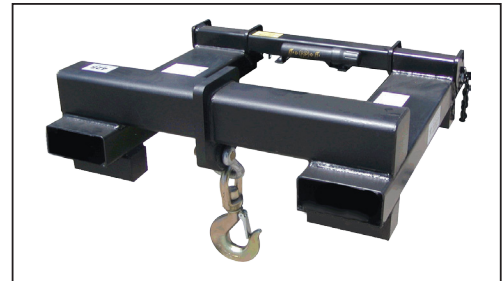




FORKLIFT

UNIVERSAL LIFT HOOK

Operator's Manual for Model 1377



BEFORE USE, READ AND UNDERSTAND THE COMPLETE OPERATOR'S MANUAL.

If you need clarification or any additional information call your Star dealer or call Star Industries @ 1-800-541-1797 during normal business hours.

SPECIFICATIONS		
Model	Load Capacity	Empty Weight
1377	22,000 lbs.	440 lbs.
Overall Dimensions – 44" wide x 15½" High x 28½" deep		
Fork Pocket Spread - 34" Center to Center		
Accepts forks up to 8" wide x 3" thick		

Engineer Approved:

The Star Industries Model 1377 Universal-Fit Lift Hooks are designed for use on telehandlers (extendible reach forklifts) and straight mast forklifts as well. Their design has been reviewed and carries an engineer's stamp of approval to meet a 3 to 1 or better factor of safety.

The design of the attachment positions the swivel hook at the standard 24" load center typically found on most forklifts up to 30,000 lb capacity. Because the lifting point is located at the 24" load center, the forklift's standard load chart will normally apply. It is only necessary to include the weight of the attachment itself and rigging along with the weight of the load. A separate load chart or de-rating of the forklift should not be required.

Be aware that the rated capacity of the Lift Hook itself does not reflect the capacity of the telehandler/forklift. The total load must not exceed the capacity shown on the telehandler/ forklift load chart which will vary with make and model as well as fork and/or boom position.

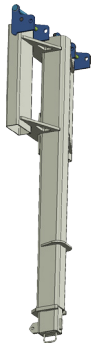
DANGER - DO NOT USE WITHOUT INSTALLING RETAINING PINS behind the heel of each fork and securing with hair pins or cotter pins

Safety chain(s) must also be used. Wrap chain around a strong part of the fork carriage and secure with locking grab hook.

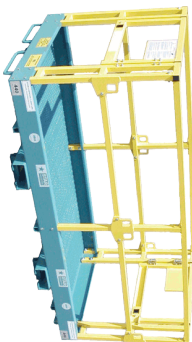
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Visit www.starindustries.com or call us at 800-541-1797 for more information on these and other great products.

Use it With Confidence:

Star Industries has been manufacturing forklift attachments for over 25 years and has earned an excellent safety record. In addition, Star attachments have proven themselves repeatedly on all types of jobs all over the United States as well as in Canada, Mexico and South America.

Please 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. In addition, any relevant safety requirements or recommendations contained in the forklift operator's manual must be observed.

Before Use:

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. The forklift operator must also be properly certified under OSHA requirements to operate the forklift to be used.

Inspect the Lift Hook to make sure it is in good condition. There must not be any broken welds, deformation of the steel tube or other component, nor any cracks in the steel. Inspect the swivel hook and shackle to make sure they are complete, are in good condition, and that shackle anchor screw pin is screwed in tight. Make sure the operator's manual is in its storage tube. Inspect to make sure the fork retaining pins are present and attached to their retaining chains and that the pins and attachment plates are in good condition. Make sure the hair pins used to secure the fork retaining pins are present and in good condition. Check that all decals are in place and legible. The following decals are required: "Empty Weight", "Caution", and "Rated Lift Capacity". Replacement decals are available from a Star dealer. If any defects, missing components, damage or excessive wear are found, discontinue use until corrections or a safety assessment can be made by qualified personnel.

Make sure personnel involved understand any hand signals that will be required and all involved personnel understand what will be required of them.

Make sure the travel path is clear of obstructions and that adequate clearance will be maintained from all power lines.

