

# Mini Series Root Grapple

Operation and Maintenance Manual



Register your  
**WARRANTY**  
within 30 days  
of purchase



888-376-7027 | [BlueDiamondAttachments.com](http://BlueDiamondAttachments.com)



BD-092

# Introduction: Owner Information

Thank you for your decision to purchase a Blue Diamond® Mini Root Grapple. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operator's manual and follow the recommendations. Proper operation and maintenance are essential to maximize equipment life and prevent personal injury.

Operate and maintain this equipment in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and /or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this Operator's Manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

Blue Diamond is continually working to improve its products. Blue Diamond reserves the right to make any improvements or changes as deemed practical and possible without incurring any responsibility or obligation to make any changes or additions to equipment sold previously.

Although great care has been taken to ensure the accuracy of this publication, Blue Diamond makes no warranty or guarantee of any kind, written or expressed, implied or otherwise with regard to the information contained within this manual. Blue Diamond assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from the use of this manual.

Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Blue Diamond Attachments Dealer for assistance, information, or additional copies of the manual. Contact [www.bluediamondattachments.com](http://www.bluediamondattachments.com) or call 888-376-7027 for a complete list of dealers in your area.

## Serial Number Location:

Please record attachment information in the space provided for future reference.



Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

Dealer Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

The serial number plate is located on the right side, just forward of the attachment mounting plate.

Always use your serial number when requesting information or when ordering parts.

**NOTE:** The directions left, right, front and rear, as mentioned throughout this manual, are as viewed from the operator's position.

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# 1. Safety

## 1.1 General Safety Information

## 1.2 Importance of Safety



**DANGER**



The signal word **DANGER** on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING**



The signal word **WARNING** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION**



The signal word **CAUTION** on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



**IMPORTANT**



The signal word **IMPORTANT** identifies procedures which must be followed to avoid damage to the machine.



**DANGER**



It is the responsibility of the operator using this attachment to be acquainted with the safe operation. In addition to reading this manual, it is important that the operator read the skid steer's operation manual and follow its manufacturer's recommendations!

Failure to follow all recommendations in this manual may result in injury or death. This manual is not all inclusive of all scenarios that may cause injury or death or require high levels of caution.

Accidents can be very costly to human life and property. As the operator is the #1 safety device on all types of vehicles or equipment, it is important that the operator read, learn, and know all safety recommendations for this product. The user is responsible to his family, friends, and co-workers to operate any equipment in a safe manner.

Ensure that everyone who operates or assists in the operation or maintenance of this product read and understand all the elements required to safely operate this piece of equipment.

This attachment has moving parts that include additional dangers.

Throughout this manual you will find safety notes which are very important to read and understand before operating this piece of equipment. These classifications alert you to situations that could be harmful to you or bystanders. When you see these alerts in the manual, carefully read and follow all instructions and also protect other workers from the same danger.

# 1. Safety

## 1.3 Operator Safety Training Tips

- Before digging into any surface, always contact the “Digger’s Hotline” to identify underground utilities to avoid an accident that could result in death or serious injury to the operator or fellow workers.
- Before lifting, lowering, or tilting the blade, make sure the area is clear of bystanders or objects.
- Machinery parts sometimes have sharp edges. Wear work gloves when handling moving parts. Always use caution around attachment parts as they often are very sharp.
- Never use drugs or alcoholic drinks when operating or servicing this piece of equipment.
- Always wear the proper personal protection equipment (PPE) when servicing or operating this piece of equipment. Never service or operate this attachment with bare feet, sandals, or other light footwear.
- Always use eye protection during operation.
- Speed Kills! Operate this implement at a safe working speed. When transporting the implement, keep a safe speed to avoid losing control of the attachment or prime mover.
- Keep proper clearance between the implement and objects (utilities, tree stumps, large rocks, buildings, etc.). Contacting these objects with the implement or prime mover could cause a loss of control or damage to the implement or property.
- Before each operation of this implement, check all hardware (bolts, nuts, pins, etc.) for their proper location and tightness.
- Stop the engine on the skid steer and set the brake to avoid the implement rolling forward or backwards while you are exiting the prime mover.

