"...Not affected by Cyclone...

Commercial hotel is indeed a beautiful breeze, & has not given me a moment's trouble. As you are aware, this mill is 'working' under extraordinary conditions. I mention that a recent cyclone took the roof off the stable adjoining the mill also verandah, but did not have the slightest effect on the mill, which proves that the Comet Windmill is immune to cyclones and this certainly was 'some' cyclone.

"...Outputs to 250,000 gallons daily..."

On the Sesbania Trust Bore QLD a 35ft Comet Windmill gave an output of above 250,000 gallons daily under test by Government Engineers.

"...Proven ability to pump distances...'

On Bowen Downs Station in QLD a 27ft Comet Windmill with a 12inch pump has been supplying 12 miles (19.3km) of bore drain with up to 200,000 gallons daily for many years.





PO Box 340, Macksville NSW 2447 Australia

Tel +61 2 6568 3711 Fax +61 2 6568 3722 Email sales@cometwindmills.com.au www.cometwindmills.com.au











Comet Windmill

pump range....

The tradition of high quality products flows through to the complete range of windmill pumps. Comet manufactures a standard range to suit any condition and can also supply custom made sizes for larger quantities of water.

Standard Range

Flush End Pumps (A)

- Sizes: 13/4, 2, 21/4, 21/2, 3, 31/2, 4, 41/2, 5, and 6 inches
- Shallow pumping from bores and wells
- Gun metal bronze construction
- Leather or rubber buckets
- 12" stroke • Larger sizes available on request

- Syphon Pumps (B) • Sizes: 13/4, 2, 21/2, 3, 31/2, 4, 41/2, 5, and 6 inches
- Surface water pumping from dams and rivers
- Leather or rubber buckets
- Vertical or side discharge (pictured)
- Heavy duty casting • 12" stroke
- · Larger sizes available on request

- Heavy Duty Draw Plunger Pump (C)
 Sizes: 1¾, 2, 2¼, 2½, 3, 3¼ and 4¼ inches
- Deep bore pumping over 250ft depths · Ideal for hard or dirty water
- Heavy duty pumps
- Sleeve valve
- 24" stroke



"The pumping capacities of Comet Mills, shown in the table (below), are based on the number of pumping strokes (inches) in 12 m.p.h. (19 k.p.h) winds. Our Pumping Table is Based on 10 hours of pumping allowing for slip/friction. Of Course, if the wind blows for longer periods you will get more water. Mills will start pumping in light breezes of under 8 m.p.h.(12 k.p.h).

										١	NHEE	L DIA	METI	ER									
PUMP	8ft		10ft		12ft		14ft		16ft		18ft		20ft		22ft		24ft		27ft		30ft		PUMP
SIZE	2.44m		3.05m		3.66m		4.27m		4.88m		5.49m		6.10m		6.71m		7.32m		8.23m		9.14m		SIZE
Inches	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Ft	gal	Inches
mm	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	Mt	L	mm
1%"	95	800	160	850	220	870	310	960															1%"
44mm	29	3640	49	3680	67	3960	85	4360	2000	F-000000	77050	-											44mm
2	75	1060	130	1120	175	1130	250	1260	320	1800	410	1360											2
50	22	4820	40	5090	53	5140	76	5730	98	8180	125	7410									-		50
21/4	60	1340	105	1420	140	1430	200	1590	265	2290	350	2070	480	2300									21/4
57	18	6090	32	6460	43	6500 1770	170	7320 1960	81	10410	107	9410	146	10460	500	2550							57 2½
2½	52 16	7500	85 26	1750 7960	120	8050	52	8910	220 67	2830 12870	300 91	2550 11590	415 126	2850 12960	500 152	2550 11590							65
2%	45	2000	72	2130	100	2150	140	2380	190	3430	250	3100	360	3450	430	3100	570	3430					2%
70	14	9090	22	9680	31	9770	43	10820	58	15590	76	14090	110	15680	131	14090	174	15590					70
3	38	2380	60	2500	85	2550	120	2830	160	4080	210	3680	305	4100	380	3680	490	4080					3
80	12	10820	18	11370	26	11590	37	12870	49	18550	64	16730	93	18640	116	16730	149	18550					80
31/4	32	2800	50	2950	72	3000	105	3300	135	4780	180	4300	260	4800	325	4300	430	4780	520	5100	650	4650	31/4
83	10	12730	15	13410	22	13640	32	15000	41	21730	55	19550	79	21820	99	19550	131	21730	158	23190	198	21140	83
31/2	28	3250	45	3450	63	3450	90	3850	118	5550	155	5000	225	5600	280	5000	370	5550	470	5900	570	5400	31/2
90	9	14780	14	15680	19	15680	27	17500	36	25230	47	22730	69	25460	85	22730	113	25230	143	26820	174	24550	90
4	22	4200	35	4550	48	4550	70	5650	94	7250	124	6550	180	7300	220	6550	280	7250	360	7750	445	7050	4
100	7	19090	11	20460	15	20680	21	25690	29	32960	38	29780	55	33190	67	29780	85	32960	110	35230	139	32050	100
41/4					43	5100	62	5050	83	8200	110	7350	160	8250	200	7400	250	8200	325	8750	425	7950	41/4
108					13	23190	19	22960	25	37280	34	33410	49	37510	61	33640	76	37280	99	39780	130	36140	
41/2					38	5700	55	5350	75	9150	95	8250	140	9250	170	8250	220	9150	285	9800	370	8900	41/2
114					12	25910	17	24320	23	41600	29	37510	43	42050	52	37510	67	41600	87	44550	113	40460	114
5					30	7050	45	7850	60	11300	75	10200	110	11400	135	10200	175	11300	230	12100	295	11000	
6					9	32050	30	35690	18	51370 16300	23 50	46370	70	51820 16400	95	46370 14700	53 120	51370 16300	70 155	55010	90	50010 15800	
152					6	10150 46140	9	11300 51370	40 12	74100	15	14700 66830	21	74550	29	66830	37	74100	47	17400 79100	210 64	71830	
7					15	13700	22	15400	30	22000	38	20000	56	22400	75	25000	92	22200	100	23700	140	21600	7
178					5	62280	7	70010	9	100010		90920	17	101830	23	113650	28		31	107740	43	98190	178
8					12	18000	17	20000	24	29000	30	26000	45	29000	60	32000	70	28500	80	31000	110	28000	8
203					4		5	90920	7	131830	9	118200	14	131830	18	145470	21	129560	24	140930	34	127290	203
10									14	44000	18	40000	26	45000	35	50000	42	44000	52	47000	72	43000	10
254									4	200020	6	181840	8	204570	11	227300	13	200020	16	213660	22	195480	254
12											12	58000	17	65000	23	72000	30	64000	38	69000	52	63000	12
304											4	263670	5	295490	7	327310	9	290940	12	313670	16	286400	304



