Holland®
MULTI-PURPOSE CHAIN
SUCCESS STORY
Chris Roberts
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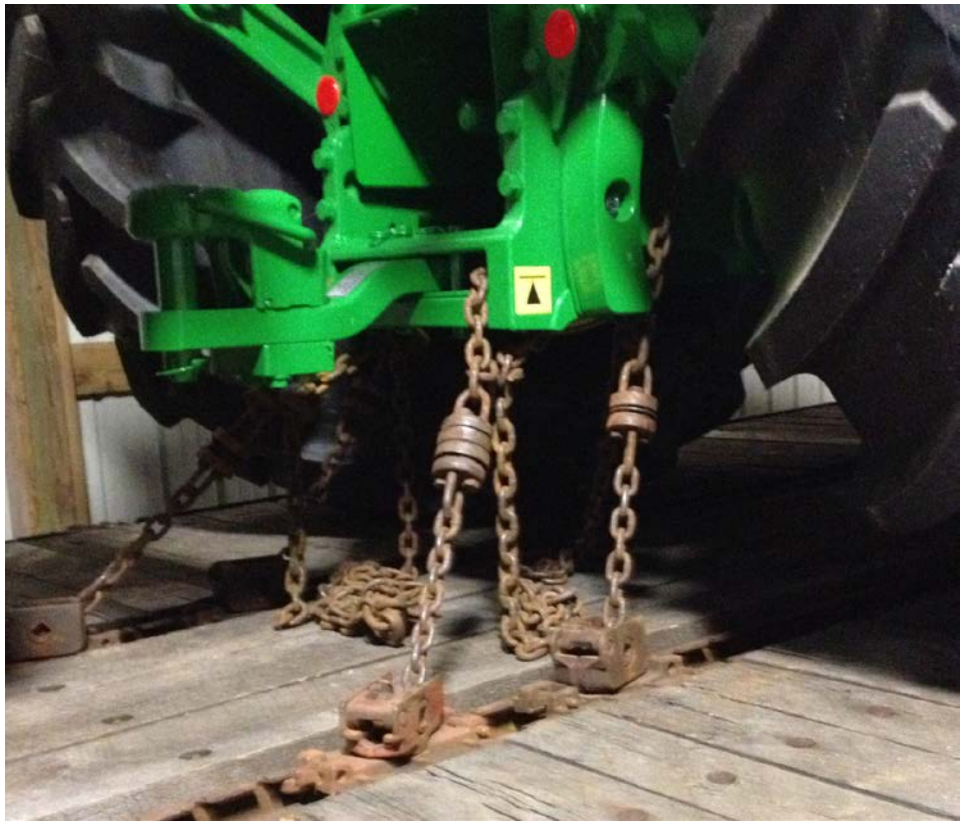
Flat Car Chain Securement

