



LITOSTROJ POWER
ČKD Blansko Engineering, a.s.

Hydraulic laboratory

Reference projects

Reference list of projects measured in Hydraulic laboratory of ČKD Blansko Engineering

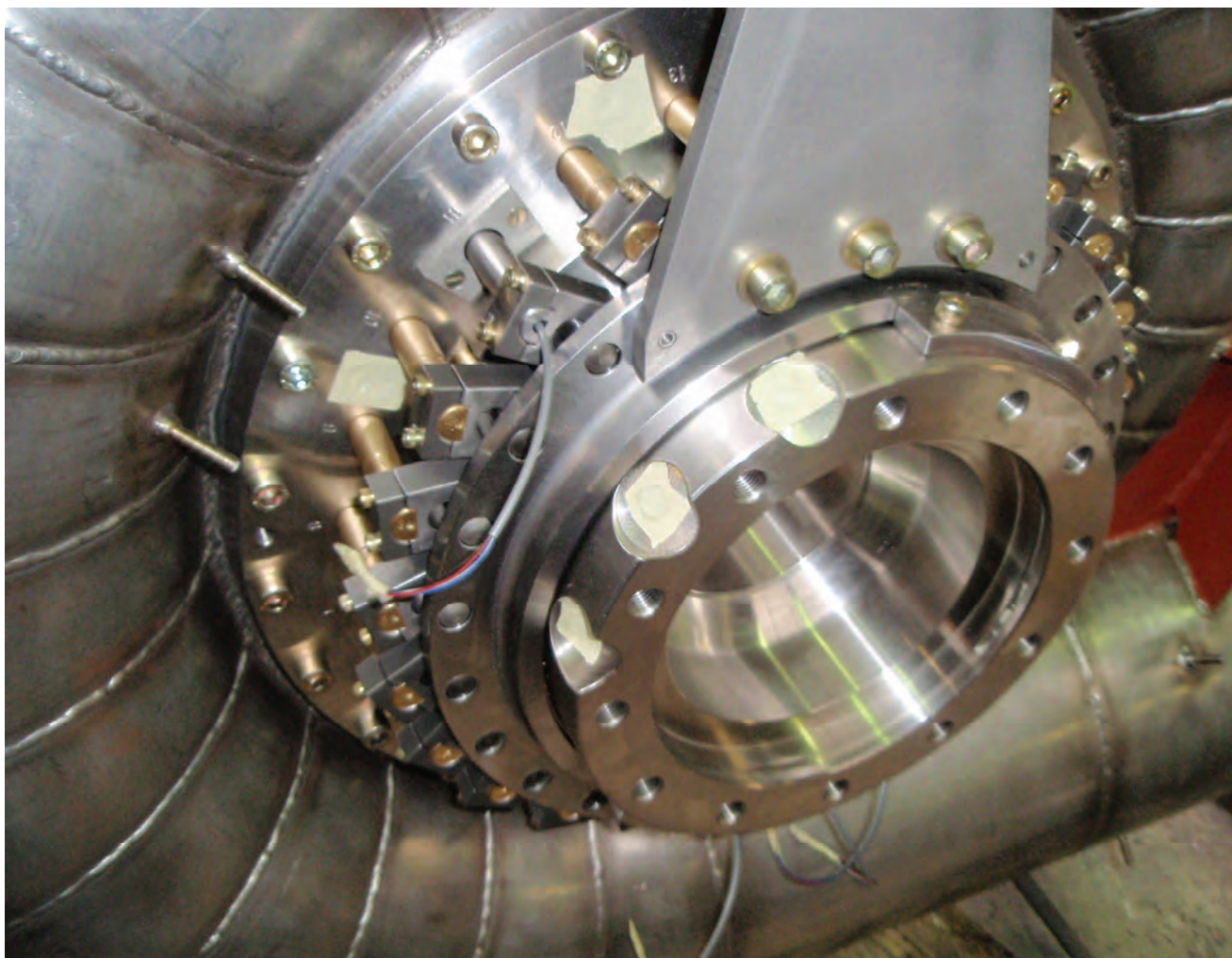
Project	Turbine type	Units	Model test type	Client	Country
Dlouhé Stráně	Francis pump turbine	2	Model and Acceptance test	ČEZ	Czech Republic
4K15	Kaplan turbine	-	Model test	ČKD Blansko Engineering	Czech Republic
Żydowo	Francis pump turbine	2	Model and Acceptance test	ČKD Blansko Holding	Poland
FR100	Francis pump turbine	-	Model test	ČKD Blansko Engineering	Czech Republic
FR100	Francis pump turbine	-	Model test	ČKD Blansko Engineering	Czech Republic
F200C	Francis turbine	-	Model test	Litostroj Power, ČKD Blansko Engineering	-
Doblar	Francis turbine	3	Model and Acceptance test	Litostroj Power	Slovenia
4K20A	Kaplan turbine		Model test	Litostroj Power, ČKD Blansko Engineering	-
Slapy	Kaplan turbine	3	Model and Acceptance test	ČEZ	Czech Republic
Toro 3	Francis turbine	2	Model and Acceptance test	Litostroj Power	Costa Rica
Gangaram	Radial pump	14	Model and Acceptance test	Jyoti	India
Khoda Afarin	Kaplan turbine	2	Model and Acceptance test	FARAB	Iran
Chaparral	Francis turbine	-	Model and Acceptance test	ČKD Blansko Holding	Columbia
Dlouhé Stráně	Francis pump turbine	2	Model and Acceptance test	ČEZ	Czech Republic
Koyna	Deriaz pump turbine	2	Model and Acceptance test	IVRCL	India
Ngoi Hut	Pelton turbine	2	Model and Acceptance test	Flovel	Vietnam
Kwoiek Creek	Pelton turbine	4	Model and Acceptance test	KCRLitostroj Power	Canada
Lieksankoski	Kaplan turbine	1	Model and Acceptance test	KEMIJOKI OY	Finland
4K10B	Kaplan turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
4K12B	Kaplan turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
Moforsen	Kaplan turbine	1	Model and Acceptance test	E-ON	Sweden
Väsa	Kaplan turbine	1	Model and Acceptance test	Fortum	Sweden
Grant MPO Pelton	Pelton turbine	-	Model test	ČKD Blansko Engineering	Czech Republic
3KP10E-A	Bulb turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
3KP10E-B	Bulb turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
F200L	Francis turbine	-	Model test	ČKD Blansko Engineering	Czech Republic

