

REPAIRS FOR RAILROAD PATTERN
16 TO 22½ FOOT

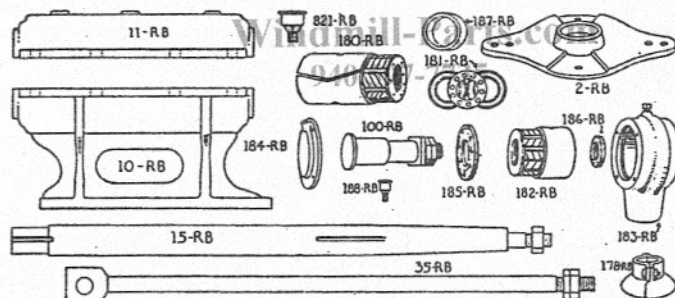
STANDARD WINDMILLS

No.	Name of Parts	16'	18'	20'	22½'
		D	D	E	E
1	Tower Cap	\$ 5.00	\$ 5.00	\$12.00	\$12.00
2	Tower Step for Lower End of Main Castg.	2.25	2.25	3.00	3.00
3	Outgear Guide Rods (2), per pair	1.60	1.60	2.00	2.00
4	Lower Outgear Ring	.80	.80	1.45	1.45
5	Center Outgear Ring	.60	.60	.80	.80
6	Upper Outgear Ring	.80	.80	1.45	1.45
7	Long Outgear Chain with Eyebolt	2.90	2.90	4.35	4.35
8	Short Outgear Chain with Eyebolt & Cplg.	2.25	2.25	3.00	3.00
9	Pivot or Main Casting	50.00	50.00	80.00	80.00
10	Lower Half Main Shaft Box	7.00	7.00	15.00	15.00
	Bolts for No. 10 and 9	.70	.70	1.00	1.00
11	Upper Half Main Shaft Box	5.00	5.00	6.25	6.25
	Bolts for No. 11 and 10	.60	.60	.75	.75
12	Brace Spider	1.30	1.30	2.20	2.20
13	Wheel Spider with Set Screw	7.80	7.80	14.60	15.60
123	Key for Spider	.30	.30	.40	.40
14	Face Plate with Set Screw	5.50	5.50	9.00	9.00
124	Key for Face Plate	.25	.25	.30	.30
15	Main Shaft and Nut	10.00	10.00	17.00	20.00
16	Sheave Stand	1.10	1.10	1.40	1.40
	Bolt for No. 16	.10	.10	.15	.15
17	King Bolt for Rudder Vane	3.10	3.10	7.50	7.50
18	Lower Vane Truss	5.20	5.20		
18	Lower Vane Truss, 1/2 Length			12.00	12.00
18-1	Lower Vane Truss (2), per pair			5.50	5.50
19	Front Upper Vane Truss Casting	.40	.40	.60	.60
20	Lag Screw for No. 19	.20	.20	.25	.25
20	Back Upper Vane Truss Casting	.60	.60	1.00	1.00
	Bolts for Nos. 20 and 20-1	.20	.20	.50	.50
20-1	Back Lower Vane Truss Casting			1.00	1.00

