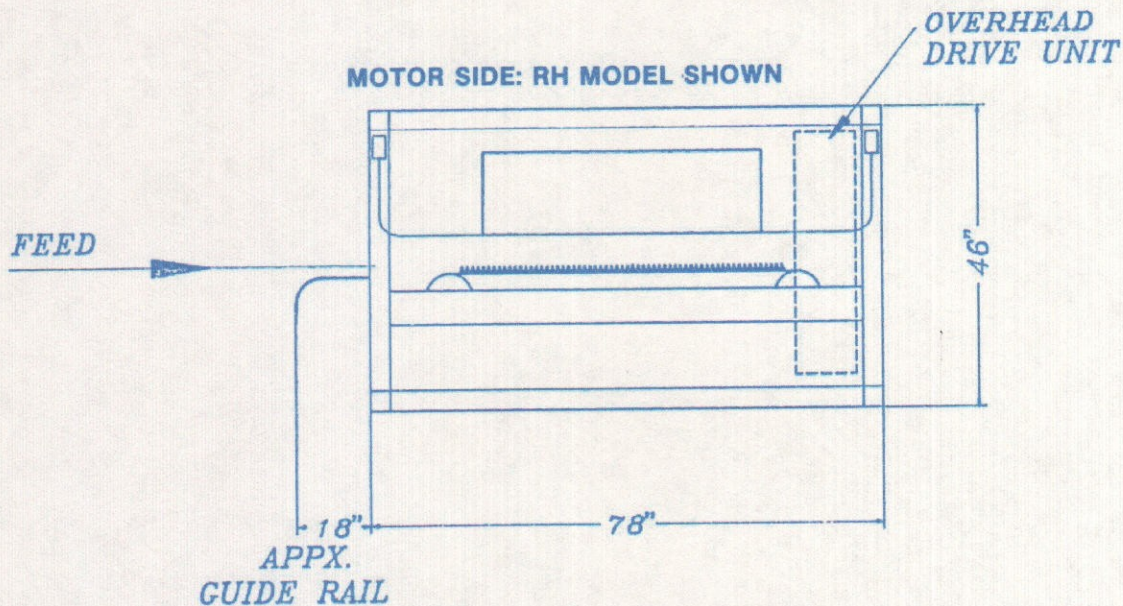


LH - 84 Hydraulic Hockcutter

Lewis Machine Co. Lewis Machine Co. Lewis Machine Co. Lewis Machine Co. Lewis Machine Co. Lewis Machine Co.



Technical Specifications

Capacity:

Line driven - acceptable for 210 + b.p.m.

Material of Construction:

Stainless Steel
6061 T6 Aluminum
UHMW Polyethylene

Hydraulic Specifications:

3 motors - direct drive on blade arbors
1750 RPM
10½ GPM
1100 PSI

Power Unit Consist of:

2 - 7½ H.P. Motors
1800 TEFC 230/460
(Backup w/no valve switching)
1 - 60 Gallon Reservoir
2 - Vane Type Pumps
1 - Air Type Fan
1 - Oil Heater

Machine installed with hydraulic system includes motors, pump, reservoir, valves and all necessary connections. Does not include running electrical or hydraulic lines from machine to power unit.

Electric Model Available.

Turkey Model Available.

More rugged construction and additional power handles turkeys with ease.

Specify L.H. or R.H. Model:

When viewed from the back of the bird, motor side of the cutter; the line will enter from the right on a R.H. machine; from the left on L.H. machine.