Project	Turbine type	Units	Model test type	Client	Country
Sarapullo	Francis turbine	1	Model and Acceptance test	ČKD Blansko Holding	Ecuador
Kamýk	Kaplan turbine	1	Model and Acceptance test	ČKD Blansko Engineering	Czech Republic
Hällforsen	Kaplan turbine	1	Model and Acceptance test	Litostroj Power	Sweden
F200L	Francis turbine	1	Model test	ČKD Blansko Engineering	Czech Republic
Grant MPO Pelton	Pelton turbine	-	Model test	ČKD Blansko Engineering	Czech Republic
5-K-480	Kaplan turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
Borgforsen	Kaplan turbine	1	Model and Acceptance test	Litostroj Power	Sweden
Pesqeshit	Francis turbine		Model and Acceptance test	ČKD Blansko Holding	Albania
F430 - 13	Francis turbine		Model test	Litostroj Power / ČKD Blansko Engineering	-
F430 - 11	Francis turbine		Model test	Litostroj Power / ČKD Blansko Engineering	-
Klosterfoss	Bulb turbine	1	Model and Acceptance test	Litostroj Power	Norway
Singrauli	Kaplan S-turbine	2	Model and Acceptance test	Jyoti	India
3KP10E-C	Bulb/Pit turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
4KP10E	Bulb/Pit turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
Pelton 2 nozzles	Pelton turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
5-K-490	Kaplan turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
F325	Francis turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
F240LB	Francis turbine	-	Model and Acceptance test	Litostroj Power / ČKD Blansko Engineering	-
Brežice	Kaplan turbine	3	Model and Acceptance test	Litostroj Power	Slovenia
F120	Francis turbine	-	Model and Acceptance test	Hydrogen	Slovakia
Lajes	Pelton turbine	1	Model and Acceptance test	HISA	Brazil
Saurashtra	Kaplan S-turbine	1	Model and Acceptance test	Jyoti	India
3KP10E-F	Bulb/Pit turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
6-K-410	Kaplan turbine	-	Model test	Litostroj Power / ČKD Blansko Engineering	-
Tainionkoski	Kaplan turbine	2	Model and Acceptance test	Litostroj Power	Finland
Lipno	Francis turbine	2	Model and Acceptance test	ČEZ	Czech Republic
Granfors	Kaplan turbine	1	Model and Acceptance test	Litostroj Power	Sweden

Project	Turbine type	Units	Model test type	Client	Country
P25.07	Pelton turbine	-	Model tests	ČKD Blansko Engineering	-
4-K-575	Kaplan turbine	-	Model tests	ČKD Blansko Engineering	-
Stejaru T2	Francis turbine	2	Model and Acceptance test	Litostroj Power / Hidroelectrica	Romania

Deriaz turbines

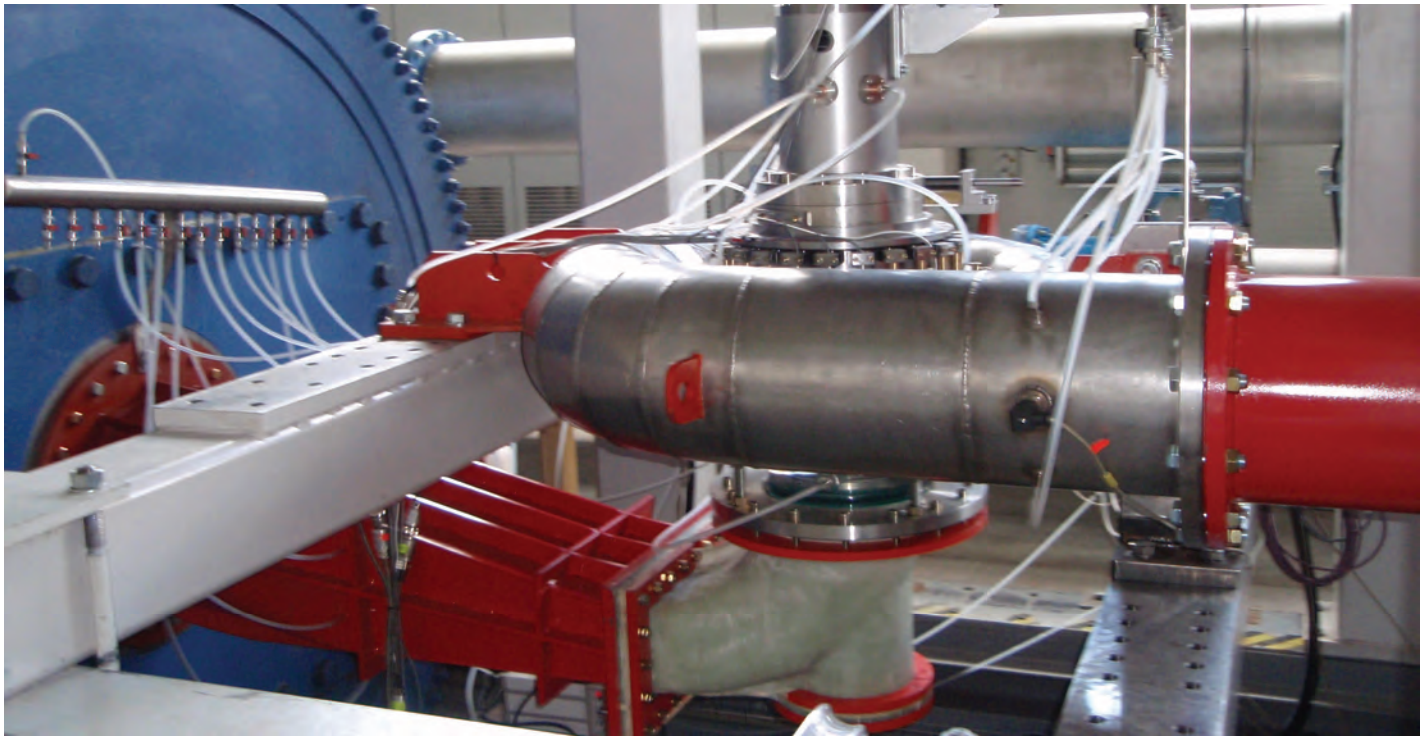
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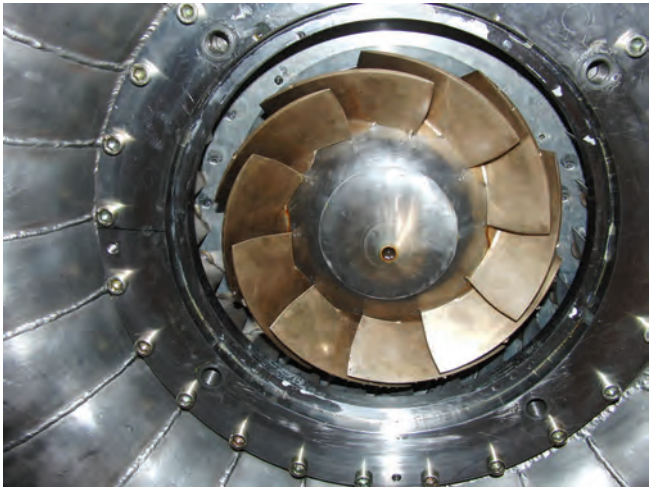
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Parameter of test prototype



