



INSTRUCTIONS MANUAL

Drop bottom hopper

KBB680



Please read this manual before using the product and follow the instructions it contains!
Read and understand this entire manual before use. Keep this manual for future reference.

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FOREWORD

Congratulations on the purchase of your new drop bottom hopper. The KBB680 has been manufactured from high quality materials, specially designed for durable and reliable use. For your own safety and for the correct operation of the drop bottom hopper, be sure to read and follow these operating instructions before operating the unit. Keep these operating instructions.

Designed to meet applicable OSHA safety requirements *

Check the drop bottom hopper for transport damage. Do not pull damaged forklift attachments into use. The drop bottom hopper is used to transport debris and bulk material by forklift. Improper handling may result in injury or damage to the container. Any liability for damages resulting from the improper use of the drop bottom hopper or the disregard of specifications and rules of conduct of this operating manual is excluded. The operator is responsible for ensuring correct use by trained and authorized personnel.

* This statement refers to the product's design and does not constitute OSHA approval, certification, or endorsement. Actual compliance with OSHA requirements depends on the specific application, workplace conditions, installation, operation, and employer practices.

DEFINITION OF TERMS

SUPERVISOR

A trained and authorized person responsible for ensuring that the bottom-dump container is used only in accordance with this manual and all applicable workplace safety requirements.

The supervisor shall ensure that the bottom-dump container is inspected before use, properly attached to a suitable forklift, operated within its rated capacity, and maintained in safe working condition.

The supervisor shall also ensure that only trained, evaluated, and employer-authorized forklift operators are permitted to transport or operate the bottom-dump container. Operators shall be trained in the use and limitations of the attachment before operation.

Training shall include, but is not limited to:

- Safe operation of the bottom-dump container
- Identification and function of all components, locking mechanisms, and safety devices
- Proper attachment to and use with a suitable forklift
- Verification that the forks are fully inserted into the fork pockets before lifting, transporting, or dumping
- Proper use of all locking and retention devices provided with the product
- Rated load capacity and prohibition against overloading
- Effects of the attachment and load on forklift capacity, load center, stability, and handling
- Inspection of the container, fork pockets, bottom doors, locking mechanism, welds, and other load-bearing components before each use
- Safe lifting, transporting, positioning, and dumping procedures
- Verification that both bottom doors are fully closed and securely locked before filling, lifting, or transporting the container
- Establishment and maintenance of a clear exclusion zone around and beneath the container
- Prohibition against allowing any person to stand or pass beneath a raised container
- Prohibition against opening the bottom doors unless the container is positioned over the intended discharge area and all personnel are clear
- Recognition and prevention of crushing, falling-material, falling-load, pinch-point, and tip-over hazards
- Procedures for removing damaged or malfunctioning equipment from service
- Required maintenance and periodic inspections
- Operator responsibilities
- Emergency procedures and reporting of damage, defects, accidents, and near-miss incidents
- Applicable OSHA requirements, including the requirements for powered industrial trucks under 29 CFR 1910.178

The bottom-dump container shall not be used unless the supervisor has verified that the forklift, attachment, operating conditions, and operator are suitable for the intended task.



Damaged, modified, improperly secured, or malfunctioning equipment shall be removed from service immediately and shall not be used until it has been properly inspected and determined to be safe for operation.

OPERATOR

A person who has been properly trained, evaluated, and authorized by the employer to safely inspect, attach, operate, transport, position, and empty the bottom-dump container in accordance with this instruction manual.

The operator shall be familiar with the bottom-dump container, its intended use, operating limitations, rated capacity, locking mechanisms, and all associated hazards.

