

Improved
Dominion
WATER
* WHEEL *

WM. & J. G. GREY

NO 2 CHURCH ST

* * * TORONTO.

Catalogue
and Tables
of 

Power, Speed and
Water used
by

THE IMPROVED

DOMINION
WATER
WHEEL

INVENTED BY A. D. COLE,
757 GERRARD STREET,
TORONTO, Ont.

MANUFACTURED EXCLUSIVELY BY

WM. & J. G. GREY
2 CHURCH STREET,
TORONTO, Ont.

Special features of excellence in Dominion Water Wheel

Economy in the use of water.

Great Power for water used.

Large Power for the diameter.

Equal Efficiency at any gate-opening.

Steadiness and Strength of Motion under all
heads.

Sensitiveness to Change in gate-opening.

Ease for Regulation by Governor.

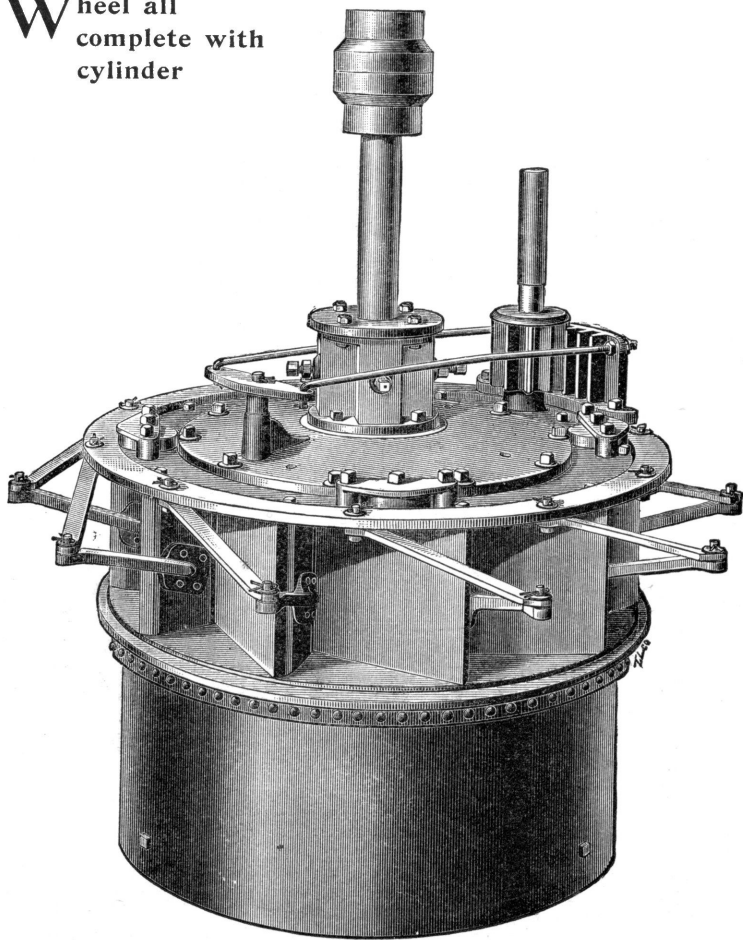
Strength and Durability of Construction.

Freedom from Trouble with Step.

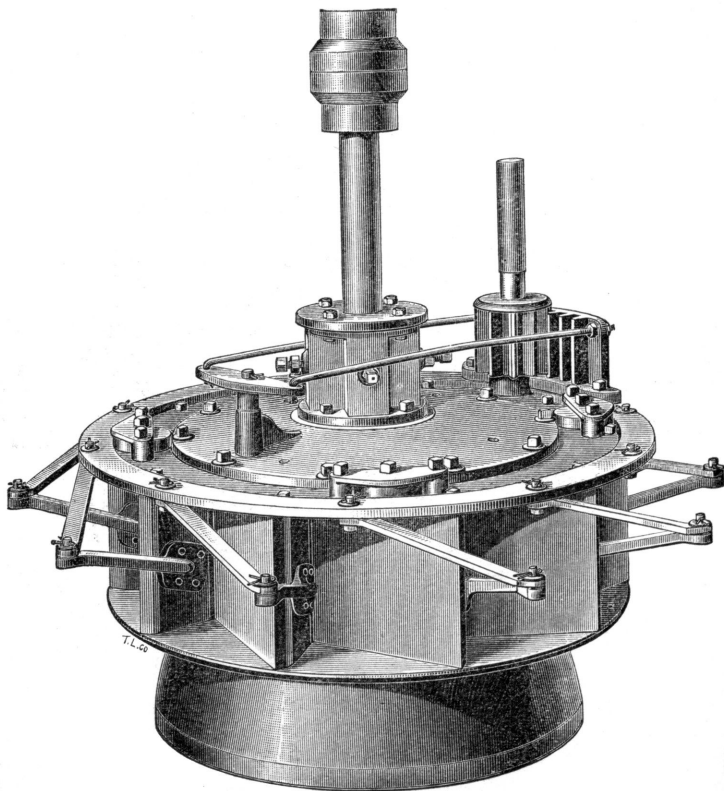
Not clogged by Ice.

