

# VALBY



Pictured GR50 with JD Coupler

### Northeast Implement

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It is very important to read this entire owners/operators manual before using this machine



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Date of Purchase:



1: TO THE	OWNER-OPRA	ATOR		
Thank you	for purchasing a \	/ALBY product		
this piece of ignored. Re	of equipment can ead this manual c	be very dangerous i arefully page by pag	f safety pr ge until yo	ou, the owner-operator, to know ocedures and warnings are understand it completely. or equipment damage.
•	el including opera fore start up.	ators, maintenance	crews, and	d bystanders, etc. should read this
	al should be consi- Juipment if you se		part of yo	ur equipment and should remain
IMPORTER:	:			
	<b>T IMPLEMENT</b> Valley Road Y 14883			
Phone: Fax: E-Mail: Web:	•			
Record You	ır Serial Number:	GR60HD Log Grapp	ole s/n:	
		R12 Rotator	s/n:	
		RMR11 Rotator	s/n:	



### 2: SAFETY INSTRUCTIONS

#### TERMS AND SYMBOLS USED IN INSTRUCTIONS



Safety is a combination of operator common sense and alertness at all times when the machine is being operated.



This message is used for general reminders of good safety practices or to direct attention to unsafe practices. The message will appear in your operators' manual and/or the sign will appear on the machine with a color combination of yellow and black



This Message denotes a specific potential hazard. The sign will be displayed on the machine in areas of potential hazard. The sign will have the color combination of yellow and black



This message denotes the most serious specific hazard. The sign will be displayed on the machine in areas of potential hazard.



Message labeled "Important" will appear in your operator's manual to provide specific instructions for performing adjustments, service, etc. If these instructions are not followed it could result in damage to the machine.



### 3: General Safety



Do not operate this machine until you have read the manual page by page and understand the manual. The owner of this machine is responsible for all operators and support personnel in the operation and safety precautions of this chipper. Proper training prior to operation of the chipper is obligatory.

- Study the manual and read all safety instructions carefully, including all instruction stickers on the machine.
- Before anyone uses the grapple, make sure that he/she also studies these instructions for use and all safety regulations
- The operator must be of age (not a minor) and in good health.
- The operator cannot be under the influence of alcohol, drugs or medicines.
- Stay alert! Do not operate the grapple when fatigued.
- In order not to endanger the safety of the operator, do not modify the machine.
- Use only original parts replacements. Remove all inappropriate components that don't belong to the machine.
- Install all protective shields in their proper place.
- Study the function of all controls.
- Place the attachment on the ground in such a position that it cannot move during maintenance, cleaning, adjustments, and installation of accessories or storage.
- Don't put the grapple into such uses, for which it is not designed.
- The danger zone is 80 feet; ensure that no one is inside the danger zone, take special note of children.
- Familiarize yourself with the controls and how to stop the machine in an emergency.
- Never leave the attachment hanging in the air.
- Do not wear loose or torn clothes. Keep hands, feet and clothing away from power driven parts.
- Never go under the attachment or the load. Always operate the grapple from the cab of the machine.
- Check the tightness of all nuts and bolts after the first service hour. Also check the tightness at least once a month. They should be fastened in place, and in good working condition.
- Before lubricating the machine, shut down the engine and stop the machine.
- Observe possible leakage of hydraulic oil during the use of the machine. Repair leaks immediately to prevent contamination of nature.
- Pressurized oil can be hazardous. Pressurized oil jet can penetrate skin and cause serious injuries or death.



- Wear protective gloves and other protective clothing to prevent exposures.
- In case you install a new additional valve system, you have to take into consideration that pressurized hydraulic hoses cannot be in the cabin area without protection.
- The valve controls must be installed in the cabin of the equipment.
- The attachment is designed for short distance transfer of timber on a landing.
   Carrying a load is not allowed during highway driving.
- Failure to heed the warnings printed on the grapple or in the operator's manual may result in serious injury or death!



