

CCAT pedal washing machine

From Appropedia

The Pedal Powered Washing Machine

Designed and Built by Bart Orlando / Assisted by
Dana Papke

Contents

- 1 See more



Bart Orlando demonstrates



This version of the pedal powered washing machine features the addition of a pedal powered permanent



This article appeared in the HSU Lumberjack newspaper in 1997. The article is based on an interview with the pedal powered

that one person has the power to wash clothes in a pedal powered Wringer washing machine. The wringer eliminates the spin dry function, standard on modern washing machines. One person can do 1/3 of a normal

An exercise bike is substituted for the original 2hp 110v electric motor. A fan-belt is rapped around the flywheel of the exercise bike and a pulley which drives the original transmission of the Wringer Washer.

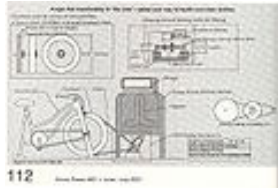
magnet electric generator that can supply electricity to a 110v blender. The female end of an AC extension cord is wired to the positive and negative leads from the DC generator. The generator output is approximatley 110 volts-DC at 1100 rpm,

washing machine designer, Bart Orlando. Since then, the pedal power drive line of the washer has been simplified. The number of fanbelts used has been reduced from two belts to one belt. Now, one fanbelt connects the

load of laundry
in about 30
minutes.

while pedaling
at about 90
rpm. Most
household
blenders have
universal
motors that
run both AC or
DC.

flywheel of the
exercise bike
directly to the
pulley which
drives the
transmission of
the washer.
This reduces
the amount of
friction by
eliminating one
belt and two
pillow blocks.
Less friction
translates into
less pedaling
effort.



This CAD diagram of the pedal powered washing machine was made by Matt Rhode as a class assignment for a course he

When Arcata



took at HSU in computer assisted drawing in 2000. Students taking that course are encouraged by the instructor to choose CCAT's pedal powered devices for the subjects of their CAD drawing assignments. In this way, became the first city in the United States to elect a city council with a majority of Green Party members, People magazine printed an article which featured this photo of the CCAT pedal powered washing machine.

the engines of the university are harnessed to advance the work of CCAT. This diagram, of the CCAT pedal powered washer (designed by Bart Orlando), was submitted to Home Power magazine in 2001.

See more

- Pedal power

[+] CCAT pedal powered innovations



This is a project from Humboldt State University's Campus Center for Appropriate Technology. Please see other CCAT projects here on Appropedia or check out the CCAT homepage (<http://www.ccathsu.com/>) .



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- [3 watching users]
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