Type of turbine	Deriaz—vertical
Runner diameter	3900 mm
Delivery head H	77 m
Unit output	52.5 MW
Year	2011
Country	India



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Francis turbines

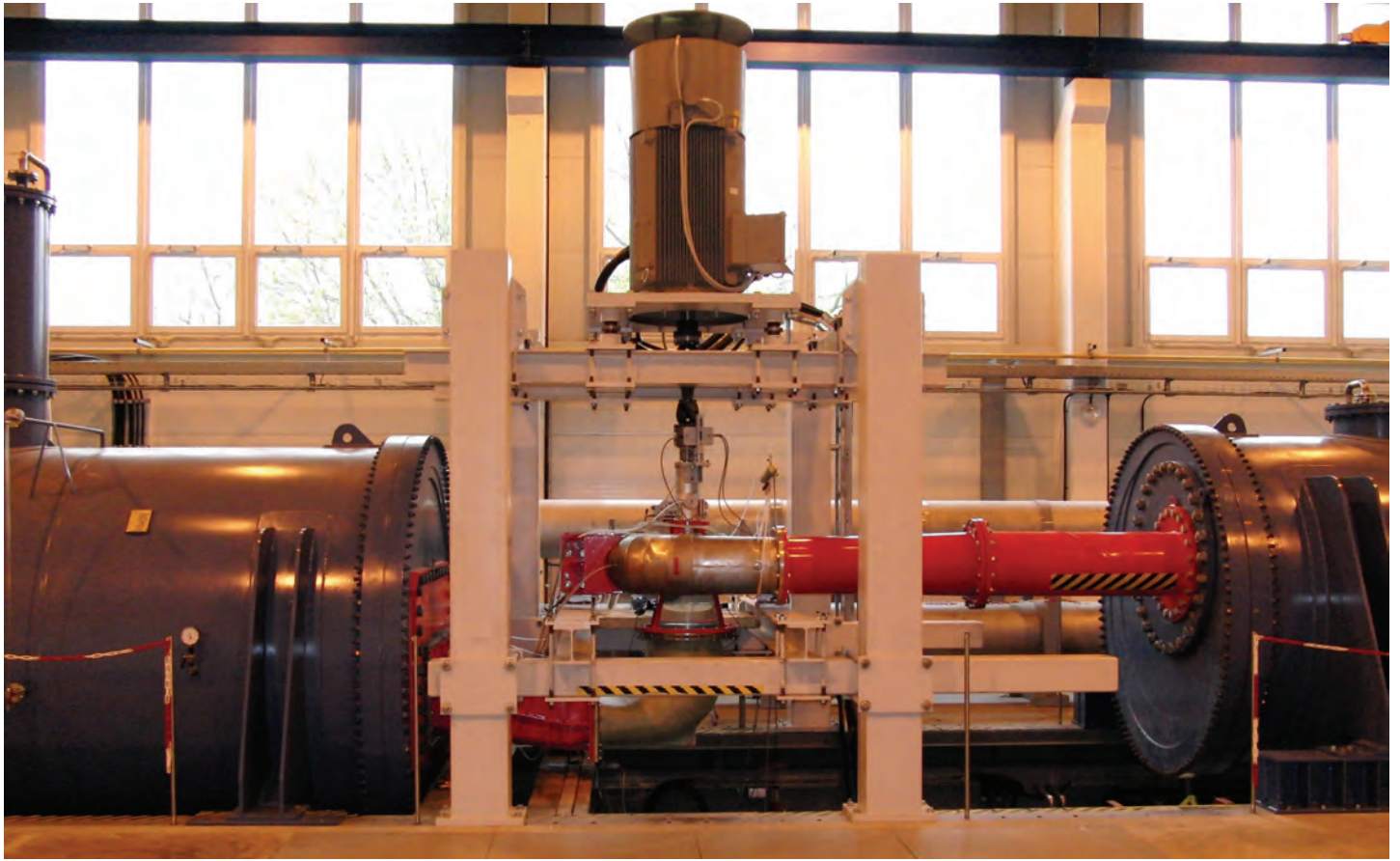
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HPP Doblar

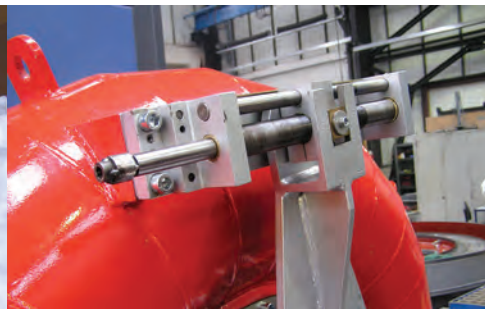
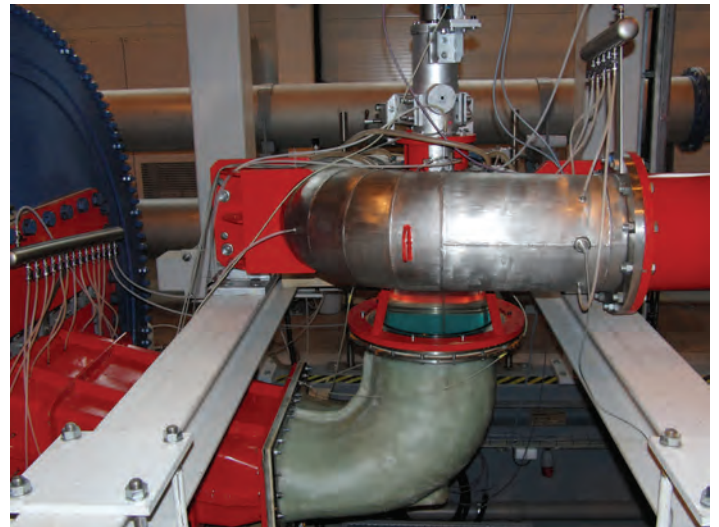
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Parameter of test prototype

Type of turbine	Francis—vertical
Runner diameter	2130 mm
Delivery head H	47 m
Unit output	13.7 MW
Year	2010
Country	Slovenia



