

Family Owned and Operated since 1890!



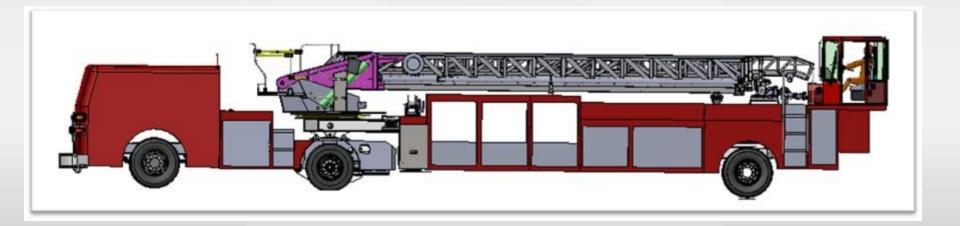
Mid-Mount Aerials

Sutphen SLTDA108



Sutphen SLTDA108

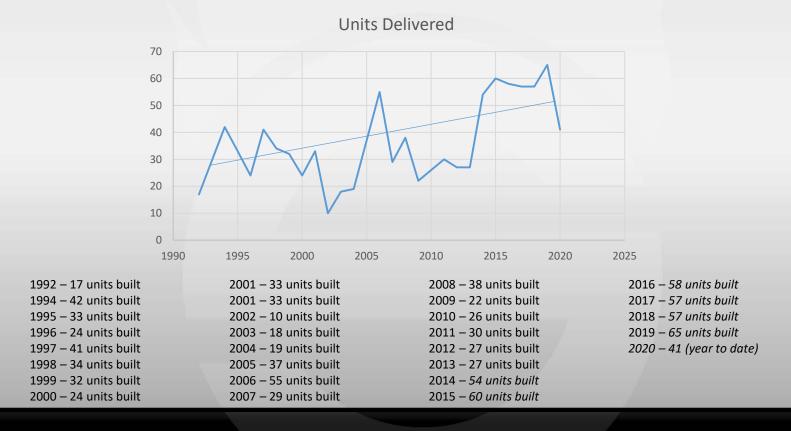
Because a tiller is a mid-mounted aerial.





Why a tiller now?

1. Growing market in which we have no current offering





Why a tiller now?

2. Customer demand

- We have had numerous customers approach us to add tillers to our product line up
- The time was right when Dekalb County, GA made the joking request, the sincere commitment to purchase, and provided constructive design input for a newly designed <u>Sutphen Ladder Tractor Drawn Aerial</u> (SLTDA)
- To open conversation with new customers who are new to the TDA market, or dissatisfied with their current supplier



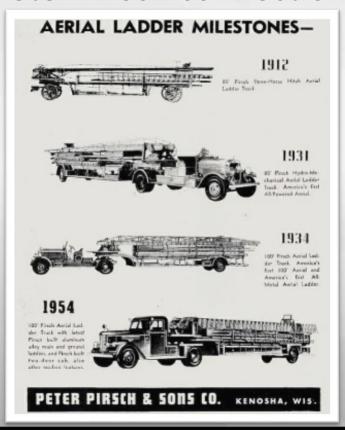
Why a tiller now?

- 3. Expand Sutphen Aerial Ladder product offering Aerial ladders line
 - SL75
 - SL100
 - SLR75
 - SLR108
 - SLTDA108