- **Historically, two types of chains exist on flat cars**

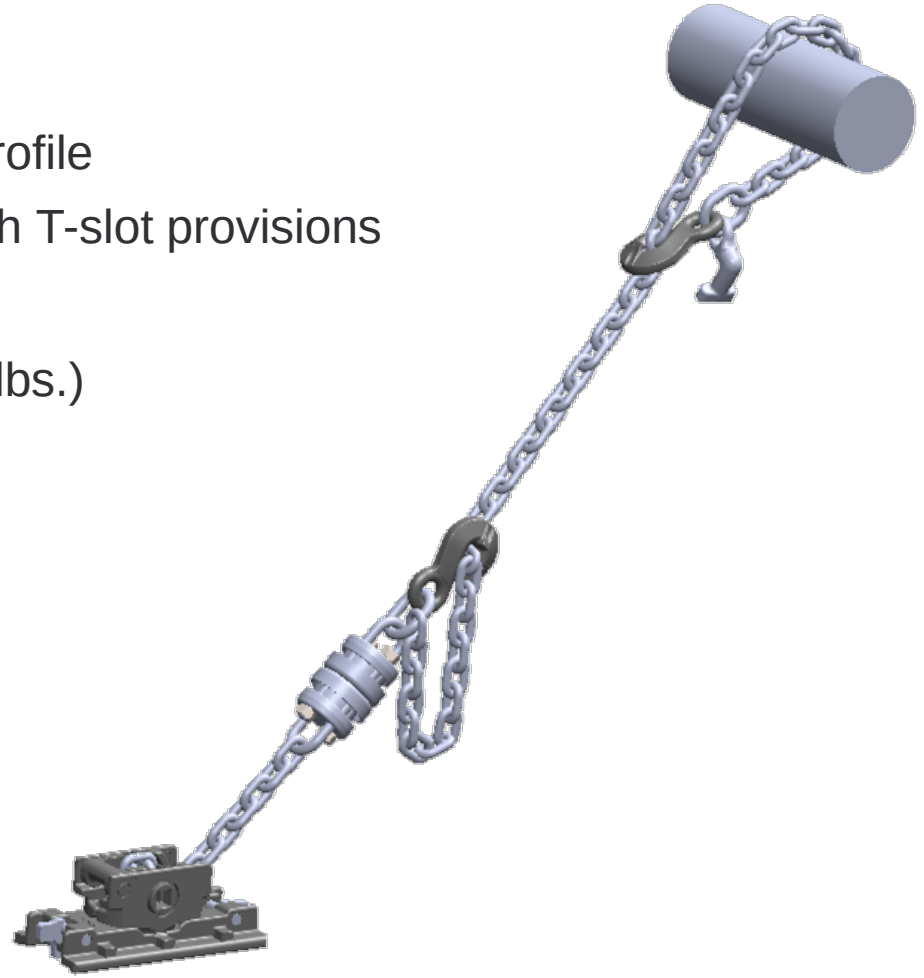


3/8” Chain System

1/2” Chain System

Flat Car Chain Securement

- **3/8” Chain Systems**
  - Key Features:
    - Tensioning device is a winch, which is low profile
    - Includes T-Hook for attaching to vehicles with T-slot provisions
  - Limitations:
    - 36,000 lbs. breaking strength (WLL = 9,000 lbs.)



Flat Car Chain Securement

- **1/2” Chain Systems**
  - Key Features:
    - 55,000 lbs. breaking strength (WLL = 13,750 lbs.)
    - 10 ft. chain length
  - Limitations:
    - Tensioning device is a load binder, which is 21” long when fully opened

Challenges

- **Which flat car do you need?**
  - Certain shippers need a certain chain type

- **Larger fleets to manage**
  - Enough flat cars with each type of chain to supply to all

Solution

- **One type of chain for everyone!**

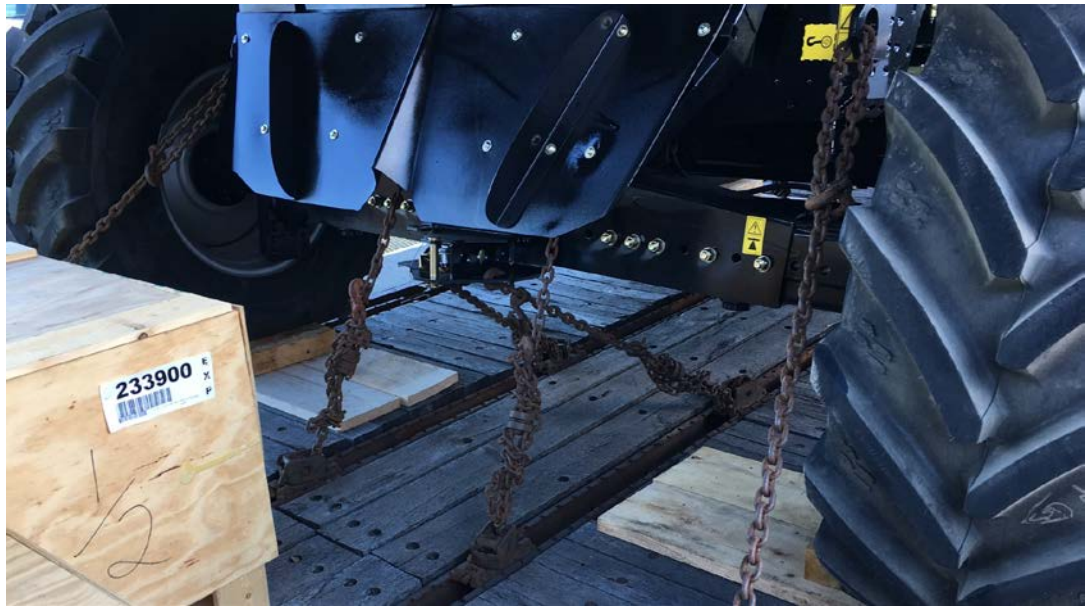
How?

