

## PNEUMATIC GRAIN HANDLING SYSTEM

# Fast Way to Fill Grain Bins, Silos



Airhand itself only has two major parts, and only seven moving parts. It works off 1,000 or 540 rpm drives. Grain is augered into the airstream at the junction of the two pipes and "floats" to its destination on a cushion of air with very little kernel damage.

"It'll do everything a bucket elevator will do — plus it has the added advantage of being portable," says Bill Fritz, president of Middle State Manufacturing, manufacturer of the Airhand, a pneumatic grain handling system designed for low-cost loading of grain bins, and silos up to 100 ft. or more high.

The Airhand "floats" granular or kernalized grain of varied moisture content (from 12 to 30% or more moisture) on a cushion of air, with minimum damage. "There's less than 1% kernel breakage in most cases, compared with 95% or more where a regular silo blower is used," Fritz, inventor of the new system points out. "The Airhand's ability to preserve the integrity of the kernel is especially important when storing high-moisture corn and other grain in either conventional or oxygen-limiting structures."

Capacity of the Airhand, powered by a 100 hp tractor, is about 2,000 bu. per hr. using 12 in. pipe, and 1,000 bu. using 9 in. pipe and a 60 hp tractor.

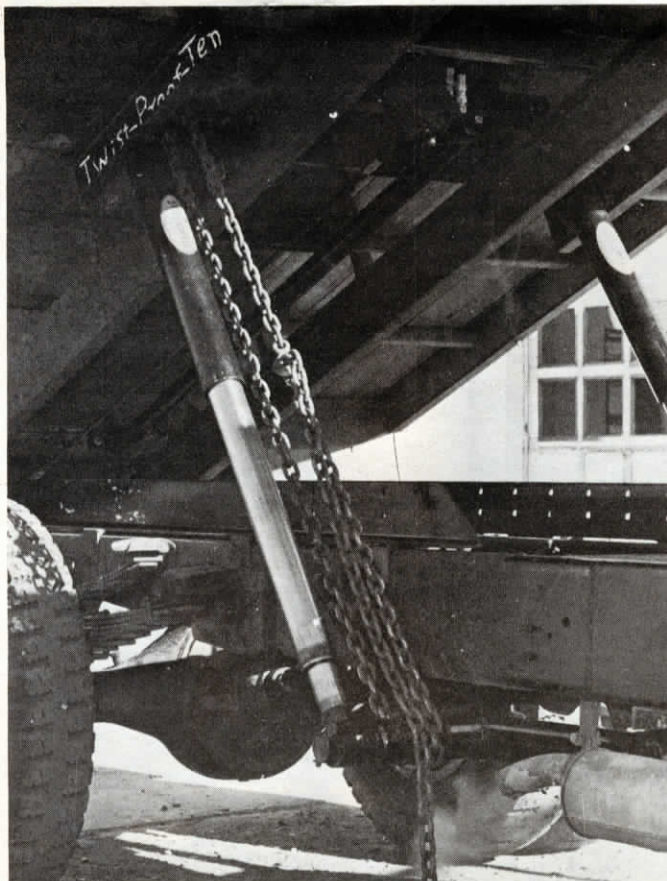
Quick-tach valves are available for easy hookup of the Airhand to permanently-attached filler pipes on individual silos, allowing the portable unit to be moved from one silo to the next in a matter of minutes.

The Airhand can also be used in bucket-elevator fashion to serve a cluster of grain bins. Such an installation, according to Fritz, would require a vertical support structure for an overhead cyclone unit to remove grain from the air stream, and a distributor head directly below it to spout grain to individual bins in the cluster.

If the pipe should plug, a switch automatically shuts off the auger feeding grain into the Airhand. "In most cases, simply revving up the blower is enough to blow out the slug," says Fritz.

Cost of the 9 in. Airhand (1,000 bu. per hr.) is right at \$2,800.

For more details, contact: FARM SHOW Followup: Bill Fritz, Pres., Middle State Mfg., Box 788, Columbus, Neb. 68601 (ph. 402 564-1411).



Stockwell chains one side, then raises the box as far as it will go, to demonstrate difference between his "twist proof" hoist and conventional hoists. Do-it-yourself kits available for most straight trucks with 12 to 20 ft. boxes.

## PASSES THE "CHAIN" TEST

# Twist-Proof Truck Hoist

"You can actually chain either side down at any level, then apply full lifting power without twisting or damaging the body," says Orville Stockwell, inventor and manufacturer of a new twist-proof truck hoist called the TPT system.

The patented hydraulic system is self-correcting for twist both when raising and lowering. "It differs from conventional telescoping hoists in that it prevents twist without use of a split pump, proportioner, flow meter, balancer or other devices, none of which provide the rigidity and reliability of the TPT system," says Stockwell.

The "chain test" he uses to demonstrate the twist-proof capability of his hoist would probably damage most conventional truck hoists. "We tell owners of our twist-proof hoist to chain one side, then hit the lever to raise the box as fast and far as it will go. Any owner of our twist-proof hoist who'll show this chain test to three other truck owners gets a free log

chain worth about \$30," says Stockwell.

The TPT system is available both for side-dump truck hoists, such as those commonly used for sugar beets, and for rear-dump telescoping hoists.

All bolts and fittings, together with do-it-yourself instructions, are packaged with each unit, Stockwell points out.

Three rear-dump models of the twist-proof hoist are available to fit standard trucks (simple or tandem axle) with bodies ranging from 12 to 20 ft. long. A 20,000 lb. hoist (actual payload capacity) for a 16 ft. box sells for \$995, FOB the factory. A 30,000 lb. hoist sells for \$1,250 and a 34,000 lb. model for \$1,380. All models come with special steel sleeves to add strength to the rear truck frame.

For more details, contact: FARM SHOW Followup, Orville Stockwell; Stockwell Mfg.; 536 Ave. S.; Greybull, Wyo. 82426 (ph. 307 765-4711).