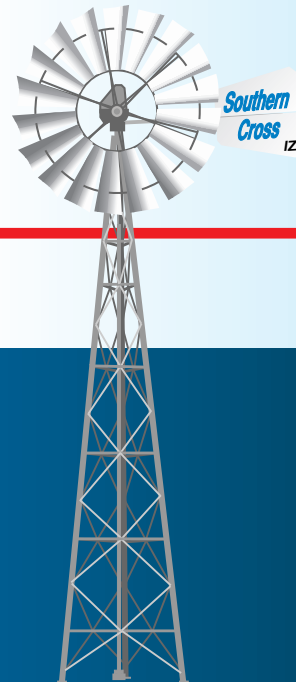


Southern Cross

“IZ” DOUBLE GEARED
WINDMILLS



“ENERGY FREE” WATER SUPPLY SYSTEMS

3 YEAR WARRANTY

THE COMPANY AGREES with the original purchaser of each SOUTHERN CROSS Windmill that, at any time within three years from the date of despatch of such windmill, the Company will repair or supply parts without charge to the original point of despatch to replace the parts which, on return, freight pre-paid, prove to the satisfaction of the Company to be defective in material or workmanship, and providing the tower anchorages hold, and the mill and tower are erected and maintained in accordance with the instruction manual. Under no conditions will the Company accept responsibility or make any allowances for any consequential damages or any other expenses whatsoever.



Ph: 131 786
e-mail: southerncross@typac.com.au
web: www.tycoflowcontrol.com.au

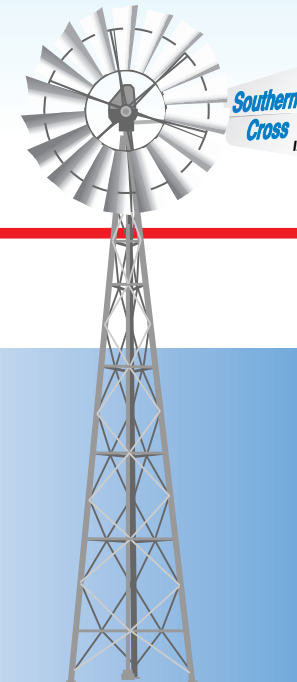
A division of **tyco** Flow Control Pacific Pty Ltd
A.B.N. 83 000 922 690

Distributed by...



Southern Cross

“IZ” DOUBLE GEARED
WINDMILLS



“ENERGY FREE” WATER SUPPLY SYSTEMS

APPLICATIONS

- — Stock Watering
- — Domestic Water Supplies
- — Tank and Dam Filling
- — Pumping from Deep Bores and over Long Distances

FEATURES

- Very Low Maintenance...
Time proven reliability
- No Fuel or Power Bills
- Ideal for Remote Areas...
Windmills eliminate the need to transport fuel or install power lines
- All Weather Operation... The only requirement is a light breeze for operation, day or night, in all weather conditions
- Pollution Free... Southern Cross Windmills operate without noise or atmospheric pollution
- Range of Sizes... 1.8 to 4.3 metre Windwheels



NO FUEL OR POWER BILLS...

Use wind energy to pump vital water supplies.

LOW MAINTENANCE...

Southern Cross Windmills are self-sufficient, require little attention and offer proven operating reliability for safety of water supply. Many of the Southern Cross Windmills you see are over 30 years old and are still operating reliably —and in most cases spare parts are available.

IDEAL FOR REMOTE AREAS...

Windmills eliminate the need to transport fuel or install expensive power lines into remote areas.

ALL WEATHER OPERATION...

The only requirement is a light breeze for operation, day or night, in all weather conditions.

POLLUTION FREE...

Southern Cross Windmills operate without noise or atmospheric pollution.

FEATURES...

- Automatic oiling and governing.
- Powerful windwheels for easy starting and excellent pumping ability.
- Designed to pump from deep bores and over long distances.
- Simple to install and maintain.
- All working parts run in oil and are sealed against weather.
- All exposed steel parts are hot dip galvanised.
- High standard of manufacture.
- Simple reefing gear.