Accessibility to all its Parts.

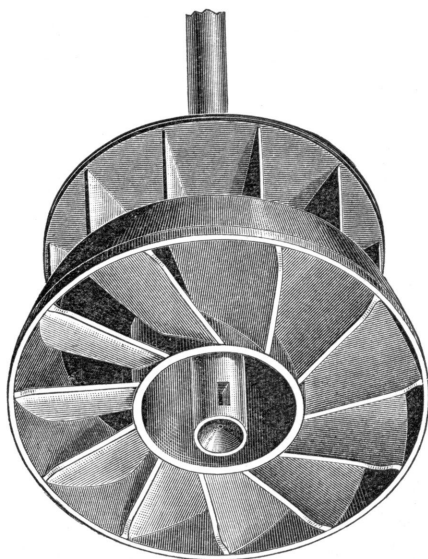
Wheel all
complete with
cylinder



Wheel, showing chute case, top, gates, pinion and rack, &c.



Wheel removed
from case



The **D**ominion Water **Wheel**

The wheel, the wheel case and chutes, and working parts, are the matured results of upwards of fifty years devoted to the development of this wheel by study and practical experience in the manufacture and operation of water wheels.

The best methods of delivering water on the wheel, procuring the greatest percentage of power possible from the water used at different openings of the gates, and in the discharge of same, have been discovered and adopted ; defects in former constructions have been remedied ; weak points made strong.

This wheel contains many valuable features possessed by no others, ensuring a very regular speed and steady power.

Case and **C**hutes

The case and chutes are strong and durable. The chute is the best conductor to deliver the water in the proper direction on the buckets at any proportionate opening of gate that has ever been devised. The number of chutes varies to suit the size of the wheel. The chutes are all cast solid in one piece, so that it is impossible for them to lose their setting or get out of order, and are most substantial and durable.

The Gates

The gates are hung in a socket cast in the chutes, and are so constructed that the pressure of the water holds the gate firmly in position, preventing any vibration of the gates while the wheel is in motion, and consequently, any wear of the gate is absolutely impossible; also, the construction causes the gate to act very sensitively and quickly in connection with a governor, as there is no slack to be taken up, therefore the gate answers immediately to the least turn of the gate rod, and is, therefore, of special value to users of electric power, who must have a wheel that will easily and immediately respond to the variation of power.

The gates are made of steel, and are operated by wrought iron levers, are closely fitted and very tight, so that no leakage of water occurs. Sticks or rubbish do not prevent the closing of the gates; if small, they are cut off and pass through the wheel, if large, are forced back by the gate and cannot prevent them closing. Owing to the gates being operated by levers, great power is thus obtained over the gates, which are most easily manipulated, no matter how great the pressure of water, nor how large the wheel.

The gates are operated by means of a solid wrought iron ring, to which the levers are attached. This wrought iron ring is kept in place by iron rollers, insuring its being kept in position, and enabling the ring to move easily, it being impossible to bind the levers; being fastened to and operated by a solid iron ring, all of them must open and close simultaneously and to the same extent. A

geared segment is fastened securely to the ring and held firmly in its place, which is operated by means of a pinion on gate rod. The gate rod, in turn, is operated by a worm and wheel, giving absolute certainty of motion, with complete, quick and easy control of the gates, and they must remain at the point to which they are adjusted.

In opening the gate the water is delivered on the outside of the wheel, thus obtaining full leverage at part gate, and best results from the amount of water used.

The Levers

The levers are fastened to the gates at the centre, and not at the top as on other water wheels. This construction avoids all tendency to twist, and insures their uniform opening and closing.

Top Cover and Stuffing Box

A cast-iron cover is bolted on the top of the chutes, to which is attached an improved adjustable stuffing box. Strong and substantial brass cap screws, which cannot corrode, are used for adjusting the box.