- Store this implement in an area not frequented by children.
- Allow NO riders on this attachment. Keep all bystanders clear of attachment during operation.
- Always replace worn, torn, or missing safety decals before operating.
- Never operate the attachment when bystanders are within 10 feet (3 m) of the work area.
- Operate only during daylight or well-lit artificial light.

## 1.4 Skid Steer Requirements

Your grapple attachment must be connected to a skid steer with adequate horsepower and weight to provide satisfactory results. Tracked loaders will provide superior traction in ground engaging applications and wheeled loaders may provide the best option for above ground material handling applications.

The attachment plate on your grapple attachment will connect to the couplers on most major brand skid steer loaders. Do not modify the attachment plate on this attachment to fit older styles of attachment couplers on older machines. Contact your skid steer loader dealer to supply an undated coupler on an older skid steer to fit this attachment.

Your skid steer must also be equipped with an auxiliary circuit that is available on the loader arms and is controlled by a switch, pedal or handle at the operator position.

CAUTION

Make sure your skid steer is in good working condition. Follow the operating instructions in the manual that accompanied your skid steer. Failure to do so could result in Minor or Serious Injury.

# 1. Safety

## 1.5 Unpacking Your Shipment

Your attachment arrives from the factory banded to a wooden pallet, and requires no final assembly before use.



**CAUTION**



Careless removal of the shipping bands that secure the implement to the pallet could result in Minor or Serious Injury. Clear the area of all bystanders and stand to the side when cutting the bands with a pair of sheet metal shears.

## 1.6 Using Your Implement

### Connecting Attachment to Skid Steer



**DANGER**



Never enter the area underneath the coupler or any part of the attachment when it is in the raised position to avoid an accident that will result in Death or Serious Injury.

Verify that the hydraulic hoses are clear from the front of the attaching plate on the attachment and that the mounting plate is free from dirt and debris. When clear, move the skid steer to proximity of attachment plate. Tilt skid steer coupler forward to align coupling point with the upper part on the attachment plate and raise the coupler slightly.



When the top edge of the coupler is seated in the top part of the coupler plate, roll the skid steer tilt function back until the attaching plate is flat against the skid steer coupler. Lock down the coupler levers.

**NOTE:** If your skid steer is equipped with a hydraulically operated coupler, activate the coupler lock at this time.

**PLEASE NOTE:**

Attachment and Machine-side Couplings must be **FREE OF DEBRIS BEFORE INSTALLING.**

Failure to comply will void warranty.



**IMPORTANT**

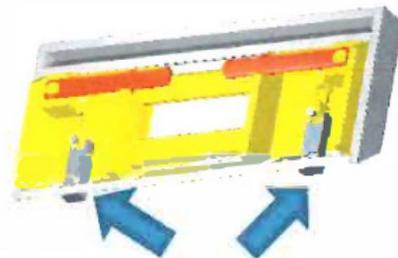


Wipe off any dirt or dust from the male or female hydraulic flat-face couplers with a clean rag before attaching hoses, to keep contaminants from entering the hydraulic system.

Connect the attachment hydraulic hoses to the auxiliary supply couplers located on your skid steer loader lift arm.

Check the surrounding area for bystanders and clear them before starting the skid steer or attachment.

Before operating the attachment, **ALWAYS** visually inspect and verify that the coupler lock pins are fully engaged through the latch slots on the attachment plate.



# 1. Safety

## Pre-Operation Walkaround Inspection

Before every use, it is important to perform a short inspection and certain maintenance on your grapple attachment.

	ITEMS
✓	Check that all shields and guards are in place.
✓	Look for loose bolts and tighten them if necessary.
✓	Check that all safety decals are in place and can be read. Replace them if necessary.
✓	Take care of our environment. Repair any hydraulic leaks.

## Grapple Attachment Controls

Your grapple attachment is designed to run off the skid steer loader auxiliary hydraulic system, with the additional grapple open and close function activated by a control switch, pedal or handle in the operator's cab. Consult your skid steer operator's manual for precise instructions on how to activate, reverse, and neutralize the auxiliary circuit.