The operator shall understand and observe all safety requirements related to:

- Crushing and pinch-point hazards
- Falling material and falling-load hazards
- Unexpected opening of the bottom doors
- Forklift instability and tip-over hazards
- Proper engagement of the forks in the fork pockets
- Proper use of all locking and retention devices
- Maintaining a safe exclusion zone during lifting, transport, and dumping
- Keeping all persons clear of the area beneath and around a raised container
- Safe operation of the forklift with the bottom-dump container attached

The operator shall inspect the bottom-dump container before each use and shall not operate it if any damage, deformation, excessive wear, malfunction, or defective safety device is identified.



Damaged or malfunctioning equipment shall be removed from service immediately and reported to the responsible supervisor.

Cleaning and operator-level maintenance may only be performed when the container is completely lowered, securely supported, empty, and protected against unintended movement or operation.

Repairs, modifications, or maintenance beyond the procedures specifically permitted in this instruction manual shall only be performed by qualified and authorized personnel.

INTENDED USE

The bottom-dump container is intended exclusively for the collection, temporary storage, transport, and controlled discharge of suitable bulk materials, such as rubble, construction debris, sand, stones, and similar materials.

The bottom-dump container shall only be transported and emptied using a suitable forklift with sufficient rated capacity.

The forks shall be fully inserted into the fork pockets, and all required locking and retention devices shall be properly engaged before the container is lifted, transported, or emptied.

The bottom doors shall only be opened when the container is positioned directly above the intended discharge area, and all persons are clear of the container and discharge zone.

The maximum rated load of 3,307 lb shall not be exceeded. The operator shall also verify that the forklift has sufficient capacity for the combined weight of the attachment and its load, taking into account the changed load center and stability of the forklift.

The bottom-dump container is not intended for transporting or storing liquids, hazardous materials, or persons.

The product shall only be used for its intended purpose and in accordance with this instruction manual. Any other use is prohibited.

EQUIPMENT

The drop bottom hopper consists of a powder-coated steel container with double bottom doors, forklift pockets, and designated lifting points for lifting by crane and suitable lifting accessories.

The bottom doors allow the load to be discharged downward in a controlled manner. The container is designed primarily for handling, transport, and emptying with a suitable forklift.

The forklift forks shall be fully inserted into the fork pockets before the container is lifted or transported. When lifting the container by crane, only the designated lifting points and suitable, properly rated lifting accessories shall be used.

The equipment shall only be used with lifting and handling equipment of sufficient rated capacity and in accordance with the instructions provided in this manual.

PPE



WARNING: Required personal protective equipment (PPE) shall be worn whenever the bottom-dump container is inspected, handled, loaded, emptied, cleaned, or maintained. Failure to use appropriate PPE may result in serious injury.

The employer shall conduct a workplace hazard assessment and provide any additional PPE required for the specific work environment and materials being handled.

The following PPE shall be used as applicable:

Symbol	Requirement
	Wear safety glasses with side protection when loading, emptying, cleaning, inspecting, or maintaining the bottom-dump container, particularly where flying particles, dust, or debris may be present.
	Wear suitable protective gloves when handling, inspecting, cleaning, or maintaining the bottom-dump container. Gloves shall provide protection appropriate to the material being handled and the hazards identified.
	Wear an approved protective helmet whenever there is a risk of falling objects or other overhead hazards. A hard hat does not permit personnel to enter or remain beneath a raised container or suspended load.
	Wear protective safety footwear with slip-resistant soles and toe protection when handling or working near the bottom-dump container.
	Wear high-visibility clothing when working in areas where forklifts or other powered industrial trucks are operating.



PPE does not replace safe operating procedures, guarding, exclusion zones, or other required safety measures.

Never stand or place any part of the body beneath a raised bottom-dump container or within the discharge area, regardless of the PPE being worn.

Damaged, defective, contaminated, or unsuitable PPE shall not be used.