Caution: 3

1. Risks are high for serious injury or death when working around suspended loads. The operator must avoid carrying the load over people and when loads are suspended all non essential personnel must remain clear of the "fall zone" (the area in which it is reasonably foreseeable that suspended material could fall in the event of an accident.) No personnel should ever be directly under the load.
2. Do not allow anyone to ride on the lift hook nor on the load being carried.
3. Do not make any repairs or modifications to the lift hook without written authorization from the manufacturer. Replacement of hooks, shackles, decals and hair-pins does not require authorization.

WARRANTY PROCEDURE:

Upon notification, Star Industries will advise if the product will need to be returned to Star Industries for inspection and/or repair, or if the Star Dealer, or other entity, can be authorized to make the inspection/repair at their location, or if circumstances dictate other solutions. Dealer or other entity repairs must have prior written authorization. A "cost of repair" estimate will be required prior to authorization. Reimbursement will be at the current "Star Warranty Labor Rate" and will not include reimbursement for off-site travel. A Warranty Claim Form must be submitted within 45 days of warranty repair authorization to receive credit for repair. A return authorization number must be obtained from Star Industries before a product can be returned for inspection and/or warranty and that number must appear on the return shipping label. Upon inspection, Star Industries will determine if the product is defective and if so, whether it will be repaired or replaced. Repair or replacement is at the discretion of Star Industries. Transportation charges to Star Industries are not covered under the warranty and must be prepaid by dealer or customer unless it is within the first two years of warranty. In which case, if evidence acceptable to Star Industries, is provided that the product is defective and the return is from within the continental United States or Canada, Star will arrange for return shipment at Star Industries expense. Products found to be defective within the initial two year period and returned to Star Industries for repair or replacement will be returned to the dealer or customer freight prepaid providing it is within the continental United States or Canada. Warranted products to be shipped outside the United States or Canada and those warranted after the initial 2 years will be shipped freight collect. Unwarrantable products will be returned freight collect at the request of the dealer or customer, otherwise they will be destroyed.

LIMITATION OF DAMAGES:

Star's obligation under this warranty shall not include costs of installation, duty, taxes or any other charges whatsoever or any liability for direct, indirect, incidental or consequential damages or delay. Star's liability for any and all losses and damage to purchaser resulting from any cause whatsoever, including negligence or breach of form of warranty, express or implied by Star, alleged damage for defective goods, irrespective of whether such defects are discoverable or latent, shall in no event exceed the purchase price of the particular goods. Products repaired or replaced under this warranty are warranted only for the remainder of the original warranty. Any improper use including operation after discovery of defective or worn parts not approved by Star or any alteration or repair by others in such manner as in Star's judgment affects the product materially and adversely shall void this warranty.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL OR IMPLIED) INCLUDING WARRANTIES OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

STAR INDUSTRIES LIMITED WARRANTY

Star Products are warranted to the original purchaser against defective workmanship and/or materials (when properly installed, used, and maintained) for a period as specified below from date of delivery to the customer by an authorized Star Dealer or direct from Star Industries. This warranty does not cover misuse, abuse, normal wear and tear, or accidental damage.

5 year Warranty:	All Star products except as noted below. (Includes HD Auger Drives & most non-hydraulic products)
2 year Warranty:	Medium Duty Auger Drives
1 year Warranty:	Auger Bits and Auger Accessories (excludes auger drives), Crane Forks, Grapples, Angle Broom, Self Dumping Hoppers, Replacement Forks, and Over the Bucket Forks
6 month Warranty:	Concrete Mixers

WARRANTY CLAIM NOTIFICATION:

Product defects should be reported to the Star dealer from whom the product was purchased or to Star Industries in writing promptly after discovery. Preferably photographs showing the defect should also be provided along with a written report of circumstances involved. Warranty claims not made within 30 days after discovery of the defect shall be null and void.

