Zeco Francis Turbine Presentation





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Since 1960 in the hydropower Italian market.

In the 1985 has delivered the first machine for the foreing market (Tanzania). Produce Kaplan, Submerged Kaplan, Francis, Pelton turbines up to 10 MW. Act as a «general contractor» for the electro-mechanical equipment delivered.

Zeco Automation department was born in 2007 as a natural detachment of the hystorical Zeco's C&I dept. Supply all the C&I equipment related to the hydraulic power plant and provide after sale service.



Company set up by Zeco owner in 2009. High skilled engineering department which developes, tests and start ups tailored generators for the hydropower market. The production is made by two external high skilled subsupplier.



Hystorical Zeco's carpentry sub-supplier acquired in 2009. Since 2011 in charge of the forbay tanks electro-mechanical equipment business (inlet gates and trash rakes).





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Horizontal Francis Vs. Vertical Francis





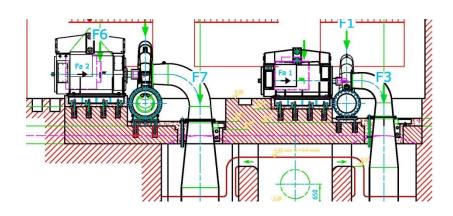


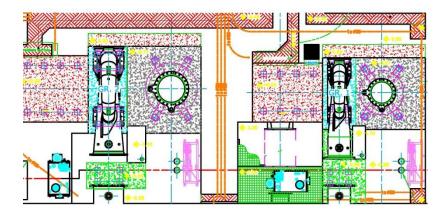


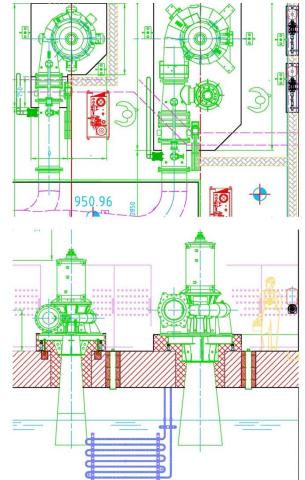


Horizontal Francis Vs. Vertical Francis



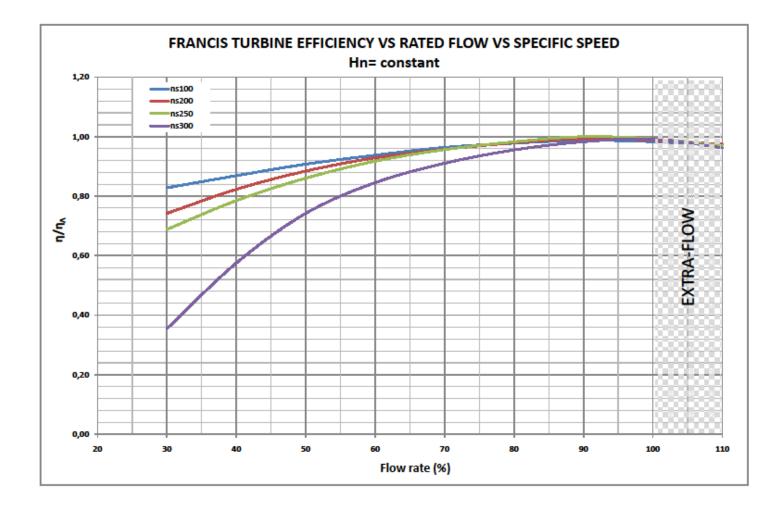






Francis Efficiency





Francis Turbines - runner











Zeco Francis Turbine Presentation

Internal tests









Internal tests











Zeco Francis Turbines







Zeco Pelton Turbines







Horizontal Pelton for Stand Alone Operation





Horizontal Francis Configuration permitts to easily insert a flywheel for connection to a Stand Alone Grid.

Francis Turbine – Spiral case and Distributor





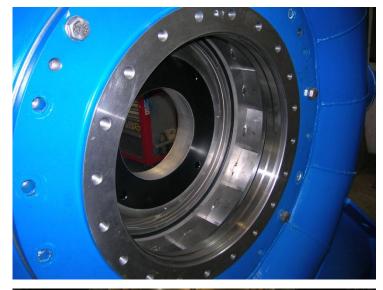






Francis Turbine – Wicket gates









Hydraulic Power Unit for Zeco Francis Turbine













SCOPE OF SUPPLY:

Turbine
Generator
Inlet valve
Governor System
Electrical equipment
Erection and commissioning

Turbine type: Horizontal Francis for Aqueducts Net Head: 40.0m Flow rate: 1.94 mc/s Output: 1x685kW Speed: Year: 2011





SCOPE OF SUPPLY:

Turbine Generator Inlet valve Governor System Electrical equipment Erection and commissioning Main and Aux Transformers

MAIN DATA:

Turbine type: Horizontal Francis Net Head: 58.0m Flow rate: 2.00 mc/s Output: 2x1024 kW Speed: 750 rpm Year: 2012





SCOPE OF SUPPLY:

Turbine
Generator
Inlet valve
Governor System
Main and Aux Transformers
Electrical equipment
Plant by-pass
Erection and commissioning

MAIN DATA:

Turbine type: Horizontal Francis Net Head: 74.8m Flow rate: 2.40 mc/s Output: 1x594 kW + 1x990 kW Speed: 1000 rpm ; 750rpm Year: 2012





SCOPE OF SUPPLY:

Turbine
Governor System
Electrical equipment
Erection and commissioning
Generator - service
Inlet valve - service

MAIN DATA:

Turbine type: Horizontal Francis Net Head: 64.5m Flow rate: 1.25 mc/s Output: 2x 712 kW Speed: 1000 rpm ; 750rpm Year: 2012





Turbine Generator Inlet valve Governor System Electrical equipment Erection and commissioning Main and Aux Transformers Turbine type: Vertical Francis Net Head: 152.6 m Flow rate: 4.04 mc/s Output: 1x 5443 kW Speed: 750 rpm Year: 2008 Country: Italy





SCOPE OF SUPPLY:

Turbine Generator Inlet valve Governor System Electrical equipment Erection and commissioning Main and Aux Transformers

MAIN DATA:

Turbine type: Vertical Francis Net Head: 120.0 m Flow rate: 3.64 mc/s Output: 2 x 1928 kW Speed: 1000 rpm Year: 2007





SCOPE OF SUPPLY:

Turbine Generator Inlet valve Governor System Electrical equipment Erection and commissioning Main and Aux Transformers

MAIN DATA:

Turbine type: Vertical Francis Net Head: 47.0 m Flow rate: 3.5 mc/s Output: 1x 1452 kW Speed: 600 rpm Year: 2010 Country: Italy

Zeco Group of Companies



A reliable partner for the hydropower world-wide market