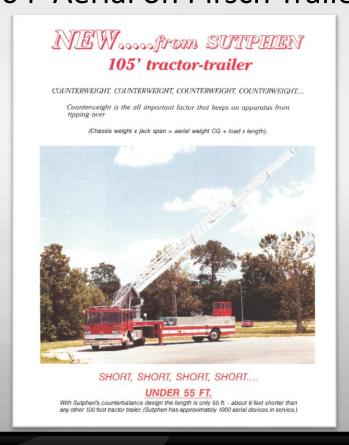


Sutphen history with Tillers

Peter Pirsch connection



104' Aerial on Pirsch Trailer



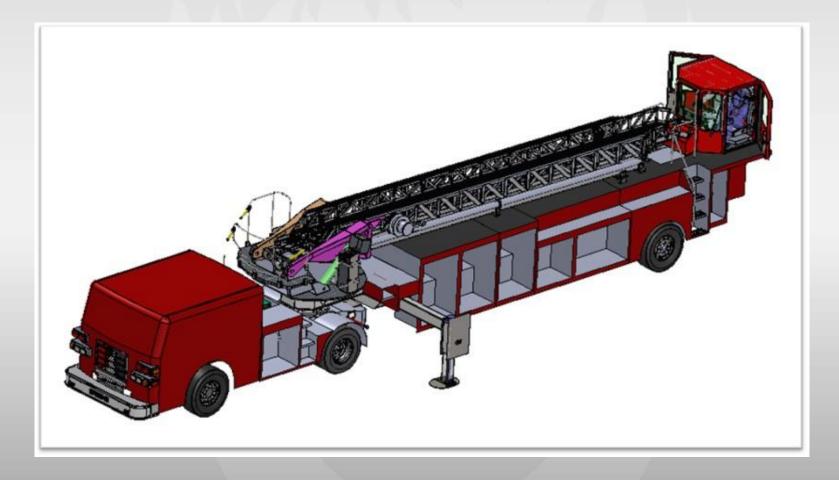


Super Tower of the Future



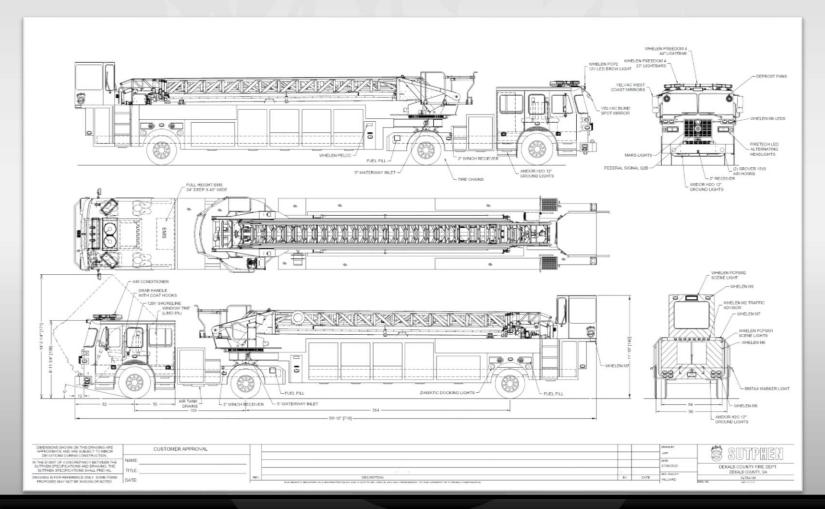


All new SLTDA





All new SLTDA





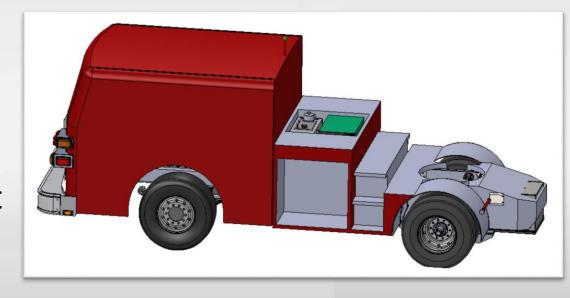
Defining the (new) parts

- 1. Sutphen tractor
- 2. 5th wheel design
- 3. Trailer design
- 4. Trailer body design
- 5. Tiller cab design



Sutphen Tractor

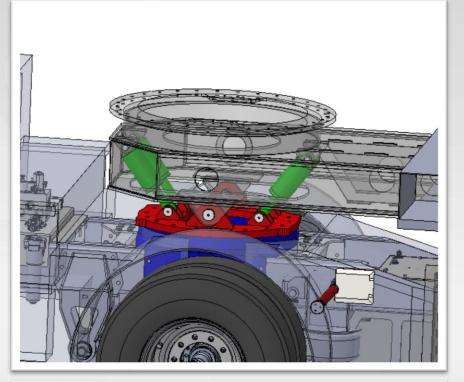
- The same high quality Sutphen chassis as all Sutphen vehicles
- Tractor body layout to allow 90 degree jack-knife