### 4: CONNECTION & MOUNTING

#### **4.1 CONNECTING TO THE HYDRAULIC SYSTEM**

The circuit must be cleaned carefully. Oil should be circulated throughout the hydraulic system when the hydraulic system is up to operating temperature. This will lead the dirt particles to the filter. The loader must have a relief valve that restricts the pressure coming to the rotator to 3000 PSI. The connection to the hydraulic system requires two double acting valves. The housing of the rotor is marked for hook up as follows:

G<> Opening of the grappleG>< Closing of the grapple</li>

R< Rotator turning to the direction of the pointer

R> Rotator turning to the direction of the pointer



As the grapples often have a maximum working pressure of 2900 lbs., one can put a pressure relief valve if needed to the

circuit which is closing the grapple. When operating the grapple, don't leave the grapple open or closed in the machines extreme positions. This leaves pressure inside the grapple.

### 4.2 Mounting

Do not start the oil flow before operating valve is connected to the hydraulics.

The recommended way is to connect the pressure hose to a single acting hydraulic

output, and the return hose via filter to tank.

When the crane is connected to a double acting hydraulic connection, the pressure and return hoses are coupled to their own connections. Note that the machines' lever for double action valve directs the pressure correctly to cranes operating valves pressure connection.

Make sure the quick couplers lock when they are connected.

Place the control box at a convenient location in the cab.

Hook up the wires that go into the control box into a 12 volt DC battery so that the red wire goes to the positive terminal, and the black wire to the negative terminal.



The maximum pressure is 3,625 PSI. If your machines' relief valve is set to higher pressures, you must add a

second relief valve to protect the grapple.



# 4.3 Protecting Hydraulic Hoses

Hydraulic hoses must be placed and protected so that they are not exposed

to rubbing, torque or mangling.

If pressure hoses must be led through operator's cabin, they must be protected, so that in case of breakage, nobody is endangered by oil spray.



### 5: OPERATION

### 5.1 Test Operation



Test out the grapple when the machine is running at idling speed so the movements of the grapple will be slow.

To bleed air from the system, cautiously operate the different movements one by one to their extreme positions, until the movements are smooth. The solenoid valve restricts you to use one function at a time. You can open or close the jaws, or run the rotator, but not simultaneously.

After test operation, check hoses and connections.

Fill up the hydraulic oil tank.

#### 5.2 Practicing



Read and understand the operation and safety instructions before using the grapple.

Learn to control every operation of the grapple with an empty grapple. It is beneficial to adjust the pumps output as low as possible when you are practicing. This makes avoiding sudden movements easier. After you are accustom to the grapples movements, choose an engine speed so that operation is efficient, but you still have the movements well under your control.

#### **5.3 OPERATION CONDITIONS**



This rotator is intended to be used on hydraulic loaders such as log loaders. The axle of the rotator is fastened to a grapple.

Using the rotator, one can turn the load horizontally. The oil for opening and closing the jaws of the grapple is piped thru the axle of the rotator. The maximum lifting capacity of the grapple should not be bigger than the maximum lifting capacity of the rotator. When using the rotator, one should ensure that the oil flows normally. The working temperature of the grapple is between –10F degrees to 120F degrees.

### **5.4 OPERATION SAFETY**



- Ensure that the highest load capacity of the rotator is not exceeded.
- Ensure that the hydraulics have reached operational temperatures.
- Check the speed and the direction of the motions, and the function of the controls.
- Lift up the load before using the rotator. Do not drag the load.
- Closely observe the load when lifting it, the rotator does not have a brake and the load might turn due to wind or an unbalanced load.
- To stop the motion of the load, one must take corrective action from the valve.



 Ensure that the hydraulic hoses do not come into contact with obstacles. The breakage of a hose or a fitting might cause the dropping of the load or the continued turning of the rotator.