No.—Name of Parts	16'	18'	20'	22½'
	D	D	E	E
21 Upper Vane Truss, 1 Pc	\$ 3.70	\$ 3.70		
21 Back Upper Vane Truss (2), per pair			\$ 3.00	\$ 3.00
21-1 Front Upper Vane Truss (1)	2.40	2.40		
22 Side Vane Pedestal Casting	2.30	2.30	3.50	3.50
Bolts for Nos. 22 and 9	.25	.25	.30	.30
23 Side Vane Bar	2.50	3.00	4.00	4.50
24 Side Vane Front Brace Rod	.55	.65	.75	.80
25 Side Vane Top Brace Rod	.50	.60	.83	.85
26 Side Vane Back Brace Rod	.55	.65	.75	.80
27 Side Van Rod Clip (front)	.65	.65	.80	.80
55 U-Bolts for No. 27	.30	.30	.40	.40
28 Side Vane Crossbar Clip (front) (A-9)	.40	.40		
28 Side Vane Crossbar Clip (front) (B-9)			.45	.45
Bolts for No. 28	.15	.15	.20	.20
29 Outer Front Wheel Clips (set)	1.75	1.75	3.20	3.20
30 Inner Front Wheel Clips (set)	.75	1.50	2.00	2.00
31 Outer Back Wheel Clips (set)	1.75	1.75	3.20	3.20
32 Inner Back Wheel Clips (set)	.75	1.50	2.00	2.00
33 Pitman Castg for Wood Boxes, Upper Half	.20	.20	.20	.20
34 Pitman Castg for Wood Boxes, Lower Half	.30	.30	.30	.30
126 Bolts and Dble Nuts for Nos. 33 and 34 (2)	.60	.60	.60	.60
35 Pitman Rod Only for Wood Boxes	5.20	5.20	7.20	7.20
66 Pitman Wood Boxes (pair)	.70	.70	.70	.70
35A Pitman Complete with Wood Boxes, including Nos. 33, 34, 35, 66 and Bolts	7.00	7.00	9.00	9.00
35 Pitman Rod Only for Brass Boxes	6.00	6.00	8.00	8.00
36 Pitman Brass Boxes, Upper Half	1.90	1.90	1.90	1.90
37 Pitman Brass Boxes, Lower Half	1.50	1.50	1.50	1.50
68 Pitman Block	.50	.50	.50	.50
69 Pitman Strap	1.20	1.20	1.20	1.20
Bolt and Nut for No. 69	.20	.20	.20	.20
70 Pitman Wedge	.30	.30	.30	.30
152 Pitman Grease Cup	1.90	1.90	1.90	1.90
35B Pitman Complete with Brass Boxes, including Nos. 35, 36, 37, 68, 69 and 70 (assembled)	11.40	11.40	13.40	13.40
79 Crosshead for Either Style Pitman	2.70	2.70	3.00	3.00
80 Crosshead Pin	.20	.20	.20	.20
38 Piston with Nut	3.00	3.00	4.50	4.50
79 Piston Collar with Set Screw	.40	.40	.50	.50
35 Swivel Box	1.85	1.85	3.10	3.10
40 Swivel Box Cap	.90	.90	1.40	1.40
Bolt for Nos. 39 and 40	.15	.15	.20	.20
41 Pull Out Rods (2), per pair	2.00	2.00	3.00	3.00
42 Small Sheaves for No. 16, each	.40	.40	.55	.55
43 Large Sheave	.95	.95	1.70	1.70
117 Large Sheave Brace	.40	.40	.55	.55
Cap Screws for No. 117	.20	.20	.25	.25
56 Large Sheave Stud and Nut	.60	.60	.75	.75
44 Outgear Crosshead	1.20	1.20	1.60	1.60
45 Outgear Reel	3.80	3.80	3.80	3.80
46 Reel Chain and Bolt	1.20	1.20	1.20	1.20
53 Reel Pawl	.20	.20	.20	.20
54 Reel Stud and Nuts	.60	.60	.60	.60
60 Reel Pawl Support Casting	.20	.20	.20	.20
112 Reel Wood Arms (set)	1.90	1.90	1.90	1.90
48 Reel Sheave	.60	.60	.60	.60
48-1 Reel Sheave Stand and Pin	.60	.60	.60	.60