Pinion

The lower end of pinion, or gate rod, rests on a step, cast solid on the top of the chutes, forming a bearing immediately below the pinion, which is always in gear and cannot spring out of place.

The pinion, short piece of shaft for same, also worm, worm gear, short piece of shaft for same, and hand wheel, are all fitted into cast-iron frame and furnished with each wheel without extra charge.

The Cylinder

The cylinder, or draft tube, is made of cast-iron for small size wheels, and of steel boiler plate for large wheels. The bottom of the chutes are turned and faced off, and the flange of cylinder is also faced off, and rests on the cant on the floor of the flume. The cant being level, the wheel chutes and cylinder must all be perfectly plumb.

Strong lugs are cast, or fastened on the inside of the cylinder for supporting the arms of the spider, which rests securely on these lugs, and is also strongly bolted in place to the cylinder.

Lignum Vitæ Step

The Lignum Vitæ step is held in an iron case, which is adjustable, both for centering by means of bolts, and also for raising up to compensate for wear, and also allows the wheel to be adjusted vertically.

This Lignum Vitæ step cannot fire up when in operation, as the iron toe that runs on the step is chambered so that the water constantly passing through keeps it perfectly cool.

The Wheel

The water wheel itself consists of one solid piece, the buckets of which are formed of steel, which is much stronger, more durable and lighter than cast-iron, and will, therefore, give better results from the water used. Other wheels using steel buckets have been troubled with the buckets working loose, but the construction of the Dominion Wheel is such that this cannot occur; owing to the manner in which the steel buckets are embodied in the cast metal the whole becomes as solid as being cast in one piece.

The wheel is bored and fitted on to its shaft, which is turned steel; the wheel is then turned perfectly true on its own shaft, and is carefully balanced, so that it must run perfectly true in its case, and with the least amount of friction in back water.

Dominion Water Wheel

On Horizontal Shafts

Experience has demonstrated that water wheels running on horizontal shafts afford important advantages in some locations and conditions over wheels running on vertical shafts, thereby dispensing with steps, upright shafts and driving gears.

An important feature which should be considered is the fact that the loss of power by transmission through gears, which is considerable, is wholly saved.

The construction of the Dominion, with its easy working gates and the form of the buckets in the runner, particularly adapts it for running on horizontal shaft.

Water wheels can be placed either singly or in pairs, but the use of a pair of wheels of the same size on a horizontal shaft is more desirable, where circumstances permit, as the pressure of the head is thereby equalized.

The placing of wheels in this manner is much preferable in certain locations, as the form and arrangement of the flume, supply pipe and draft tube are made to conform with the location, thereby saving large expenditures.

Water wheels on horizontal shafts are very desirable for driving any kind of machinery which can be driven by coupling direct to the water wheel shaft, as is done with wood pulp grinders or other machinery, or by transmitting the power direct by belts from the water wheel shaft for driving electric dynamos.

Water wheels placed horizontally are above the water line, and accessible without going into the water, which, however, is also the case with vertical wheels placed in flumes having draft tubes extending into the tail water.

We are always prepared to furnish any additional information in regard to the placing of wheels to conform to any particular location, and would request those applying for information to state the fall and amount of water available, the kind and amount of machinery to be driven, and the power required, and to send us a sketch of the location.

Testimonials

Many testimonials as to the satisfactory results obtained from the Improved Dominion Water Wheels might be published, but we trust the following will be sufficient; others will be given if required.

GANANOQUE, Ont., April 30th, 1896.

MESSRS. W. & J. G. GREEY, Toronto, Ont.

GENTLEMEN,—We are in receipt of yours of the 28th inst., and in reply have to say that the 52-inch Cole's New Dominion Water Wheel, purchased from you four years ago to run our 50-barrel roller mill, is giving us satisfaction, working under 6 to 7 feet head. The power we derive from the Dominion is far greater than ———, which we had taken out.

Yours truly,

MCCLELLAN, REID & SHANEMAN.

ST. CATHARINES, Ont., April 30th, 1896.

MESSRS. W. & J. G. GREEY, Toronto, Ont.

GENTLEMEN,—We are in receipt of your letter of the 28th inst., and in reply beg to say that we have used Cole's Dominion Water Wheels in our various establishments for a number of years past, and have found them very satisfactory wheels—so much so that whenever we require a new one we get it from him. We find them strong and steady and easily looked after, and in every respect satisfactory.

Yours truly,

WELLAND VALE MFG. CO.,

WM. CHAPLIN, Manager.

