



Pto-driven rotary brush cutter uses an automotive differential to belt-drive a 12-in., carbide-tipped table saw blade.

3-Pt. Mounted Rotary Brush Cutter

"I built it to clear brush alongside the road. It does a great job," says Bill Hoff, Nakina, Ont., about the 3-pt. mounted, pto-driven rotary brush cutter that he built.

The brush cutter makes use of an automotive differential which belt-drives a 12-in. carbide-tipped saw blade, and is mounted on Hoff's Massey Ferguson GC2310 TLB Estate Tractor.

"The tractor pto drives the axle side of the differential to increase its output speed. The differential's output speed is further increased through a belt and pulley system, which gives the saw blade a speed of 3,000 rpm's at the tractor's 550 rpm pto speed," says Hoff.

"My brother gave me the differential and had already taken it apart years ago, so I don't know what kind of car it's from. I had to weld the axle back together so it would run true. I mounted a pulley on top of the differential that's off a 10 hp, walk-behind snowblower."

The brush cutter mounts on a frame made

from 2-in. sq. tubing, and is raised and lowered by using the tractor's 3-pt. hitch system.

Hoff machined a mandrel to hold the saw blade and attached it to a vertical shaft. The shaft is secured by 2 pillow block bearings to a 5 by 9-in. flat steel plate that's welded onto a length of 2-in. sq. tubing. The sq. tubing slides into a receiver hitch that Hoff welded onto the frame.

A 1/2-in. threaded rod positioned between the receiver hitch and sq. tubing is used to adjust belt tension.

He used a pair of U-joints and 1-in. sq. tubing to make a 14-in. long pto shaft that hooks up to the tractor's original pto. The belt and pulleys are protected by an expanded metal guard.

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Rataway Fragrance Stops Odors That Attract Pests

Rodents and other animals mark territory with their scent, which attracts more animals. Rataway Fragrance gets rid of the scent and therefore eliminates the attraction.

Rick Suddes, owner of Air Control Company, who has dealt with pest problems for four decades, invented Rataway Fragrance.

"It is not a pepper spray," he emphasizes, and the smell is not offensive to humans. He used ingredients that are safe for anyone to use - Rataway Fragrance will not kill anything. It's a maintenance product that must be applied regularly.

Dilute the concentrated Rataway Fragrance with a gallon of distilled water and spray it on all types of surfaces including wiring, engines and other parts of vehicles; farm machinery and heavy equipment; phone and electrical cables; heating and air conditioning units and even camping equipment, stored food and heirlooms.

Jim Rambin, a Louisiana chicken producer, had problems with rat damage to his wiring and water lines. He purchased waterproof Rataway Fragrance to use on hoses, wiring, tractors, trucks, plastic water line, etc. and has noticed a lot less damage.

Every night Larry Schultz sprays regular Rataway Fragrance under the hood of his car parked outside. "It's worth the preventative cost," he says, after he incurred expenses from damage by rabbits, which are prolific in his Windsor, Colo., subdivision.



Rataway Fragrance gets rid of the scent made by rodents and other animals as they mark their territory.

Suddes has heard testimonials from all over the world about how many kinds of animals stay away when customers use Rataway Fragrance on a regular basis, whether it's daily, weekly, semi-weekly or monthly. Suddes answers questions and provides application suggestions on his website.

Rataway Fragrance is concentrated and makes 1-gal. enough to spray 10 car engines four times. The regular version costs \$25 including shipping anywhere in the world. Waterproof Rataway Fragrance costs \$33 including shipping.

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Dave Hartman used hubs salvaged from an older garden tractor to turn his Deere 110 garden tractor into a "dually".

How To Add Duals To Your Garden Tractor

Nothing fancy is needed to turn your garden tractor into a "dually". Dave Hartman did it with a couple of hubs salvaged from older garden tractors. Simply bolted in place without welding, they're secure and stable.

"I've seen duals mounted with all-thread rod, and realized I could make something stronger," says Hartman. "When I bought new hubs for my 1972 Deere 110, I noticed that if you bolted two hubs together they looked like full-size tractor dual hubs."

Hartman picked up an extra set of hubs from a lawn and garden salvage yard and bolted them together with the set he had removed from his 110. He bolted the hubs together and used an impact wrench to secure them with a hub face at either end.

"I drilled out the holes on the extension hub face that would attach to the existing wheel and hub by one size," explains Hartman. "I then used lug bolts that were 1-in. longer than the originals. This let them pass through the extension hub, two washers and the tractor wheel and hub."

Once the extension was in place, adding a second wheel for realistic looking duals was easy. Hartman points out that while new hubs could also be used, salvaged hubs work fine. "They usually have worn out splines, but that has no effect on their use as spacers," he says.

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Powered can crusher is equipped with a couple of 15-in. high, 10-in. wide pickup tires, which run up against each other to crush cans.

Can Crusher Powered By 1/2 Hp Motor

Crushing aluminum cans and plastic bottles is quick and easy for Tom McRae, St. Walburg, Sask., who made a can compacting machine mostly out of spare parts.

The machine consists of a couple old 15-in. high, 10-in. wide pickup tires (with wheels and hubs) powered by a 1/2 hp electric motor and V-belt pulley. The motor belt-drives a jackshaft, which drives a flat pulley that rubs against one of the tires. The other tire turns freely. As a result, the two tires run up against each other, crushing the cans down to about 1/4-in. thick. The crushed cans are caught in

a container beneath the tires.

The wheels mount on top of a metal frame equipped with two small wheels so it can be moved around like a wheelbarrow. He mounted a metal container over the can crusher and feeds cans down through a small chute at the bottom.

"It's simple to make and costs very little to build," says McRae.

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