Height and tilt functions of the attachment are operated with the control handles or pedals in the cab. Consult your skid steer operator's manual for precise instructions regarding these functions.

Your skid steer may have a "float" function on the lowering circuit. When placed in the float position, the attachment will follow the contour of the ground being worked. This is especially helpful when back-dragging a new cut. See your skid steer's Operator's Manual for instructions about how to use the float on your skid steer.

If during your initial startup you realize the grapple function operates in the opposite direction that you prefer, you can change positions of the quick disconnect couplers on the attachment hoses to remedy your problem.

## Before Using Your Grapple for the First Time



### WARNING



Moving the attachment with bystanders in the area could result in Death or Serious Injury. Before moving the attachment or machine, always make sure the area is clear of bystanders.



### IMPORTANT



If this is your initial startup with this attachment on this machine, check the skid steer's hydraulic oil level and add oil, if necessary, before and after doing steps 1 & 2 below.

After starting the skid steer, lift the attachment 10" (254 mm) off the ground surface:

1. With the skid steer engine RPMs just above idle, slowly engage the auxiliary hydraulic flow to the grapple arm until the grapple arm(s) are fully open. Reverse the direction of the grapple arms until the grapple arm(s) are fully closed. Repeat this two more times to purge any air from the system.
2. Lower the attachment to the ground and shut off the skid steer's engine and exit the operator's compartment.
3. Check the skid steer's hydraulic oil level, and add oil if necessary.
4. Inspect the grapple attachment's hydraulic plumbing for any noticeable leaks. Correct these leaks before continuing.

# 1. Safety

## Getting Familiar with the Attachment



**DANGER**



Never operate the grapple arms when bystanders are within 10' (3 m) of your work area.



**CAUTION**



Be cautious when operating on uneven ground surfaces. A machine roll over could result in Minor or Serious Injury. Always wear your seat belt when operating this type of machinery.

Before starting the engine with this grapple attachment connected to the skid steer, make sure you are knowledgeable and comfortable with the operation of the auxiliary hydraulic control as outlined in the previous sections of this manual and that in the skid steer loader Owner's Manual.

When operating the grapple attachment, set the skid steer throttle at a speed that will produce the required flow, to the attachment and the other loader functions. If the skid steer is equipped with a foot throttle, use it to control engine speed and power being delivered to the attachment. Refer to your skid steer manual or call your local skid steer dealer for additional help, if necessary.

To begin with, learn what the attachment looks like in a level position when you are seated in the skid steer. Knowing what a level implement looks like will help you with your attachment operation.

The correct ground speed for using this attachment will depend on the application and conditions and usually can be monitored by sound and feel and depends on the material density. If the skid steer engine is bogging down because of taking too big of a "bite" with the attachment, it will be necessary to raise or decrease the load a little until the machine's power can overcome the material load on the attachment.

## Before Starting



**WARNING**



Before digging into any surface, always contact the "Digger's Hotline" to identify underground utilities to avoid an accident that could result in Death or Serious Injury to the operator or fellow workers.



**WARNING**



Exposure to crystalline silica dust along with other hazardous dusts may cause serious or fatal respiratory disease. It is recommended to use dust suppression, dust collection, and if necessary personal protective equipment during the operation of any attachment that may cause a high level of dust.

Inspect the area to be worked and make sure it is free of any utilities, rocks, fence posts, or any other objects that you do not want to move.

Determine a safe and efficient duty cycle pattern before the start of the job.

## Grapple Attachment Tips



**CAUTION**



Be cautious when operating on un-level ground surfaces. A machine roll over could result in Minor or Serious Injury. Always wear your seat belt when operating this type of machinery.

1. Always inspect the work area before starting the job. Locate and mark any utilities, steel posts, rocks, or any other objects that could be damaged or would damage the attachment during operation. Never assume the work area is safe and never skip the inspection part before start of operation.