#### 5.5 MOUNTING INSTRUCTIONS

The rotator is hooked thru a hanger to the lifting boom. The rotator must always be able to hang freely in a vertical position. The swinging motion of the rotator should be restricted, and the hydraulic hoses should be protected so that there is no risk for damage

#### **5.6 LIFTING LOADS**



Use the loader and the rotator with care according to the safety instructions included with the loader.

Avoid stressing the rotator axle sideways. For example, dragging a load before it is lifted off the ground is prohibited. Breakage of a hydraulic hose or a fitting might cause the load to drop or the rotation to continue. Damage to a hose might cause a high pressured oil spray.

#### **5.7 SERVICE INSTRUCTIONS**

The rotator must be serviced if the rotation is becoming uneven and stops temporarily. The pin which fastens the rotator to the boom must be greased once a week. The rotator hookup to the boom and the condition of the hoses must be checked once a week for breakage. Possible oil leaks or damage must be repaired immediately. If the pressure of

the grapple has diminished, or if it is opening by itself, check the seals that lead the oil through the rotator shaft. The torque of the bolts that tie the rotator together must be checked once a year. Repairing the rotator by welding is forbidden. Replacement of seals and other components must be done by a qualified technician.

#### **5.8 STORAGE AND TRANSPORT**

The hook ups to the rotator have to be kept closed or protected with plugs if the rotator is dismounted from the loader. The rotator should be protected from moisture and extreme temperature changes.



### **6: ADDITIONAL SAFETY**

#### 6.1 Electrical Wires

# If an Electric Wire is Touching Your Machine

DANGER!

When working close to live electric wires, comply with the 80 ft. danger zone.

If the machine comes into contact with high voltage electric wires comply with following instructions:

If you are outside the machine do not touch any part of the machine. Do not attempt to get into the machine. Keep everybody out from the machines vicinity.

If you are inside the machine get out of it by jumping. Avoid touching any conducting parts. Do not make yourself a conductor through which electricity may flow. Get away from the machine by jumping so that no part of your body is in contact with the machine when you hit the ground. The electric field conducted by the ground can cause fatal voltage.

You are safe at about 70 ft. from the wire. Call for help.

#### **6.2 ADDITIONAL CAUTIONS**



The operator must observe the load during the lift. The rotator does not have a brake. If the load moves,

for example, due to wind, or if the load is not in balance, the movement of the load has to be stopped by corrective action of the operator.

### Warnings:

The warnings, cautions and instructions discussed in this manual cannot cover all possibilities conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



### 7: TECHNICAL DATA

Grapple GR60HD	
Weight	564 lbs.
Lifting Capacity	33,069 lbs.
Gripping Force	3,732 ft/lbs.
Gripping Area	3.20 sq. ft.
Maximum Pressure	3,626 psi
Recommended Flow	16 gpm
Recommended Excavator	12-16 Ton
Rotator R12	
Rotation	Unlimited
Weight	138 lbs.
Lifting Capacity	22,046 lbs.
Maximum Pressure	3626 psi
Flow Rate	5 gpm
Displacement	35 cubic inches
Torque	1,770 ft/lbs.
Rotator RMR11	
Rotation	Unlimited
Weight	
Lifting Capacity	
Maximum Pressure	
Flow Rate	
Displacement	
Torque	

VALBY GR60HD Log Grapple	Pos.	Measure
F	Α	61"
C	В	21"
B	С	31"
E	D	4"
A	E	20"



### 8: MAINTENANCE & LUBRICATION

	First 8 Hours	Every 20 Hours	Monthly	Procedure
Grapple				
Bolts/Nuts	X		Χ	Check for Tightness
Joints		X		Grease
Rotator				
Flange	X		Χ	Check for Tightness
All Hyd. Fittings	X		Х	Check for Tightness/Leaks