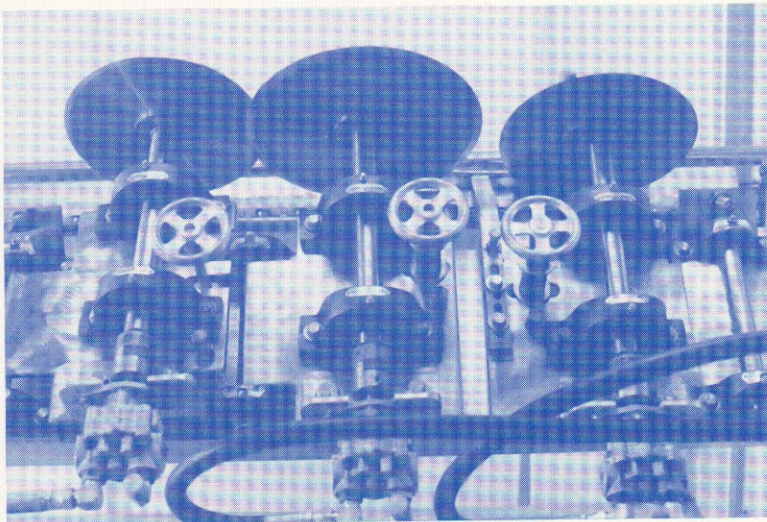
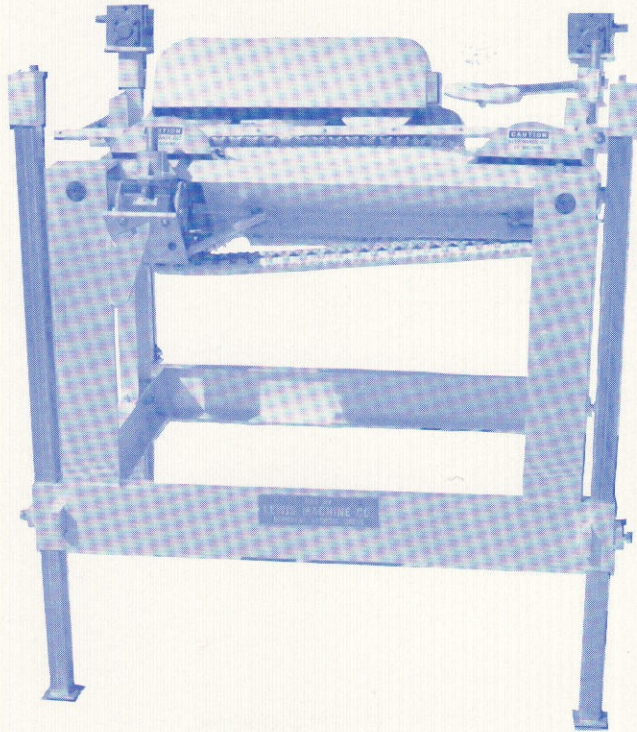


Lewis Machine Co.

241 Twin River Road
Demorest, GA 30535
(706) 754-4624
Fax (706) 754-7581

LH - 84 Hydraulic Hockcutter

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- Increase Yield
- Lower Maintenance
- Reduce Downtime
- Eliminate Frequent Adjusting
- Runs Quiet; Below 10 Decibels
- Full USDA Approval