REASONABLY FORESEEABLE MISUSE

Reasonably foreseeable misuse includes, but is not limited to:

- Exceeding the maximum rated load capacity of the drop bottom hopper.
- Exceeding the rated capacity of the forklift and attachment combination.
- Transporting, lifting, or carrying persons in or on the bottom-dump hopper.
- Using the container for liquids, corrosive substances, hazardous materials, or other materials for which it is not designed.
- Using the bottom-dump hopper with a forklift that is not suitable or approved for the attachment.
- Using damaged, bent, cracked, excessively worn, or otherwise defective forklift forks.
- Lifting or transporting the container when the forklift forks are not fully inserted into the fork pockets.
- Operating the container without properly engaging all required locking and retention devices.
- Filling, lifting, or transporting the container when the bottom doors are not fully closed and securely locked.
- Opening the bottom doors while the container is resting on the ground or is not correctly positioned above the intended discharge area.
- Opening the bottom doors while persons are located beneath, beside, or within the discharge area of the container.
- Standing, walking, reaching, or working beneath a raised or suspended bottom-dump container.
- Placing hands, feet, or other body parts near the bottom doors, hinges, locking mechanism, or other pinch and crush points during operation.
- Using the container to push, pull, drag, compact, or ram materials or objects.
- Using the container with an unstable, unevenly distributed, or unsecured load that could adversely affect forklift stability.
- Modifying, welding, drilling, repairing, or altering the bottom-dump container without authorization from the manufacturer.
- Bypassing, removing, disabling, or modifying any locking or safety device.
- Using damaged or malfunctioning equipment.
- Using the bottom-dump container for any purpose other than the collection, transport, temporary storage, and controlled discharge of suitable bulk materials.

ACCESSORIES

Accessories are optional components approved for use with the drop bottom hopper.

Only suitable accessories with sufficient rated capacity shall be used.

Do not use damaged, modified, makeshift, or unapproved accessories.

Forklift pockets, bottom doors, locking devices, and lifting points are integral components and are not considered accessories.

TARGET GROUP

This instruction manual is intended for supervisors, operators, and maintenance personnel responsible for the operation, inspection, cleaning, and maintenance of the bottom-dump container.

All persons using or working with the product shall read and understand this instruction manual before use.

IMPORTANT SAFETY INSTRUCTIONS

SIGNAL WORD DEFINITIONS

Illustration	Category	Description
	DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury
	WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury
	CAUTION	Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury
	NOTICE	Indicates information not related to personal injury
	WARNING	Crush hazard. Keep hands, feet, and body away from moving parts and pinch points. Failure to do so could result in serious injury
	WARNING	Suspended / Falling Load. Keep clear of suspended or shifting loads. Falling materials may cause serious injury or death
	WARNING	Forklift Hazard. Only trained personnel may transport the product with a suitable forklift. Keep bystanders clear during forklift operation
	WARNING	Riding Prohibited. Never ride in or on the drop bottom hopper. The product is not designed for transporting people
	WARNING	Personnel Exclusion Zone. Keep all personnel clear of the operating and dumping area during transport and unloading



WARNING – CRUSH HAZARD

Moving components may create pinch and crush points.

- Keep hands, feet, and other body parts away from the tipping mechanism, hinges, locking mechanism, and moving parts.
- Never reach beneath or inside the container while it is being raised, lowered, or tipped.
- Keep clear of the tipping area during operation.

Failure to follow these instructions could result in serious injury or death.



WARNING – FALLING LOAD HAZARD

Improper loading may cause materials to fall.

- Do not load the tipping skip beyond its maximum rated load capacity.
- Never load material above the upper edge of the container.
- Ensure the load is evenly distributed.
- Secure unstable loads before transport.
- Never transport loose materials that may fall onto personnel.
- Do not fill the tipping skip above the upper edge of the container.
- Falling material may cause serious injury.

Failure to follow these instructions could result in serious injury or death.



WARNING – FORKLIFT HAZARD

Improper forklift operation may result in loss of load or overturning.