6-INCH WHEEL**PRICE, \$125****VENTS 15 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 6-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 6-inch Wheel
5	564	112	0.84	24	1126	245	8.99
6	618	122	1.09	25	1149	250	9.46
7	650	132	1.39	26	1172	255	10.00
8	680	141	1.69	27	1216	260	10.60
9	710	150	2.04	28	1238	265	11.20
10	726	158	2.38	29	1258	269	11.80
11	762	166	2.76	30	1279	274	12.40
12	796	173	3.13	31	1305	279	13.00
13	828	180	3.51	32	1320	283	13.70
14	860	187	3.96	33	1350	288	14.30
15	891	194	4.39	34	1359	292	15.00
16	918	200	4.84	35	1374	296	15.60
17	947	206	5.29	36	1397	300	16.30
18	975	212	5.77	37	1417	304	17.00
19	1002	218	6.27	38	1435	309	17.70
20	1028	224	6.75	39	1453	313	18.40
21	1053	229	7.27	40	1471	316	19.10
22	1078	235	7.80	41	1488	320	19.80
23	1102	240	8.34	42	1490	324	20.60

9-INCH WHEEL**PRICE, \$175****VENTS 35 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 9-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 9-inch Wheel
5	349	261	1.96	24	768	572	20.07
6	376	286	2.55	25	774	584	22.00
7	406	309	3.24	26	797	596	23.40
8	434	330	3.95	27	812	607	24.70
9	461	350	4.76	28	827	618	26.10
10	486	369	5.56	29	841	628	27.50
11	570	387	6.44	30	855	640	28.90
12	522	404	7.31	31	869	651	30.30
13	554	421	8.26	32	882	661	32.00
14	595	437	9.24	33	895	672	33.50
15	615	452	10.20	34	909	682	35.00
16	633	467	11.50	35	921	691	36.60
17	651	482	12.30	36	934	701	38.10
18	669	496	13.40	37	947	711	39.70
19	687	509	14.60	38	959	721	40.40
20	696	523	15.70	39	971	730	43.00
21	720	535	16.90	40	984	739	44.70
22	736	548	18.20	41	995	748	46.30
23	752	560	19.40	42	1007	757	48.00

12-INCH WHEEL**PRICE, \$200****VENTS 50 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 12-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 12-inch Wheel
5	256	373	2.80	24	562	818	29.60
6	279	402	3.60	25	574	835	31.50
7	308	442	4.60	26	585	852	33.60
8	322	472	5.60	27	597	868	35.40
9	338	501	6.80	28	608	884	37.40
10	365	528	7.90	29	618	899	39.40
11	381	554	9.20	30	629	915	41.40
12	398	578	10.40	31	640	930	43.60
13	414	602	11.40	32	650	945	45.70
14	429	625	13.20	33	660	960	47.90
15	445	647	14.60	34	669	974	50.10
16	459	668	16.10	35	679	988	52.30
17	473	689	17.60	36	689	1002	54.50
18	487	709	19.20	37	700	1016	56.70
19	500	728	20.90	38	708	1030	59.20
20	513	747	22.50	39	717	1043	61.50
21	526	765	24.02	40	727	1056	65.90
22	538	783	26.00	41	736	1069	66.20
23	550	801	27.80	42	744	1082	71.20

15-INCH WHEEL

PRICE, \$215

VENTS 85 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 15-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 15-inch Wheel
5	205	634	4.70	21	450	1396	50.40
6	225	695	6.20	25	459	1420	53.60
7	243	751	7.90	26	468	1448	56.80
8	259	803	9.60	27	477	1475	60.10
9	275	851	11.50	28	486	1502	63.50
10	290	881	13.40	29	495	1529	66.90
11	304	941	15.60	30	503	1555	70.70
12	318	994	17.70	31	512	1581	74.00
13	331	1024	20.00	32	519	1606	77.60
14	343	1062	22.40	33	527	1632	81.10
15	356	1099	24.90	34	533	1656	85.10
16	367	1136	27.40	35	543	1680	88.90
17	378	1178	30.00	36	551	1704	92.70
18	389	1205	32.70	37	560	1728	96
19	400	1238	35.50	38	567	1751	100
20	410	1270	38.20	39	573	1773	104
21	421	1301	41.20	40	582	1796	108
22	431	1331	44.22	41	592	1817	112
23	440	1361	47.20	42	597	1839	116

