

Pedal Powered Blender



Design & Realisation by Carlos Marroquin

Instructions by Henry Godfrey

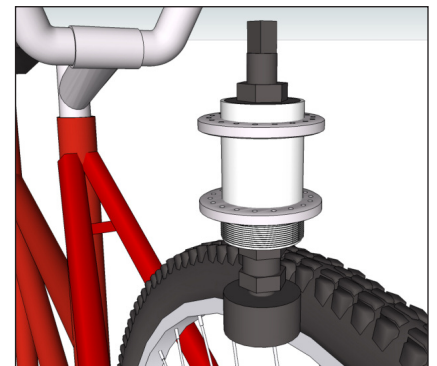
Produced by Maya Pedal 2010

Version 1

Pedal Powered Blender



Sketchup model available to download at mayapedal.org



Introduction

This design of pedal powered blender converts an unwanted bicycle into a device for blending all kinds of foods as well as natural soaps and shampoos. It might be used in a remote building or it could be used to make smoothies for sale at an festival or sports event. Here at Maya Pedal we use it to blend refried beans, soups and pasta sauce. It's enjoyable to use and quieter than an electric blender. The engine will never burn out, so long as you keep it fed with beans and pasta sauce.

You will probably need:

- A bike preferably with 27" or 700mm wheels.
- An extra fork of the same length.
- An extra rear hub.
- Some Rebar (for reinforcing concrete).
- An old electric blender.
- A wooden platform for the blender.
- Some thin steel box section.
- A small disk cut from and thick truck tire.

There is no "one way" to build a bike blender. Each one is unique.



About Maya Pedal

Maya Pedal is a Guatemalan NGO based in San Andreas Itzapa. We accept bikes donated from overseas which we either recondition to sell, or we use the components to build a range of "Bicimaquinas", (pedal powered machines).

Pedal power can be harnessed for countless applications which would otherwise require electricity (which may not be available) or hand power (which is far more effort). Bicimaquinas are easy and enjoyable to use. They can be built using locally available materials and can be easily adapted to suit the needs of local people. They free the user from rising energy costs, can be used anywhere, produce no pollution and provide healthy exercise.

We make water pumps, mills, tile makers, nut shellers, blenders (for making soaps and shampoos as well as food products), trikes, trailers and more.

In Guatemala

We have a busy workshop staffed by locals and by volunteers from around the World. As well as building Bicimaquinas, we offer a bike repair service and sell used bikes.

The project is managed by Maya Pedal founder Carlos Marroquin, a skilled engineer and the inventor of many Bicimaquinas.

We also work with a number of local partners, NGO's, agricultural cooperatives and organic producers.

Internationally

We are supported by a number of international organizations. We also accept volunteers with a range of skills and interests.

Contact us for more details.

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