- Use only a suitable forklift with adequate load capacity.
- Fully insert both forks into the forklift pockets.
- Adjust the fork spacing correctly.
- Slightly tilt the forks backward before lifting.
- Secure the tipping skip against slipping from the forks.
- Transport the tipping skip at a safe travel speed.
- Keep all bystanders away during forklift operation.
- Consider the load distribution on the forks before lifting.
- Observe the operating instructions supplied by the forklift manufacturer.

Failure to follow these instructions could result in serious injury or death.



WARNING – TIP-OVER HAZARD

Improper dumping may cause the tipping skip to overturn.

- Only tip the container while it is fully supported by the forks of a suitable forklift.
- Never tip the container while it is standing on the ground.
- Dump the load slowly and under full control.
- Ensure the safety chains are correctly installed before tipping.
- Engage the locking mechanism before transporting the container.
- Do not tip the container abruptly.
- Sudden dumping may cause the container or forklift to become unstable.
- Apply the parking brakes before tipping the container.

Failure to follow these instructions could result in serious injury or death.



WARNING – RIDING PROHIBITED

The tipping skip is not designed for transporting or lifting people.

- Never ride inside or on the tipping skip.
- Never allow anyone to stand on the container during transport or dumping.
- Never use the tipping skip as a work platform.

Failure to follow these instructions could result in serious injury or death.



WARNING – PERSONNEL EXCLUSION ZONE

People in the operating area may be struck by moving equipment or falling material.

- Keep all personnel clear while transporting or dumping the container.
- Never stand beneath a raised container.
- Ensure the dumping area is clear before releasing the locking mechanism.
- Maintain a safe distance from the forklift and the tipping skip during operation.

Failure to follow these instructions could result in serious injury or death.



NOTICE – PROPER USE

The tipping skip is intended exclusively for transporting and dumping bulk materials and non-corrosive liquids.

Do not use the tipping skip to:

- Do not fill the tipping skip with corrosive liquids.
- Lift or transport people
- Carry hazardous or corrosive materials
- Tow other equipment
- Lift suspended loads
- Operate beyond the specified load capacity
- Modify the product without manufacturer approval

GENERAL SAFETY RULES

- Only persons 18 years of age or older who are properly trained, instructed, and authorized may assemble, operate, service, or maintain the drop bottom hopper.
- Read and understand this instruction manual before using the hopper.
- The forklift shall only be operated by trained and authorized operators. Follow the forklift manufacturer's instructions.
- Wear the required personal protective equipment (PPE) during assembly, operation, inspection, cleaning, servicing and maintenance.
- Use the hopper only with a compatible forklift of sufficient rated capacity. Do not use it with pallet stackers or unsuitable lifting equipment.
- Consider the weight of the hopper and the changed load center. Never exceed the rated capacity of the forklift/attachment combination or the hopper's maximum rated load of 3,300 lbs.
- Only load and transport suitable, stable bulk materials. Never transport or lift persons or animals.
- Inspect the hopper before each use. Immediately remove damaged, deformed, excessively worn, modified, or malfunctioning equipment from service.
- Perform inspections, servicing, and maintenance at the specified intervals. Before any work, completely empty and lower the hopper and secure it against unintended movement or opening.
- Place and store the hopper only on a firm, level, and load-bearing surface. Never fill the hopper while it is raised or suspended.
- Before filling, ensure that both bottom doors are fully closed and the locking claws are securely engaged.
- Fully insert the forklift forks into the designated fork pockets and ensure the hopper is evenly supported. Secure the hopper with the safety chain before lifting, transporting, or emptying.
- Transport the hopper with the load as low as safely possible, at a controlled speed, and with a clear view of the travel path.
- Empty the hopper only over a suitable discharge area. Ensure that all persons, vehicles, and objects are clear before opening the bottom doors.
- Never stand, walk, reach, or work beneath a raised hopper or suspended load.
- Keep hands, feet, and other body parts away from bottom doors, hinges, locking claws, and other pinch or crush points.
- Never manually guide or stop the bottom doors while the hopper is raised.
- Do not use the hopper to push, pull, drag, ram, or compact materials.
- Do not drill, weld, modify, remove, bypass, or alter structural components or safety devices.
- Comply with all applicable federal, state, local, and workplace safety requirements.
- Modifications and changes to the device that have not been approved by the manufacturer will void the warranty.

