

4 LINK CLOSER

JOHN DEERE — KINZE — CASE IH — GREAT PLAINS — WHITE

The OEM tail section found on planters built today has a limited amount of travel up and down (roughly 4") throughout full movement when planting. Whenever the press wheels flex up, the contact points on the press wheels get wider, causing them to toe out and they tend to over cover the width of the seed V. When the press wheels go down past center, they under cover or toe in, causing the seed V to not close properly.

Also, when you max out the wheels on the top side, it can raise the planter unit out of the ground, causing seed depth to change. The length of the OEM tail section is 1/3 the length of the overall row unit. When increasing the down pressure by one notch on the closing system, you have to increase the front parallel linkage down pressure by more than 30% to keep the planter at the same depth. With this lever actioned tail section controlled only by one parallel linkage, one would need to run more down pressure up front to keep the planter in the ground.

By replacing the OEM tail section with a 4 link closer, the closing system is no longer a lever, but moves parallel with the ground instead of in an arc. This change enables one to use far less down pressure to close, causing little up draft on the overall row unit.

Likewise, the 4 link closer doesn't hammer up and down like the OEM tail sections causing vibrations into the metering unit. The 4 link closer, with the walking beam, has 9 inches of travel. That's over double the travel of OEM tail sections! This allows us to follow the contour of the soil surface "walking" unlike the bounding up and down action of the OEM units. The hammering action of the OEM tail section causes compaction, whereas the 4 link closer busts up compaction, resulting in the best seed to soil contact equaling the best net effective plant stands.

Before designing the 4 link closer, my net effective plant stands in no till struggled to get into the 80% range. Now, with the 4 link closer, my net effective plant stands are in the high 90%. It also allowed us to back off on seeding populations to get our desired plants per acre, saving us money. It makes my stands even throughout the whole field (ear height, root structure, stability) which makes dry down and harvesting much easier. Finally, unlike OEM's, the 4 link closer makes seeding possible through wash outs, keeping them from getting worse as time goes on.



Customer, Tim B. of IL, sent photos (above) of his Kinze planter using the 4 link closing system on one row in comparison with the factory set-up on the rest of the rows. You can clearly see the improvements made that Tim attributed to not having to run as heavy a down pressure on this row, which meant there was far less sinking and compacting of the soil with this row leading to better emergence.

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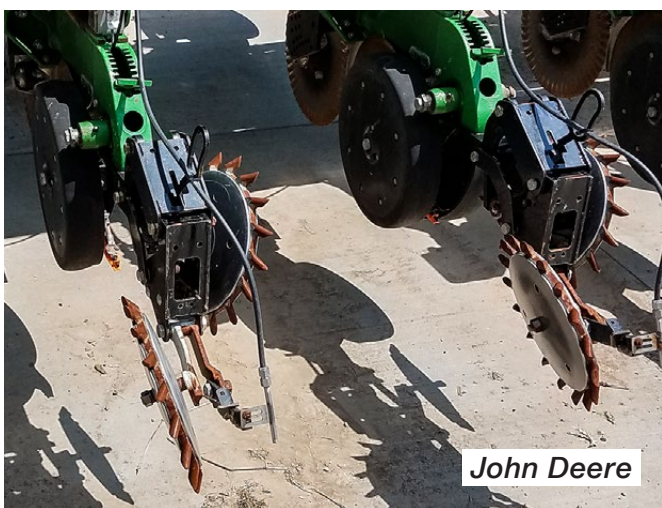


NEW!

for 2016
PATENT PENDING

BENEFITS OF THE 4 LINK CLOSER OVER STANDARD SWING ARM CLOSERS:

- Keeps press wheels from moving in or out over furrow as the row unit flexes
- Takes the bounce out of row units when planting above 5MPH
- Keeps pinch points of wheels the same through 7" of travel
- Fits Case IH, John Deere, Kinze, White, and Great Plains
- Better seed to soil contact for uniform emergence
- More even depth control of planter unit
- Travel of 4 link is parallel to the ground
- Works great with the G2 fertilizer disc
- Run less down pressure on row units
- No more blank planted rows



Beans planted without
trash whippers into
260BPA corn residue



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