# 1. Safety

2. Operate at a safe slow-paced speed that will allow you to watch the area ahead and behind the attachment and loader. Since about half of your duty cycle may be in reverse, look behind you and/or utilize your mirrors when backing up. *Verify that your backup alarm is working properly to warn others when you are in reverse, but never think that the alarm replaces your responsibility to visually check what's behind you.*

3. Overloading the attachment will only result in spinning the tracks or tires and will make unwanted ruts. Overloading the attachment will also necessitate raising the implement to off load some of the resistance occurring by the material. When you raise the attachment, you will create an unlevelled surface that will increase as the front of the prime mover drives over the rise of the ground surface.

4. If you lift too heavy a load with your attachment, you may raise the rear of your skid steer and further reduce your tractive power available to move the load.

5. Before beginning your forward motion with the attachment, stop the skid steer and make any final adjustments to the attachment in terms of height & tilt.

6. Center your load on the attachment. Estimate the load center and pick it accordingly. If the load feels unbalanced when you lift it, reposition your grab and retry the lift. An unbalanced load could overturn your skid steer.

7. After loading your attachment and clamping the arms over the load, roll the attachment

back and retighten the clamp arm pressure. When rolling back the attachment, the load will settle and require some additional clamping pressure to secure the load.



## WARNING



When lifting a load of brush or trees, make sure all ends are not tangled with standing trees that could cause the center of gravity to be compromised, resulting in a rollover that could cause Death or Serious Injury.

8. The grapple clamp should not be used for pushing or pulling down trees or any type of structure. The clamp's purpose is to clamp the load so it can be moved to a different spot on the job site.
9. To save some service work and down time, always pay attention that tree branches or roots do not poke through past the attachment arms and damage any hydraulic parts or even enter the cab area.
10. Be careful that a branch or root doesn't "whip" back at the skid steer. Wear safety glasses to prevent dirt getting your eyes.



## WARNING



Use extreme caution when working around low hanging electrical lines. Do not raise the attachment in an area where there are low electrical lines to prevent an accident that may result in Death or Serious Injury. Keep your distance from any type of utility wire that is overhead or in the air.

12. Always clean the quick-disconnect couplers before connecting them to the skid steer. Utilize plastic or metal caps to protect the ends when not being used. Tuck the quick disconnect hoses somewhere in the attachment where they will be out of the dirt and will not be driven over.



## 2. Maintenance

### 2.1 Maintaining Your Attachment

#### Before Every Use

Check that all fasteners (nuts, bolts, pins, keepers) are in their right place and are tight.

Inspect and replace any worn, torn, or missing safety decals.

Investigate the location of any oil leaks and repair.

Lubricate all pivot joints with #2 lithium grease

#### Every Week

Check the condition of the grapple frame. Repair if necessary.

#### After Every Season

Inspect the implement for any loose or worn parts that may need to be replaced prior to the next season.

Clean and repaint any area that looks worn or scratched to prevent further rusting. Use an equipment paint found at your local hardware store or building center.

Replace any warning decals that have been lost or damaged.

Store your implement in a shed or cover with a water-proof tarp to protect it from the weather. Store in an area not frequented by children.

#### Hydraulic System



#### WARNING



A small stream of oil from a pinhole leak could penetrate your skin if contacted. To avoid an accident that could result in Death or Serious Injury, never use your hand or other body parts in an attempt to locate a hydraulic leak.



#### IMPORTANT



Always release the hydraulic system pressure from the hydraulic circuits prior to removing the attachment or any hydraulic system service work.

### 3. Parts

#### 3.1 Single Clamp Parts Breakdown



## 3. Parts

### 3.1 Single Clamp Parts Breakdown

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Main Frame 36"	206038	1
	Main Frame 42"	206040	1
	Main Frame 44"	206041	1
	Main Frame 50"	206042	1
2	Clamp	206044	1
3	Clamp Pivot Pin	206046	2
4	Cylinder	207002	1
5	Cylinder Cover	206036	1
NS	Cylinder Fitting	295030-M06ORB-M06JIC	2
NS	Cylinder Restrictor Fitting	206052	1
6	Rear Cylinder Pin	206046	1
7	Front Cylinder Pin	206051	1
8	Pin Retaining Bolt	299415	4
9	Pin Retaining Nut	299653	4
10	Hose Set	206096	1
NS	Female Coupler	224009	1
NS	Male Coupler	224010	1
NS	Coupler Fitting	295010-M06JIC-M08ORB	2

