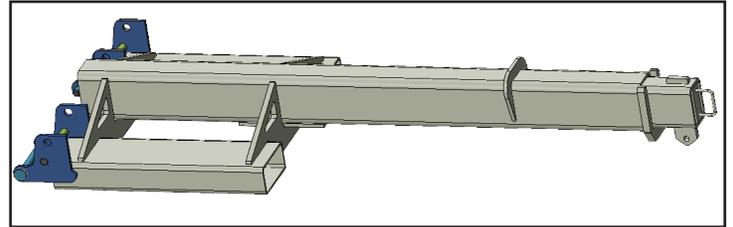




FORKLIFT

HEAVY DUTY JIB

Operator's Manual for Model **1360B**



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.

INSTALLATION, USE & SAFETY PRECAUTIONS

Star model 1360B Heavy Duty Jib is designed for use on industrial lift trucks and rough terrain straight-mast or extendable-reach forklifts. It has been engineered in accordance with ASME and is rated for the load capacities as shown on the load decal on the jib and in the load charts on our brochure. Star Industries has been manufacturing similar jibs for approximately 25 years and during this period, the Star HD Jibs have earned an excellent safety record. They have proven themselves repeatedly on all types of jobs all over the United States as well as in Canada, Mexico and South America.

INSTALLATION:

The HD Jib is installed on the forklift by inserting both forks fully into the fork pockets so that the rear of the Jib is against the back of the fork. If equipped with "Fork Pin Tabs", insert locking pins behind the heel of each fork and secure with hair pins. If equipped with a "safety chain", wrap chain around a strong part of the forklift carriage keeping chain as level as possible. Chain angle must not exceed 45°. Take as many wraps as needed to take up the slack, then hook the chain back onto itself with the locking grab hook. If the grab hook is an open type it should be replaced with a locking type. If equipped with safety chain and fork locking pins use both.

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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Lift Hooks -
Lift up to 22,000 lbs
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Visit www.Starindustries.com or call us at 800-541-1797 for more information on these and other great products.

Swivel Hooks

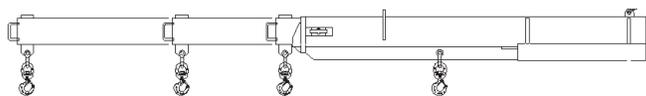
The HD Jib is furnished with one swivel hook which can be positioned in various locations on the underside of the boom for picking loads. The hook is rated at 6000 lbs. lift capacity. More than one hook can be used to pick up the load but the total load weight must not exceed the rated capacity of the jib as shown on the load chart for the most extended hook location. For example if two hooks were used, one at position 4 and the other at position 1, the maximum load allowed would be 2,000 lbs.

Model 1360B	
Max. Load Capacity	6,000 lbs.
Empty Weight	585 lbs.
Extends	7'0" to 12'0"
Vert. Center of Gravity	1¼" from top of fork
Horz. Center of Gravity	
Fully Retracted HCZ	36.31"
Extended Midway HCZ	43.75"
Fully Extended HCZ	54.44"

Jib Load Capacities

Maximum load capacity in the various extended or retracted positions is shown in the table below as well as on a load chart located on the side of the boom. It is very important however, to understand that these load capacity ratings are for the jib itself and do not reflect the capacity of the forklift nor the maximum load that can be safely handled with a particular forklift.

Maximum Load Capacity on a Single Hook				
HOOK POSITION	1	2	3	4
DISTANCE	4'0"	7'0"	9'0"	12'0"
CAPACITY	6,000 lbs.	4,000 lbs.	3,000 lbs.	2,000 lbs.
CAUTION: LOAD CAPACITIES SHOWN ARE FOR THE JIB ONLY AND DO NOT REFLECT THE LIFT CAPACITY OF THE FORKLIFT.				



Position 4 Position 3 Position 2 Position 1

Replacement Parts	
Part Number	Description
1360B-05	Decal Set For Model 1360B HD Jib
1360-06	Spring Action Pin Set for HD Jib
1000-0225	5/16"X3/8 Double Clevis Link Gr 70 6600 lbs. cap
1000-0242TL	Twist Lock Gr 80 Grab Hook for 5/16" Safety Chain
1000-0203	5/16" Grade 100 plain finish chain - per foot
1000-0232	5/8"- 3 Ton Bolted Anchor Shackle
1000-0250	3 Ton Swivel Hook w/latch
1000-0251BA	Replacement Latch for 3 ton hook
1000-0108DBL	Dual 10-1/4" x 1" Locking Pins w/Chain

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, 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.

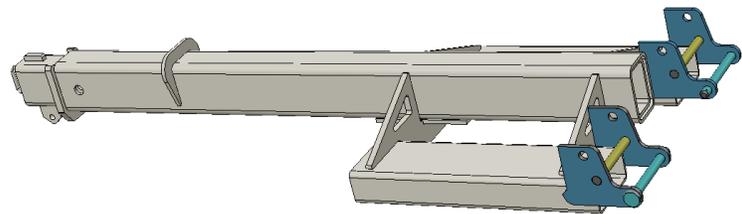
FORKLIFT LOAD CAPACITIES

Care must be taken not to exceed the capacity of the forklift.

