The GT SPREADER

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Rapid City, SD - October 17-18, 2018
The Beginning, Not a New Idea

- Tim Hudson, a farmer, inventor, and gravel hauler, had to sub contract loads to other operators with the tools to conduct a slow speed aggregate spreads.
The Beginning, Continued

• Tim put salt on his counter and spread it with cardboard until he had what he believed was the correct blade idea. He built a bench top prototype and moved on from there.
Prototyping

• Prototype 1 was drawn out on a piece of paper and Tim cut the pieces from an old oil pipe line and scrap metal for the first ever aggregate spreader/push block assembly.
Bench Top Prototype
The Original

- 2 Hydraulic cylinder configuration (wet kit)
- Heavy construction, made out of an old oil pipeline
- Built directly on to the 1997 Midland
The Original Continued

- Plasma cut pieces
- Nearly 1000 lbs.
Round 2, Air Operated
Problems, and More Problems

• The Air Cylinder was not near as effective as hoped

• Poor directional bracing

• Dual chain adjustment was a real pain.

• Crushed Beer Cans perfectly
Close, But No Cigar
A New Beginning

• We started intensive testing.
• Documented the failures and
• Redesigned the GT platform into the GT Spreader II.
New Design Features
Features Include

• The GT II has a strong, and functional push block, reinforced with precision laser cut gussets and bracing.

• The step broke blade is 16” tall, 95” wide. The entire GT Spreader is approximately 550 lbs., including adapter plate.
Load Compensation

• The GT Spreader uses the full stroke of our new and larger pneumatic air cylinder.

• The GT Spreader uses our Load Compensating Technology (LCT) to accommodate for spring or air ride suspension systems.
Design Features Continued

- The GT Spreader retracts into a fully functional bumper that exceeds D.O.T. Specifications.

- A grade 70 single chain adjustment port ensures you can safely lock out or adjust your blade angle depending on your project.
Adapter Plate Concept
Development of the Genesis

- New way of doing adapters
- Correct Angles/Gusset
- Minimal flex
- Per Trailer Manufacturer Specifications
Torsion Pieces
How It Has Helped Us

• No more making a second trip to grade the pile left by the “The New Guy”.

• This is not a necessarily a finishing tool. Your grader operator will not have to travel to the other side of the county on a Friday evening to fix that inevitable mistake.
Most Importantly

- Liability is greatly reduced
- Road is immediately drivable
What you Get

1. GT Spreader
2. Genesis Adapter Plate
3. Hose Kit/Control Valve
4. Operator Manual with Warranty
5. Our knowledge and experience, 5 years of use and development.
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