### 9: EXECAVATOR GRAPPLE



**Spare Parts List for Excavator Grapple** 

Part	Order #	Description	Qty
1	GR60HD	VALBY 60" HD Log Grapple (See Enclosed Parts Breakdown)	
2	511602	Long Grapple Hose	1
3		Flange (Only on GR50 or Larger) n/a R6 or R12	
4	R12	Intermercato Rotator (See Enclosed Parts Breakdown)	1
5	145640	Hanger	1
6	Hanger on Plate	Model Specific	1
7	75012005	Diverter Valve to Rotator Hoses	4
	75012008	Lead Hoses when sold W/out Diverter Valve	4
8	511601	Short Grapple Hose	1



# 10: DIVERTER VALVE (Optional)



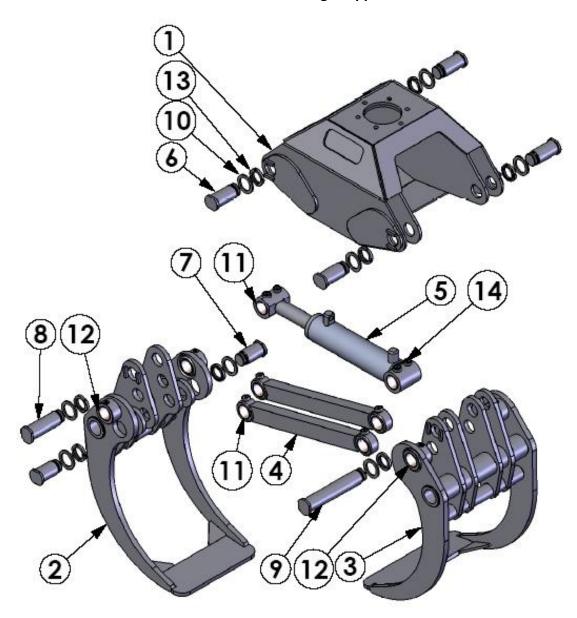
Spare Parts List for Optional Diverter Valve

Part	Order #	Description	Qty
1	75012007	Diverter Valve To Boom Hose	2
2	75002003	Diverter Valve	1
3	75113000	Wiring Harness(w/Tap Switch)	1
4	75012005	Diverter Valve to Rotator Hoses	4



### 11: GRAPPLE

### **VALBY GR60HD Log Grapple**





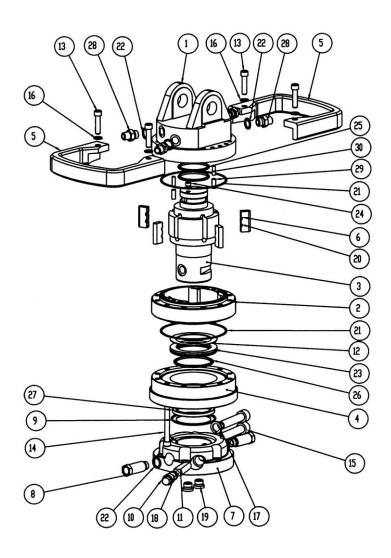
### **Parts List**

Pos	Art.	Name	Bezeichnung	Description	Qty
1	273430	Body	Joch	Corps	1
2	272430	Outer claw	Aussenklau	Griffe extérieur	1
3	271430	Inner claw	Innenklau	Griffe intérieur	1
4	274401	Guide bar	Stützstrebe	Barre directrice	2
5	286402	Cylinder	Zylinder	Cylindre	1
	782402	Seal kit	Dichtsatz	Kit de joints	1
6	276430	Shaft	Bolzen	Axe	4
7	276432	Shaft	Bolzen	Axe	2
8	276433	Shaft	Bolzen	Axe	1
9	276434	Shaft	Bolzen	Axe	1
10	818500	Washer	Scheibe	Rondelle	8
11	821508	Bushing 5040	Büchse 5040	Bague 5040	8
12	821608	Bushing 5060	Büchse 5060	Bague 5060	4
13	851450	Lock nut	Sicherheits- mutter	Ecrou de blocage	8
14	548100	Grease nipple	Schmiernippel	Graisseur	12