TECHNICAL DATA

GENERAL

Type	Unit	Value
Brand		SolidHub
Model		KBB680
Color		Blue
Width	in	39.4
Depth	in	31.5
Height	in	33.5
Load capacity	lb	3,300
Capacity	cu yd	0.53
Weight	lb	243

DIMENSIONS

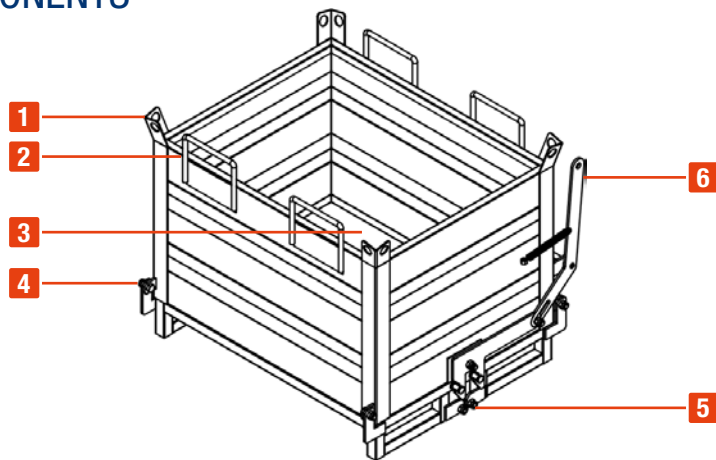
Type	Unit	Value
Width fork opening	in	7.4
Height fork opening	in	3.94
Fork opening spacing	in	7.4
Chain length	in	106

MATERIALS

Type	Unit	Value
Wall gauge	in	0.079 - 0.0315
Material		Steel
Surface		Finish Powder Coated

OVERVIEW OF THE MAIN COMPONENTS

No.	Name
1	Eyelet
2	Forklift opening
3	Hinge
4	Folding bottom
5	Claw
6	Lever



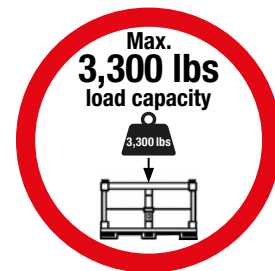
Warning: Crushing Hazard

Keep hands and feet clear of moving parts and discharge areas.



Warning: Suspended Load

Never stand or walk beneath a raised container.



Warning: Maximum Load Capacity

Do not exceed a load capacity of 3,300 lbs.

OPERATING INSTRUCTIONS



Before operation, securely attach the pull rope to the release lever. Route the rope so that the operator can open the bottom doors from the forklift operator's position without leaving the operator compartment.

1. Make sure both bottom doors are completely closed, and the locking claws are fully engaged.
2. Fill the drop bottom hopper only while it is standing securely on a firm, level surface.
3. Pick up the hopper using one of the following methods:
 - a. Forklift: Fully insert the forks into the designated fork pockets.
 - b. Crane: Attach suitable and properly rated lifting slings to all designated lifting eyes.
4. When using a forklift, secure the hopper to the forklift with the safety chain before lifting or transporting it.
5. Verify that the load is evenly distributed and does not exceed the permissible capacity of the hopper or lifting equipment.
6. Lift the hopper only high enough for safe transport. Keep the load as low as practicable while traveling.
7. Travel slowly and maintain a clear view of the travel path.



WARNING – FALLING MATERIAL / CRUSH HAZARD

Keep all persons clear of the area beneath and around the raised hopper. Never stand or reach beneath the hopper or bottom doors. Open the bottom doors only when the hopper is correctly positioned over the designated discharge area.