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Kaplan turbines

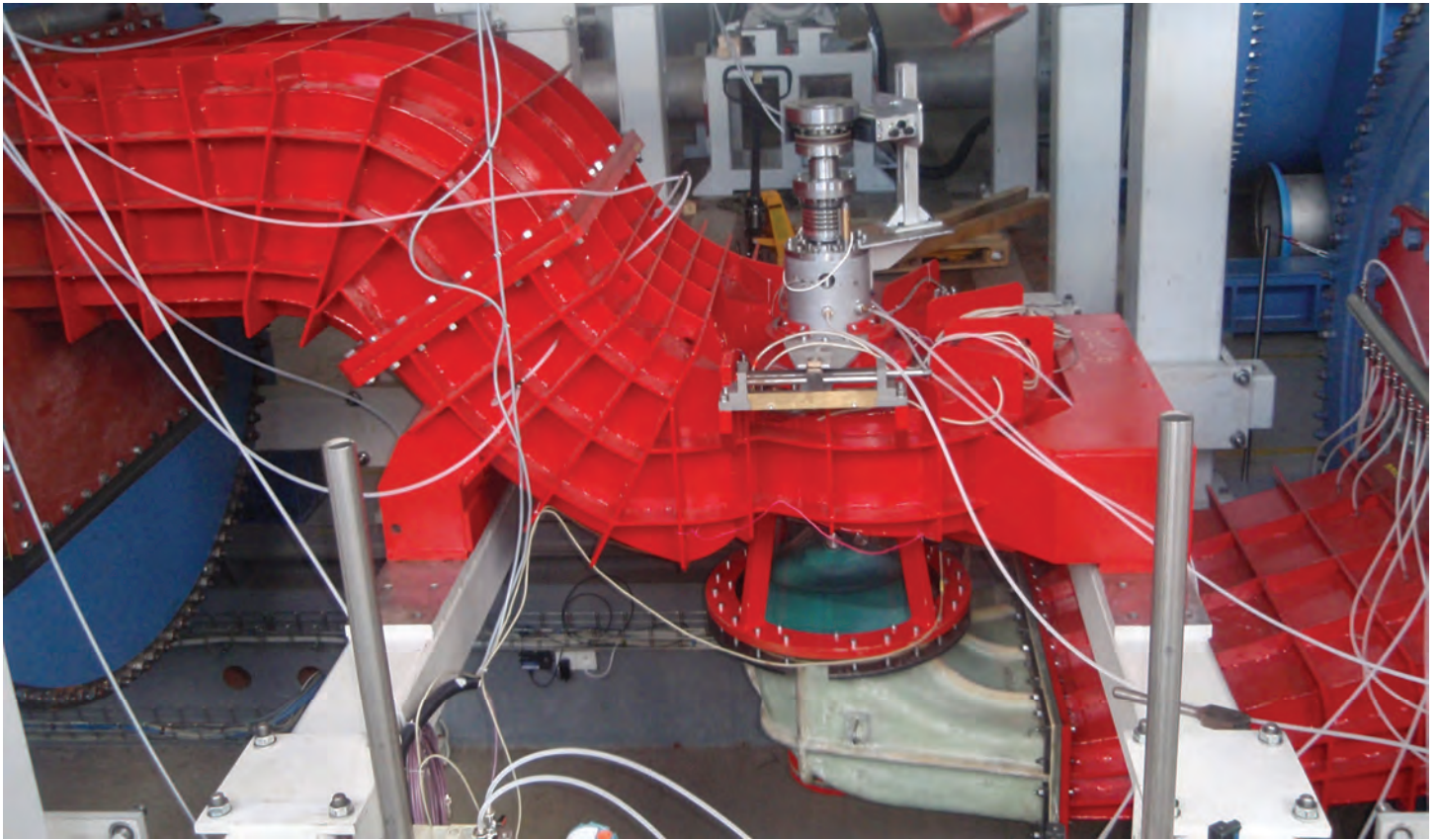
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HPP Moforsen

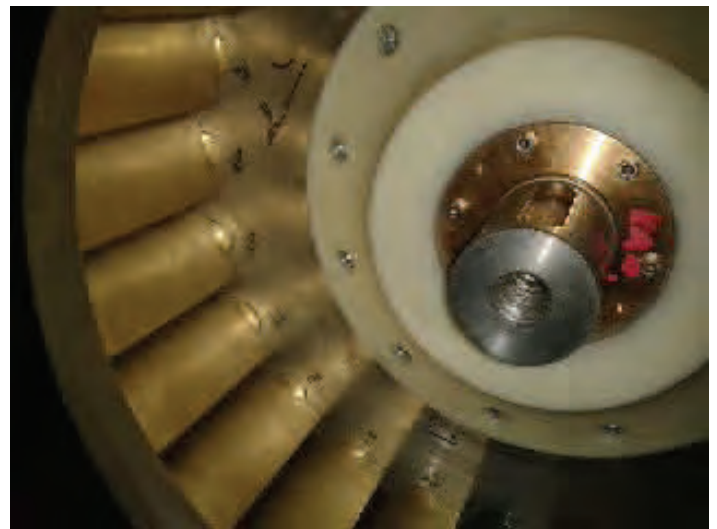
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Parameter of test prototype

Type of turbine	Kaplan—vertical
Runner diameter	5200 mm
Delivery head H	28 m
Unit output	57 MW
Year	2012
Country	Sweden