When handling a load with the jib, the load center is moved out away from the standard forklift load center (typically 24") which significantly reduces the lift capacity of the forklift. In addition the weight of the jib has been added which also further reduces forklift capacity.

There are two ways to determine the reduced lift capacities when using the jib. Most preferable and most accurate is to contact the forklift manufacturer or certified professional engineer for a de-rated load capacity chart. If this is not available, simple foot pound calculations can be made to estimate the reduced load capacities. For example, a forklift that is rated in the desired lift position at 8000 lbs (at a 2 ft load center) has a lift capacity of 16000 foot lbs. (2 ft x 8000 lbs.)

To calculate, for instance, the forklift de-rated capacity when using our model 1360B jib at its maximum extension of 12'0", simply deduct the 2656 foot lbs for the weight of the jib (cg of 4.54 ft x 585 lbs weight of jib = 2656 ft lbs) from the 16000 ft lbs and then divide the remainder by the new 12 foot load center, which gives us 1112 lbs de-rated lift capacity for an 8,000 lb Forklift with the HD Jib fully extended. The chart on the following page shows these reduced capacity calculations for several forklift capacities.



Please Note as Final Reminder -

Whenever an attachment is added to a lift truck, the weight of the attachment, the new center of gravity of the load, and the new center of gravity of the forklift. The lift capacity of the forklift. The adjacent charts above will allow you to estimate the reduced capacity of your forklift. However, any official "New Down-Rated Capacity" for the lift truck must be obtained from the lift truck manufacturer. Also please note that the capacities shown on the load chart on the job reflect only the capacities of the job itself and in no way reflect the actual capacity of the forklift/attachment combination.

These calculations provide an estimate of the reduced forklift capacity when using the jib. The maximum load capacity for each hook position is shown under the respective forklift rated capacity for that fork position.

Single Hook Capacities for Model 1360B HD Jib

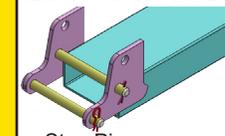
Hook Position	Hook Position Feet	Horz. CG Inches	1. Determine Forklift Capacity (@ 24" load center) from your forklift's load chart for applicable fork & mast position.								
			2,000	3,000	4,000	5,000	6,000	8,000	10,000	12,000	15,000
1	4'0"	36.31	2. Bold figures at top of columns represent your forklift's capacity at the relevant fork & mast position.								
			3. Read de-rated capacity when using HD Jib in respective column								
			557	1057	1557	2057	2557	3557	4557	5557	6000
			319	604	890	1176	1461	2033	2604	3176	4000
2	7'0"	36.31	207	430	652	874	1096	1541	1985	2430	3000
			112	279	446	612	779	1112	1446	1779	2000
3	9'0"	43.75									
4	12'0"	54.44									

GENERAL PRECAUTIONS

1. Forklift operator must be properly trained and have required certifications.
2. Before using the Jib check to see that it is properly secured to the forklift as described below and that the shackles and hooks are properly secured to the Jib.

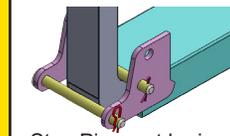
DANGER - DO NOT USE WITHOUT INSTALLING RETAINING PINS behind the heel of each fork and securing with hair pins or cotter pins

EMPTY FORK POCKET



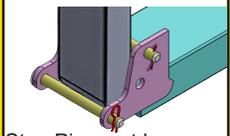
Stop Pin on some attachments are not removable

1 1/2" TO 2 3/4" THICK FORKS



Stop Pin must be in lower hole with using 1 1/2" TO 2 3/4" thick forks

2 1/2" TO 3" THICK FORKS



Stop Pin must be upper holes when using 2 1/2" to 3" thick forks

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

3. Determine that the loads to be handled are within the capabilities of the forklift. Keep in mind, with straight mast forklifts, that rated capacities will decrease when the mast is raised, or in the case of telehandlers, will decrease when the boom is extended and or raised.
4. Forks should be level or tipped upward (never down below level) when using the jib.
5. Do not pull loads. Booms are designed for vertical lift only.
6. The load should always be carried low and kept from swinging using tag lines as necessary. When a load is raised; extreme caution should be exercised as the forklift is far more vulnerable to tipping with a raised load.
7. Any time the load is raised make sure the forklift is on level, firm footing.
8. Check Jib boom extension lock pin to make sure it is functioning properly. Make sure spring has proper tension to keep pin engaged.
9. Refer to the forklift operator's manual for more information on handling elevated loads as well as information for safe and proper forklift operation.
10. Each time before use check all shackles and hooks, make sure cotter pins are installed properly and shackles are properly secured.
11. Always comply with all local, state, and federal Safety regulations.
12. Before each use inspect, inspect hole in shackle plate for wear. If visible wear is found, discontinue use until a safety assesment can be done by qualified personell.
13. DO NOT USE JIB IN ANY WAY TO CARRY OR ELEVATE PERSONNEL!