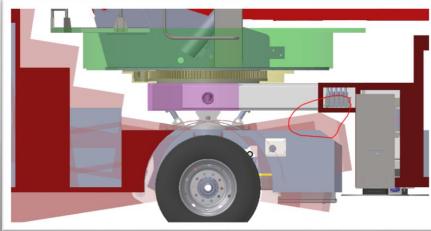




5th wheel design

- Undergoing structural analysis
- Operating range
 - Closed circuit hydraulic lockout
 - 15° Breakover angle

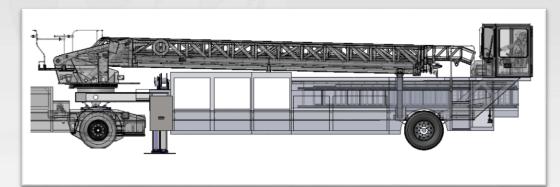


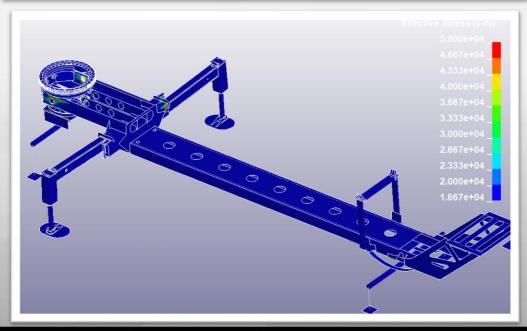




Trailer design

- Drop frame (gooseneck) design
- Single pair of stabilizers built into trailer frame
- Structural analysis to validate material selection.

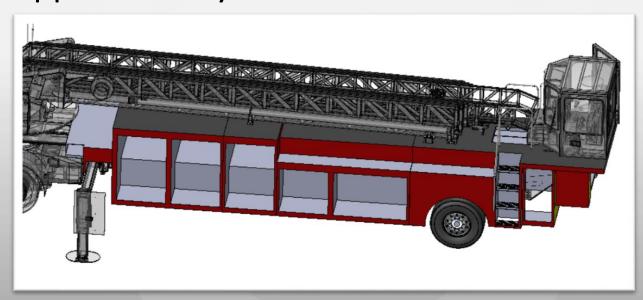






Trailer body design

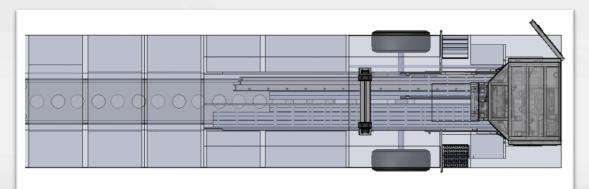
- Modular stainless-steel bolt together
- Transverse compartment above trailer frame
- Approximately 790 cu. ft. volume shown

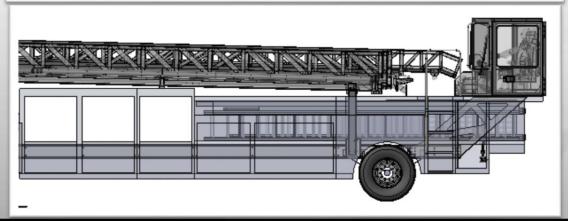




Trailer body design

Ground Ladder Storage





Shown:

45' 3-section

35' 2-section

35' 2-section

28' 2-section

28' 2-section

20' roof

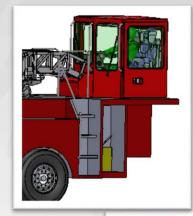
16' roof



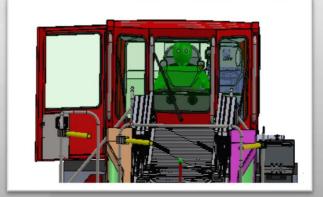


Tiller cab design

- Wide tiller cab, with room for trainer's seat
- Initial design with rear hinged doors
 - Feedback shows that sliding doors become a maintenance issue.
- Three windshields improved visibility for tillerman
 - One front with visibility inside aerial
 - One angled each side for visibility to sides of aerial
- Large sliding windows in doors and rear wall
- HVAC defrost/driver air









THANK YOU!