### 12: ROTATOR

### R12 Rotator





### **Parts List**

Pos	Art.	Name	
1	186652	Top cover	1
2	184662	Stator frame	1
3	183650	Rotor shaft	1
4	185662	Bottom cover	1
5	182652	Nipple guard	2
6	837312	Vane	5
7	181650	Flange	1
8	544650	Fitting shaft	2
9	817650	Cover plate	1
10	564510	Plug	1
11	834300	Wedge	1
12	811650	Shim	1
13	843160	Screw	4
14	843260	3260 Screw	
15	847160	Screw	2
16	814510	Spring washer	4
17	816200	Nut retainer	2
18	813150	Conical spring washer	4
19	567208	Plug with o-ring	2
20	833100	Spring	15
22	815200	Washer	6
23	831450	Needle roller thrust bearing	1
24	567304	Tapered plug	1
28	541008	Fitting	4
29	835130	Pin	2
30	835128	Pin	2
	781600	Seal kit	1
21	748260	O-ring	2
25	734200	Piston rod seal	2
26	734400	Piston rod seal	1
27	757300	V-ring	1



13: ROTATOR

**RMR11 Rotator** 



**Parts Breakdown** 



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### **Limited Warranty**

VALBY warrants the product to be free from defects in materials and workmanship for twelve (12) months from date of purchase, or one month from in-service, whichever is longer. For seals, the warranty is limited to six (6) months. The warranty covers parts replacement only. The free replacement of parts is exclusive. The manufacturer is not liable for any incidental or consequential damages. No labor costs cost are included, no freight costs are included in replacements. This warranty does not cover defects resulting from:

- misuse of product
- inadequate maintenance
- modifications of the product

The warranty is effective only, if the lower portion of this card is completed and returned to the importer within 14 days of receipt of the product.

IMPORTANT: Do not operate your equipment without reading the operators manual! If the operators' manual was lost, a new manual can be obtained from the importer (write address below or call 607-589-6160).

Purchased From:	a   H	Telephone# Product:	() GR 60HD Log Grapple	
9761/3	He		GR 60HD Log Grapple	
importer.	re		om:	

Northeast Implement 460 Halsey Valley Road Spencer, NY 14883 USA

Phone: (607) 589-6160

Fax: (607) 589-4026

Email <u>info@northeastimplement.com</u>
Website: <u>www.northeastimplement.com</u>



**Product Registration QR Code** 

\*\*Please remove this page and mail to address above for warranty registration\*\*

On-line at <a href="https://www.northeastimplement.com">www.northeastimplement.com</a>, under "Products" tab, click "Product Registration"



### **General Warranty Terms**

Intermercato Rotators

Intermercato warrants that the products are free from defects in materials and workmanship. The product warranty is strictly limited to defects in materials and manufacturing and does not include damage caused by incorrect mounting, misuse, abuse or overloading.

The warranty covers repair or replacement of defective parts. The products are not to be returned without prior notice and Intermercato's approval.

The product warranty is twelve (12) months from sales date, for seals, the warranty is limited to six (6) months.

Travel costs and costs of mounting are not covered by this warranty.

The warranty is not valid if the products have been repaired, altered or dismantled, even partly. The warranty does not cover secondary damage.

The warranty is effective only, if the lower portion of this card is completed and returned to the importer within 14 days of receipt of the product.

IMPORTANT: Do not operate your equipment without reading the operators manual! If the operators' manual was lost, a new manual can be obtained from the importer (write address below or call 607-589-6160).

