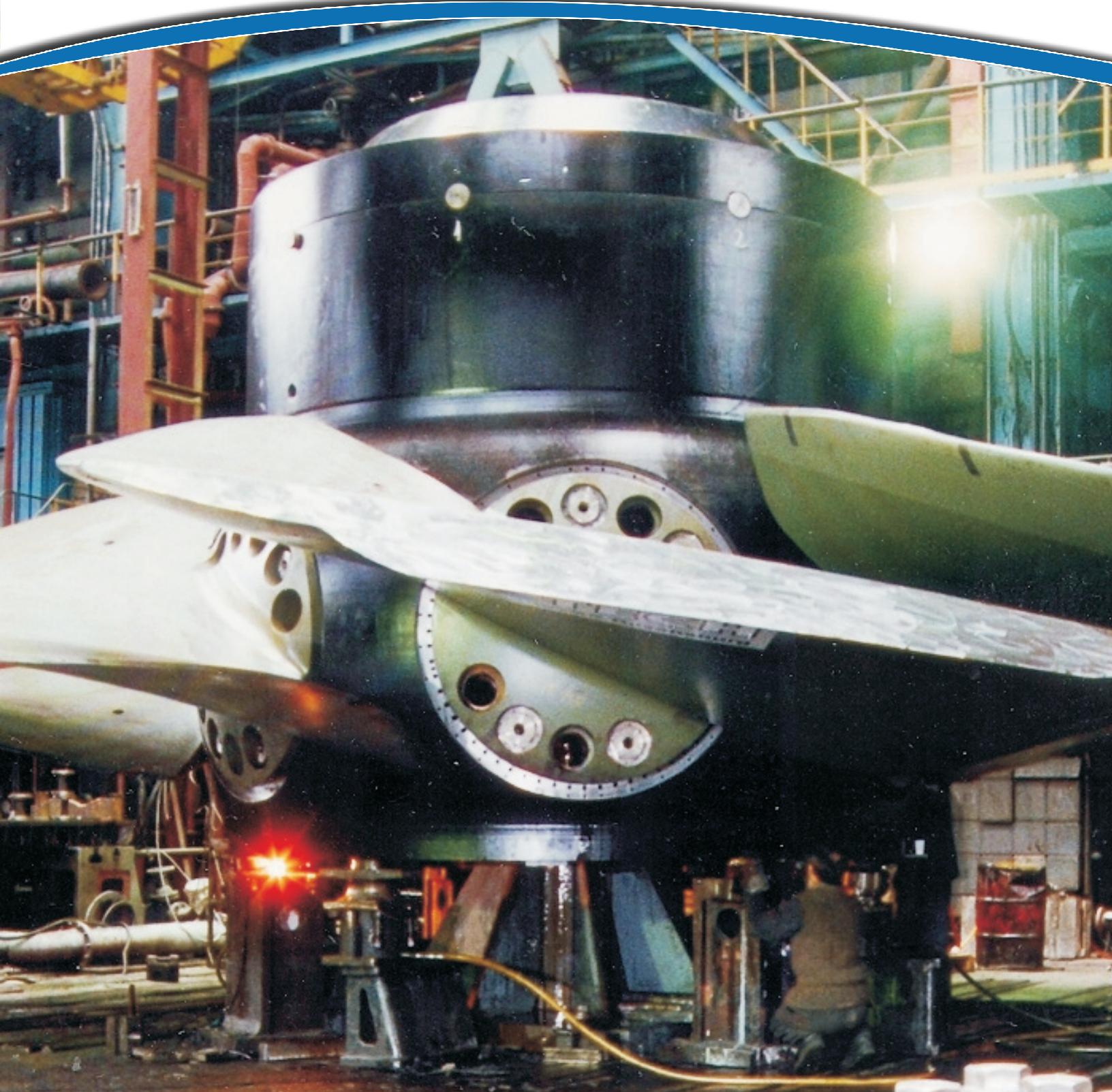


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KAPLAN-, BULB-, PIT-BULB TURBINES, S-TYPE TURBINES

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

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

KAPLAN-, BULB-, PIT-BULB TURBINES, S-TYPE TURBINES

UCM Resita delivers the KAPLAN 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 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 the existing KAPLAN turbines.

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

Field of application:

> Kaplan turbines

- heads from 5 m to 75m
- outputs from 200 KW to 200 MW
- runner diameter up to 10 000 mm

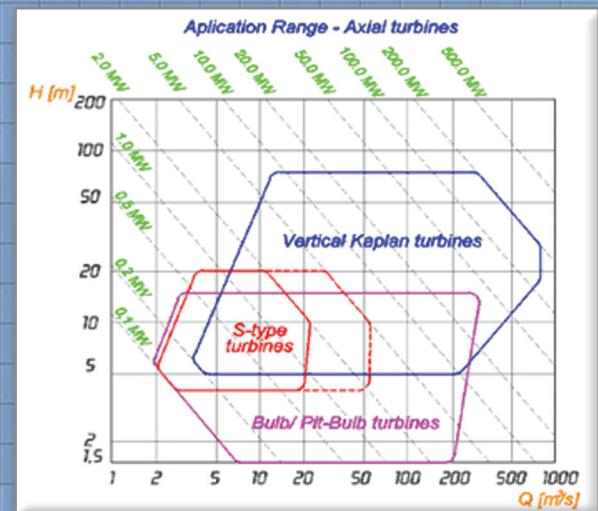
> S-type turbines

- heads from 4 m to 12 m (15 m)
- outputs from 100 KW to 1,2 MW (2,5 MW)
- runner diameters between 500 mm - 1 500 mm (3 000 mm)



> Bulb, Pit-Bulb turbines

- heads from 1,5 m to 15 m
- outputs from 100 KW to 40 MW
- runner diameter up to 7 500 mm



Extract from references of KAPLAN-, BULB-, PIT-BULB TURBINES

Plant	Owner	Units	Turbine type	Power [KW]	Speed [rpm]	Runner diameter [mm]	Head [m]
Iron Gate I	Hidroelectrica Romania	6	KVB	178 000	71.5	9 500	27.16
Iron Gate II	Hidroelectrica Romania	8	KOT	28 000	62.5	7 500	7.45
Racovita	Hidroelectrica Romania	2	KVB	17 200	83.33	5 800	12.04
Motz(Chautagne)	France	2	KOT	2 985	214.3	2 250	9.4
Lavours(Belley)	France	2	KOT	2 570	136.4	3 000	5.7
Subcetate	Hidroelectrica Romania	2	KVB	6 000	166.7	3 000	15
Robesti	Hidroelectrica Romania	2	KVB	17 500	83.3	5 800	12.04
Plopi	Hidroelectrica Romania	2	KVB	6 000	166.7	3 000	15

KVB-Kaplan turbine, vertical, concrete spiral case, KOT-Kaplan turbine, horizontal, bulb

UCM Resita S.A.
1st Golului Street
320053, Resita
Caras-Severin
ROMANIA



Tel: +40 255 217111
Fax: +40 255 223082
E-mail – contact@ucmr.ro
Website – <http://www.ucmr.ro>