- **Gather input from all entities**
  - Military
  - Agricultural
  - Heavy Equipment/Construction

- **Understand needs and wants**
  - Get buy in from chain users

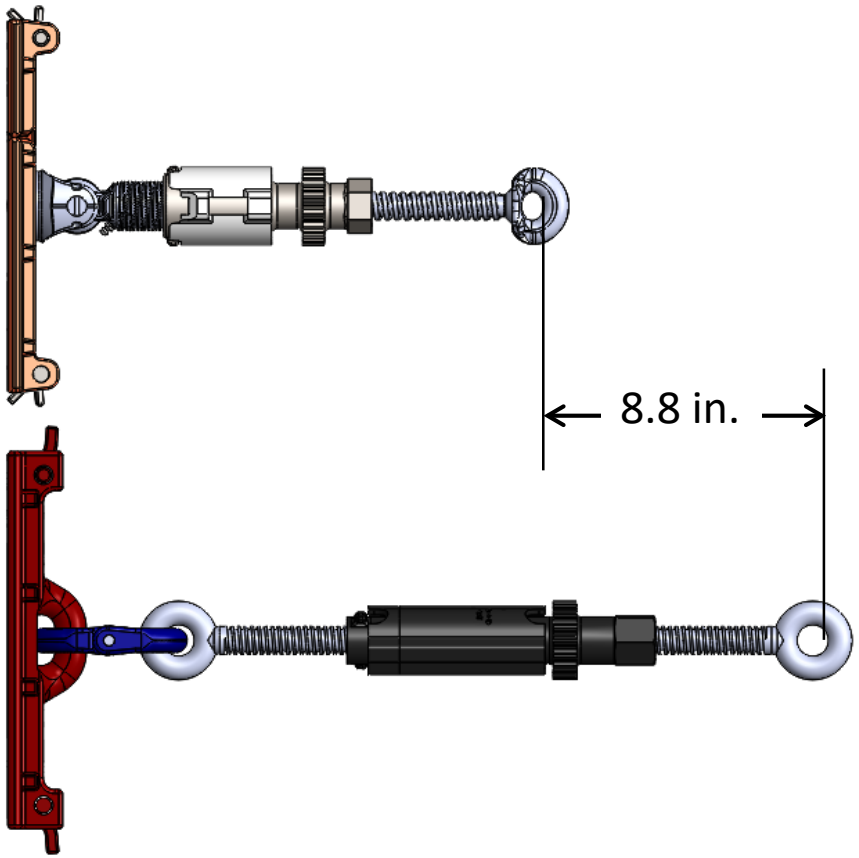
Designing the Multi-Purpose Chain

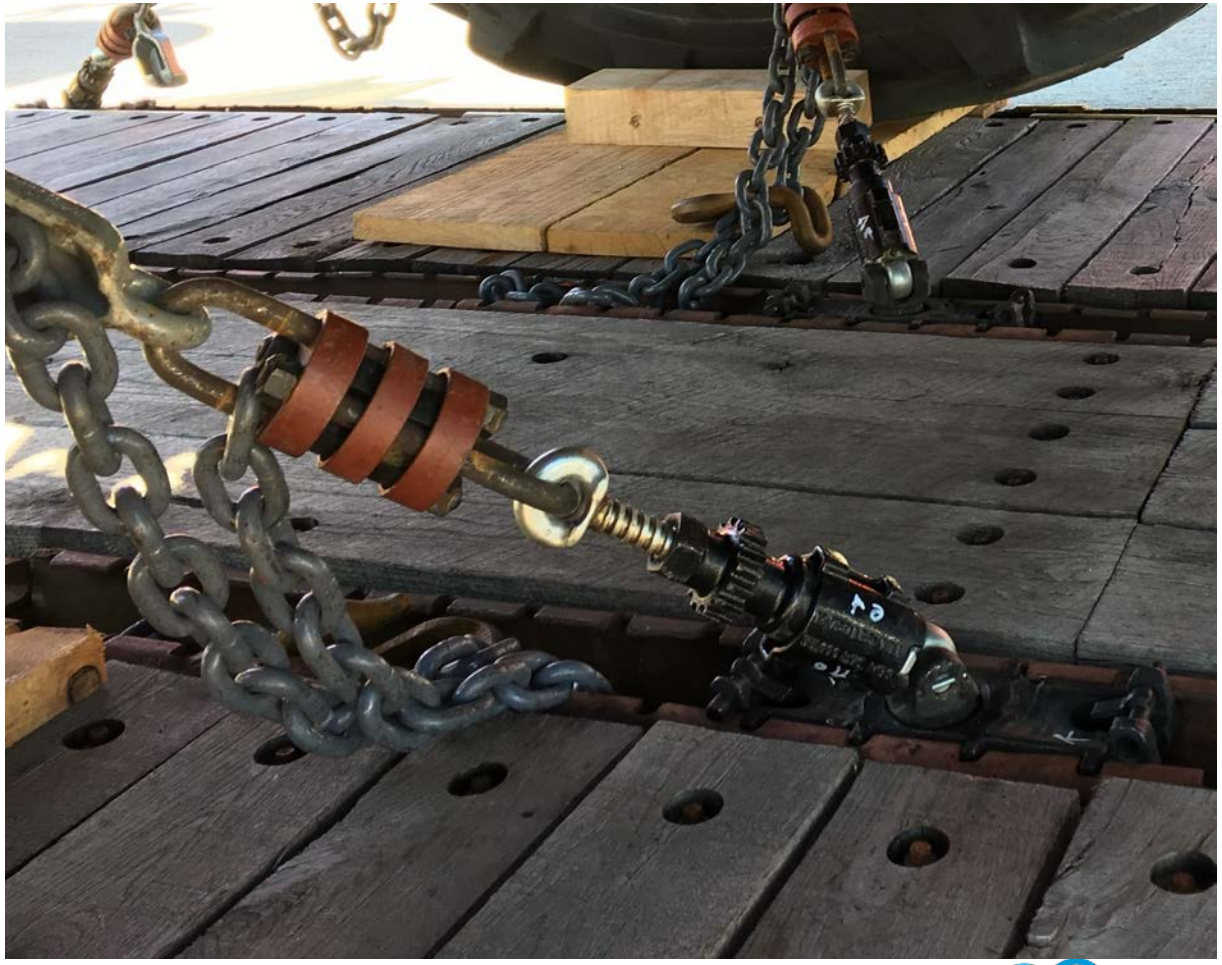
- Must use 1/2” chain
- Must be usable with low-ground clearance vehicles



