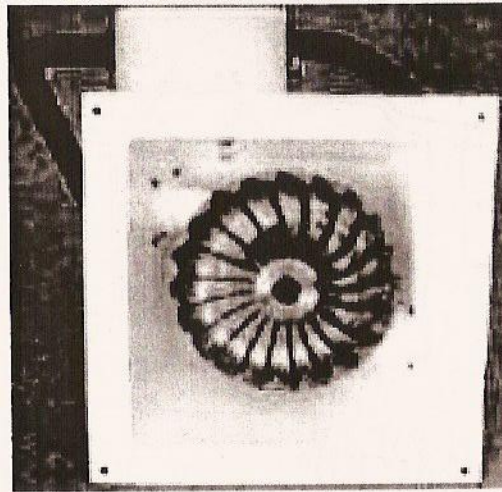


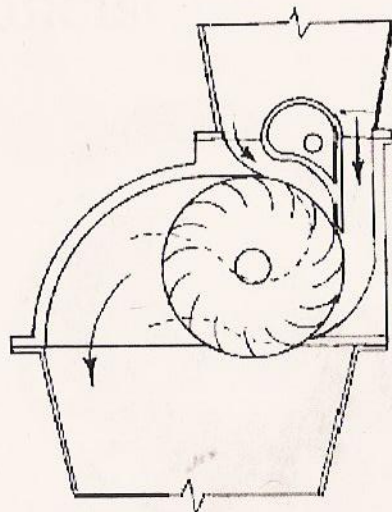
Turbines

high
medium
or
low?



Pelton: 12 head, 13, flow

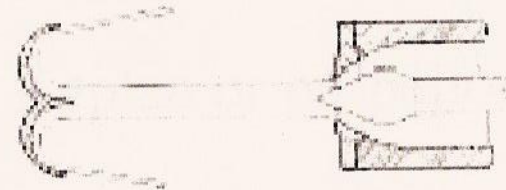
Crossflow: 16
head, 17 flow



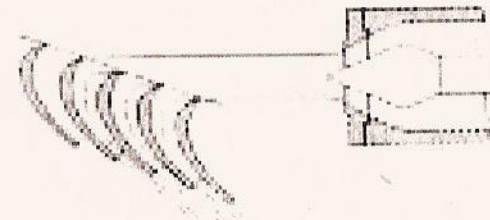
Above: Crossflow turbine.



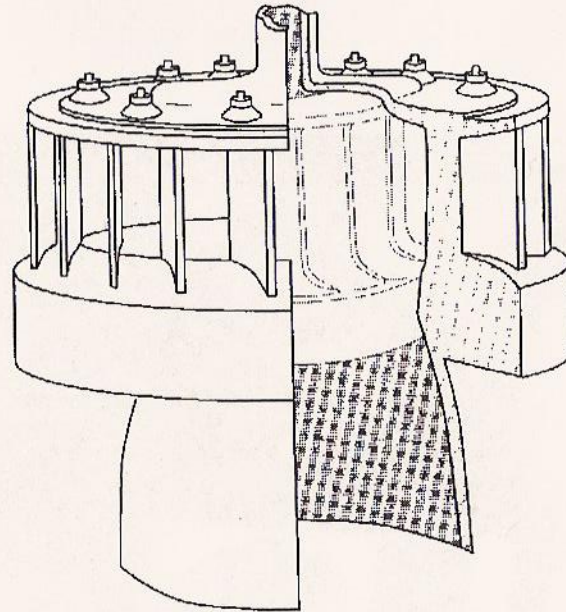
Turgo 14 head 15



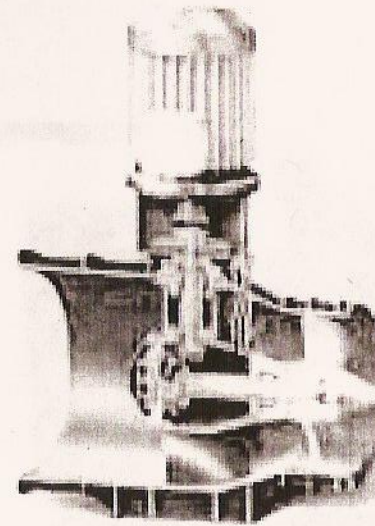
Above: Pelton runner.