- 100% Renewable Energy
 - No Fuel or Power Bills
- New Safety Features
- Low Maintenance
- 100% Australian Owned & Operated
- Manufactured regional NSW





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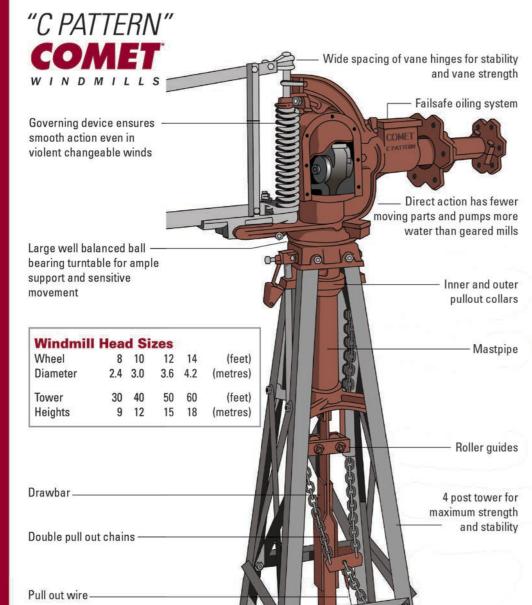


Comet windmills are designed to operate in the lightest of winds, they are legendary for their sensivity, simplicity and great strength.

They begin cost-effective operation in wind speeds as low as 4mph (6.5kph). Wind speeds of 4mph occur 95% of the time over the earth's surface.

Comet Windmills are Direct Acting which means the Comet Windmill pumps more water at a lower cost, at any depth and in any wind speed. Over 20+ years a Comet Windmill will provide the cheapest and most effective water pumping option.

With proven pumping ability and reliability for over 138 years, they are reliable with little maintenance required in harsh working conditions.



Why choose a Comet Windmill?...

Pollution Free

Installing a Comet Windmill will reduce your carbon footprint. Windmills convert wind into mechanical energy with zero nett CO₂ emissions therefore lowering your impact on the environment.

Stability and Safety

All Comet towers are designed with a high safety factor. The 4-post design and heavy steel construction provides greater stability to stand firm in strong winds. Four posts will always be stronger and safer than three. Available in 20ft to 60ft heights.

Long Life

The Comet Windmill has been proven for over 138 years, backing up claims of long life and sustainability. A maintained windmill can last many years with a little oil and checking bolts every six months to keep the windmill performing at its best.