Designing the Multi-Purpose Chain

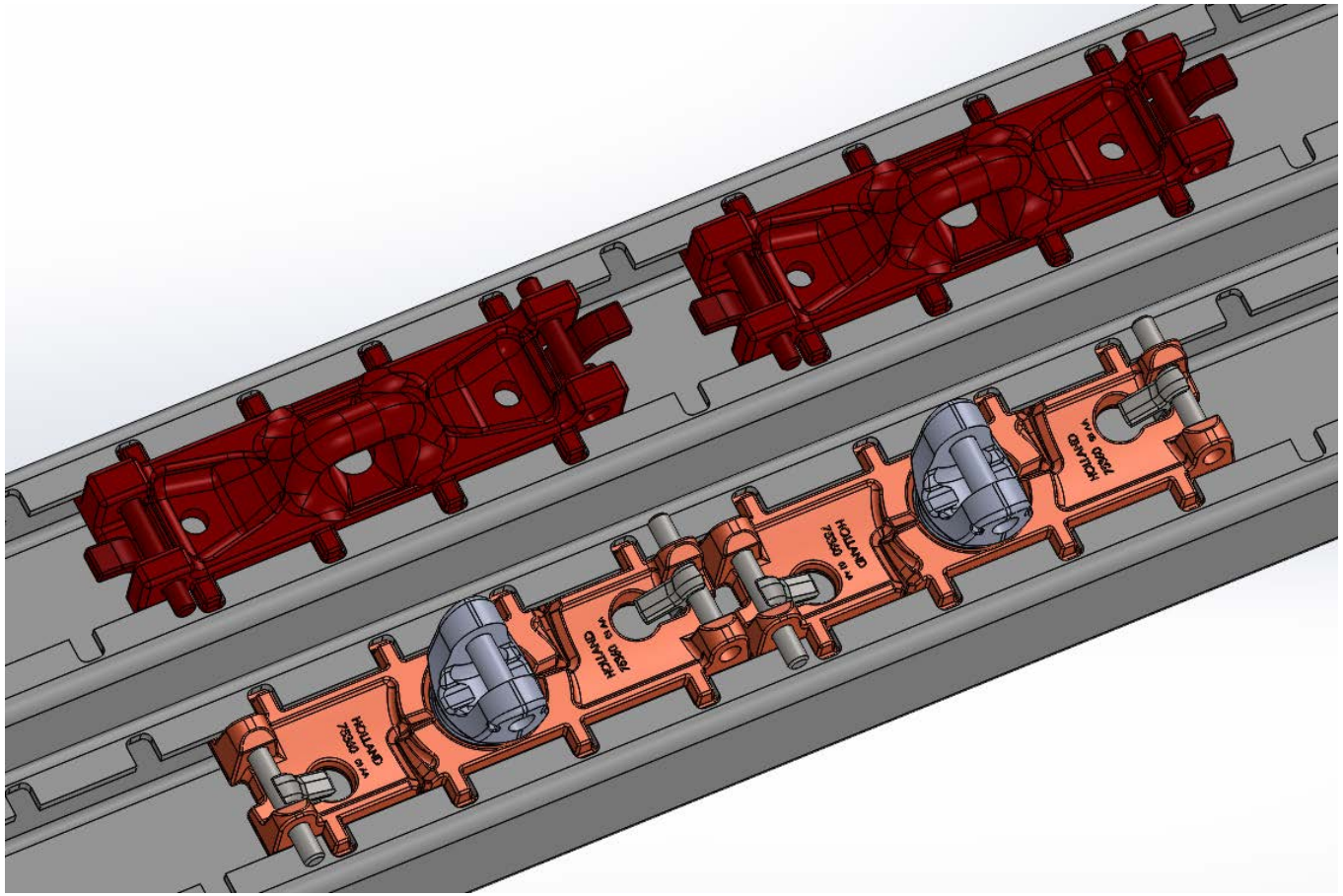
- New Load Binder and Anchor





Designing the Multi-Purpose Chain

- New Load Binder and Anchor