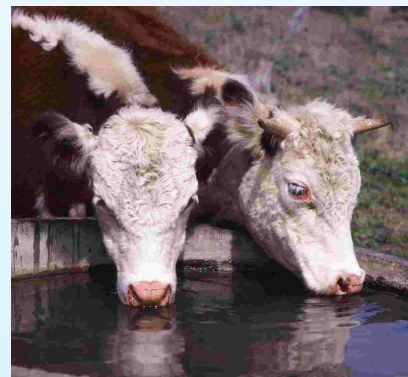
SIZES AVAILABLE...

WINDWHEEL DIAMETERS:

1.8, 2.4, 3, 3.6 and 4.3 metres

TOWER HEIGHTS:

6, 7.6, 9, 12, 15 and 18 metres.



PUMPING CAPACITIES OF SOUTHERN CROSS WINDMILLS...

The correct combination of windmill and pump is that which allows the mill to work easily in light winds. The pumping table below shows the average daily supply which can be expected from each combination of windmill and pump, up to the depths given, in most areas of Australia, provided that the windmill is erected on a sufficiently high tower in a good open site where the wind can reach the windwheel freely. There are, however some areas in which the wind is not so strong, and in these areas customers should specify a larger size of windmill and pump than would normally be used. Also in districts where the wind does not blow for as many hours per day as the average, customers should specify a larger size of windmill and pump. Greater satisfaction will always be achieved with a lightly loaded windmill.

DATA REQUIRED FOR SELECTING AND QUOTING SOUTHERN CROSS WINDMILLS

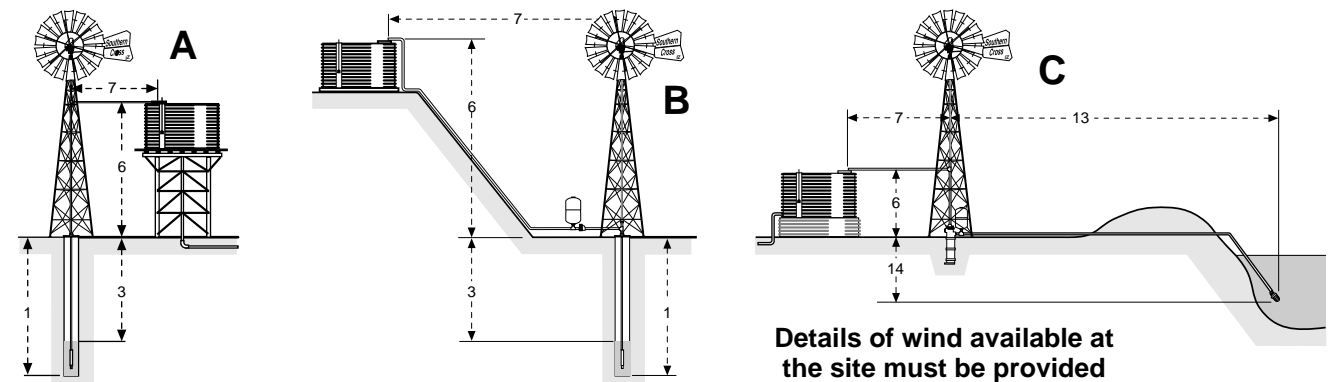
Pumping Underground Water from Bores and Wells:

1. Depth of bore or wellm
2. Bore casing size (inside diam.) or size of well mm
3. Distance from ground level to water levelm
4. Maximum hourly supply available for pumping.....litres
5. If water is pumped at the maximum rate of supply, how far will water level be below ground level then m
6. Height above ground level at the pumping site to top of tank or reservoirm
7. Distance from tank or reservoir to pumping sitem
8. Maximum height of obstructions, if any, in the vicinity of the pumping site and how far away. If there is any doubt about the prevailing winds easily reaching the site, describe the site as fully as possible
9. Quantity of water required daily.....kilolitres
10. What the water is to be used for.....
11. Size and type of other equipment available, if any, you wish to use on the job if possible

Pumping Surface Water — Creeks, Dams, Drains, Earth Tanks

12. Source of supply
 13. Distance along the ground from the water to the point at which it is proposed to install the pump
 14. Vertical height from the lowest water level to the point at which the pump will be installed
 15. Plus the information asked for at 6, 7, 8, 9, 10, and 11
- If New Windmill Head Only is required:**
16. Size and make of old mill
 17. Height of existing tower above ground level
 18. Is tower 3 or 4 post
 19. Size of pump installedmm
 20. Distance from ground level to pump.....m
 21. Size of pump delivery piping or casingmm
 22. Size and type of pump rods.....mm
 23. Is connection required for between new mill and existing pump rods
 24. Plus the information in questions 1 to 10 if pumping from bore or well, and questions 6 to 10 and 12v to 14 if pumping surface water