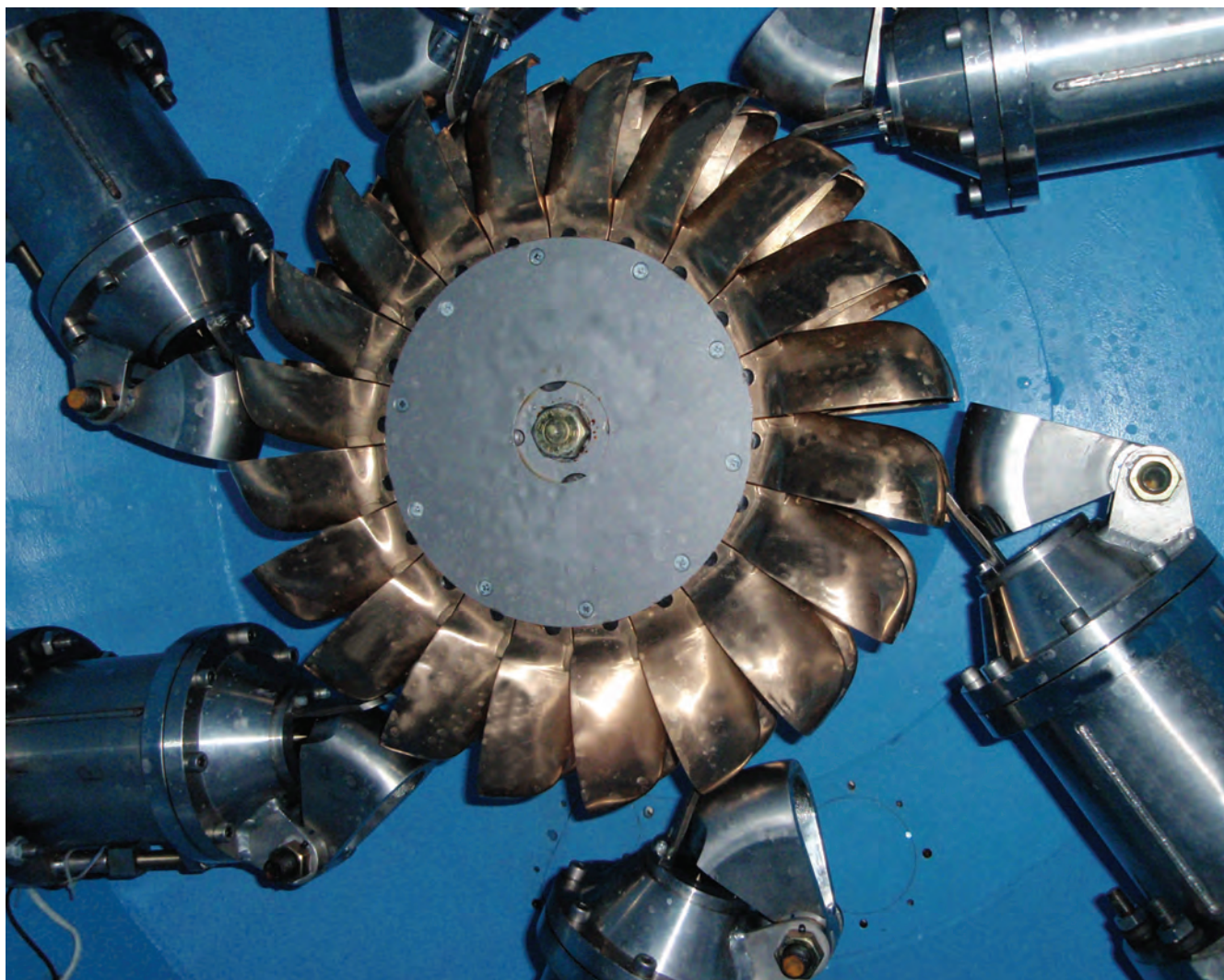
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Pelton turbines

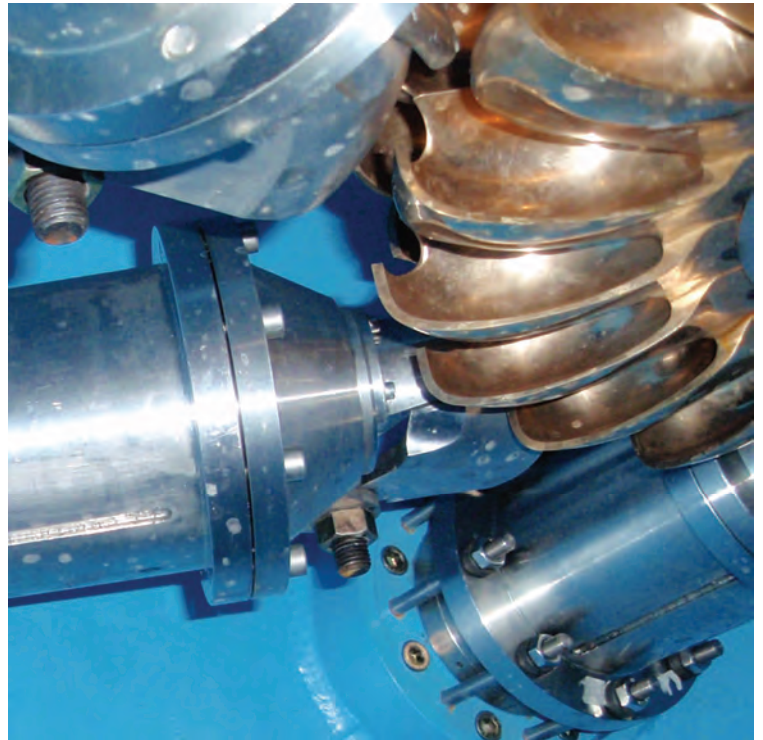
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HPP Ngoi Hut

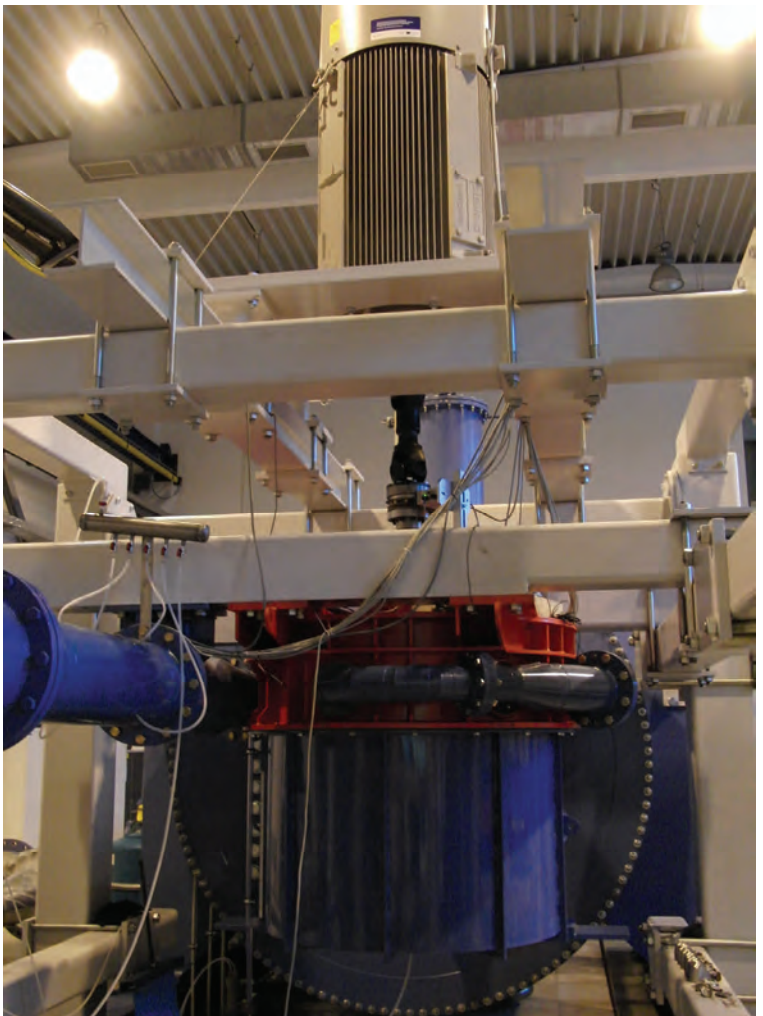
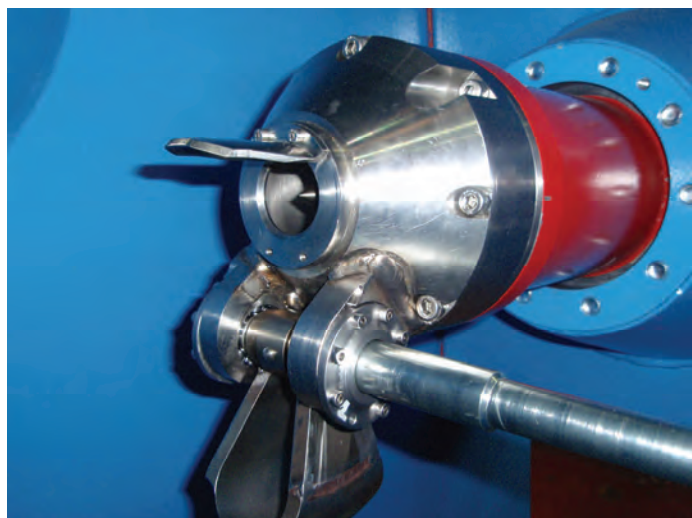
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Parameter of test prototype

