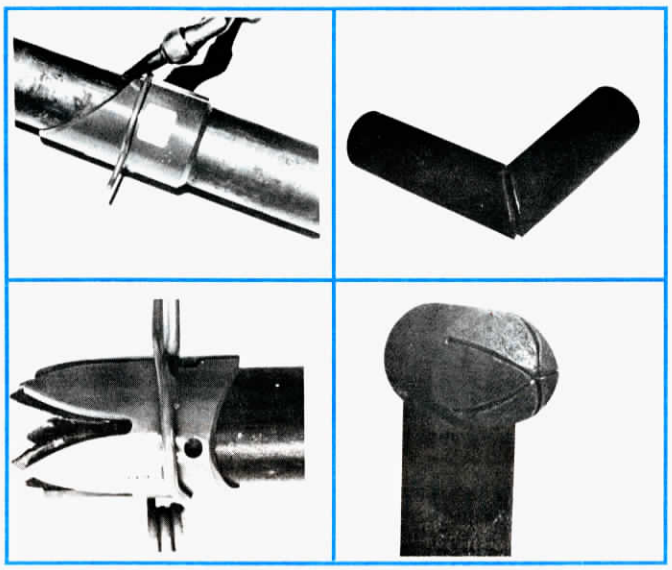


TO MAKE PROFESSIONAL-LOOKING ORANGE PEEL, SADDLE, 45° AND 90° CUTS

Handy New Pipe Welding Guides

"They turn a novice into an expert," says James Huckaby, Tatum, N. M., inventor of the new "Shur-Kut" guides, for making professional-looking cuts when welding pipe.

Instead of spending a lot of time marking and cutting special patterns, you just clamp a Shur-Kut guide onto the pipe and cut around it with a torch to create perfect orange peel, saddle, combination saddle, 45° and 90° cuts.

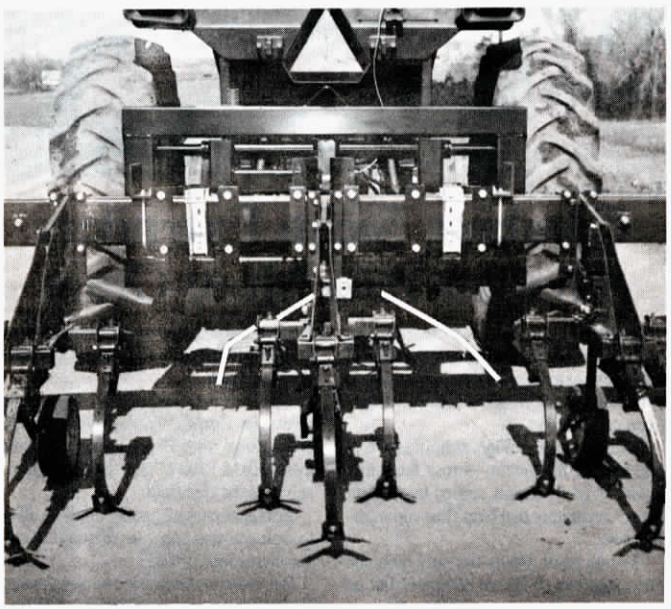
The all-steel guides fit 1 1/2, 2, 2 1/2, 3 and 4-in. pipe sizes and have a beveled edge that you follow with the tip of the torch to make the cut. Individual self-aligning guides are spring-loaded to hold their position on the pipe.

"Farmers and ranchers will find the patterns work great for making special cuts on structural tubing or metal pipe that they're using to build pens, corrals and other items," says Huckaby. "They help save air, acetylene and material by reducing waste and eliminating poor cuts. Plus, you don't get slag on the pipe."

Individual guides either have the orange peel and saddle, 45° and 90° or combination saddle patterns. The combination saddle guide allows you to make cuts on different size pipe. For example, the 2-in. "combination guide" has two patterns. On one end, you can saddle 2-in. pipe to fit 2 1/2 in pipe; on the other end, you can saddle 2-in. pipe to fit 3-in. pipe.

