



**FORKLIFT**

**SELF-DUMP BUCKET**

**Operator's Manual**



**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			
SELF DUMP FORKLIFT BUCKETS - Universal Fit			
Model	Size	Capacity	Weight
1440SD	45" wide	0.25 cuyd.	420 lbs.
1445SD	45" wide	0.5 cuyd.	525 lbs.
1445SDH*	45" wide	0.5 cuyd.	600 lbs.
1472SD	72" wide	0.8 cuyd.	775 lbs.
1472SDH*	72" wide	0.8 cuyd.	760 lbs.
1484SD	84" wide	1.0 cuyd.	790 lbs.
1484SDH*	84" wide	1.0 cuyd.	860 lbs.

\* Requires Hydraulic flow from Forklift.

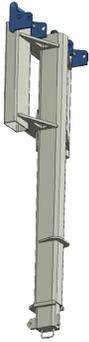
Self-Dump buckets are designed to load loose materials such as sand, gravel, garden mulch, and do yard and/or plant clean-up with a straight mast forklift. They are a "universal-t" "slip-on-forks" style bucket and can be used on most all straight mast forklifts with 48" long forks. They will accept forks up to 2" thick and 6" wide. Modification can be made at time of manufacture to accommodate other fork sizes. Self-Dump buckets either feature a mechanical trip mechanism with a safety lock or hydraulic cylinder to dump the bucket. The mechanical trip style bucket can be tripped by a handle on the back of the bucket or remotely with a rope release. The hydraulic dump style requires a hydraulic valve at the operator's position on the forklift.

Star Self Dump Buckets are available in ¼, ½ and ¾ cubic yard capacities. Rated forklift lift capacity required varies with weight of material being handled, position of mast and forks when dumping, and of coarse bucket model. Weight of empty bucket along with material load

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must be included in capacity considerations. Take care not to exceed lift capacity of the forklift. It is recommended you contact the forklift manufacturer for a de-rated load chart when using this bucket.

## **INSTALLATION INSTRUCTIONS**

### **MECHANICAL TRIP STYLE:**

1. Install bucket on forklift by inserting forks fully into fork channels. Fork channels will accept forks up to 6" wide and 48" long. Install locking pins behind heel of forks and insert hairpins to secure bucket to forks.
2. Engage "bucket trip lock" to prevent accidental dumping of bucket.

### **HYDRAULIC DUMP STYLE:**

1. Install bucket on forklift by inserting forks fully into fork channels. Fork channels will accept forks up to 6" wide and 48" long. Install locking pins behind heel of forks and insert hairpins to secure bucket to forks.
2. Hydraulic flow and a control valve from the forklift are required to power the hydraulic dump cylinder. The simplest way to tap into the forklift hydraulic system is where the forklift is equipped with a side shift carriage or hydraulic fork positioner. Typically hydraulic quick disconnects are installed in the pressure and return lines going the side shift or fork positioner cylinder. This way, after the bucket is installed on the forks, the hydraulic lines going to the side shift or fork positioner can be disconnected and re-connected to the self-dump bucket cylinder lines. Then the valve that controlled the side shift or fork positioner can now be used to control the dump of the bucket.

One set of hydraulic quick disconnects and 2 long hydraulic hoses are furnished with the bucket but typically two more sets of hydraulic quick-disconnects and often two additional short hydraulic hoses will be required. The hydraulic bucket cylinder and hoses are rated for 3000 psi. The amount of hydraulic flow is generally not a factor except the bucket speed it is somewhat relative to the amount of flow. If the forklift is not equipped with a hydraulic side shift or fork positioner then it will be necessary to have your forklift dealer or other service personnel tap into the hydraulic system and install a control valve for the bucket.

**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.

### **OPERATING INSTRUCTIONS**

1. To load material: lower forks until bucket leading edge contacts the ground. Forklift mast may be tilted slightly forward. Drive forward to engage material and fill bucket. Depending on material and forklift traction

### **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.

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

it may take more than one try to completely fill the bucket. Capacity of bucket varies with the model.