Above: Turgo runner.

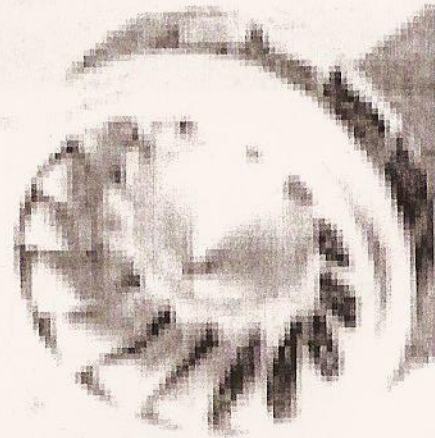


Francis

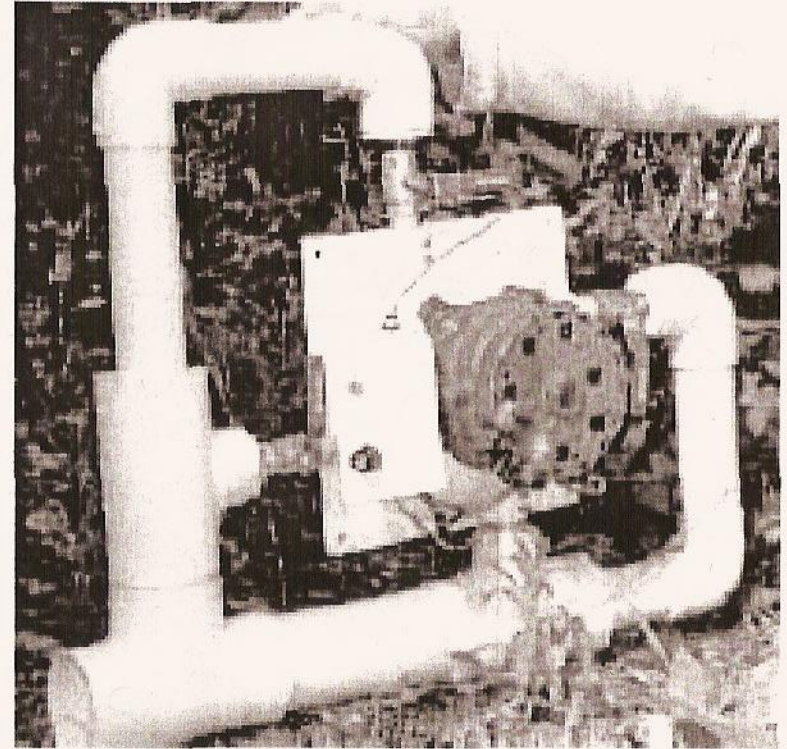
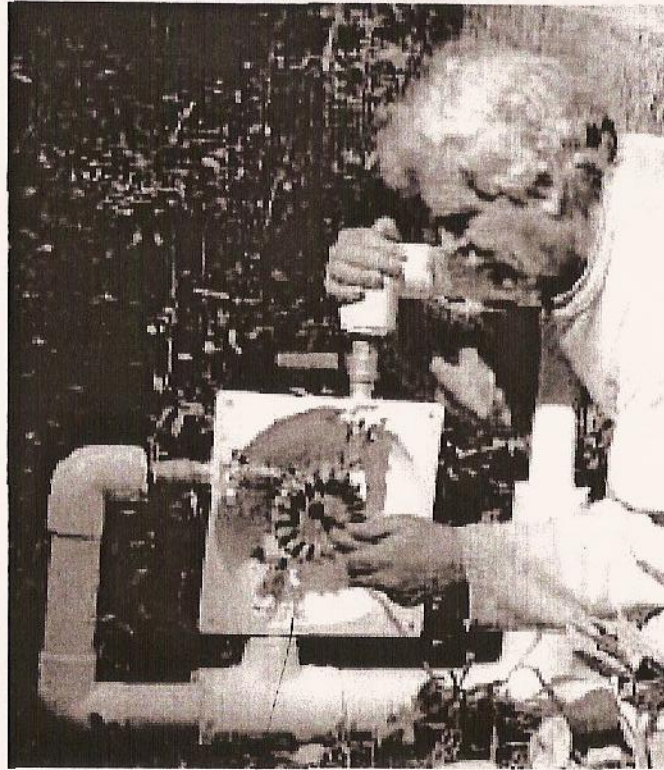