18-INCH WHEEL**PRICE, \$230**

VENTS 120 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 18-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 18-inch Wheel
5	171	896	6.70	24	375	1964	71.10
6	187	981	8.70	25	383	2005	75.70
7	207	1060	11.10	26	390	2044	80.20
8	216	1134	13.50	27	398	2033	84.90
9	229	1202	16.30	28	405	2121	89.70
10	242	1244	19.90	29	412	2158	94.50
11	253	1329	22.00	30	419	2196	99.30
12	265	1388	24.90	31	426	2232	104
13	276	1446	28.30	32	433	2268	109
14	286	1500	34.60	33	440	2304	114
15	296	1552	35.10	34	446	2338	120
16	306	1604	38.70	35	453	2372	125
17	315	1653	42.36	36	459	2406	130
18	324	1701	46.20	37	466	2439	136
19	333	1748	50.10	38	472	2472	142
20	342	1794	54.00	39	480	2504	147
21	351	1837	58.20	40	486	2535	153
22	359	1880	62.40	41	492	2565	159
23	367	1922	66.70	42	498	2596	164

THE IMPROVED DOMINION WATER WHEEL.

21-INCH WHEEL

PRICE, \$250

VENTS 155 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 21-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 21-inch Wheel
5	146	1157	8.68	24	321	2537	92.4
6	160	1267	11.30	25	328	2590	98.8
7	173	1370	14.40	26	334	2641	103
8	185	1464	17.50	27	342	2690	109
9	195	1553	20.80	28	347	2740	115
10	207	1603	24.60	29	353	2788	122
11	217	1717	28.50	30	359	2836	128
12	227	1793	32.30	31	365	2883	135
13	236	1867	36.50	32	371	2929	141
14	245	1937	41.40	33	377	2976	148
15	254	2005	45.40	34	382	3025	155
16	265	2072	50.00	35	388	3064	162
17	270	2135	54.70	36	393	3107	169
18	278	2197	59.60	37	400	3151	176
19	286	2258	64.70	38	405	3193	183
20	292	2317	69.70	39	411	3234	190
21	300	2383	75.10	40	416	3277	198
22	309	2428	80.60	41	421	3313	205
23	314	2483	86.10	42	426	3354	212

24-INCH WHEEL**PRICE, \$275****VENTS 190 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 24-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 24-inch Wheel
5	128	1419	10.60	24	281	3110	112
6	140	1554	13.80	25	287	3174	119
7	150	1679	17.60	26	292	3237	127
8	162	1795	21.40	27	298	3298	134
9	172	1903	25.80	28	304	3359	142
10	181	1970	30.20	29	309	3418	149
11	190	2105	35.90	30	314	3487	157
12	198	2198	39.70	31	319	3534	165
13	207	2289	44.80	32	324	3591	173
14	214	2375	50.10	33	329	3648	182
15	222	2458	55.60	34	334	3703	190
16	229	2544	61.50	35	339	3756	198
17	235	2618	67.00	36	343	3809	207
18	243	2694	73.10	37	348	3862	216
19	250	2768	79.40	38	355	3914	224
20	256	2840	85.50	39	361	3965	233
21	263	2908	92.10	40	366	4014	242
22	269	2977	98.80	41	370	4052	251
23	275	3043	105	42	375	4111	261

27-INCH WHEEL**PRICE, \$300****VENTS 230 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 27-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 27-inch Wheel
5	114	1718	12.80	24	250	3765	136
6	125	1881	16.70	25	255	3843	145
7	135	2033	21.30	26	260	3919	153
8	144	2173	25.90	27	265	3992	162
9	153	2304	31.20	28	270	4066	172
10	161	2385	36.50	29	274	4137	180
11	169	2548	42.30	30	279	4209	190
12	176	2661	48.00	31	284	4347	200
13	184	2771	54.20	32	288	4416	210
14	190	2875	60.70	33	293	4482	220
15	197	2936	67.73	34	297	4547	230
16	204	3075	74.20	35	302	4611	240
17	210	3169	80.10	36	306	4675	250
18	216	3261	88.50	37	311	4738	260
19	222	3351	96.10	38	315	4800	272
20	228	3438	103	39	319	4859	283
21	233	3521	111	40	324	4917	293
22	239	3604	119	41	327	4977	304
23	244	3684	127	42	331	5037	316

