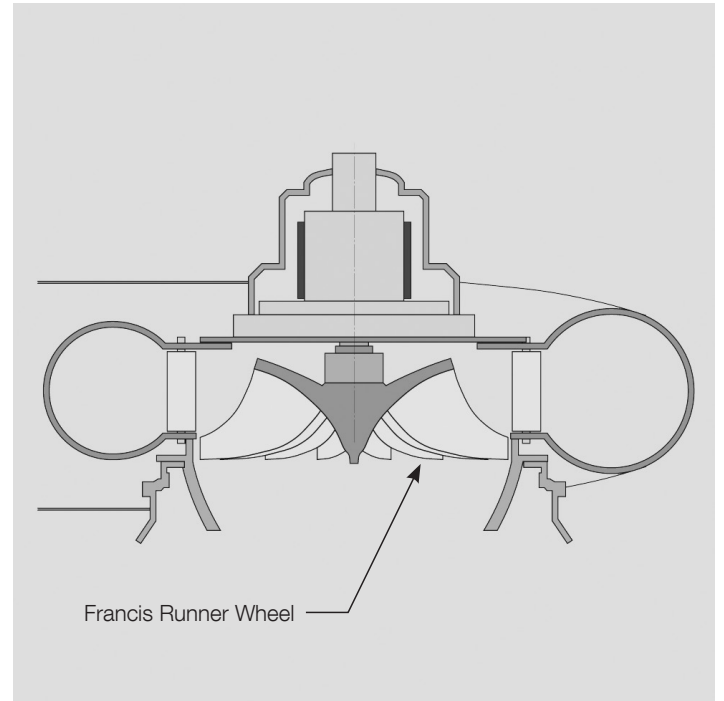
### Hydropower – Francis Turbine Runner Wheel

**Francis water turbines are popular because of their adaptability to many water flow and head conditions. However, turbine efficiency can be reduced as a result of exposure of the runner wheel to erosive media, such as sands, silts and gravels. The runner wheels are also subject to fluid erosion and cavitation.**

#### The Oerlikon Metco Solution

Protect Francis runner wheels from erosion and cavitation with Oerlikon Metco HVOF materials and application equipment.

- Extend Francis turbine runner wheel 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

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|----------------|
| DSMTS-0113     |
| DSM-0221       |
| DSM-0221       |
| HVOF Solutions |

Information is subject to change without prior notice.