

COMBINATION SUBSOILER AND AERATOR

Vibrating Subsoiler Shatters The Soil

Just introduced into Canada and slated for introduction into the U.S. in the next few months is the Cracker Jack, a pto-driven vibrating subsoiler for draining potholes, or loosening up hard-pan and other problem soil conditions.

"It's available in a single or double shank model. A pto-driven vertical blade mounted directly in front of the main chisel moves up and down at the rate of about 250 2-in. strokes per minute. This blade is also tied to the front shoe of the chisel, causing the front point to move up and down at the same rate of 250 strokes per minute. "The idea is to lift the soil on each stroke, causing it to break and shatter for increased water penetration, and for easier penetration of the soil by plant roots. It serves as a combination subsoiler and aerator," explains Franz Greisbach, president of Greisbach Machinery Ltd., 202 Bleams Road East, New Hamburg, Ont., Canada NOB 2G0.

Greisbach notes that 95% of the power requirement is supplied by the pto, which allows a relatively small tractor (80 hp.) to handle the single blade subsoiler.

On the double blade unit, the shanks are 60 in. apart, with the pto shaft and gear box located in the center. On the single blade unit, the pto drive and gear box are set off to one side. "This poses more wear on the pto shaft since it runs on an angle rather than straight back from the tractor," explains Greisbach. "How-



Front shoe, and vertical shaft hooked to it, moves up and down at rate of 250 2 in. strokes per min.

ever, the same gear box and pto shaft used with the twin blade unit are used on the single blade model. Thus, the shaft and gear box are overbuilt to compensate for the skewed alignment," he explains.

The manufacturer recommends operating the blade 3 ft. deep. Soil being worked should be relatively dry, allowing it to crack and crumble.

Suggested retail cost for units just introduced into Canada is right at \$2,800 for the single blade model, and \$5,900 for the twin blade vibrating subsoiler.

For more details, contact: FARM SHOW Followup, Brenig, K.U.J. Breng, Friesdorfer Strasse 155, 53 Bonn-Bad Godesberg, Germany.

BENDS PIPE INTO COMPLETE SQUARE

New Pipe Bender

New from Ireland for farmers who fabricate equipment in their farm shops, or for smaller manufacturers, is a pipe bender.

It features a moving frame and a static former, which allows it to bend complete squares. The machine handles pipe from 1/8 to 2 in. in dia. and is equipped with specially designed formers which hold the pipe in position while bending, then allow it to be quickly and easily withdrawn afterwards.

Another key feature is an adjustable stop which, when operated by the forward/reverse control valve, cuts off the oil flow, thus enabling the motor to run continuously without subjecting it to heavy stopping and starting loads.

Suggested retail, fob, is right at \$2,000, including a set of dies (1/8 to 2 in.) and the self contained motor and hydraulic system.



Garvagh bender handles pipe from 1/8 to 2 in. in dia.



Bodmin Nu-Pulse milker uses .8 cu. ft. of air per min., versus 10 cu. ft. for conventional milkers. Note the "one hose" hookup. Retail for \$314 per unit, including the washer.

REQUIRES ONLY A "ONE HOSE" HOOKUP

Dairymen Like New-Style Milker

"Owners we checked with felt that it was definitely a factor in holding down mastitis. This, plus its comparatively low price tag and a few other exclusive advantages over conventional milkers, prompted us to try this new-style milker," says Roman Stoltzfoos, of Lancaster, who with his dad, Samuel, bought one of the first Bodmin Nu-Pulse milker systems sold in Pennsylvania.

After using it six months, a mastitis checkup of the Stoltzfoos herd of 70 cows turned up only 4 animals which required treatment, and 2 of them were borderline, Roman told FARM SHOW.

Roman was so impressed with its performance after only six months that he took on a dealership. You'll be hearing a lot about this new-style milker, developed in New Zealand, in the month's ahead. It's unique in that it uses only one hose (no vacuum pulsation line is needed).

Here, according to a spokesman for the Schlueter Co., Janesville, Wis., national distributor, is how the new Bodmin Nu-Pulse system works.

"Part of the success of the system is based on the idea of a separate pulsator for each unit so that each cow, as she is milked, has her own indi-

vidual pulsator. The Bodmin design gives a new type of pulsation that equalizes the vacuum on both sides of the liner. This means that the sphincter muscle is stretched 20% less than with conventional milking systems, thus reducing the possibility of infection and the incidence of mastitis."

Other advantages cited for the system include:

It adapts to all milking systems; it can reduce pipeline installation cost by 30% (eliminates all electrical pulsation controllers, pulsators, and stall cocks, and eliminates the installation of separate vacuum lines); pipeline operation cost is reduced by "at least 70%". This saving stems in part from eliminating electrical maintenance, and getting a guaranteed 5,000 cow milkings per set of rubber inflations.

In some stanchion or tiestall systems, the pipeline for the new-style milker, which requires only a "one hose" hookup, has been built right into the front stall concrete curbing, thus eliminating any overhead pipes.

For more details, contact: FARM SHOW Followup, Schlueter Co., Box 548, Janesville, Wis. 53545 (ph. 608-756-1266).



In this installation, the single line supplying the new-style milker was imbedded into the front curbing of the stanchions, thus eliminating any overhead pipes. Photo shows quick connect coupling at each stall.