



Pipe Hold Down



**Secure Unstable Loads
with a Pipe Hold Down.**

cascade
corporation



Specially designed clamping arms mounted on top of carriage fold down on the pipe/poles to secure and prevent load from rolling off or tipping sideways.

When not required, the arm assembly pivots to the full vertical position so the truck can be utilized for typical loads. The hold down arm assembly consists of two sections, the main arm and the inner pad. Two hydraulic functions are required to operate the arm assembly. First function activates the main arm up and down. The second function is required to activate the inner pad which provides the clamping. This arm design offers the most versatility for handling various diameters and lengths. This type of attachment can be offered in a few different ways. As with all special application designed units, detailed load information is required to determine the features for each attachment.

Important information required to determine the features needed in the attachment:

- Pipe/pole dimensions and weights.
- How are they to be handled? How many at a time?
- Indoor or outdoor environment?
- Which truck to be used? New or existing model?
- Carriage mounting type? ITA hook, Shaft style or Integral.



Complete Carriage with Hold Down Arms

FEATURES

- Integral mounting for increased capacity.
- Designed for trucks 8,000 lbs to 36,000 lbs capacity.
- Sideshifting frame and hydraulic fork positioning available.
- Various carriage widths and fork sizes available to fit specific application.
- Hold down arms to handle various pipe diameters and configurations.



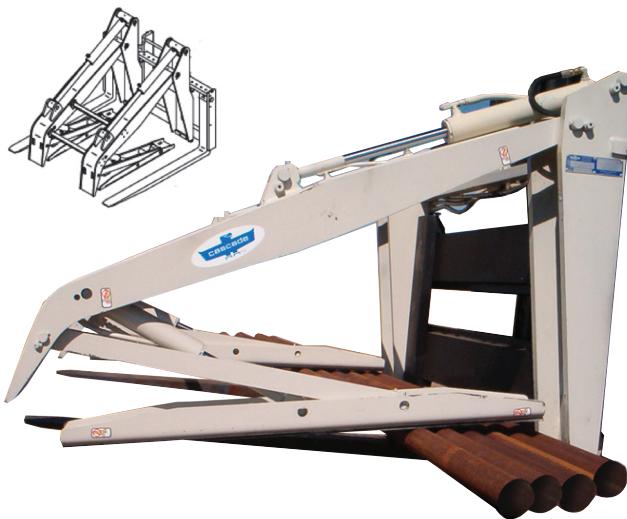
Weld-On Hold Down Arms

The hold down arm assembly only can be offered for field installation. Welding instructions are provided based on truck carriage details. OEM truck carriage drawings are required to design the mounting. Typically the arm assembly is welded on top of the truck carriage. The truck will also need two additional hydraulic functions to operate the arms. A solenoid valve can be used in application.

FEATURES

- Typically for trucks 15,500 lbs to 36,000 lbs capacity.
- Can be installed on existing carriage, sideshifter, or fork positioner.
- Various frame widths to fit specific application.
- Hold down arms to handle various pipe diameters and configurations.





Hang-On Hold Down Arms

The hold down arm assembly only can be offered for field installation as a hang-on to fit ITA hook type or shaft type carriages. Installation is easy and straight forward. The truck will need two additional hydraulic functions to operate the arms. A solenoid valve can be used in application.

FEATURES

- Typically for trucks 10,000 lbs to 15,500 lbs capacity.
- Can be installed on existing carriage or sideshifter.
- Arm assembly is typically mounted between the forks.
- Various widths to fit specific applications.
- Hold down arms to handle various pipe diameters and configurations.

Single Function Pivot Arm Design

This design offers a single function hold down arm with a pivoting bar to hold down load.

FEATURES

- Typically to fit trucks 6,000 lbs to 10,000 lbs capacity.
- Hangs on truck carriage.
- Available as non-sideshifting or sideshifting frame.
- Optional forks available in various sizes to suit application.
- Various widths to fit specific applications.
- Hold down arms to handle various pipe diameters and configurations.



Grapple Type Arm Design

This design offers a single function hold down arm to retain and secure load.

FEATURES

- Typically to fit trucks 5,000 lbs to 15,000 lbs capacity.
- Hangs on truck carriage.
- Available as non-sideshifting or sideshifting frame.
- Optional forks available in various sizes to suit application.
- Various widths to fit specific applications.
- Hold down arms to handle various pipe diameters and configurations.





Bolt-on at Truck Carriage Sides

FEATURES - TYPE 1

- For trucks 20,000 to 32,000 lbs capacity.
- Overall thickness doesn't increase
- Only one hydraulic function required
- Pipe range stabilization max: 4" / 32"



Demonstration image only

Bolt-on Forks Shank Vertical Sliding Model, 90° Backwards Closing

FEATURES - TYPE 2

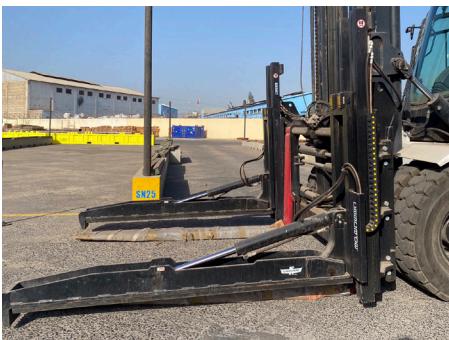
- For trucks 20,000 to 40,000 lbs capacity.
- Two hydraulic functions required
- Follow the forks opening
- Pipe range stabilization max: 2" / 40"



Bolt-on at the Truck Carriage Sides Vertical Sliding Model, 90° Backwards Closing

FEATURES - TYPE 3

- For trucks 20,000 to 40,000 lbs capacity.
- Two hydraulic functions required
- Design doesn't reduce the max forks Out-to-Out (OTO) opening range
- Fixed on truck carriage for easy installation
- Pipe range stabilization max: 2" / 40"



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