

A sonar sending device at each end of the boom raises or lowers either side automatically even on the most uneven ground.

BOOMS STAY PARALLEL TO GROUND REGARDLESS OF THE TERRAIN

“Sonic Boom” Sprayer First Of Its Kind

By Mark Newhall
Managing Editor

You've never seen anything like this new Sonic Boom sprayer that uses radar to level its booms.

In between crowds at a recent farm show, manufacturer Dennis McHugh, of Micro Marketing, Sioux Rapids, Iowa, told FARM SHOW that interest in the new product, which was just developed last fall, has been tremendous. Major manufacturers, he says, are lining up to outfit their sprayers with the unique new leveling system.

"It eliminates most of the problems associated with sprayer booms by letting you run sprayers at the optimum height above the ground regardless of the terrain. Each side of the boom is self-leveling so one side can go up while the other goes down," he says.

The standard Sonic sprayer consists of a specially constructed 40-ft. boom with sonar sending device at either end and a control unit on the rigid center section. Each sonar unit is set individually at the desired distance from the ground. Once activated, the sonar unit bounces a sound wave off the ground. If the boom gets too far from the ground, the device signals to the central control unit which activates a hydraulic cylinder,

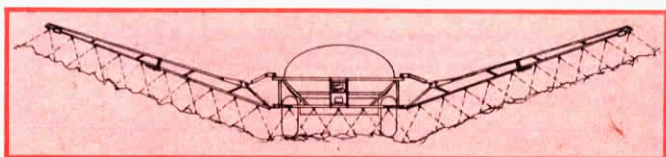
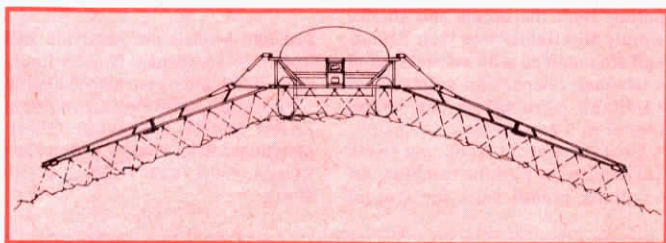
raising or lowering the boom as needed.

The sprayer boom adjusts itself from 26 in. below the horizontal to 70 in. above it, which lets you run your boom at the heights recommended by sprayer tip manufacturers even under the most rugged conditions. "Uniform height application will improve the performance of your chemical program and help eliminate most drift and banding problems. And, with the ability to move one boom wing up and the other down at the same time, all you have to do in tight spots is concentrate on driving," points out McHugh.

The new controls are not designed to retrofit to your existing boom because of structural demands on the constantly moving boom wings. McHugh says several companies will be adding the Sonic Boom to their sprayer line including Century, Broyhill and Walsh. The sprayer, as offered by Micro Marketing, comes in 40 or 48 ft. widths, and mounts on either a tractor 3-pt., or on existing sprayer trailers.

A 40-ft. Sonic Boom with complete controls sells for \$2,995.

For more information, contact: FARM SHOW Followup, Micro Marketing Ltd., Box 280, Sioux Rapids, Iowa 50585 (ph 712 283 2575).



Major manufacturers are lining up to equip their sprayers with the new Sonic Boom. As shown in the above drawings, the boom stays at the optimum application height, adjusting instantly to varying ground conditions.



New structure holds up to 1,000,000 bu. and was built at a cost of just 60 cents a bu.

UNIQUE “HALF CIRCLE” WALL SECTIONS CURVE INWARD

New-Style Grain Silo Lowers Storage Costs

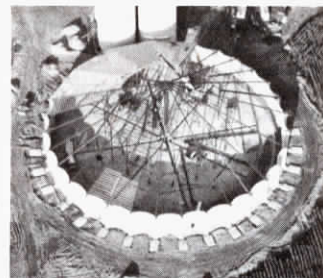
"It's the first of its kind — a breakthrough in high-capacity, lower cost grain storage," says Glen White of Glen White Industries, Aylmer, Ontario, one of the designers of a unique 1,000,000 bu. flat silo in Melbourne, Ont., that features a "half circle" wall panel design that lowered building costs by about two-thirds.

The new-style grain silo, built for Maple Leaf Mills, is 70 ft. high at its center and 216 ft. across. The sides are 22 ft. high, made up of curved panels 20 ft. wide with an 18-ft. radius.

"The advantage of curved panels, which curve inward, is that each stands independently. The inward curve diverts most of the weight of the grain to the ground. The panels are supported by jack braces and individual panels could be replaced without damaging the rest of the structure," White told FARM SHOW.

The silo's pyramiding roof is also unique. It's constructed in 16 segments with a steel frame and wood purlins. A layer of plywood, which acts as a condensation barrier, is covered by shingles. Eight fans blow into the structure through eight aeration tunnels that meet in the center of the building. White notes that this provides the highest level of aeration where the concentration of grain and fines is the highest.

White says a conventional concrete



Each "half circle" wall panel stands independently, diverting pressure from the grain to the ground.

grain silo of comparable capacity would have cost from \$1.25 to \$1.50 per bu., while the Melbourne facility cost right at 60 cents a bu., including aeration. Without aeration, White says the structure could have been built for less than 50 cents a bu. He notes that the basic design concept can be adapted to varying size structures.

The concrete side panels, each weighing 27 tons, were poured on site with the joint construction aid of local contractor Verne Hathaway and Sons. The entire project was completed within a six week period.

For more information, contact: FARM SHOW Followup, Glen White Industries, Rt. 5, Aylmer, Ontario, N5H 2R4 Canada (ph 519 765-2244).