### 3. Parts

#### 3.2 Double Clamp Parts Breakdown



## 3. Parts

### 3.2 Double Clamp Parts Breakdown

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Main Frame 50"	206043	1
2	Clamp	206139-2	2
3	Clamp Pivot Pin	206046	5
4	Cylinder	207002	2
5	Cylinder Cover	206036	2
NS	Cylinder Fitting	295030-M06ORB-M06JIC	4
6	Rear Cylinder Pin	206046	2
7	Front Cylinder Pin	206051	2
8	Pin Retaining Bolt	299415	8
9	Pin Retaining Nut	299653	8
10	Machine Hose Set	206096	1
11	Hose Cover Bulkhead	206054	1
NS	Bulkhead Stover Nut	208550	2
NS	Bulkhead Washer	299725	2
NS	Bulkhead Tee	206355	2
12	Long Cylinder Hose	206055	2
13	Short Cylinder Hose	206056	2
NS	Female Coupler	224017	1
NS	Male Coupler	224018	1
NS	Coupler Fitting	295010-M06JIC-M08ORB	2

## 4. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Hydraulic oil level goes down during operation	Leak at hoses on attachment	Investigate and repair
	Leak in skid steer hydraulic system	Investigate and repair
Grapple does not open or close	Quick disconnects not connected	Check and recouple quick disconnects
	Hose damaged	Check for smashed or kinked hose and replace if found
	Skid steer auxiliary circuit inoperative	Investigate and have them repaired
Grapple moves very slow	Restricted hose	Check for damaged hose between skid steer and grapple cylinders. If damaged, replace the hose.
	Circuit relief on skid steer bad	Investigate and have repaired
	Auxiliary valve spool on skid steer not shifting properly	Investigate and have repaired
	Grapple cylinder seals bypassing	Have cylinder(s) repacked or replaced

## 5. Specifications

### 5.1 Torque Specifications

#### Standard Hardware and Lock Nuts

BOLT TYPE	SAE GRADE 5		SAE GRADE 8		LOCK NUTS			
	Nominal Size	Plated or Unplated Silver	Plated W/ ZnCr Gold	Plated or Unplated Silver	Plated W/ ZnCr Gold	Plated or Unplated Silver	Plated W/ ZnCr Gold	W/ Grade 5 Bolt
1/4	55 in / lb (6.2 N•m)	72 in / lb (8.1 N•m)	86 in / lb (9.7 N•m)	112 in / lb (12.6 N•m)	121 in / lb (13.6 N•m)	157 in / lb (17.7 N•m)	61 in / lb (6.9 N•m)	86 in / lb (9.8 N•m)
5/16	115 in / lb (13 N•m)	149 in / lb (17 N•m)	178 in / lb (20 N•m)	229 in / lb (26 N•m)	250 in / lb (28 N•m)	325 in / lb (37 N•m)	125 in / lb (14 N•m)	176 in / lb (20 N•m)
3/8	17 ft / lb (23 N•m)	22 ft / lb (30 N•m)	26 ft / lb (35 N•m)	34 ft / lb (46 N•m)	37 ft / lb (50 N•m)	48 ft / lb (65 N•m)	19 ft / lb (26 N•m)	26 ft / lb (35 N•m)
7/16	27 ft / lb (37 N•m)	35 ft / lb (47 N•m)	42 ft / lb (57 N•m)	54 ft / lb (73 N•m)	59 ft / lb (80 N•m)	77 ft / lb (104 N•m)	30 ft / lb (41 N•m)	42 ft / lb (57 N•m)
1/2	42 ft / lb (57 N•m)	54 ft / lb (73 N•m)	64 ft / lb (87 N•m)	83 ft / lb (113 N•m)	91 ft / lb (123 N•m)	117 ft / lb (159 N•m)	45 ft / lb (61 N•m)	64 ft / lb (88 N•m)
9/16	60 ft / lb (81 N•m)	77 ft / lb (104 N•m)	92 ft / lb (125 N•m)	120 ft / lb (163 N•m)	130 ft / lb (176 N•m)	169 ft / lb (229 N•m)	65 ft / lb (88 N•m)	92 ft / lb (125 N•m)
5/8	83 ft / lb (112 N•m)	107 ft / lb (145 N•m)	128 ft / lb (174 N•m)	165 ft / lb (224 N•m)	180 ft / lb (244 N•m)	233 ft / lb (316 N•m)	90 ft / lb (122 N•m)	127 ft / lb (172 N•m)
3/4	146 ft / lb (198 N•m)	189 ft / lb (256 N•m)	226 ft / lb (306 N•m)	293 ft / lb (397 N•m)	319 ft / lb (432 N•m)	413 ft / lb (560 N•m)	160 ft / lb (217 N•m)	226 ft / lb (306 N•m)
7/8	142 ft / lb (193 N•m)	183 ft / lb (248 N•m)	365 ft / lb (495 N•m)	473 ft / lb (641 N•m)	515 ft / lb (698 N•m)	667 ft / lb (904 N•m)	258 ft / lb (350 N•m)	364 ft / lb (494 N•m)
1	213 ft / lb (289 N•m)	275 ft / lb (373 N•m)	547 ft / lb (742 N•m)	708 ft / lb (960 N•m)	773 ft / lb (1048 N•m)	1000 ft / lb (1356 N•m)	386 ft / lb (523 N•m)	545 ft / lb (739 N•m)