8. Position the hopper directly above the designated discharge area and bring the forklift to a complete stop.
9. Make sure all persons and objects are clear of the hopper and discharge area.
10. Pull the release rope from the forklift operator's position to open the bottom doors and discharge the material.
11. Allow the bottom doors to open completely. Do not reach beneath or into the hopper while it is raised.
12. After emptying, lower the hopper onto a firm, level surface until both bottom doors close.
13. Verify that the locking claws are fully engaged on both sides before lifting, transporting, or refilling the hopper.



WARNING – OVERLOAD HAZARD

Never exceed the rated capacity of the drop bottom hopper or the permissible capacity of the forklift or lifting equipment.

The maximum rated load capacity of the drop bottom hopper is **3,300 lbs.**

When using a forklift, consider the weight of the hopper, the load, and the changed load center. Exceeding the permissible capacity may cause loss of stability, dropped loads, tip-over, serious injury, or death.

REGULAR INSPECTIONS

1. Inspect the drop bottom hopper before each use. Pay particular attention to:
 - Bottom doors, hinges, locking claws, and release lever
 - Safety chain and attachment points
 - Fork pockets and lifting eyes
 - Welds and structural components for cracks, deformation, or excessive corrosion
 - Damage, excessive wear, or improper operation of the bottom doors and locking mechanism
2. Immediately remove the hopper from service if any defect or damage that could affect safe operation is found. Do not use the hopper until the defect has been corrected.
3. Have the drop bottom hopper thoroughly inspected by a trained and qualified person at least once every 12 months and after any overload, impact, accident, or repair that could affect its structural integrity or safe operation.

SERVICE & CONTACT

Contact our product experts and find help and solutions for your product. Here you will find all contact information listed by country and language: www.topregal.us/en-us/service

Responsible for the content:

TOPREGAL US Corp.

18211 Chisholm Trail

Houston, TX 77060

United States of America

www.topregal.us

EU Declaration of Conformity

The manufacturer

**TOPREGAL US Corp.
18211 Chisholm Trail
Houston, TX 77060
USA**

hereby declares that the following product

Product designation:

**SolidHub
Drop bottom hopper**

Type:

KBB680

Serial number:

KBB680-1000000000 - KBB680-9999999999

complies with all relevant provisions of the applicable legal regulations (hereinafter) - including their amendments in force at the time of the declaration. The sole responsibility for issuing this declaration of conformity lies with the manufacturer. This declaration refers only to the machine in the condition in which it was placed on the market; parts and / or interventions subsequently fitted by the end user are not taken into account.

Complies with the provisions of the following European directives:

**2006/42/EC Machinery Directive
2001/95/EC Product Safety**

Conforms to the provisions of the following standards:

**EN 840-2
EN ISO 12100**

Name and address of the person who is authorized, compile the technical documentation:

TOPREGAL US Corp.
18211 Chisholm Trail
Houston, TX 77060
USA

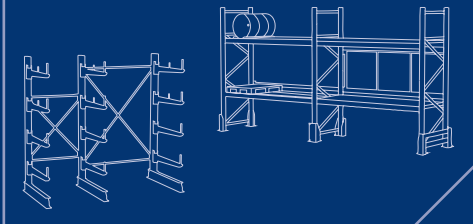


Place: Houston
Date: 24.07.2023

Juergen Effner
Chief Executive Officer

TOPREGAL

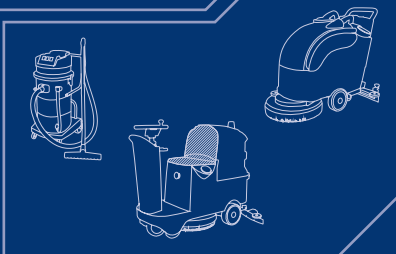
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WIPEKET



TECMASCHIN



SOLOPORT