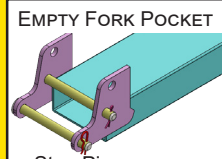
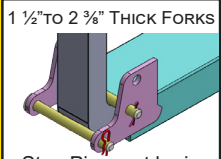
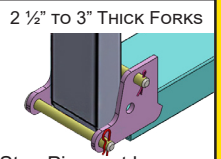
WARRANTY DETERMINATION:

If a warranty claim is found worthy and made within the warranty period we reserve the right at our discretion to repair existing defects or to replace it with the same or current model free of charge or to issue a credit for the reasonable cost of repair or take possession of the equipment and issue reimbursement for the calculated value.

Installation:

The Universal-Fit Lift Hook is installed on the forklift by inserting both forks fully into the fork pockets so that the rear of the Lift Hook is against the back of the fork. The fork retaining pins are then installed through the retaining plates and behind the heel of the forks and are secured with hair pins. This locks the Lift Hook to the forks to prevent it from sliding off the forks. Safety chain with locking grab hook must also be used.

DANGER - DO NOT USE WITHOUT INSTALLING RETAINING PINS behind the heel of each fork and securing with hair pins or cotter pins

 <p>EMPTY FORK POCKET</p> <p>Stop Pin on some attachments are not removable</p>	 <p>1 1/2" TO 2 3/8" THICK FORKS</p> <p>Stop Pin must be in lower hole with using 1 1/2" to 2 3/8" thick forks</p>	 <p>2 1/2" TO 3" THICK FORKS</p> <p>Stop Pin must be upper holes when using 2 1/2" to 3" thick forks</p>
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Safety chain(s) must also be used. Wrap chain around a strong part of the fork carriage and secure with locking grab hook.

Rated Capacities:

The rated capacity as shown in specifications also appears on the Lift Hook decal. Be aware that these capacities are for the Lift Hook itself and do not in any way reflect the capacity of the forklift. Refer to the forklift operator's manual and/or load chart for capacity ratings and any limitations or restrictions when using this type of attachment. Remember the weight of the Lift Hook and all load suspension rigging must be included with the weight of the load to determine total weight being lifted. If there is any question as to the forklift's lifting capacities when using this attachment, contact the forklift manufacturer for clarification.

In addition, never exceed the rated capacities of the Lift Hook 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 Lift Hook are equal to or exceed the rating of both the forklift and Lift Hook, if not; always limit the load to the lowest rated part of the lifting system.

The swivel hook is located 24" from the back of the Lift Hook frame. This puts the hook at the same location at which most forklifts are rated – 24" load center. This means that the standard forklift load charts are applicable. Just remember to include the weight of the lift hook. and the weight of the rigging in with the weight of the load. Please keep aware that forklift rated load capacities will vary with boom/mast position. When forks are elevated the rated lift capacity will frequently be decreased and likewise on extendable reach forklifts when the boom is extended the rated capacity will be decreased.

Use:

When using the Lift Hook the forklift forks must remain level or the tips tilted slightly upward. The Lift Hook is designed for vertical lift only and must not be used to pull a load. When lifting a load, the area below the lift should be clear of personnel. All personnel must maintain a safe distance away from danger area should a failure occur.

Safety Precautions:

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 Lift Hook 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 Lift Hook 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 be watchful of the load at all times, especially 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.
12. Never exceed rated capacity of any part of the lifting system.
13. Never allow anyone to ride on Lift Hook or on the load being carried.
14. Forklift operator must be properly trained and have required certifications.
15. Before using the Lift Hook check to see that it is properly secured to the forklift as described in the installation section and that the shackle and hook are properly secured and screw pins are tight.
16. Determine that the loads to be handled are within the capabilities of the forklift. Keep in mind that rated capacities will likely decrease when the boom is in a raised position, or when the mast is tilted forward, or in the case of telehandlers, when the boom is extended.
17. Forks should be level or tipped upward (never down below level) when using the Lift Hook.
18. Do not pull loads – it is designed for vertical lift only.
19. The load should always be carried low and kept from swinging using tag lines as necessary. Any time a load is raised, extreme caution should be exercised as the forklift is far more vulnerable to tipping with a raised load.
20. Any time the load is raised make sure the forklift is on level, firm footing.
21. Refer to the forklift operator's manual for more information on handling elevated loads as well as information for safe and proper forklift operation.
22. Always comply with all local, state, and federal Safety regulations.