30-INCH WHEEL**PRICE, \$350****VENTS 275 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 30-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 30-inch Wheel
5	102	2054	15.40	24	225	4501	162
6	112	2249	20.00	25	229	4595	173
7	121	2348	25.50	26	234	4686	182
8	129	2598	31.00	27	238	4774	194
9	137	2752	37.40	28	243	4862	205
10	145	2817	43.70	29	247	4947	216
11	152	3047	50.60	30	251	5032	227
12	159	3181	57.40	31	256	5115	239
13	165	3313	64.90	32	263	5197	251
14	171	3437	72.60	33	267	5280	265
15	177	3558	80.60	34	271	5359	275
16	183	3676	88.80	35	275	5436	284
17	189	3789	97.00	36	279	5513	300
18	194	3899	105	37	282	5590	312
19	200	4006	114	38	285	5665	325
20	205	4111	123	39	288	5739	338
21	210	4210	133	40	291	5810	352
22	215	4309	143	41	295	5879	364
23	220	4405	152	42	299	5951	377

36-INCH WHEEL**PRICE, \$400****VENTS 350 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 36-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 36-inch Wheel
5	85	2614	19.60	24	187	5729	207
6	93	2863	25.50	25	191	5848	220
7	101	3094	32.50	26	195	5964	234
8	108	3307	39.50	27	198	6076	247
9	114	3507	47.60	28	202	6188	261
10	120	3629	55.60	29	206	6296	275
11	127	3878	64.40	30	209	6405	289
12	132	4048	73.10	31	213	6510	305
13	138	4217	82.60	32	216	6615	319
14	143	4373	92.40	33	219	6720	335
15	148	4528	102	34	223	6825	350
16	153	4679	112	35	226	6919	366
17	157	4823	123	36	229	7017	381
18	162	4963	134	37	232	7115	397
19	166	5099	146	38	236	7210	414
20	171	5212	157	39	239	7304	430
21	175	5358	169	40	243	7395	449
22	179	5484	182	41	246	7483	463
23	183	5607	194	42	248	7574	480

42-INCH WHEEL**PRICE, \$500****VENTS 450 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 42-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 42-inch Wheel
5	72	3861	25.20	24	160	7366	266
6	81	3681	32.80	25	164	7591	283
7	86	3978	41.80	26	167	7668	301
8	92	4252	50.80	27	170	7812	318
9	98	4509	61.20	28	173	7956	336
10	103	4666	71.50	29	176	8095	354
11	108	4986	82.80	30	179	8235	372
12	113	5211	94	31	182	8370	392
13	118	5422	106	32	185	8505	411
14	122	5625	118	33	188	8640	431
15	127	5823	131	34	191	8770	450
16	131	6016	145	35	194	8896	470
17	135	6201	158	36	197	9022	490
18	139	6381	173	37	200	9148	511
19	143	6556	188	38	204	9270	533
20	146	6727	202	39	207	9341	553
21	150	6889	218	40	210	9509	575
22	155	6951	234	41	213	9623	596
23	157	7209	250	42	215	9738	618

48-INCH WHEEL**PRICE, \$612**

VENTS 600 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 48-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 48-inch Wheel
5	64	4482	33.60	24	140	9822	355
6	70	4908	43.80	25	143	10026	378
7	75	5304	55.80	26	146	10224	401
8	81	5670	67.80	27	148	10416	424
9	85	6012	81.60	28	151	10608	448
10	90	6222	95.40	29	154	10794	472
11	95	6648	110	30	157	10980	496
12	99	6942	125	31	160	11160	523
13	103	7230	141	32	162	11340	548
14	107	7500	158	33	164	11520	574
15	111	7704	175	34	167	11694	601
16	114	8022	193	35	169	11862	627
17	118	8268	211	36	172	12030	654
18	121	8508	231	37	175	12198	682
19	125	8742	250	38	179	12360	711
20	128	8970	270	39	182	12522	738
21	131	9186	291	40	184	12678	766
22	134	9402	312	41	187	12828	795
23	137	9612	333	42	189	12984	824

54-INCH WHEEL**PRICE, \$750****VENTS 775 SQUARE INCHES.**

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 54-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 54-inch Wheel
5	57	5789	42.50	24	125	12686	459
6	62	6338	56.50	25	127	12950	489
7	67	6851	72.00	26	130	13206	518
8	72	7323	87.50	27	132	13455	548
9	76	7765	105	28	135	13702	579
10	80	8036	123	29	137	13942	610
11	84	8587	142	30	139	14181	641
12	88	8964	161	31	142	14415	675
13	91	9338	182	32	144	14647	708
14	95	9647	204	33	146	14880	742
15	98	10028	227	34	149	15047	776
16	102	10360	250	35	151	15321	810
17	105	10679	273	36	153	15568	845
18	108	10989	298	37	156	15755	881
19	111	11291	323	38	160	15965	918
20	114	11586	348	39	163	16174	954
21	117	11865	375	40	165	16375	990
22	119	12144	403	41	167	16569	1026
23	122	12415	430	42	169	16771	1064

