



AXCO-Motors delivers a generator to Strömsberg Hydropower Plant, Finland

In October 2009, AXCO-Motors Oy (Ltd) delivered a Direct-On-Line Permanent Magnet Generator to Strömsberg HPP in Finland. The generator was integrated into the bulb-type Kaplan-turbine supplied by WaterPumps WP Oy (Ltd), Finland. The goals of this investment were to rebuild the old turbine/generator and improve its reliability and efficiency.

Axco's scope of supply included:

- Dimensioning and design of a permanent magnet generator to be integrated into the WaterPumps WP turbine structure and the existing power plant structures
- Manufacturing and assembly of the generator
- FAT (Factory Acceptance Testing) for the complete turbine-generator set
- On-site commissioning.

Results:

- Successful startup
- Power output of turbine unit: 275 kW as rated value
- Generator efficiency rose to 97.3 %
- No gearbox necessary due to direct drive.



Strömsberg turbine installation



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