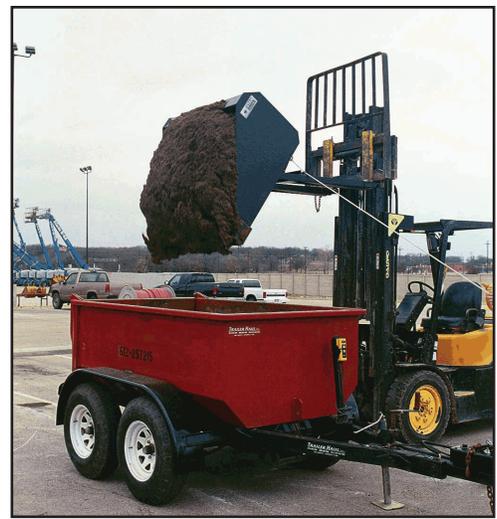
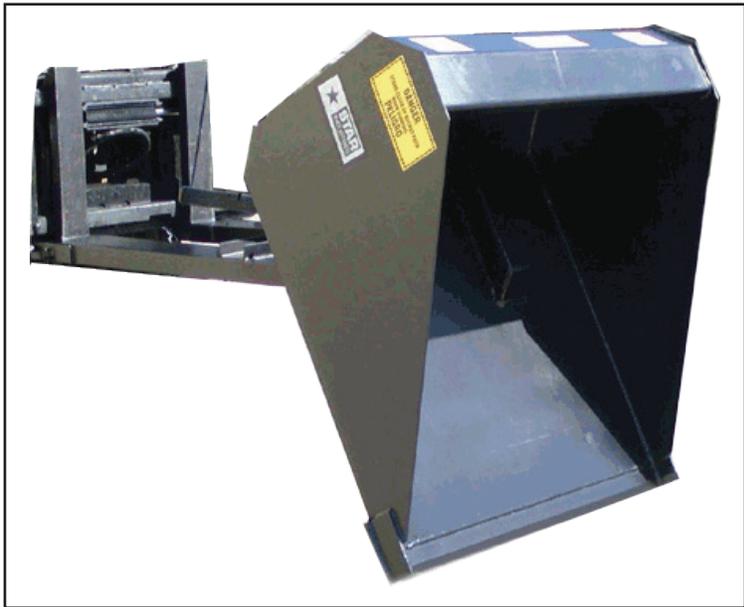
2. After filling bucket, tilt mast back and raise bucket for adequate ground clearance for transportation to discharge point. Always carry load low!
3. To discharge bucket: Mechanical trip style - disengage "bucket trip" lock and then raise mast until bucket bottom is at least 24" above the ground or any obstructions that would be in bucket dump path. Bucket can be tripped with the release handle at the back of the bucket or with the rope release. It may be necessary to tilt the mast back slightly to relieve the pressure on the latch and allow it to release. Be sure all personnel are clear of the dump path before tripping bucket.
4. **To reset the bucket for loading:** Lower bucket to ground while backing up the forklift slightly until the trip mechanism re-engages. Then return the "bucket trip" lock to the engaged position ready for next cycle. Hydraulic dump style - raise mast until bucket bottom is at least 24" above the ground or any obstructions that would be in bucket dump path. Bucket can be dumped with the hydraulic control valve. Be sure all personnel are clear of the dump path before tripping bucket.
5. **To reset the bucket for loading:** Return the bucket to the level position with the hydraulic control valve.

## **WARNINGS**

- Do not stand in bucket nor stand under forklift to release bucket. Never use bucket to elevate personnel
- **Before use:** Inspect self-dump bucket for damage – pay particular attention to latch mechanism (mechanical trip style). If repairs are needed do not use until repairs are made.
- **ALWAYS CARRY LOAD LOW.**
- Do not stand on forklift, climb or reach through mast to trip release. If release handle is beyond safe reach use "rope release" to trip bucket.
- Always stay clear of bucket dump path.
- Make sure total load does not exceed capacity of forklift.

**Self-Dump Bucket Maintenance:** Lubricate latch hinge bolt, latch hook, and trip lock hinge bolt with oil or grease when needed (mechanical trip style). Thoroughly inspect latch, latch hinge bolt, trip lock, retaining spring, fork channels and locking pins for wear, damage or loss. At same time check for broken welds, bent or torn steel or other damage. Repair as needed before further use. Please note – Any modification to the bucket must have manufacturers' written approval.

# Self-Dumping Bucket



Manual release



Hydraulic control

