

## Hydraulic-Powered Saw Blade Cuts Trees Fast

"It'll cut through an 18-in. dia. tree in just 6 seconds, faster than anything else on the market," says Lorry Marshall about his company's new hydraulic-powered tree cutter that's designed to mount on a skid steer loader.

What makes the new tree saw unique is that it consists of a toothed saw blade attached to a pair of hydraulic cylinders that slowly rotate the blade into a tree. "It uses power, not speed, to cut wood," says Marshall.

A hub fitted with sprockets bolts to one side of the blade. A length of chain goes around the hub and attaches at each end to a hydraulic cylinder. When one cylinder retracts, the other extends, turning the blade 1/2 turn. Because the hub is mounted to one side, the blade swings out and forward, slicing aggressively into a tree trunk. Half the teeth on the blade point in one direction and the other half point in the opposite direction. "Stabilizer" teeth across the front of the unit "bite" into the tree to hold it while the blade cuts. Because the blade rotates from side to side, it's always ready to cut - you don't have to retract it each time.

Once the tree is cut an A-frame guard causes it to fall to the side away from the cut. The A-frame guard and nose guard can be used together to push cut trees into piles.

"It works great for clearing pasture land and right of ways because it can cut almost any size or variety of tree and works fast," says Marshall. "You can cut 6 to 7 trees per minute or up to 400 trees per hour. It's designed to cut trees up to 30 in. in diameter, but we've even used it to cut some 48-in. dia. trees. There's practically no limit to the tree size because you can cut the tree from both sides.

"I built it because I found that the skid steer mounted tree shears on the market wouldn't cut bigger trees. Also, cutting cedar trees was a problem because the spreading branches blocked the operator's view of the trunk. With this unit I don't have to see the trunk. The saw's long reach makes it perfect for use on right of ways, ditches, and hard-to-reach limbs. The blade can be raised from ground level up to 17 ft. high. Because the blade is so far out in front you also feel safer using it. A shear is much heavier so it has to be

mounted closer to the loader, which limits its reach and also puts the tree a lot closer to the driver.

"Another advantage is that it can cut right at ground level without leaving stumps. A shear often leaves a stump because it can't cut all the way through the spreading base of the tree. Rocks and dirt are no problem for this unit either because the blade moves so slow. It greatly reduces the chance of flying debris and results in very little wear so the blade rarely needs sharpening.

"The unit can also be adapted for use on front-end loaders or 3-pt. hitches, although visibility and maneuverability would not be as good as with a skid steer."

Model 1600 with a 14 to 18-in. blade sells for \$6,995. Model 1214 with a choice of blades from 11 to 16 in. sells for \$6,250.

For more information, contact: FARM SHOW Followup, Marshall Mfg., Rt. 1, Box 51, Sargent, Neb. 68874 (ph 308 527-3860; ph/fax 4240).



Toothed saw blade is attached to a pair of hydraulic cylinders that rotate blade into tree. Half the teeth on blade point in one direction and the other half point in the opposite direction.

## "Bean Sweep" Gently Moves Pods Into Header

Low-hanging bean pods are gently lifted up and over the cutterbar by this new header attachment designed to reduce shatter loss.

The "Bean Sweep" consists of two parts - lifter bristles mounted on the sickle guards, and optional poly paddles that mount on the pickup reel. The stationary bristles lift low-hanging pods and guide them into the header and the paddles gently sweep them along.

The bristles slide onto guard tips and extend out about 2 1/2 in. To mount them you loosen the back bolt that holds the guard onto the cutterbar, then slide a clip under the bolt and retighten it.

The 4-in. wide paddles are shaped like an

inverted duck foot and have 3 points that extend down about 1/2 in. below the main body of the paddle.

Four lifters and eight paddles per foot of header are required. It takes about 4 hours to install a complete system on a 24-ft. header, says the company.

Although the system was developed for edible beans - some growers report up to a 40 percent reduction in shatter loss - the company says there has been interest from soybean growers as well.