Prices range from $29.95 each for guides to fit 1 1/2 in. pipe, to $54.95 each for guides to fit 4-in. dia. pipe.

For more information, contact: FARM SHOW Followup, Shur-Kut Inc., P.O. Box 367, Tatum, N.M. 88267 (ph toll free 800 367-1845, or 505 398-5811).



Wishbone-shaped wands (outlined in white) sense position of plants in row by brushing up against them.

Four-bladed vacuum fan in center is fitted with low-lying shaker arms which brush against two adjacent male corn rows (with tassels).

SUCKS POLLEN FROM MALE ROWS AND BLOWS IT TO FEMALE ROWS

"Pollen-Aider" Gives Nature A Helping Hand

An Illinois inventor is out to fool Mother Nature with his new automatic pollination machine.

"We've had yield increases of up to 6 bu. per acre," says Dean Meador, a seed corn grower who farms near Lanark, Ill. His Pollen-Aider machine sucks pollen from male rows of corn and blows it to female rows. He got the idea from watching other growers use airplane propellers to try to improve pollination.

The machine consists of a large vacuum fan at center, fitted with low-lying shaker arms which brush against two male rows of corn. The machine sucks up whatever pollen comes loose and distributes it out along a blower pipe to three female rows on either side of the vacuum fan. Four drop pipes hang down on either side of the female rows. Pollen blows out the drop pipes, striking "difuser" plates that direct pollen toward the female ears.

"It provides an even distribution of pollen. All rows get the same treatment. When pollination is left up to nature, the middle rows usually yield lower," says Meador.

The 4-bladed vacuum fan is hydraulically powered and runs at two speeds. Meador mounts the Pollen-Aider on a Hagie Hi-Boy. He recommends two trips through fields to pollinate. The first time when pollen first falls, and the second 2 to 3 days later.

Meador plans to market the machine to other seed corn growers and seed corn companies for around $6,500.

For more information, contact: FARM SHOW Followup, Dean Meador, Box 94, Lanark, Ill. 61046 (ph 815 493-2690 or 493-6515).

QUICK-COUPLER FRAME SHIFTS BACK AND FORTH AUTOMATICALLY

First-Of-Its-Kind 3-Pt. Guidance System

"It's the simplest, most effective automatic guidance system ever," says Randy Rink, HR Manufacturing who's developed a one-of-a-kind 3-pt. guidance system that "reads" the row to shift cultivators, or any other quick-coupled equipment, back and forth automatically.

The "Navigator" system uses a wishbone-shaped wand to sense the position of plants in the row by actually brushing up against the stalks. It sends an electronic signal to a control box which activates a pair of hydraulic valves that shift the quick coupler frame right or left as needed using a single 14-in. cylinder. The guidance system, which includes the quick coupler, mounts on any tractor 3-pt.

One of the big advantages of the system, according to Rink, is that you don't need to make a marking furrow while planting as with other guidance sytems. When cultivating, the wands read directly from plants in the row. However, in some situations, such as on ridges, you may want to make a furrow while planting and "read" it by running a wand down through the furrow rather than against the crop. Rink says you can also replace the wands with a set of angled wheels and run them along the top of the ridge to keep equipment in line.

"This system virtually eliminates cultivator wipe-outs, reduces the amount of herbicide needed when banding due to increased accuracy, and reduces operator fatigue on sidehills or ridges," Rink told FARM SHOW, noting that the guidance system has been tested successfully in corn as small as 4 to 5 in. tall and in 3-in. beans.

The company plans to market the guidance system on a limited basis this year and go into full production next season. It's expected to sell for $2,500 to $3,000.

For more information, contact: FARM SHOW Followup, HR Manufacturing, Co., Rt. 1, Box 71, Pender, Neb. 68047 (ph 402 385-3220).