

# Pedal Powered Grinders

## Pedal Powered Grinder

Persons in rural or remote areas of the world that use grinding technologies often lack the financial resources necessary to purchase electric motors or gas or diesel engines and electric power is often undependable and/or unavailable. Manual hand crank machines or traditional methods of grinding are often the only options available to them. However, depending on the application, pedal powered grinding may be an appropriate alternative to ease their workload or increase productivity.

These photos illustrate the use of a converted exercise bike attached to an Omega VI grinder for use in grinding peanuts into paste. (Road bicycles have been converted in a similar way.) The flywheel is set in motion by pedaling, which in turn rotates the upper sprocket attached to the auger of the grinder. The rotary momentum of the flywheel tends to impart a smooth positive grinding action while the operator pedals to keep the flywheel moving at an appropriate rate. (This application is not recommended for corn.)



## Assembly Instructions Available

Assembly instructions for the Pedal Powered Device are available to download [here](#).