

YARDMASTER WATER WHEELS PUMPING WATER WITHOUT POWER BILLS



YARDMASTER WATER WHEELS

“ With an ever increasing emphasis on monitoring power usages and out-going costs, Yardmaster water wheels are a perfect solution in remote areas where accessing more common forms of power is difficult or simply to utilise the environments natural elements for pumping water without the power bills. With over 50 years of water wheel manufacturing experience, Yardmaster combine this expertise with the latest engineering developments and materials to manufacture purpose-built water wheels to perform for all applications. ”

Features...

- Yardmaster Water wheels are equipped with self aligning grease reservoided bearings that only need greasing once a year.
- All YARDMASTER water wheels are purpose-built to suit specific requirements. Water wheels, gearboxes and pumps are all calculated using a formula for obtaining optimum performance when combining available water-flow and distances required to pump to.
- Designed and manufactured in New Zealand for New Zealand conditions



Ideal for...

Water wheels are particularly suited to remote situations because they eliminate the need for power reticulation or constant attention to petrol engines.

Data required to design a water wheel supply system

- Litres per second available to drive the water wheel. A minimum of 25 litres per second are required.
- Diameter possible for water wheel. The larger the diameter the more force will be obtained from a given weight of water.
- Height to the reservoir site.
- Distance to reservoir.
- Likely requirements, i.e. number of stock units, shed and housing demand.



8' x 3' Yardmaster Water Wheel. Water accessed via farm creek dam and delivered via PVC to wooden flume

Applications & Case Studies



CS_CAR01

8' x 3' Yardmaster Water Wheel. Water accessed via open lake



CS_COLO1

15' x 2' Yardmaster Water Wheel. Top right images shows gearbox, pulley and pump. Bottom right image shows bearings.



CS_KEM01

15' x 2' Yardmaster Water Wheel featured construction using Kauri timber supplied by client. (see cover image)



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CASE STUDY Typical Performance



CS_MIS01

WATER WHEEL DIMENSIONS
2.4m x 0.6m (8'x2')

WATERFLOW
34 l/s

PERFORMANCE
Pumping 950 l/hr (250 US Gl/hr)
to 131m (430')
= 23,000 l/day



CS_PUM01

WATER WHEEL DIMENSIONS
2.4m x 0.9m (8'x3')

WATERFLOW
50 l/s

PERFORMANCE
Pumping 1,600 l/hr (422 US Gl/hr)
to 120m (393')
= 40,000 l/day



CS_COL01

WATER WHEEL DIMENSIONS
4.6m x 0.6m (15'x2')

WATERFLOW
25 l/s

PERFORMANCE
Pumping 1,130 l/hr (250 US Gl/hr)
to 120m (400')
= 28,000 l/day

Note: Figures above are for water wheel operating at restricted capacity. i.e Water flow is restricted up to 60%.