No.—Name of Parts	16'	18'	20'	22½'
	D	D	E	E
49 Regulating Balls (set)	\$ 5.75	\$ 5.75	\$ 7.25	\$ 7.25
49-1 Regulating Balls, each	1.20	1.20	1.20	1.20
88 Regulating Balls, "S" Hook	.25	.25	.25	.25
92 Regulating Balls, Chain and Hook	1.10	1.10	1.10	1.10
50 Regulating Weight Box	2.75	2.75	2.75	2.75
51 Regulating Weight Box Cover	1.50	1.50	1.50	1.50
52 Regulating Weight Box Cup	.15	.15	.15	.15
58 Middle Back Wheel Clips, 3-hole (set)			1.30	2.55
59 Middle Back Wheel Clips, 3-hole (set)			1.30	2.55
61 Regulating Stops (square-hole)	.15	.15	.15	.15
62 Regulating Stops (round hole)	.15	.15	.15	.15
Bolts for Nos. 61 and 62 (2)	.10	.10	.10	.10
63 Counterpoise Weight	1.15	1.15	1.50	1.50
Bolts for No. 63 (1)	.10	.10	.10	.10
64 Stiffening Rods for Rudder Vane (pair)			2.80	2.80
Bolts for No. 64 (4)			.20	.20
110 Wood Truss Block for No. 64			.50	.50
Bolt for No. 110 (1)			.15	.15
72 Circle Board Brace Rod	.55	.55	.85	.85
73 Circle Board Hooks Strap	.40	.40	.55	.55
74 Circle Board Eye Strap	.20	.20	.30	.30
91 Circle Board Plate	.20	.20	.30	.30
108 Circle Board, including Nos. 73, 74, 79, 91, 148 and 150	18.20	18.22	26.40	26.40
Bolts for Nos. 108 and 109	.40	.40	.50	.50
148 Long Circle Board Stop	4.00	4.00	5.00	5.00
Bolts for No. 148	.20	.20	.30	.30
149 Brace Rod for No. 148	1.00	1.00	1.25	1.25
150 Short Circle Board Stop	3.80	3.80	4.50	4.50
Bolts for No. 150	.20	.20	.30	.30
76 Tower Collar Clip	.10	.10	.15	.15
Cap Screw for No. 76 (1)	.10	.10	.15	.15
82 Oil Cup Covers (C. I.)	.30	.30	.30	.30
82-1 Hard Oil Grease Cup (steel)	.50	.50	.50	.50
90 Take-Up Hook	.25	.25	.25	.25
93 Water Box Hook	.45	.45	.45	.45
95 Joint Bolts for No. 1 (set)	1.00	1.00	1.00	1.00
96 Wheel Arm and Brace Support and Bolt (set)	4.00	4.00	4.00	4.00
99 Step Ring (steel)	.40	.40	.50	.50
100 Wrist Pin and Nut	1.50	1.50	1.50	1.50
Square Brass Washer for No. 100	.30	.30	.40	.40
Wheel Arms (set)	10.00	12.80	21.60	26.00
104 Wheel Arms (each)	1.25	1.60	2.70	3.25
Wheel Braces (set)	6.40	7.60	11.60	13.20
105 Wheel Braces (each)	.80	.95	1.45	1.65
109 Rudder Vane Bar	14.80	14.80	27.00	27.00
Bolts for Nos. 109 and 167	.20	.20	.50	.50