Type of turbine	Pelton—vertical
Runner diameter D	1720 mm
Delivery head H	356 m
Unit output	27.2 MW
Year	2011
Country	Vietnam



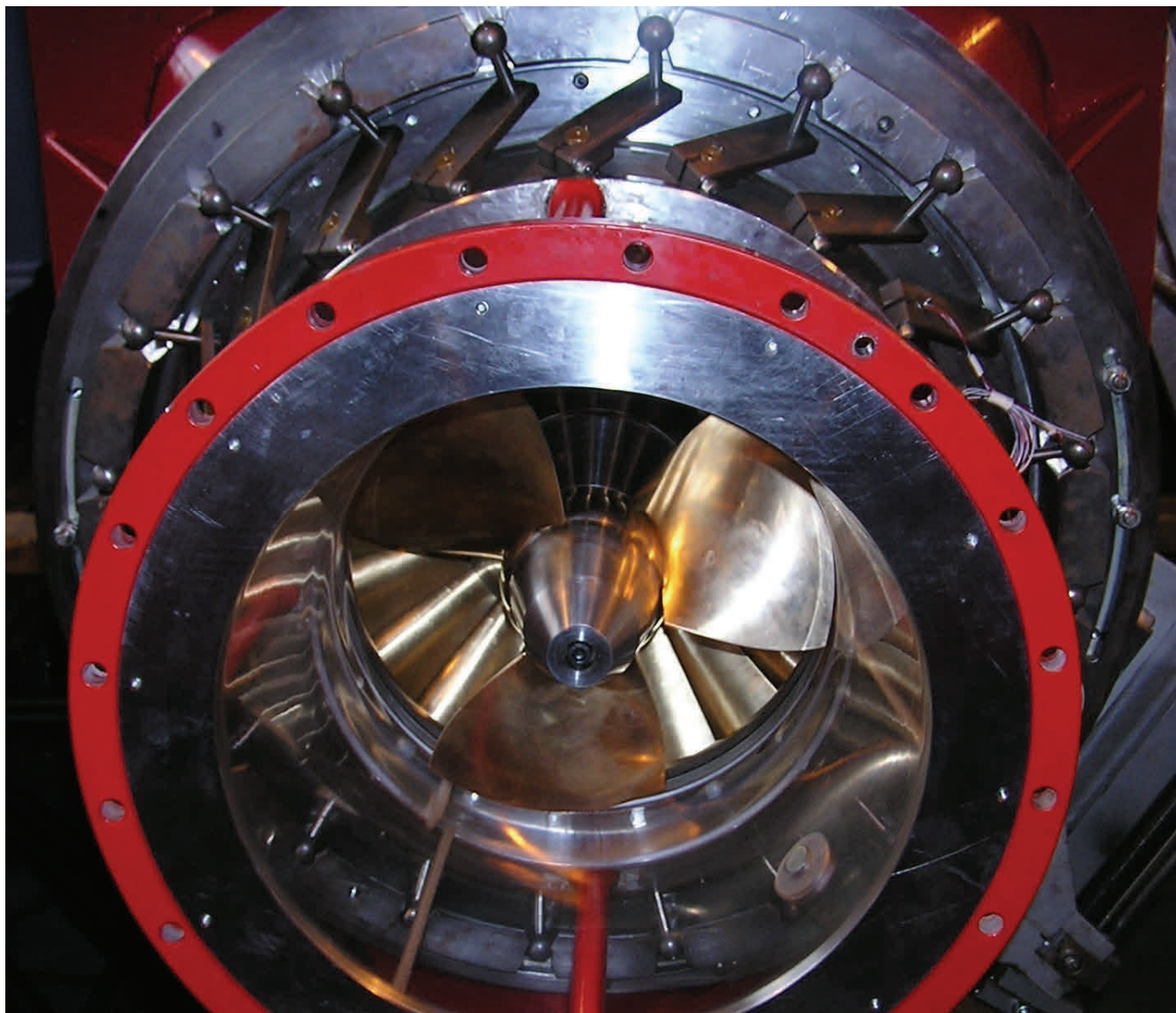
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Bulb turbines