## Warranty

### MANUFACTURER'S LIMITED WARRANTY

BLUE DIAMOND® ATTACHMENTS, a manufacturer of quality attachments, warrants new BLUE DIAMOND® ATTACHMENTS products and/or attachments at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth by BLUE DIAMOND® ATTACHMENTS, LLC.

BLUE DIAMOND® ATTACHMENTS liability for any defect with respect to accepted goods shall be limited to repairing the goods at a BLUE DIAMOND® ATTACHMENTS designated location or at an authorized dealer location, or replacing them, as BLUE DIAMOND® ATTACHMENTS shall elect. The above shall be in accordance with BLUE DIAMOND® ATTACHMENTS warranty adjustment policies. BLUE DIAMOND® ATTACHMENTS obligation shall terminate twelve (12) months for the Mini Root Grapple after the delivery of the goods to original purchaser.

This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the BLUE DIAMOND® ATTACHMENTS factory or authorized BLUE DIAMOND® ATTACHMENTS dealership or in any way so as in BLUE DIAMOND® ATTACHMENTS judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident beyond the company recommended machine rated capacity.

### WARRANTY CLAIM

To submit a warranty claim, a claim must be filed with BLUE DIAMOND® ATTACHMENTS before work is performed. The BLUE DIAMOND® PRODUCT SUPPORT TEAM will advise repairs and applicable parts exchanges. Tampering with the failed part may void the warranty. This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls, and pickup/delivery charges are the customers' responsibility.

### EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, BLUE DIAMOND® ATTACHMENTS makes no representation or warranty of any kind, expressed or implied, AND MAKES NO WARRANTY OF MERCHANTABILITY IN RESPECT TO ITS MACHINERY AND/OR ATTACHMENTS ARE FIT FOR ANY PARTICULAR PURPOSE. BLUE DIAMOND® ATTACHMENTS shall not be liable for incidental or consequential damages for any breach or warranty, including but not limited to inconvenience, rental of replacement equipment, loss of profits or other commercial loss. Upon purchase, the buyer assumes all liability for all personal injury and property resulting from the handling, possession, or use of the goods by the buyer.

No agent, employee, or representative of BLUE DIAMOND® ATTACHMENTS has any authority to bind BLUE DIAMOND® ATTACHMENTS to any affirmation, representation, or warranty concerning its machinery and/or attachments except as specifically set forth herein.

This warranty policy supersedes any previous documents.

**NOTE:** Blue Diamond® Attachments is a trademark of BLUE DIAMOND® ATTACHMENTS



**QUALITY | DEPENDABILITY | INTEGRITY**

Blue Diamond® Attachments  
4512 Anderson Road, Knoxville, TN 37918  
888-376-7027