60-INCH WHEEL

PRICE, \$950

VENTS 975 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 60-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 60-inch Wheel
5	51	7282	54.60	24	112	15960	578
6	56	7915	71.10	25	114	16292	615
7	60	8609	90.60	26	117	16614	652
8	64	9213	110	27	119	16926	690
9	68	9769	132	28	121	17238	729
10	72	10111	155	29	124	17540	768
11	75	10812	179	30	126	17842	807
12	79	11280	203	31	128	18135	850
13	82	11748	231	32	130	18497	892
14	85	12187	257	33	132	18720	934
15	88	12616	285	34	134	19002	976
16	91	13025	314	35	135	19273	1019
17	94	13435	344	36	137	19548	1063
18	97	13825	375	37	138	19821	1108
19	100	14205	407	38	141	20185	1155
20	102	14586	428	39	143	20348	1200
21	105	14827	472	40	144	20601	1246
22	107	15277	507	41	145	20845	1291
23	110	15619	542	42	147	21099	1339

66-INCH WHEEL

PRICE, \$1200

VENTS 1200 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 66-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 66-inch Wheel
5	46	8964	67.20	24	102	19644	711
6	51	10572	87.60	25	105	20052	757
7	55	10608	111	26	107	20448	802
8	59	11340	135	27	109	20832	849
9	62	12024	156	28	111	21216	897
10	65	12444	190	29	113	21588	945
11	69	13296	220	30	115	21960	993
12	72	13834	250	31	117	22320	1046
13	75	14460	283	32	118	22680	1096
14	78	15000	316	33	120	23040	1149
15	80	15528	351	34	122	23388	1202
16	85	16044	387	35	124	23724	1255
17	86	16536	423	36	126	24060	1309
18	88	17016	464	37	128	24390	1360
19	91	17484	501	38	130	24720	1422
20	93	17940	540	39	132	25044	1477
21	95	18360	580	40	133	25356	1533
22	98	18804	624	41	135	25656	1590
23	100	19224	667	42	137	25968	1648

THE IMPROVED DOMINION WATER WHEEL.

72-INCH WHEEL

PRICE, \$1500

VENTS 1450 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 72-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 72-inch Wheel
5	42	10831	82.20	24	94	23736	859
6	46	11861	105	25	96	24229	914
7	50	12818	134	26	98	24708	970
8	54	13702	162	27	100	25172	1026
9	57	14529	197	28	102	25636	1084
10	60	15036	230	29	103	26085	1142
11	63	16066	266	30	105	26535	1200
12	66	16776	303	31	107	26970	1264
13	69	17472	342	32	108	27405	1325
14	71	18125	382	33	110	27840	1389
15	74	18763	424	34	112	28260	1452
16	76	19386	468	35	114	28666	1516
17	78	19981	494	36	115	29072	1581
18	81	20560	558	37	116	29478	1644
19	83	21126	606	38	118	29870	1718
20	85	21677	652	39	120	30261	1784
21	87	22199	703	40	122	30638	1853
22	90	22721	754	41	124	31001	1921
23	92	23229	804	42	125	31378	1992

78-INCH WHEEL**PRICE, \$1900**

VENTS 1750 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 78-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 78-inch Wheel
5	39	13072	98	24	87	28647	1037
6	43	14315	127	25	88	29042	1105
7	47	15470	162	26	90	29820	1170
8	50	16537	197	27	92	30380	1239
9	53	17535	238	28	94	30940	1309
10	56	18147	278	29	96	31480	1379
11	59	19390	322	30	97	32025	1449
12	61	20247	365	31	99	32550	1526
13	64	21087	413	32	100	33075	1599
14	66	21975	462	33	102	33600	1676
15	68	22645	512	34	103	34107	1753
16	70	23397	565	35	105	34597	1830
17	72	24115	617	36	106	35087	1909
18	75	24815	673	37	108	35577	1984
19	77	25497	731	38	110	36050	2072
20	79	26162	787	39	111	36541	2154
21	81	26792	848	40	113	36977	2236
22	83	27522	910	41	114	37415	2318
23	85	28135	973	42	115	37870	2439

