

Pedal-powered bulldozer is driven by a bicycle chain and sprocket and 5-speed transmission. Bike chain and sprocket drive on right side turns by hand to control height,

Pedal-Powered Bulldozer

Lonnie Green does all kinds of chores with the pedal-powered bulldozer he built a few years ago for a couple hundred dollars.

"I clean ditches, cut and grade paths, level driveways - just about anything a mechanized bulldozer would do," says Green, of Nevada City, Calif. "Granted, it takes a little longer because a person in average physical condition can only generate a maximum of about 1/3 hp, with their legs. But you get an excellent workout while you're doing it, and it's a lot faster than doing the work manually."

Green built the dozer frame out of thin

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Lever on left side of dozer is used to steer.

its canopy

The machine is driven by a bicycle chain and sprocket and 5-speed transmission. The dozer goes from creep speed all the way up to walking speed. Gears change with a foot

"This is the fourth one I've built and I've learned a lot. My first was fairly useless,"

Green, who's working on a number of

Contact: FARM SHOW Followup. Lonnie Green, 15225 Hobby Way, Nevada City, Calif. 95959 (ph 916 265-8448).



wall square tubing. It's 6 ft. long, 2 1/2 ft. wide and 6 ft. high at the highest point of

pedal.

Green used a differential out of an old Datsun 210 car and mounted the car's 13 in. wheels on back. The front wheels, which mount on an oscillating axle for working rough terrain, came off a wheelbarrow. A lever on the left side of the dozer is used to

A six-way adjustable blade mounts on a parallel linkage on front of the machine. A bike chain and sprocket drive on the right side turns by hand to control height, tilt and pitch of the 3 ft, wide blade, which Green made out of a section of water heater. He also made rippers that attach to the front of the blade for digging out rocks.

The operator rides in a sturdy homemade chair with lawn chair webbing and is protected by an overhead canopy.

he says. "For example, balance is critical when you're using pedal power. The front and back have to be balanced just right. This one weighs 300 pounds with an operator on it. Also, you can't have any drag whatsoever on the drivetrain or you'll get tired

other pedal-powered machines, says he'd like to hear from manufacturers interested in producing his dozer.



Pedal-powered "DumpTrikes" have bins on front that'll carry over 400 lbs. of cargo

Pedaled "DumpTrikes"

Pedal-powered "DumpTrikes" have bins that attach to the front for hauling over 400 lbs. of cargo at a time. The bin is dumped by hand or can be decoupled from the 3wheeler so it can be used as a wheelbarrow.

Inventor has had interest from people and businesses all over the country

DumpTrikes come in two sizes with anumber of options available. Prices range from \$950 to \$1,800

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Bin is dumped by hand or can be decoupled from the 3-wheeler to be used as a wheelbarrow.





Pedal-Powered Mower

(Continued from cover page)

be adjusted from 1 to 5 in. by adjusting a turnbuckle on a chain that supports the' cutter reel.

Ehrlich says he still needs to improve the mower's performance on steep hills. The wheels spin on steep grades and the mower is front-heavy for going downhill. A spring loaded front roller would help keep it from tipping forward, he says.

Still, the mower has its place, he adds. "It's excellent for medium-sized flat lawns," he says. "It's quiet, turns on a dime, and does a good job cutting."

Ehrlich says he'd like to license his concept to a manufacturer. He could also make hand-drawn plans and further construction details available.

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