No.—Name of Parts	16' D	18' D	20' E	22½' E
114 Pump Poles (set, 2 pair)	4.00	4.00	4.00	4.00
115 Pump Poles Splice Plate (pair) .....	.45	.45	.45	.45
Bolts for Nos. 115 and 114 .....	.40	.40	.40	.40
120 Pull Out Poles (set, 2 pair)	2.00	2.00	2.00	2.00
121 Pull Out Poles, Splice Plates (pair) .....	.25	.25	.25	.25
Bolts for Nos. 121 and 120 .....	.30	.30	.30	.30
131 Wheel Slat .....	.50	.50	.....	.....
132 Wheel Rim (inner) .....	.65	.75	.....	.....
133 Wheel Rim (outer)	1.20	1.25	.....	.....
134 Wheel Rim (middle) .....	.....	.90	.....	.....
161 Wheel Section (set)	50.40	60.40	.....	.....
162 Wheel Section (each)	6.30	7.55	.....	.....
135 Wheel Slat for Outer Section .....	.....	.....	.50	.55
136 Wheel Rim (inner) for Outer Section .....	.....	.....	1.30	1.60
137 Wheel Rim (outer) for Outer Section .....	.....	.....	1.75	2.20
163 Wheel Section (outer) set .....	.....	.....	45.80	57.60
164 Wheel Section (outer) each .....	.....	.....	5.70	7.20
138 Wheel Slats for Inner Section .....	.....	.....	.45	.50
139 Wheel Rims (inner) for Inner Section .....	.....	.....	.85	.90
140 Wheel Rims (outer) for Inner Section .....	.....	.....	1.20	1.30
165 Wheel Section (inner) set .....	.....	.....	25.60	32.00
166 Wheel Section (inner) each .....	.....	.....	3.20	4.00
141 Rudder Vane Slat, each	1.90	2.00	2.20	2.20
142 Rudder Vane Bar (straight) .....	.55	.60	.60	.60
143 Rudder Vane Bar (curved) .....	.....	.....	1.40	1.40
167 Rudder Vane	14.40	19.50	21.00	21.00
144 Side Vane Slats .....	.50	.55	.60	.60
154 Side Vane Cross Bars .....	.50	.55	.60	.60
168 Side Vane	3.30	3.50	4.15	4.15
169 Complete Mill Bolts (set)	4.50	5.00	7.50	7.50
170 Complete Wheel Bolts (set)	3.50	4.00	6.00	6.00
171 Complete Wheel Bolts, Lock Washers	1.00	1.25	2.00	2.00
172 Complete Box of Parts as packed, including Nos. 2, 4, 5, 6, 7, 8, 16, 19, 20-1, 130, 22, 27, 28, 55, 29, 30, 31, 32, 39, 40, 42, 43, 117, 56, 44, 45, 46, 53, 54, 60, 112, 48, 49, 58, 59, 61, 62, 63, 110, 149, 76, 82, 90, 95, 96, 99, 100, 115, 121, 169 and 171	59.60	62.40	78.50	78.50
173 Complete Main Casting as packed includ- ing Nos. 9, 10 and 11	63.00	63.00	104.00	104.00
174 Complete Spider Shaft, etc., as packed, in- cluding Nos. 12, 13, 14, 15, 123 and 124	27.00	27.00	45.00	50.00
175 Complete Bundle of Vane Irons as packed, including Nos. 3, 18, 18-1, 21, 23, 24, 25, 26, 41 and 64	16.65	17.45	23.90	24.70
176 Complete Bundle of Pitmans with Wood Boxes, etc., as packed, including Nos. 17, 18, 35A, 79, 80, 88 and 130	16.40	16.40	40.40	40.40
177 Complete Bundles of Pitmans with Brass Boxes, etc., as packed, including Nos. 17, 18, 35B, 38, 79, 80 and 130	20.80	20.80	44.80	44.80



REPAIR LIST FOR
STANDARD ROLLER BEARING MILLS
16 TO 22½ FOOT

ADOPTED JANUARY 1st, 1923

Name of Parts	Repair Number	16' D	18' D	20' E	22½' E
Tower Step Casting, less Bearing	2 RB	\$ 4.50	\$ 4.50	\$ 6.00	\$ 6.00
Bushing Ring for No. 2	187 RB	1.00	1.00	1.00	1.00
Ball Bearing for No. 2	181 RB	4.00	4.00	4.00	4.00
Lower Half Main Shaft Box	10 RB	10.00	10.00	20.00	20.00
Upper Half Main Shaft Box	11 RB	6.00	6.00	7.50	7.50
Roller Bearing for No. 11 (set)	180 RB	17.50	17.50	22.50	25.00
Pitman Rod and Nut	35 RB	5.00	5.00	7.00	7.00
Pitman Bearing Casting	183 RB	4.50	4.50	4.50	4.50
Pitman Casting Cap	184 RB	1.00	1.00	1.00	1.00
Grease Cup for No. 184	188 RB	.40	.40	.40	.40
Pitman Casting Ring	185 RB	1.50	1.50	1.50	1.50
Pitman Felt Washer	186 RB	.50	.50	.50	.50
Pitman Roller Bearing	182 RB	6.00	6.00	6.00	6.00
Pitman Complete less Nos. 79 and 80	35-C RB	18.00	18.00	20.00	20.00
Wrist Pin (Hardened)	100 RB	2.50	2.50	2.50	2.50
Watershed for No. 9	178 RB	3.00	3.00	4.00	4.00
Main Shaft (Hardened)	15 RB	12.50	12.50	17.50	20.00
Spider, Shaft, Face Plate, complete with Roller Bearings and No. 10 and 11 as packed	174 RB	63.00	63.00	95.00	100.00
Complete Box as packed	172 RB	70.00	72.00	98.25	98.25
Complete Bdle of Pitman with Roller Bearing as packed	176½ RB	27.40	27.40	51.40	51.40