84-INCH WHEEL

PRICE, \$2400

VENTS 2000 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 84-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 84-inch Wheel
5	36	14940	112	24	81	32740	1186
6	40	16360	140	25	82	33420	1262
7	43	17680	186	26	84	34080	1338
8	46	18900	226	27	85	34720	1416
9	49	20040	272	28	87	35360	1496
10	52	20740	318	29	89	35980	1576
11	54	22160	368	30	90	36600	1656
12	56	23140	418	31	92	37200	1744
13	59	24100	472	32	93	37800	1828
14	61	25000	528	33	94	38400	1916
15	63	25880	586	34	96	38980	2004
16	65	26740	646	35	97	39540	2092
17	67	27560	706	36	99	40100	2182
18	69	28360	770	37	100	40660	2268
19	71	29140	836	38	102	41200	2370
20	73	29900	900	39	103	41600	2462
21	75	30620	970	40	105	42260	2556
22	77	31340	1040	41	106	42760	2650
23	79	32040	1112	42	107	43280	2788

96-INCH WHEEL

PRICE, \$3000

VENTS 2800 SQUARE INCHES.

Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 96-inch Wheel	Head in feet	Revo- lutions per minute	Cubic feet of Water Discharged per minute	Horse- power of 96-inch Wheel
5	35	20916	156	24	71	45836	1660
6	38	22904	204	25	73	46788	1766
7	40	24752	260	26	74	47712	1870
8	43	26460	316	27	75	48608	1982
9	45	28056	380	28	77	49504	2094
10	47	29036	445	29	78	50372	2206
11	49	31024	515	30	79	51240	2328
12	51	32396	585	31	81	52080	2441
13	53	33740	660	32	82	52920	2559
14	55	35000	739	33	83	53760	2682
15	57	36232	820	34	84	54572	2805
16	59	37436	904	35	85	55356	2928
17	60	38534	988	36	86	56140	3054
18	62	39704	1078	37	87	56924	3175
19	64	40796	1174	38	88	57680	3318
20	65	41860	1260	39	89	58270	3446
21	67	42868	1358	40	90	59164	3578
22	69	43876	1456	41	91	59864	3710
23	70	44856	1556	42	92	60592	3847

FOR FULL
INFORMATION

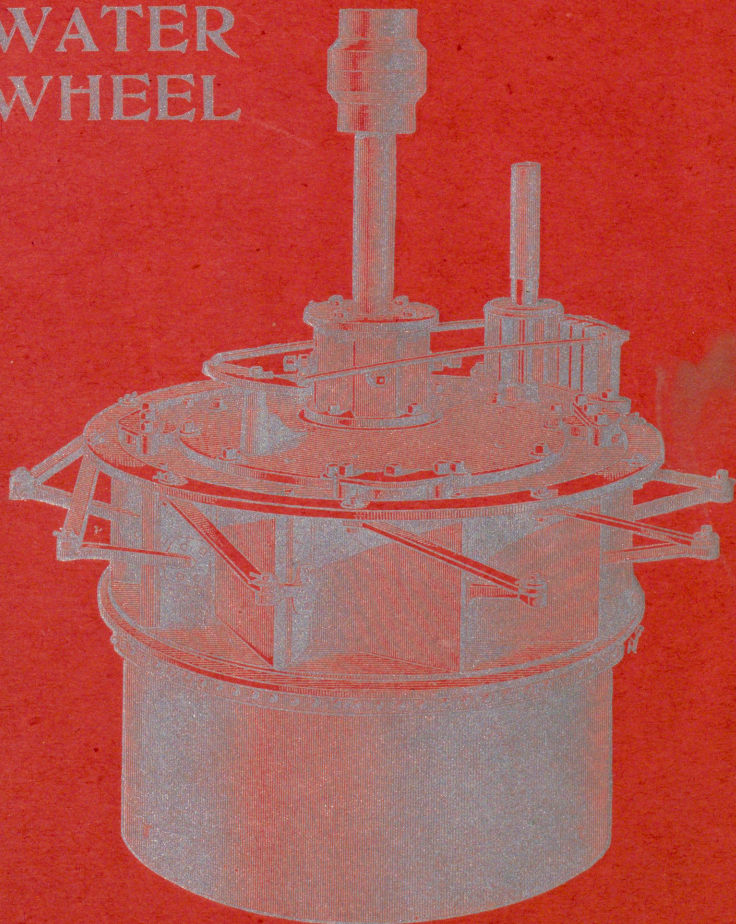
How to Set Turbine Water Wheels

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