WHICH ILLUSTRATION BELOW MOST RESEMBLES YOUR LAYOUT



MILL MODEL	WHEEL DIAM. m (ft)	STROKE mm (in)		DIAMETER OF PUMP CYLINDER mm (inch)								DIAMETER OF PUMP CYLINDER mm (inch)							
				44 (1.75)	51 (2)	57 (2.25)	64 (2.5)	70 (2.75)	76 (3)	83 (3.25)	89 (3.5)	102 (4)	108 (4.25)	114 (4.5)	127 (5)	152 (6)	203 (8)		
6-IZ	1.8 (6)	133 (5.25)	Total Lift - metres (feet)	22 (73)	18 (60)	16 (51)	13 (43)	11 (37)	10 (32)	8 (27)	7 (24)	6 (19)	5 (17)	4 (15)	3 (12)	—	—	—	—
			Average Daily Output - kilolitres (gallons)	3.6 (795)	4.7 (1040)	6.0 (1320)	7.4 (1630)	9.0 (1970)	10.7 (2345)	12.5 (2750)	14.5 (3190)	18.9 (4165)	21.4 (4705)	24 (5275)	29.6 (6510)	—	—	—	—
8-IZ	2.4 (8)	146 (5.75)	Total Lift - metres (feet)	40 (132)	33 (109)	28 (92)	23 (77)	20 (66)	17 (57)	15 (50)	13 (44)	10 (34)	9 (31)	8 (28)	7 (23)	5 (16)	—	—	—
			Average Daily output - kilolitres (gallons)	4.0 (875)	5.2 (1145)	6.6 (1450)	8.1 (1790)	9.8 (2165)	11.7 (2575)	13.8 (3025)	15.9 (3505)	20.8 (4580)	23.5 (5170)	26.3 (5795)	32.5 (7155)	46.8 (10,305)	—	—	—
10-IZ	3.0 (10)	165 (6.5)	Total Lift - metres (feet)	72 (236)	60 (197)	51 (166)	43 (141)	37 (121)	32 (105)	28 (92)	25 (81)	20 (64)	17 (57)	16 (51)	13 (42)	9 (30)	—	—	—
			Average Daily output - kilolitres (gallons)	3.9 (855)	5.1 (1115)	6.4 (1415)	7.9 (1745)	9.6 (2110)	11.4 (2515)	13.4 (2950)	15.5 (3420)	20.3 (4465)	22.9 (5040)	25.7 (5655)	31.7 (6980)	45.7 (10,050)	—	—	—
12-IZ	3.6 (12)	184 (7.25)	Total Lift - metres (feet)	96 (315)	72 (263)	68 (222)	58 (189)	49 (162)	43 (140)	37 (123)	33 (108)	26 (85)	23 (76)	21 (68)	17 (56)	12 (40)	7 (23)	—	—
			Average Daily output - kilolitres (gallons)	4.2 (925)	5.5 (1205)	7.0 (1530)	8.6 (1885)	10.4 (2285)	12.4 (2720)	14.5 (3190)	16.8 (3700)	22 (4830)	24.8 (5455)	27.8 (6115)	34.3 (7550)	49.4 (10,870)	87.9 (19,325)	—	—
14-IZ	4.3 (14)	184 (7.25)	Total Lift - metres (feet)	135 (443)	113 (370)	95 (312)	81 (265)	69 (228)	60 (197)	52 (172)	46 (151)	36 (119)	33 (107)	29 (96)	24 (79)	17 (56)	10 (32)	—	—
			Average Daily output - kilolitres (gallons)	3.6 (790)	4.7 (1035)	6.0 (1310)	7.4 (1620)	8.9 (1955)	10.5 (2315)	12.4 (2730)	14.4 (3165)	18.8 (4135)	21.2 (4670)	23.8 (5235)	29.4 (6470)	42.3 (9310)	75.2 (16,540)	—	—