



"HydroSwing" is a one-piece overhead door that closes flush to building. Wind-resistant seal makes it maintenance-free.

"OPENS AND CLOSES TWO TO THREE TIMES FASTER THAN A BIFOLD DOOR"

**"Straight Out" Door
"Better Than Bifolds"**

"Our new hydraulic-driven overhead door opens and closes two to three times faster than a bifold door. It closes flush to the building with a tight, wind-resistant seal that makes it maintenance-free," says Doug Kerkvliet, Cottonwood Welding & Machine, Cottonwood, Minn.

The "HydroSwing" is a one-piece overhead door mounted inside a steel frame that you bolt or weld to the wall of the building. The door is opened or closed by a pair of hydraulic cylinders powered by an electric motor and pump. The top of the door mounts on a steel rod hinge. A 3-position hydraulic valve controls door direction, and a check valve locks the door in place.

"It offers a number of advantages over conventional bifold doors," says Kerkvliet. "The biggest problem with bifold doors is that they're slow and have a lot of moving parts that can wear out. Our door has no moving parts except for the hinge pin, which makes only a 1/4 turn. There are no rollers, springs, cables, pulleys, or tracks to wear out. The door takes only about 35 seconds to open and 30 seconds to close. The fast cycle time allows less heat to escape which can result in big energy savings. If you don't need a full opening you can stop the door in any position which reduces the cycle time even more. Once the door is closed the cylinders hold it

tight against the frame, which allows it to withstand winds up to 90 mph. There's nothing to latch.

"Most bifold doors close against the exterior of the building, leaving joints that are exposed to the elements, whereas our door closes flush into the building wall - only the frame is exposed. The cylinders that open and close the door are connected to the frame so all the load and stress is against the frame, not the building. There's no need to reinforce the building at all. A truss keeps the bottom of the door rigid, and a Teflon seal keeps it sealed tight against the floor. When this door is closed, even a mouse can't get through it.

"The cylinders are designed with built-in orifices to keep the door from closing too rapidly in the event of a hydraulic failure. Hydraulic couplers (optional) can be added, allowing you to use your tractor's remote outlets to open the door during a power outage or in remote locations where power isn't readily available.

"The door can be filled with up to 4 in. of insulation. We can custom build doors up to 65 ft. long and 18 ft. high. An 18-ft. high, 40-ft. wide door will accommodate a 30-ft. combine head," notes Kerkvliet.

Contact: FARM SHOW Followup, Cottonwood Welding & Machine, Box 15, Cottonwood, Minn. 56229 (ph 507 423-6666).

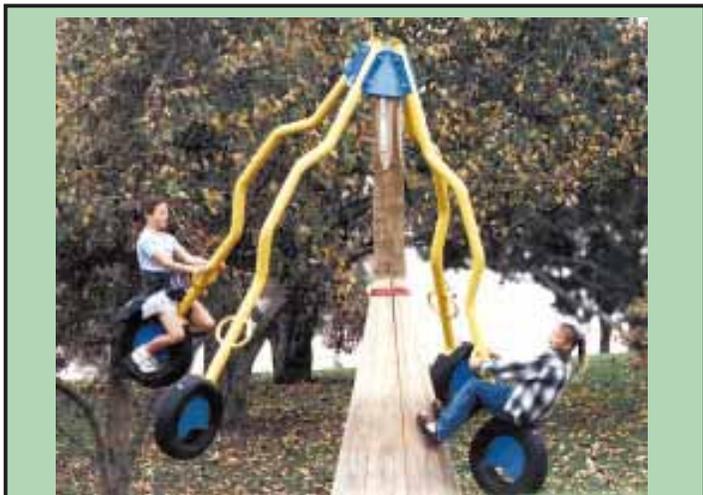


Photo Courtesy New Zealand Herald

Kids Love New Playground Ride

This one-of-a-kind piece of playground equipment was recently installed at a park in the New Zealand city of Pakuranga. Called a Roktopus, it's the creation of Wellington, New Zealand inventor Theo Jacques. Jacques, a physics teacher and part-time inventor, created the contraption after he got tired of taking his children to playgrounds full of the same old swing-and-slide equipment. It consists of four arms suspended from a single pivot point that hangs from the top of a post. Kids sit on rubber tires that bounce off a slanted housing at the base of the pole. They push off with their feet to move straight out or around the pole.



"Recutter" mounts underneath and behind Mosby's 30-ft. New Holland 971 header.

BOOSTS COMBINE CAPACITY BY 50 PERCENT

**"Recutter" Chops
Stubble Down To Size**

"Increasing cutting height to put less crop material through the combine boosts capacity about 50 percent," says Ewen Mosby who designed and built a "recutter" bar that mounts underneath his combine header to cut remaining stubble to a manageable height.

The recutter allows the Hartney, Manitoba, farmer to raise his header to increase field speed without leaving the stubble so tall it requires a separate trip through the field to chop it down.

Tested for five years on more than 5,000 acres of cereal grains and flax, the Mosby Recutter consists of a 30-ft. shop-built cutterbar fitted with a commercial knife and guards. It mounts on a frame built from rectangular tubing under the back edge of Mosby's 30-ft. New Holland 971 header. A wobble box on the right side of the header is belt-driven off an extra pulley added to the existing header drive. The recutter mounting brackets pivot back and forth so height can be adjusted.

Mosby runs the header high enough to remove the grain heads and the first few inches of stubble. He sets the recutter to cut stubble down to about 9 in. high, which is ideal for tillage operations after harvest, he



Mosby cuts stubble down to about 9 in. notes. Longer straw plugs tillage equipment and leaves the soil surface too rough for planting, he says.

When not in use, the recutter can be pivoted up out of the way so the header can be set flat on the ground, if necessary.

Originally designed for New Holland headers, the system is currently being adapted to fit most other makes of headers as well.

Mosby is looking for a manufacturer. He says the recutter should sell for about \$11,000 (Canadian).

Contact: FARM SHOW Followup, Ewen Mosby, Box 336, Hartney, Manitoba, Canada R0M 0X0 (ph 204 858-2347).

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