Date of Delive	ry:/			
Customer:				
Address:				
City:				
State, Zip				
Telephone#	(			
Product:	R12 Rotator, RMR11 Rotator			
Serial#				
Purchased Fro	m:			
<b>Importer:</b> Northeast Implement 460 Halsey Valley Road Spencer, NY 14883				



**Product Registration QR Code** 

Phone: (607) 589-6160 Fax: (607) 589-4026

**USA** 

Email <u>info@northeastimplement.com</u>
Website: <u>www.northeastimplement.com</u>

\*\*Please remove this page and mail to address above for warranty registration\*\*

On-line at <a href="https://www.northeastimplement.com">www.northeastimplement.com</a>, under "Products" tab, click "Product Registration"



### 15: GRAPPLE RECOMMENDATIONS

### PLEASE READ THE FOLLOWING TO AVOID YOUR WARRANTY BEING VIODED

The following are the current manufacturer recommendations for grapples and rotators based on applications and excavator size. Any uses of the grapples and rotators that vary from these recommendations may void any warranty claim you may have.

Stand	lard	Log	Grap	ples
-------	------	-----	------	------

	Cranes tonmeter max	Rotator	Excavator size cardanic mount	Rotator	Excavator size rigid mounting	Rotator
GR28	2	IVR 3	2	IVR 3	0	
GR36	2	IVR 3	2	IVR 3	0	
GR50	3	4.59/IVR4FG	3	4.59/IVR4FG	0	
GR50 Pro	4	RX 55F6	4	RX 55F6	0	
GR55	5	RX 55F6	5	RX 55F6	0	
GR60	7	RX6OF	7	RX6OF	0	
GR75	15	RX 120.2/RX 120S	15	RX 120.2/RX 120S	0	
GR100	20	RX 120S-203	20	RX 120S-203	0	

### **Heavy Duty Log Grapples**

GR50HD	4	IVR 4.59/IVR4FG	4	IVR 4.59/IVR4FG	3	RX55F-FT
GR55HD	5	RX 55F6	6	RX 55F6	4	RX120FT
GR60HD	15	RX 120.2/RX 120S	15	RX 120.2/RX 120S	10	KR 10
GR75HD	20	RX 120S	20	RX 120S	14	RX 390
GR100HD	30	RX 120S	30	RX 120S	20	0

### **Universal/Sorting Grapples**

SG36HD	3	IVR 3	3	2	RX 55F-FT
SG52HD	4	IVR 4.59	4	3	RX55F-FT
SG48HD	8	RX 55F6	8	7	RX330
TG 12 UG/7	1.5	IVR 3			
TG 22 UG/9	12	RX 60F/RX120.2	10	7	RX 330
TG 28 UG/11	15	RX 60F/RX120.2	15	10	RX 330
GX 28-50	20	RX 120S	20	14	RX 390
TG 36 UG/13	20	RX 120S	20	14	RX 390
TG 55 UG/11	30	RX390/SDR 20	30	20	0



### **Demolition Grapples**

	Cranes tonmeter max	Rotator	Excavator size cardanic mount	Rotator	Excavator size rigid mounting	Rotator
TG 20 DG	0				10	KR 10/RX 330
TG 20 DGW	0				12	KR 10/RX 330
TG 25 DG	0				17	RX 390
TG 30 DG	0				22	0
TG 35 DG	0				25	0

### **Clamshell Buckets**

TGS 12-40	0.5	IVR 3				
TGS 12-50	0.5	IVR 3				
TCB 500	10	IVR 4.59/IVR 4FS	10	IVR 4.59/IVR 4FS	7	RX 330
TCB 650	12	IVR 4.59/IVR 4FS	10	IVR 4.59/IVR 4FS	7	RX 330
TCB 800	15	RX55.69/RX55F	10	RX55.69/RX55F	7	RX 330
TCB 1000	20	RX55.69/RX55F	10	RX55.69/RX55F	7	RX 330
TCB HD 1250	25	RX 120.2/RX 120S	15	RX 120.2/RX 120S	10	KR 10/RX 330
TCB HD 1500	25	RX 120.2/RX 120S	15	RX 120.2/RX 120S	10	KR 10/RX 330
Superchip	25	RX 120S	15	RX 120S	10	KR 10/RX 330



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Thank you for your purchase...

# **Northeast Implement**

A DIVISION OF KLETT ENTERPRISES Spencer, NY 14883 Tel: 607-589-6160 Fax: 607-589-4026

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