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FRANCIS TURBINES

The machines are so optimised to meet the required parameters of new or renovated hydro power projects.

UCM Resita is certified according to ISO 9001: 2008 & 14001: 2004

FRANCIS TURBINES

UCM Resita delivers the Francis turbines, based on the research and development of **Hydro Engineering** (UCM Resita's R&D division, operating as an independent company).

These hydraulic machines were developed by the means of numerical flow simulations (CDF) and verified by the measurements of the physical models, as well as by processing the obtained data during the performance test in site.

Besides the delivery of new turbines, **UCM Resita** provides the necessary activities for rehabilitation and upgrading of existing Francis turbines.

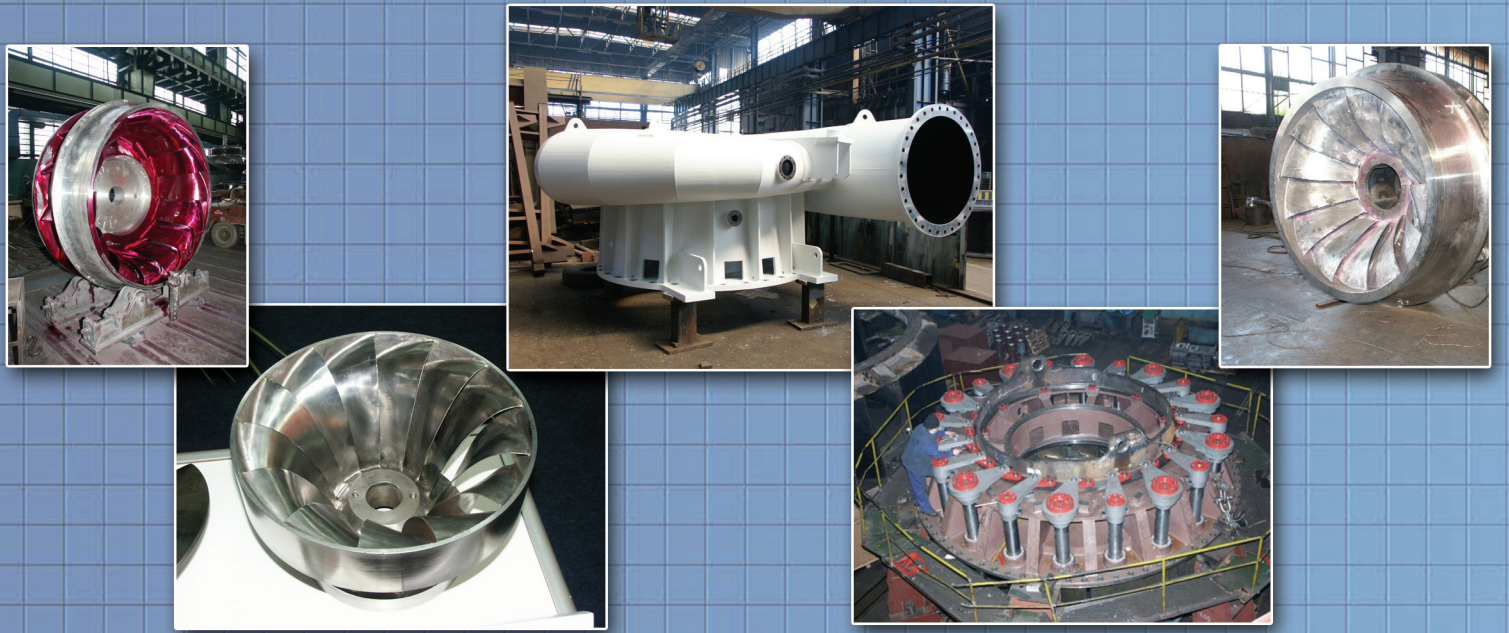
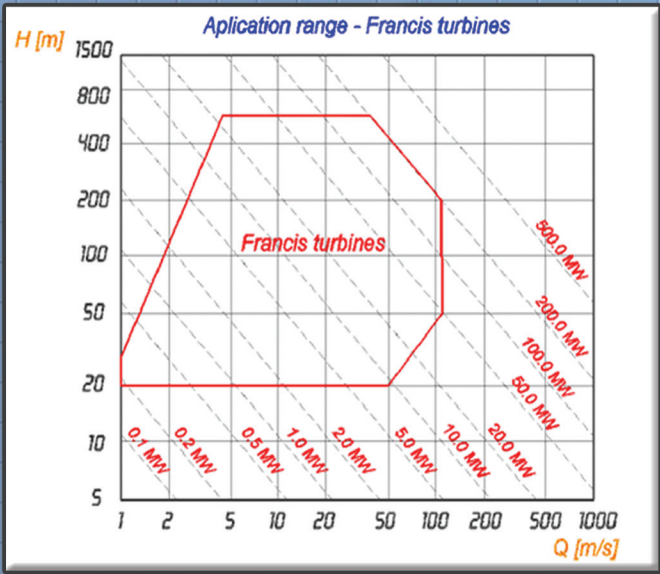
Excellent results, substantially higher efficiency and output have been obtained.

> **Field of Application:**

- heads from 20 m to 600 m
- outputs from 200 kW to 180 MW
- runner diameters from 390 mm to 3 150 mm

Extract from references of Francis turbines

Plant	Owner	Units	Turbine type	Power [KW]	Speed [rpm]	Runner diameter [mm]	Head [m]
Rastolita	Hidroelectrica Romania	2	FVM	25 000	428.6	2 030	230
Tana - Merila Section	Kenya	2	FVM	5 100	500	1 050	67.58
Tana - Maragua Section	Kenya	2	FVM	7 800	333.3	1 560	52.45
Dumitra	Romelectro Romania	3	FVM	10 300	600	1 150	95
Bumbesti	Romelectro Romania	3	FVM	16 300	600	1 420	150
Manyas	Turkey	3	FVM	6 830	500	1 180	53.5
Kilavuzlu	Turkey	4	FVM	14 100	333.3	1 820	53.5
Retezat	Hidroelectrica Romania	2	FVM	170 500	500	2 850	526
Cine	Turkey	2	FVM	23 600	428.6	1 940	146.3
Rucar	Hidroelectrica Romania	2	FVM	36 600	333.3	2 290	195



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