

“Pave and plant” rig rolls fields and plants in a single pass. Planter units mount behind 24-in. dia. rollers, creating a tabletop-smooth surface for planting.



“I mounted an IH Cyclone box on top of each roller, with their drive wheels running on the rollers,” says inventor Brian Hoogstraat.

First-Of-Its-Kind “Pave And Plant” Row Crop Planter

This past winter Brian Hoogstraat built an entirely new planter that rolls his fields and plants in a single pass. His “pave and plant” rig, as he calls it, creates a tabletop smooth surface for planting. The 24 planter units on 22-in. spacings mount behind the rollers.

“I mounted an IH cyclone box on top of each roller with their drive wheels running

on the rollers,” says Hoogstraat.

Hoogstraat has been collecting parts from old planters over the years. He used the design of an 8-row IH 800 planter with its pivot transport in his frame design. In fact, his Pave and Plant works like 3 IH 800’s, two of which pivot.

He started out by building a 3-section frame out of 7 by 7-in. square tubing salvaged from old planter frames. The frame supports both the rollers and planter units.

“I built the rollers out of 1/2-in. thick, 24-in. dia. oil well pipe,” says Hoogstraat. “The center roller is 12 1/2 ft. long, and the two wings are each 16 ft. long.”

He capped the rollers with 1/2-in. steel plate and mounted them in the frame with 3-in. shafts and roller bearings. The center roller is positioned to ride just behind and slightly overlap the wings.

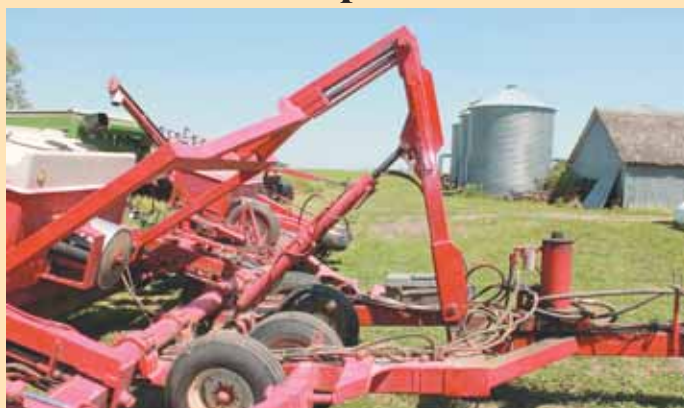
The planter units ride behind the rollers. When hydraulic lift is applied at the headlands, the center roller tips forward, lifting off the ground. This also raises the planter units and disengages the planter drive. If lift continues, all 3 roller sections tip forward, eventually raising the planter units into a vertical position, the rollers off the ground and the two wings onto their transport wheels. As lift continues, and the tractor moves ahead, the wings pivot behind the center unit.

To get the extreme lift needed to raise the 3 sets of rollers and planters, Hoogstraat combined 4 hydraulic cylinders into two. He butt-welded each pair of 3-in. dia. cylinders with 20-in. strokes into one.

“With the rams going out in either direction, I got the 40-in. strokes I needed,” says Hoogstraat.

Folding the wings into transport position the way he did also meant that the marker arms had to be modified. They couldn’t fold into a vertical position when not in use. Plus, they had to be 20 ft. long.

To get the extra length and reposition them for transport, Hoogstraat fabricated two-piece marker arms to fold first on themselves



A 3-section frame built out of 7 by 7-in. sq. tubing supports both the rollers and planter units.



Folding the wings into transport position causes planter units to raise into a vertical position.

and then back against the side of the pave and plant. He used wing mounts from an old cultivator for the final fold.

“It worked great this spring, and we had very few problems,” reports Hoogstraat.

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Fenceless Cows Tethered To Big Tire

John Stoltzfus of Spring Mills, Penn., doesn’t need a fence to corral his two Holstein milk cows. They’re simply tethered to a big tractor tire.

“They can drag it around a little, but not far enough to get away,” he says.

Stoltzfus runs 15-ft. long ropes from the tire to leather collars on the cattle. He has a good pasture behind the barn, and when an area of grass gets short he unties the animals, rolls the tire to a new spot and ties up the animals to graze again.

“I’ve been doing it for two months and it’s worked out good so far. I have water for them just in reach so they can’t tip it over,” Stoltzfus says.

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John Stoltzfus “corrals” his two Holstein milk cows by tethering them to a big tractor tire. Long ropes run from tire to leather collars on cattle.