A complete system sells for \$130 per foot, or \$105 per foot for the lifter bristles alone.

Contact: FARM SHOW Followup, Keho



"Bean Sweep" consists of two parts - lifter bristles mounted on the sickle guards and optional poly paddles that mount on pickup reel.

Products Ltd., Barons, Alberta, Canada (ph (U.S.); 800 661-8034 (Canada); E-mail: Linda@KehoProducts.com 403 757-2444; fax 3975 or 800 661-9419)

## Load Bed Extension Kit Doubles Capacity Of Bale Accumulator

Owners of Hoelscher's 1030 bale accumulator can now double their bale carrying capacity from two bales to four with a load bed extension kit from Bale Edge, L.L.C.

"It lets you group up to four bales in one place, making bale pickup a lot faster and eliminating extra trips across the field. Fewer trips across the field reduces soil compaction and crop damage," says company representative Phil Spaniol.

Hoelscher's 1030 bale accumulator is pulled directly behind mid-size balers like the Case-IH 8575, Hesston 4755, Deere 100, New Holland 590, or the Claas Quadrant 1100 baler. It'll handle bales up to 31 1/2 in. sq. and 8 ft., 2 in. long.

The Bale Edge extension kit consists of two tables that attach to each side of the bale accumulator's load bed. The two turned-up narrow tables from the original bale accumulator are simply detached from the load bed and reattached to the outer edges of the new tables. For transport or storage, the add-on tables fold up vertically.

The original push bar on the bale accumulator simply pushes the extra bales over to the extension tables. To unload, the add-on wings tip up with the center table to dump all four bales at once.

Spaniol says the expansion kit is designed so owners can install it themselves. It has



been tested under a variety of conditions before going into production. Prices were being finalized as this issue went to press.

Contact: FARM SHOW Followup, Bale Edge, L.L.C., 31578 North 550 East Road, Streator, Ill. 61364 (ph 815 673-3647).

## Shop-Built Mower Built From Trencher, Backhoe

"I've got 10 1/2 miles of roadbanks to mow so I needed a big mower to get the job done quick," says B.L. "Butch" Uhnken, who built a heavy-duty mower out of an assortment of parts, including a Grizzly trencher and backhoe.

The Jacksonville, Ill., farmer bought a Grizzly chassis when the company went out of business a few years ago.

Uhnken used only the front and rear axles of the 4-WD Grizzly, which was equipped with a chain digger on one end and a backhoe on the other, and built a new, shorter 4-ft. sq. frame out of 2 in. sq. tubing. He retained the big 31.5 by 15.5-in. tires off the Grizzly to use on his mower.

He powered the mower with a 121 cu. in., 30 hp Isuzu diesel engine out of a Thermo King refrigeration van.

A Sundstrand hydrostatic motor out of a Massey Ferguson 875 windrower drives the wheels. The input end of the hydrostat requires 3,500 rpm's so Uhnken attached a small, 12-tooth driver gear and a jack shaft with a large, 82-tooth sprocket to one end of the shaft to achieve the proper 13.2 to 1 gear reduction. A 16-tooth sprocket attached to the other end of the shaft drives the ring gear and pinion of the pto-shaft Uhnken made for the front of the machine to drive the mower. The pto shaft is powered with a small, 13 gpm pump off an old Deere combine.

The height of the 6-ft. Woods mower deck



Home-built mower is powered by a Sundstrand hydrostatic motor for easy maneuverability around trees, buildings.



can be adjusted hydraulically. He can raise it to a vertical position to sharpen the blades.

The machine features power steering provided by a Char Lynn system salvaged from a blacktop road spreader and a steering wheel out of an old dune buggy.

"It works great and cost only \$800 to build," Uhnken says.

Contact: FARM SHOW Followup, B.L. "Butch" Uhnken, 25 Westfair, Jacksonville, Ill. 62650 (ph 217 245-4359).