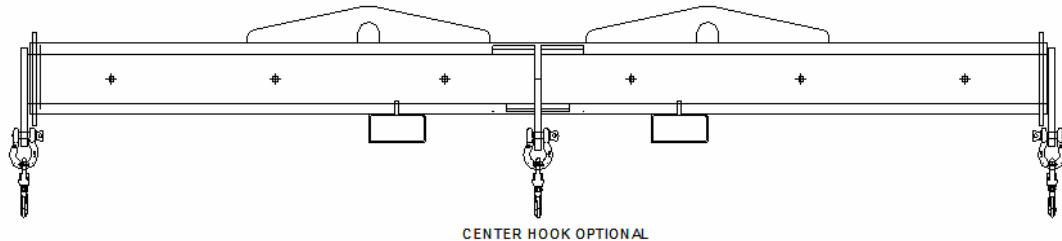


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FORKLIFT SPREADER BAR - MODEL 1160

SAFETY INSTRUCTIONS AND OPERATOR'S MANUAL



The model 1160 Spreader Bar is designed for use with rough terrain forklifts of adequate capacity to safely handle the load. It comes equipped with fork pockets that will accept up to 7" wide X 2 3/4" thick forks. Dual center holes provide hook points that also allows the spreader bar to be suspended from a crane. This manual however, is targeted to its use on rough terrain forklifts. Be aware that the information contained in this manual is intended as a guide and does not replace the need for the user to know, understand, and observe all applicable company, local, state, and federal safety codes and or requirements. The model 1160 meets/exceeds the requirements of ASME B30.20-2006 and is classified as Category A and Service Class 0 as defined in ASME BTH-1-2005

Before Use:

- 1) Make sure the operator is well qualified to operate the specific forklift model to be used, has read and understands this manual and has reviewed the forklift operator's manual for any additional requirements, limitations, restrictions, or additional safety procedures prescribed by the forklift manufacturer when using this type of attachment. The forklift operator must also be properly certified under OSHA requirements to operate the forklift to be used.
- 2) Inspect the spreader bar to make sure it is in good condition. There must not be any broken welds, nor any deformation of the steel tube or other component, nor any cracks in the steel. The telescoping members should move in and out freely. Inspect swivel hooks and shackles to make sure they are complete, are in good condition, and shackle anchor screw pins are screwed in tight. Make sure the spreader bar width adjustment pins are in place and have hair-pins installed to secure them. Check to make sure the fork retaining pins have hair pins to secure them in place and safety chains are properly secured to anchor blocks and grab hooks are properly secured. Decals showing "Empty Weight", "Read Before Using" and "Rated Lift Capacity" are required. Check that all decals are in place and legible. Replacement decals are available from a Star dealer.
- 3) Make sure personnel involved understand any hand signals that will be required and all involved personnel understand what will be required of them.
- 4) Make sure the travel path is clear of obstructions and that adequate clearance will be maintained from all power lines

Caution:

- 1) Risks are high for serious injury when working around suspended loads. The operator must avoid carrying the load over people and it is best to have a 10' foot rule. This requires that no one is allowed to be within 10 feet of the area in which the load would fall if a failure occurred.
- 2) Do not allow anyone to ride on the spreader bar nor on the load being carried.
- 3) Do not make any repairs or modifications to the spreader bar without written authorization from the manufacturer. Replacement of hooks, shackles, decals and hair-pins does not require authorization.

Installation:

On the forks installation: Insert the forks into the fork pockets and then slide the spreader bar all the way onto the forks so the pin tabs extend behind the back of the fork. Insert the fork locking pins in each side and secure them with hair-pins to lock the spreader bar to the forks. Then secure the safety chains to a strong part of the forklift carriage making sure the chains are not slack and installed as close to a straight horizontal pull as possible. The chain angle must not exceed 45 degrees.

Suspended from a hook: The spreader bar can be attached to hooks thru the top holes in the crown plates. It is recommended that the hooks have keepers to help secure the spreader bar. If the hooks are too large, shackles may be required to make the connection.

Adjust the width: Adjust the bar to the desired width by removing the adjustment pins and sliding out the inner section of the bar. The bar can be set for 12, 16, or 20 foot widths. There is a stop to prevent the inner section from being slid all the way out of the center tube however the spreader bar must not be used pulled all the way out to the stops. The inner section must be slid in far enough to align the holes so the width adjustment pins can be installed and secured with a hair-pin. The bar must be extended an equal distance on both sides.

Rated Capacities:

Rated capacities shown below also appear on the spreader bar decal(s). Be aware that these capacities are for the spreader bar itself and do not in any way reflect the capacity of the forklift. Refer to the forklift operator's manual for capacity ratings and any limitations or restrictions when using this type of attachment. Remember the weight of the bar must be deducted from the lift capacity of the forklift. If there is any question as to forklift's lifting capacities when using this attachment, contact the forklift manufacturer for clarification.

Never exceed the rated capacities of the spreader bar except for purpose of a test and then do not exceed 125% of its rated capacity. Never exceed the capacity of the forklift. Make sure also that the load rating for slings, chains, or straps used with the spreader are equal to or exceed the rating of both the forklift and the spreader bar, if not; always limit the load to the lowest rated part of the lifting system.

RATED LOAD CAPACITY OF MODEL 1160 SPREADER BAR	
Empty Weight - 1100 lbs.	
At 12 feet wide	16,000 lbs
Extended to 16 feet wide	11,000 lbs
Extended to 20 feet wide	8,000 lbs

Operation:

- 1) Before elevating the load make sure the forklift mast or boom is level (vertical) - not leaning to the right or left. Do not use the spreader bar when operating on a side slope.
- 2) Before the load is raised make sure slings, chains, or straps are properly secured and are not twisted around each other or entangled.
- 3) **The load must be picked up so that it is equally balanced and hangs level.**
- 4) When lifting a load, guard against shock loading by taking up the slack in slings or straps slowly. Prevent jerking at the beginning of the lift, and accelerate or decelerate slowly.
- 5) **Do not use the spreader bar to drag or pull a load.**
- 6) Do not leave suspended loads unattended.
- 7) Take care that the load does not swing or come in contact with an obstruction.
- 8) Keep all personnel clear while the load is being raised, moved, or lowered. Forklift operator should watch the load at all times when it is in motion.
- 9) Never allow more than one person to give signals to the forklift operator except to warn of a hazardous situation.
- 10) Never raise or carry the load higher than necessary.
- 11) Never allow anyone to work under a suspended load.