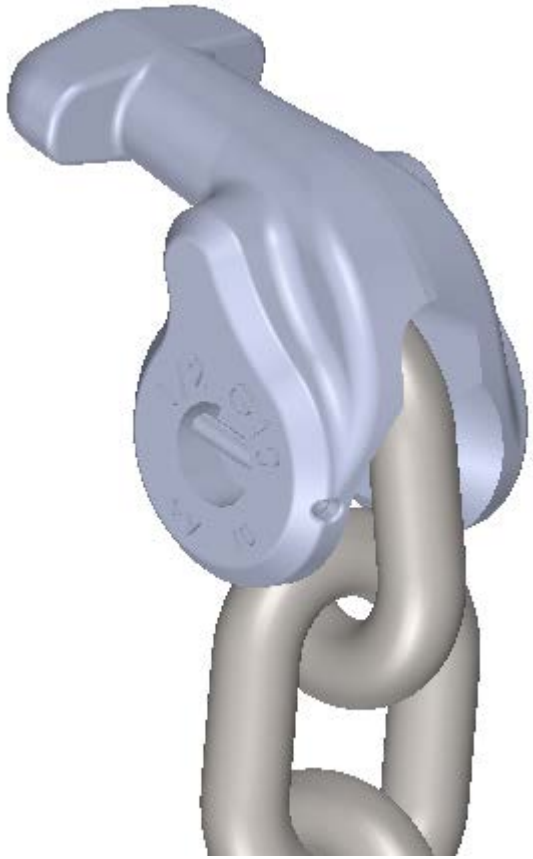


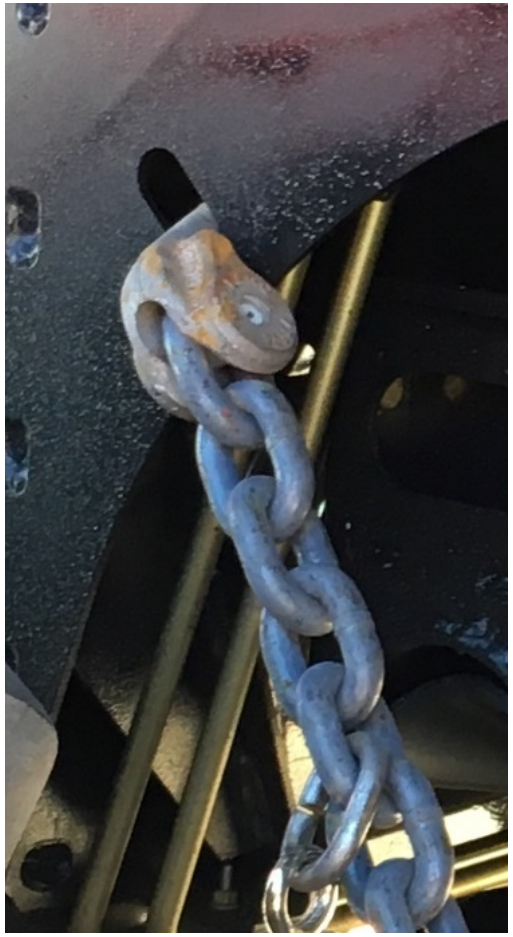
Designing the Multi-Purpose Chain

- Must include T-Hook
- Must be able to pass multiple chains through a 3” diameter hole