Above: Propellor turbine.

Kaplan or propellor



Harris DC Hydro systems



4

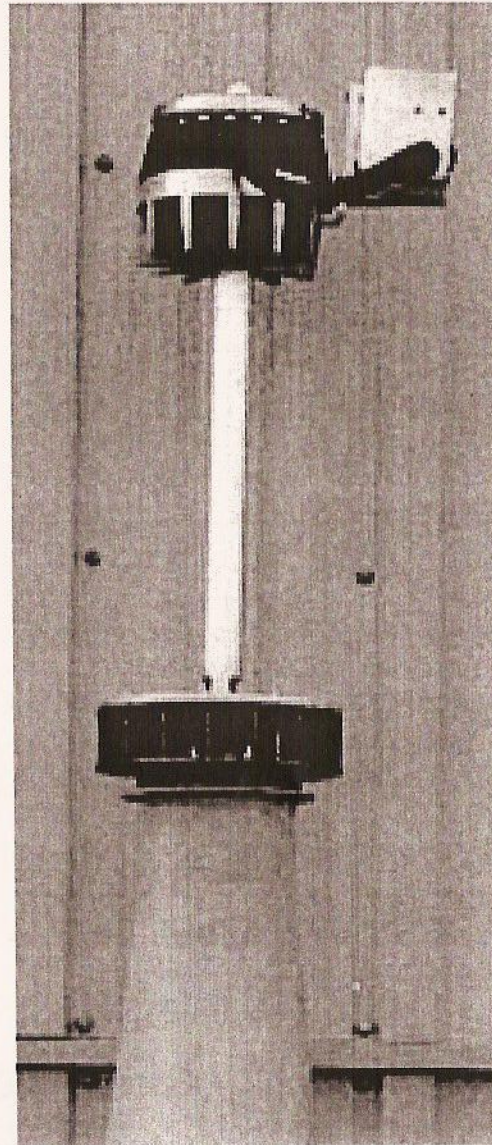
19 wheel?



Net Head* (feet) x Flow (US gpm) / 10
= Output (Watts)

Dominica
140ft x 80gpm = ²⁰ / ²¹ = W = ²² KW

LH 23 Head -1000 reaction machine-\$1895



POWER OUTPUT IN WATTS (CONTINUOUS)

Net Head, Feet	Flow Rate in U.S. Gallons per Minute											
	5	10	15	20	30	40	50	75	100	150	200	300
5				5	8	10	15	20	30	40		
10			7	12	18	23	30	45	60	80	100	
15	5	10	15	20	30	40	50	75	100	125	150	200
20	8	16	25	32	50	65	85	125	170	210	275	350
30	12	30	45	60	90	120	150	225	300	400	500	700
40	16	40	60	80	120	160	200	300	400	500	600	
50	20	50	75	100	150	200	250	375	500	600		
75	30	75	110	150	225	300	375	560	700			
100	40	100	150	200	300	400	500	650				
150	60	150	225	300	400	550	650					
200	80	200	300	400	550	700						
300	120	240	360	480	720							
400	160	320	480	640								

Power at
100 ft net head
50 GPM?
24

Power @ 900 GPM and 6.5 ft head? 25

