

FEATURES STAINLESS STEEL CONSTRUCTION AND GRAVITY-FLOW UNLOADING

Liquid Manure Spreader Made from Milk Tank

"It's virtually corrosion-proof," says Marcus Detring, Farmington, Mo., who's come up with a design for a liquid manure spreader made from a stainless steel milk tank. It uses gravity to unload and is designed so that all parts that come in contact with manure are made from non-corroding stainless steel.

Detring began working on the new spreader when he got fed up with maintenance required on the flail spreader he was using to haul manure out of his uncle's poultry houses. "The flails have to be replaced every 2½ years or so and the tank is almost completely corroded from contact with manure. This new spreader has no moving parts inside," says Detring.

It consists of a 2,000 gal. stainless steel milk tank mounted with a 4-in. rear-sloping grade on a wagon gear from an old spreader. The tank is filled through a manhole in the top and manure runs out a 12-in. square hole in the back that's fitted with a hydraulically-operated slide-gate. Manure flows out this hole and onto a

fan-type spreader, also made of stainless steel, and similar in design to a spreader on a dry fertilizer spreader. The spreader fan broadcasts the manure in a 40 to 50-ft. wide swath behind the spreader. The spreader fan spins at 1,500 rpm's and is pto-driven.

"It'll dump its load in 1/2 to 1/3 the time of our 1,500 gal. flail spreader using less fuel and causing less wear and tear to our tractor. It requires much less power than either a flail spreader or a vacuum spreader. When you begin spreading, you hardly notice the difference in power," says Detring.

The wagon gear is fitted with dual wheels in back. Detring pulls the spreader with an 85-hp. Deere 4020 tractor. He says that, when spreading the last 100 gal. or so, he tries to run up a slope to get all the manure to run out quickly. However, the spreader will empty completely on level ground due to the rearward slope of the tank.

Detring has begun building the spreaders on order and says the cost



Manure flows out 12 in. hole in rear and onto a fan-type, pto-driven spreader made of stainless steel.

depends on whether he uses an old or new milk tank, and whether used running gears are available.

For more information, contact:

FARM SHOW Followup, Marcus Detring, 109 W. 6th, Farmington, Mo. 63640 (ph 314 756-3119).

"YOU HAVE TO SEE IT TO BELIEVE IT"

Weed Trimmer Add-On Cuts Brush, Small Trees

When 84-year-old Walter Schnacke came up with an idea for a new brush-trimming head to fit hand-held weed trimmers, he set right to work evaluating the market and figuring out a way to manufacture it. Now, less than a year later, he has production units on the market and he's setting up a chain of dealers nationwide.

"You can't believe how well it works. It easily cuts through trees and brush up to 1 in. in dia., and it'll cut through larger stuff if you use it like a saw blade. And yet, if you accidentally hit your boot you won't get hurt because the blades are hinged and pivot back out of the way," the Evansville, Ind., native told FARM SHOW.

The body of the "Magic" brush cutter, as it's called, is cast aluminum. Two hardened-steel, blunt-edged blades are fastened to the sides of the cutter and stick out about an inch. The blades swing freely on their mounting studs. The brush cutter attaches to the head of any clockwise running power unit, such as the Weed Eater or Echo gas-powered engine trimmers. Schnacke says it should be used on a power unit with an automatic clutch and power in the range of 25 to 30 cc and larger. "We're making them to fit most of the popular makes on the market, including right and left-handed threads and metric and standard-threaded units. The guards on some units will have to be modified to adapt to our brush cut-



Brush cutter mounts with one bolt. Blades swing freely on mounting studs.

ter but, in most cases, this is a simple operation that can be done in a home workshop.

"Once installed, it'll cut through brush and tall weeds and, when used on weeds, you can go back over and quickly mulch them into the ground so that you can hardly see where you had been working."

The Magic brush cutter sells for \$35.

For more information, contact: FARM SHOW Followup, Walter Schnacke, Magic Brush Cutter Corp., P.O. Box 2127, Station D, Evansville, Ind. 47714 (ph 812 963-3960 or 812 477-1323).

NEW "COLORTUNE" LETS YOU SEE COMBUSTION PROCESS

See-Through Spark Plug Tunes Engines By Color

A new see-through spark plug developed in England lets you see inside your gas engines to see, by the color of the flame inside the cylinder, how well the timing, carburetor, and other components are adjusted.

The Colortune spark plug engineering system is being marketed in the U.S. by William J. Schneider of White Eagle Manufacturing, East Bernstadt, Ky. The plug provides a window into the engine that many expert mechanics with some of the world's largest auto companies have begun to use to fine tune some of their best engines.

"When an engine is burning lean, the flame color is white. When it's burning rich, the color is yellow. But, when it's precision-tuned, the engine has a 'propane' blue flame. You simply install the Colortune plug and adjust the engine until the combustion flame burns the right color of blue," explains Schneider.

Colortune is already being used by Chrysler, Honda, Toyota, Land Rover and many other automotive companies around the world. Some are simply using the device to fine tune engine work while others have made it a regular part of their maintenance program.

The Colortune kit consists of a plug, which fits into any sparkplug

hole when fitted with adapters, including cars, trucks, lawnmowers, outboards motors, and so on. A specially supplied lead is plugged in between the Colortune spark plug and the spark plug wire. The main body of the Colortune plug is transparent, allowing you to see into the cylinder. A viewing tube can be fitted over the plug, particularly during the day when it's very light, so that the flame can be more easily seen.

Once the plug is installed, the mechanic simply adjusts the fuel-air mixture on the carburetor, and adjusts the timing, until the flame matches up with the correct color, which is detailed on a chart supplied with the device. Those who have used it say it's possible to do an entire tuneup job with the plug, although its best use may be for trouble-shooting, or for fine-tuning the fuel-air mix when standard procedures don't get you running right.

The Colortune kit sells for \$39.95. Adapters for odd-size engines sell for an additional \$5.95 each.

For more information, contact: FARM SHOW Followup, William J. Schneider, White Eagle Manufacturing, Rt. 1, Box 279, East Bernstadt, Ky. 40729 (ph 606 843-6126).