Designing the Multi-Purpose Chain

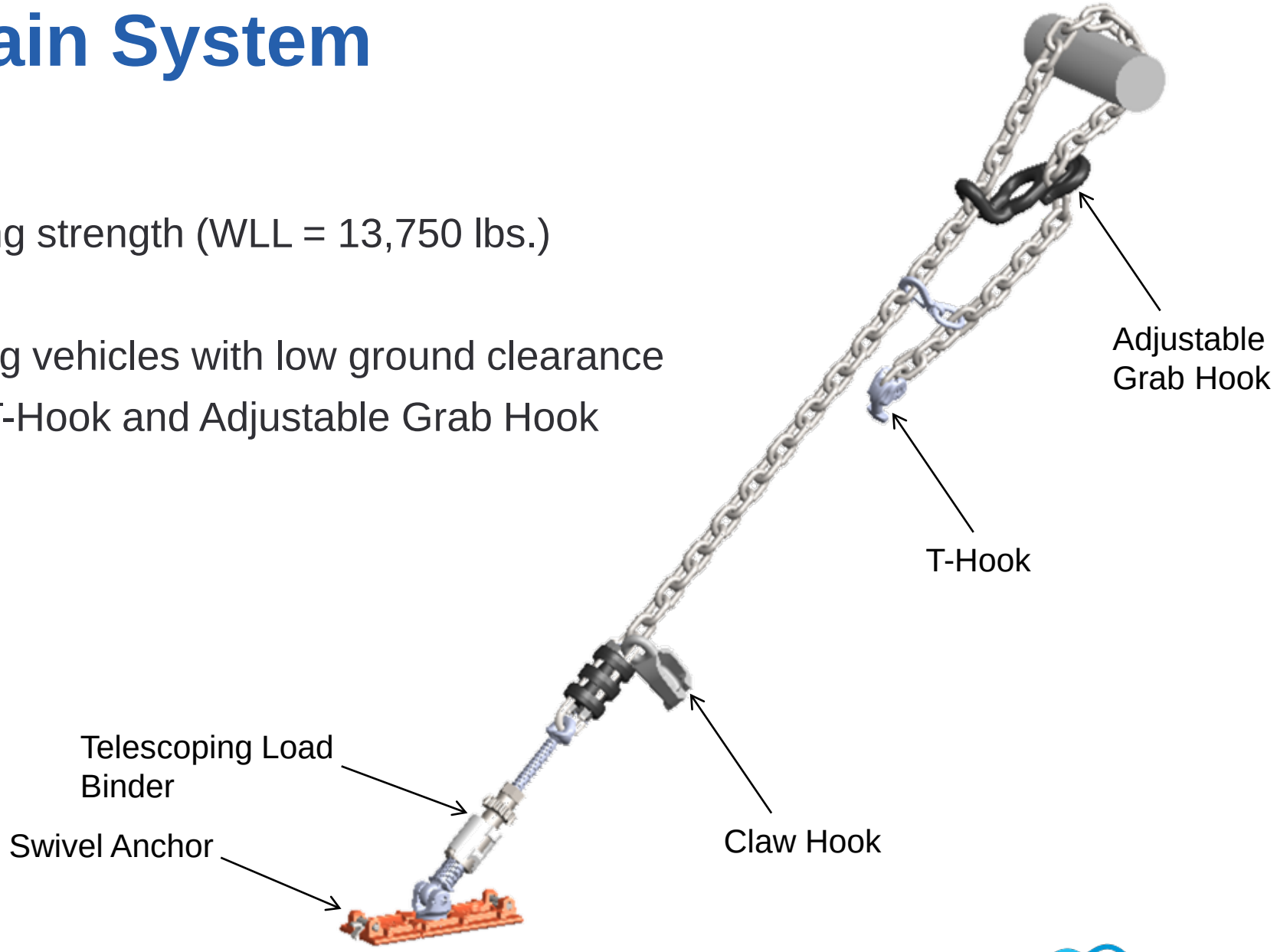
- New T-Hook





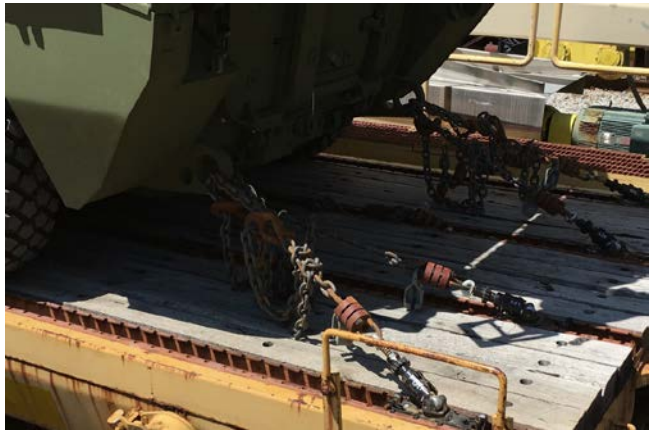
Multi-Purpose Chain System

- **Key Features:**
  - 55,000 lbs. breaking strength (WLL = 13,750 lbs.)
  - 10 ft. chain length
  - Capable of securing vehicles with low ground clearance
  - Includes both the T-Hook and Adjustable Grab Hook



Multi-Purpose Chain Benefits

- **Provides flexibility with chain flat cars**
  - One chain for all commodities
- **Fleet size can be reduced**
  - The same chain on every car, means that any car can go to any shipper
- **The Multi-Purpose Car**
  - The Multi-Purpose Chain is equipped on the new TTX multi-purpose flat car

In Conclusion

- **Input from all entities helped to create a chain that can be used by everyone**