No Fuel or Power Bill

This has to be the main draw card for the Comet Windmill. The initial outlay for the windmill is quickly offset by the reduction in your fuel or power bill. All you need is a breeze, and the windmill will start pumping.

Low Maintenance

Our systems have been designed to be self sufficient, requiring very little attention during the normal remote operation of a windmill. All steel work is hot dip galvanised, and the principal parts are cast from heavy duty materials giving longer life.

Ideal for Remote Areas

The Comet Windmill operates under all climatic extremes from snow fields and arid deserts, to tropical cyclones where they run without supervision for long periods of time.

Safety Features

Unlike other windmill designs Comet Windmills have a unique option for a galvanised steel platform with antislip floor, perimeter toe plate and heavy duty support angles. The area provides a safe environment to carry out maintenance. A steel rope for harness attachment can also be incorporated with the ladder.

How Far can the Water be Pumped?

The powerful action of the Comet Windmill can push the water (depending on the size of the windmill head, and the pump diameter) up to 1,000ft. Apart from this, the distance is not much of an issue.

There is no need for skilled technicians or tradesmen to erect, maintain or troubleshoot. Our experienced staff are only too happy to help. Comet does not endorse the use of non genuine parts as it causes more damage to your windmill over its life. Companies claiming to make parts

Large capacity pumping....

Wheel 16 18 20 22 24 27 30 (feet)

Diameter 4.8 5.4 6.1 6.7 7.3 8.2 9.1 (metres)

Windmill Head Sizes

Tower 20 30 40 50 60

Heights 6 9 12 15 18

Simple Design

"D PATTERN"

COMET

suitable for Comet Windmills and stating that these parts are stronger or better, have no grounds or proven experience to guarantee or make these claims. Genuine Comet parts have been made for over138 years of unfailing quality from certified engineer drawings.

Features

to 60ft in height

simple design

Long life

Proven success and performance

Extreme sensitivity to wind

Low wind speed operation

· Direct acting - no gears

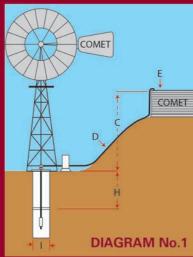
Robust construction and

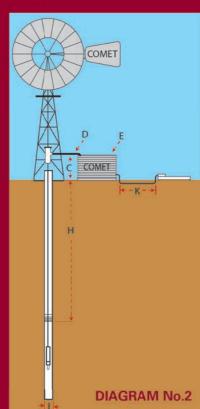
Sizes 16ft to 30ft wheel

diameter on 4-post Towers up

Other sustainable solutions....

- Irrigation
- Eco Tourism
- Aquaculture
- Mine Rehabilitation
- Radio/TurbineTowers
- Galvanised Steel Tank Stands
- Windmill Spare Parts
- Pump Buckets
- Den Sente Control





General Data

Comet Windmill COMET

WINDMILLS AUSTRALIA

SINCE 1879

selection guide....

Accurate measuring is essential.

Wind - Winds, especially the light

mill from all directions. The bottom

of the wheel must be at least 15ft

breezes, must have free access to the

(4.5metres) above all wind obstructions

within 150yds (137metres) of the mill.

Elevations - The mill should be loaded

and balanced so that it will start

pumping in light breezes. Its size

depends upon the size of the pump

and total elevation. The latter includes

and delivery elevations but also an

allowance for probable water flow

not only the vertical heights for suction

friction in the pipeline. The delivery pipe

size should be at least half the pump

Suction - In a bore or well it is best

to submerge the pump. For a creek or

dam the pump should be placed close

to the water and the suction elevation

must not exceed 30ft (9m), or less if

It is very important that you provide

accurate measurements so that the

most efficient and economical pumping

plant can be recommended to suit your

requirements. First choose the diagram

site. Answer the general data questions

that is most similar to your proposed

with accurate measurements and

include pumping details.

the suction pipeline is long.

Instructions

- A. State the number of the diagram which is similar to your proposed layout. If your layout is different, send a sketch showing the dimensions below and details of any pipelines.
- **B.** Amount of water in gallons/litres required per day.
- **C.** Height from ground level to top of tank or point of discharge.
- D. Length of discharge pipe or delivery pipeline.
- E. Capacity and type of storage tank.
- F. Distance and height of trees and other wind obstructions within 150yds (137m) of mill site.
- G. Are average wind conditions light, medium or good?

Pumping from bores or wells Source of supply?

- **H.** Distance from ground level to lowest water level.
- I. Inside diameter of bore casing or size of well.

Pumping from Surface Water – Creeks, Earth Tanks, Dams or Shallow Wells Source of supply?

- Vertical height from normal water level to ground level at mill site.
- **K.** Distance from the water source to proposed pump site.
- Vertical height from lowest water level to ground level at mill site.