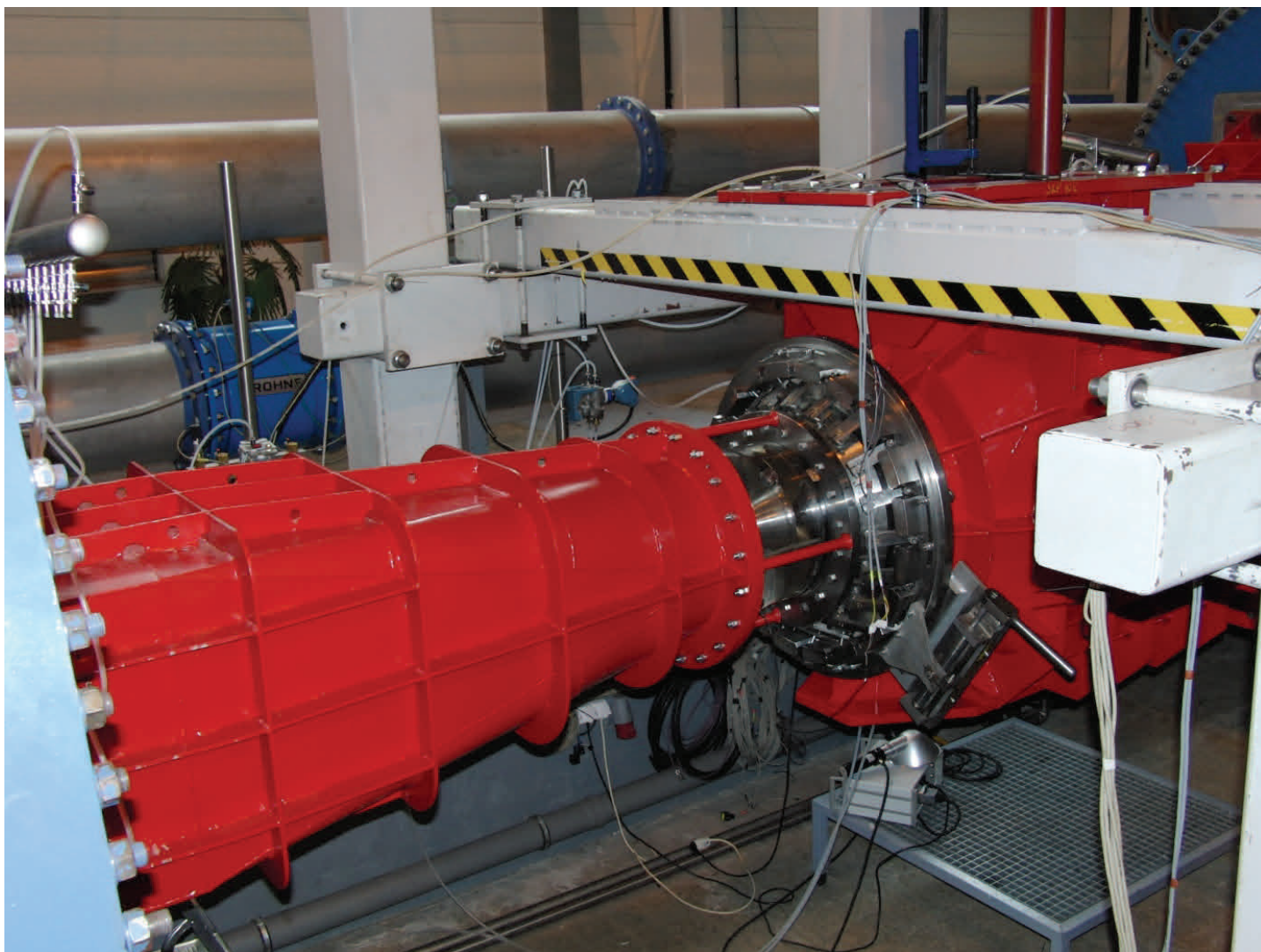
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HPP Klosterfoss

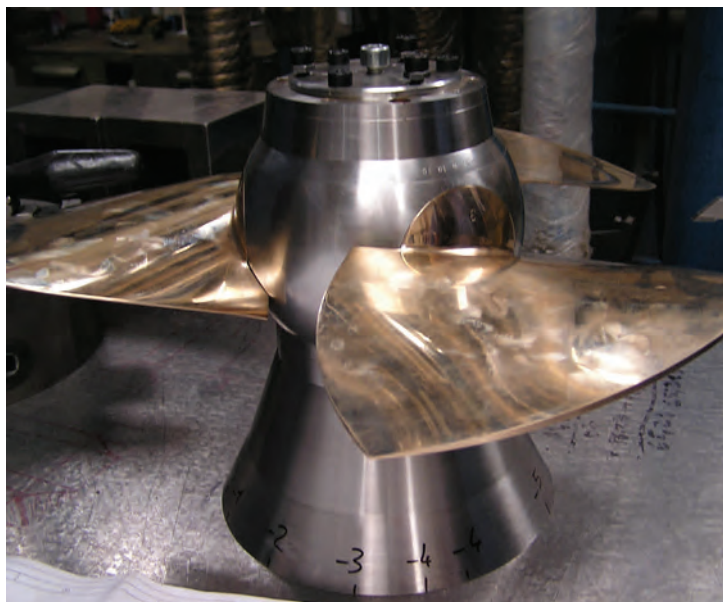
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Parameter of test prototype

Type of turbine	Kaplan— Bulb — vertical
Runner diameter D	4500 mm
Delivery head H	5.7 m
Unit output	8.3 MW
Year	2013
Country	Norway



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Francis pump turbines

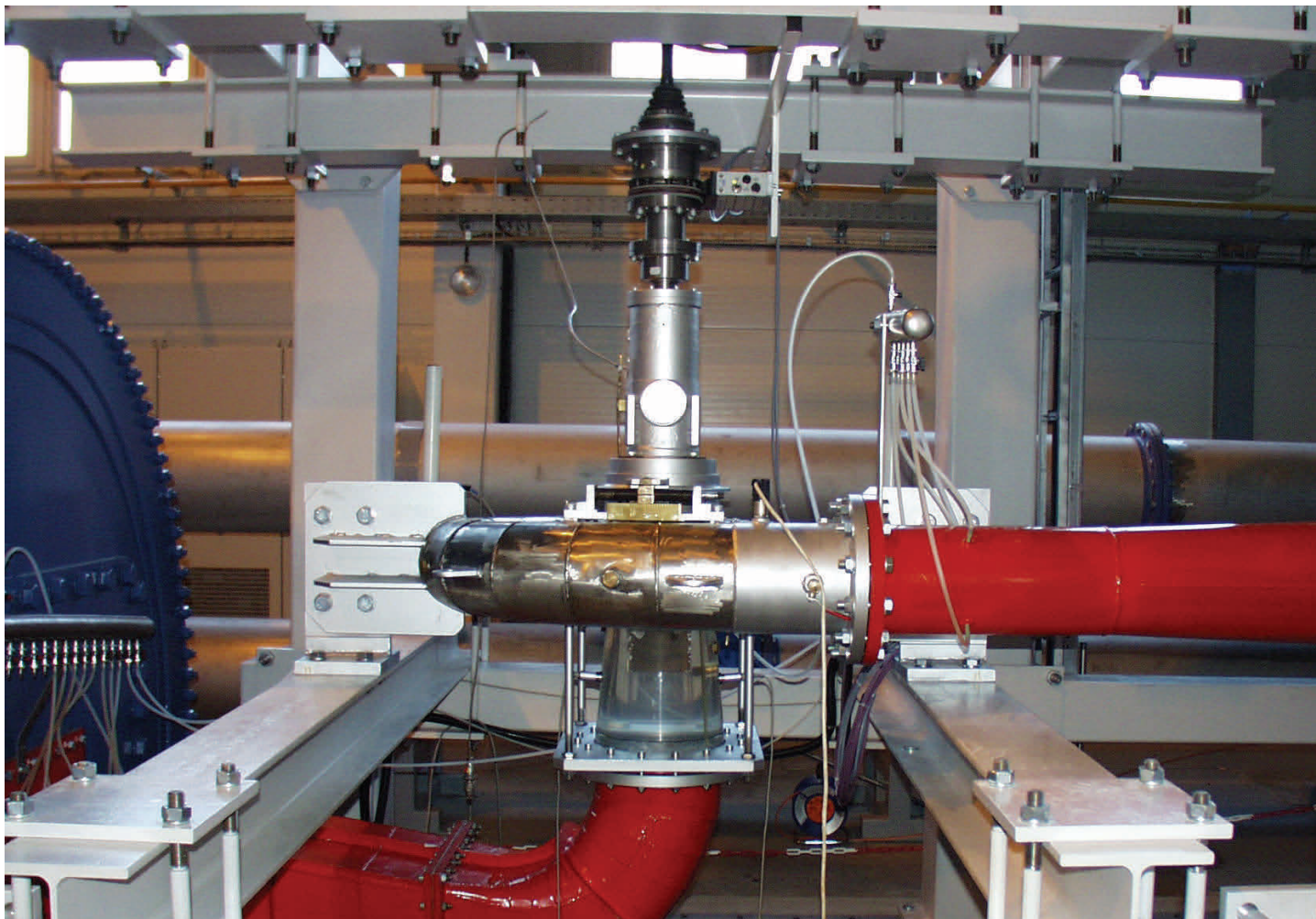
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HPP Dlouhé Stráně

