

WORKS TWICE AS FAST AS CONVENTIONAL OPENERS TO MINIMIZE HEAT LOSS

Air Powered Door Opener

"It'll open and shut an overhead door twice in the time it takes a door with an ordinary electric opener to open once," says Lloyd Hedrick, of Hedrick, Iowa, inventor of a new air-powered overhead door opener that will shoot open a 16-ft. high overhead door in only 3 to 4 sec.

"The energy savings are terrific with this door. In winter, you lose only a fraction of the hot air lost with a conventional door opener. And, you don't waste time standing around watching a door open. Just flip the switch and go through," he explains.

The new-style door opener can be installed on new or existing overhead doors with torsion spring action. Here's how it works:

A sprocket is fitted to one end of the torsion spring and a drive chain run between the sprocket and two air-powered cylinders mounted on the wall. A piston from each cylinder is attached to either side of the chain. When activated, air shoots the piston out of one cylinder, pulling up the chain, turning the sprocket and raising or lowering the door. When the other cylinder is activated, it pulls the chain in the other direction, forc-

ing the first piston back into its cylinder and moving the door in the opposite direction.

Length of the air cylinders varies with the height of the doors, but they are always half as long as the door is high. For example, a 12-ft. high door needs 6-ft. cylinders, and a 14-ft. door needs 7-ft. cylinders.

The opener works on overhead doors of any width from 8 to 16 ft. high, but only on those with torsion spring action. It operates off 40 to 120 lbs. of pressure, depending on weight of the door and how fast you want it to open. Hedrick says most any small portable air compressor will keep the opener charged with air. A 10-gal. tank of air will open and close the door 20 to 25 times without repressurizing.

"Until you've seen this opener work, it's hard to believe how revolutionary it is," says Hedrick. "It opens and shuts in a flash, yet you can easily stop it with your hand if you ever accidentally close it on yourself or machinery. The two cylinders are balanced on cushions of air which cushion the movement of the door. If electrical power went off and you couldn't run the air compressor, you



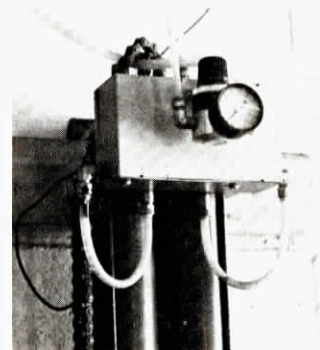
Air-powered opener works on any new or existing overhead door with torsion spring action.

could open the door just as easily by hand as you could without the air system attached. With the air pressure turned on, however, the door is locked to the floor."

The air-powered opener is easily installed by do-it-yourselfers, according to Hedrick. It consists of the drive sprocket and chain, two air cylinders and the control box. Optional radio remote control is available, as well as air compressors, if needed.

Cost of the door opener is \$300 to \$600, depending on door size.

For more information, contact: FARM SHOW Followup, Lloyd Hedrick, Sr., Hedrick Manufacturing, Box 100, Hedrick, Iowa 52563 (ph 515 653-2123).



Ram on one cylinder extends upward to lift door. Ram on other cylinder extends downward to pull door closed.

DUMPS ENTIRE LOAD IN SECONDS

New "Do Everything" Wagon Hauls Grain, Manure

You can haul 500 bu. of grain or up to 13½ tons of manure, sand, gravel or silage in the new "do everything" Utility Spreader from Scranton Manufacturing, Scranton Iowa. The first of its kind gravity flow wagon is equipped with a huge hydraulically operated 5-ft. by 10-ft. bottom opening which dumps the entire load in seconds.

Two hydraulically operated sliding doors, each 5 ft. square, control size of the opening. They can be cracked open for even, light spreading, or opened all the way for a quick dump. Four 2-in. by 60-in. hydraulic cylinders provide the power.

"We think it's the perfect answer for the large farmer who has a lot of manure and wants to spread it fast, or for the smaller farmer who needs a manure spreader and a grain wagon but doesn't feel he can justify owning both," says David Humburg, Scranton sales representative.

Simplicity is the wagon's biggest selling point, according to Humburg, who points out that the only parts that can malfunction are the four hydraulic cylinders which are easily replaced. The wheels and the fifth-wheel steering axle up front are the only other moving parts.

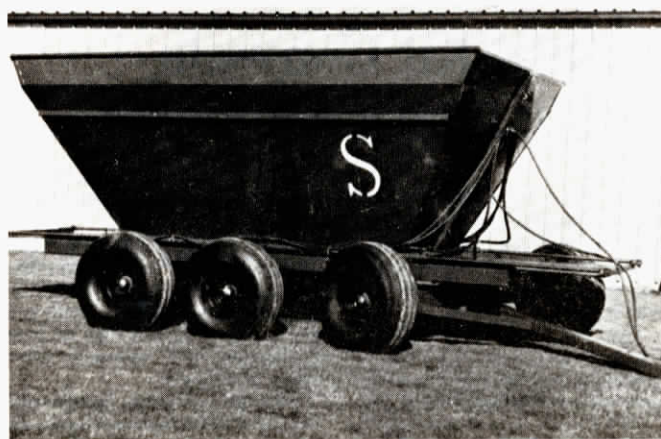
The wagon measures 16 ft. long by 10 ft. wide at the top and slopes at a 60° pitch to the 5-ft. by 10-ft. bottom opening. The wagon stands tall — about 9 ft., 2 in. off the ground — and is made from 10 ga. steel in the body, with a heavy reinforced sliding bottom frame.

Although the bottom door is not completely water tight, Humburg says farmers who purchased the first wagons "have hauled some pretty soupy manure without leaks."

What about spreading manure with frozen chunks in it, or bulky manure mixed with bedding?

"We were concerned with that during testing but found that although manure with bedding, for example, must be spread thicker than with a conventional spreader, it still spreads evenly because of the great downward pressure inside the wagon. Also, the wagon has good visibility on the go. You can see if a frozen chunk catches in the door and dump it out without stopping by widening the door."

The sliding bottom doors are operated from the tractor seat with normal tractor hydraulic controls. Auxiliary hydraulic power systems are available for using the wagon behind a pic-



Two hydraulically-operated bottom doors create 5 by 10 ft. opening when opened to their maximum width for dumping entire load in seconds.

kup or truck. It does not have brakes.

The wagon has six 40-in. dia. floatation tires, with a tandem axle in the back. Total clearance under the wagon is about 17 in. which, as Humburg points out, "allows room underneath for a take away auger when unloading grain."

The wagon retails for \$5,600. "You

could spend up to \$10,000 for a manure spreader with this much capacity and only be able to spread manure with it," Humburg points out.

For more information, contact: FARM SHOW Followup, Scranton Manufacturing Inc., Scranton, Iowa 51462 (ph toll free 800 831-1858. In Iowa, call 800 522-1958).