Reference project

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Parameter of test prototype

Type of turbine	Francis pump—vertical
Runner diameter	4540 mm
Delivery head H	554 / 533 m
Unit output	319 / 328 MW
Year	2011
Country	Czech Republic



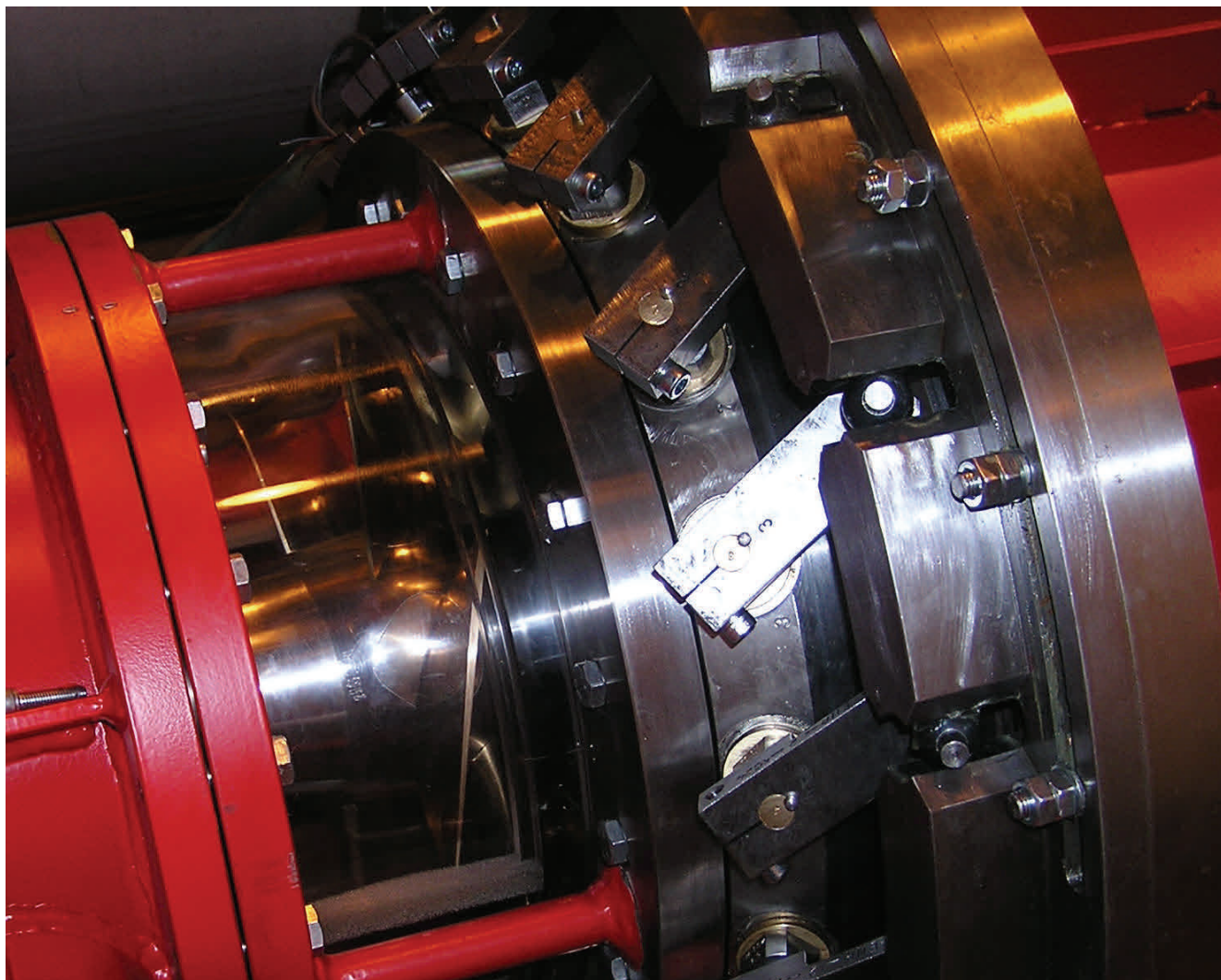
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Kaplan S—turbines

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HPP Singrauli

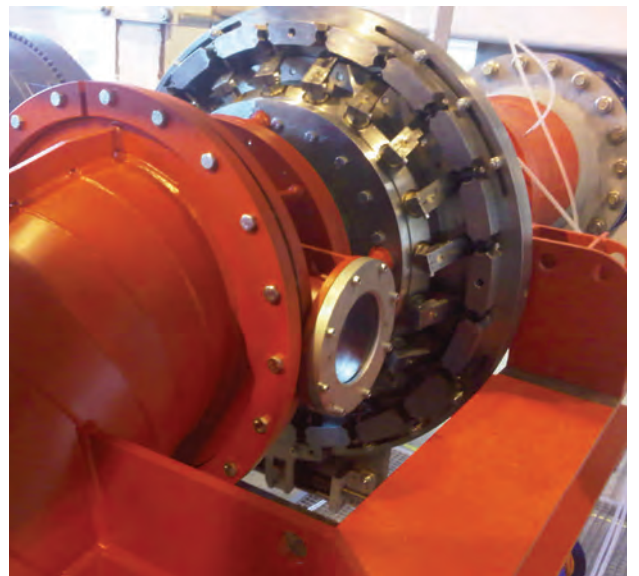
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Parameter of test prototype

Type of turbine	Kaplan S-turbine — horizontal
Runner diameter D	2900 mm
Delivery head H	16 m
Unit output	4.7 MW
Year	2013
Country	India



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