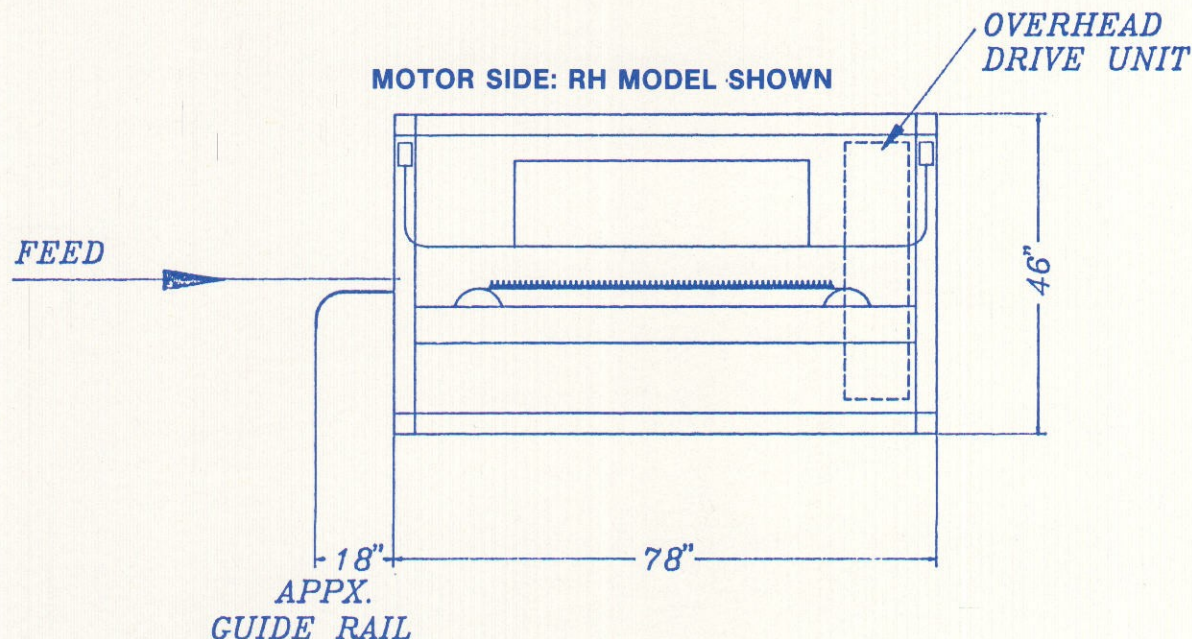


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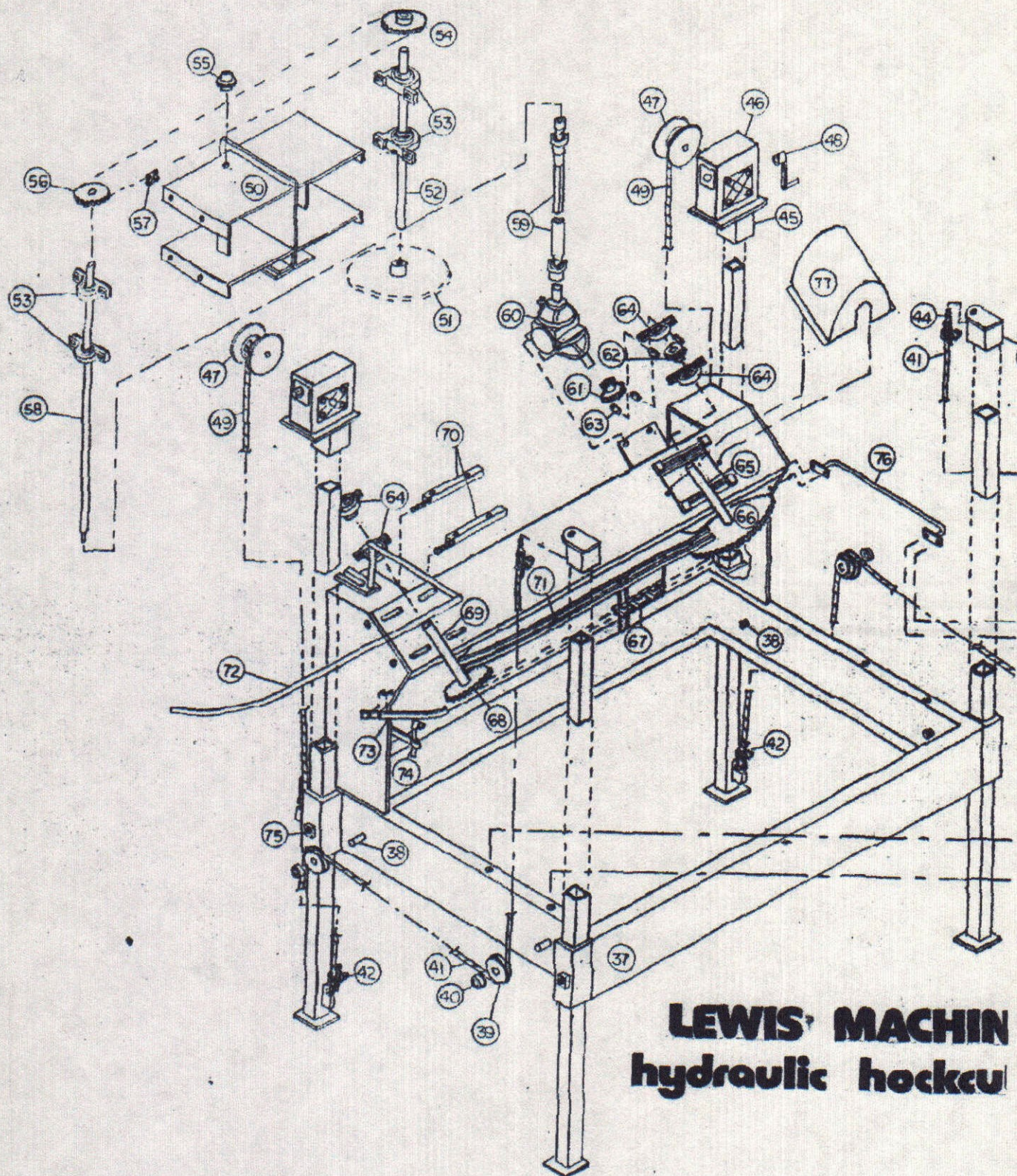
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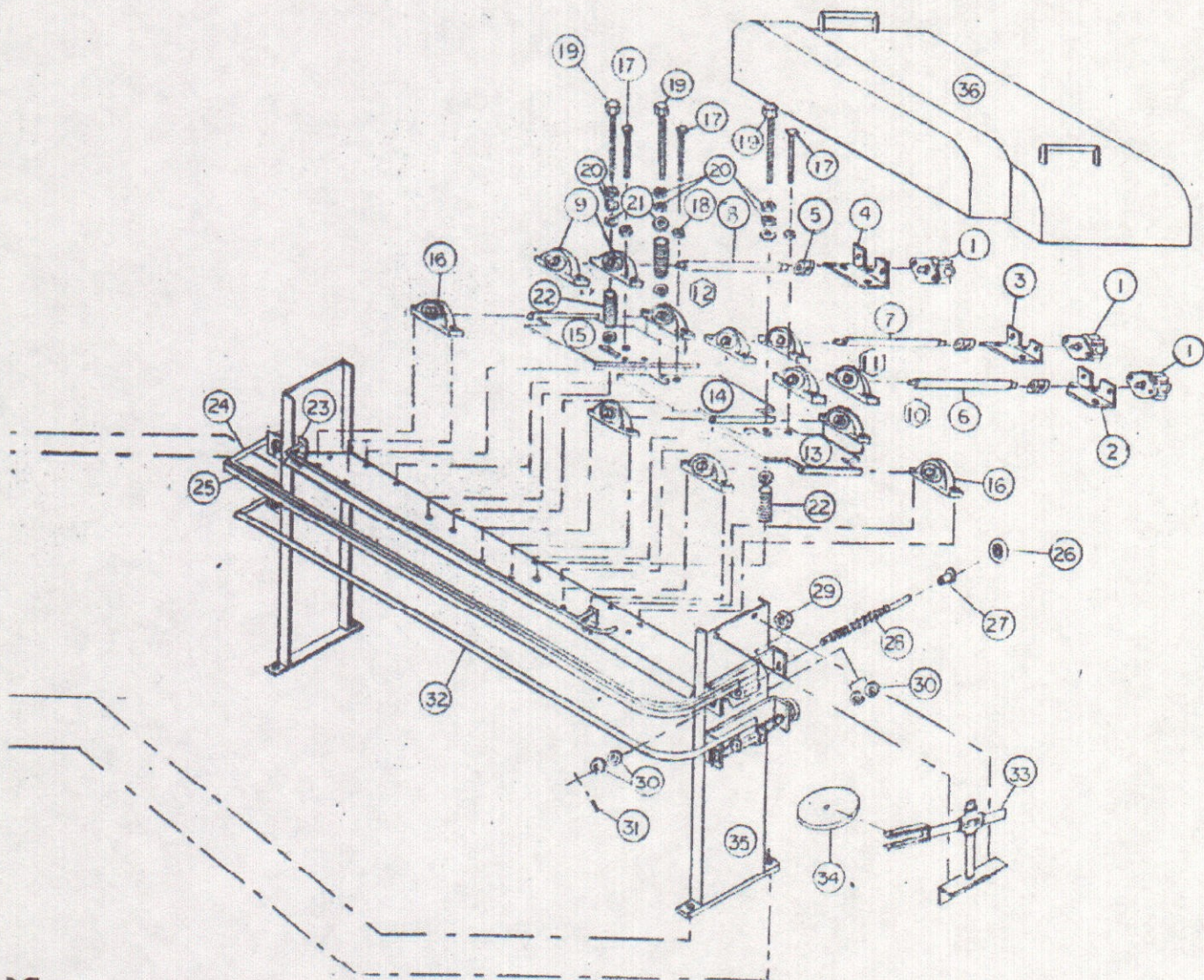


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LEWIS' MACHINE
hydraulic hoist



NOTE: REFER TO PARTS LIST
FOR BLADES AND BLADE
ASSEMBLIES.

LEWIS

LH-84 HYDRAULIC HOCK CUTTER

LH-84-001	HYDRAULIC MOTOR
LH-84-001A	90 DEGREE ELBOWS
LH-84-001B	2 BOLT FLANGE
LH-84-002	MOTOR MOUNT FOR NICKING SHAFT
LH-84-003	MOTOR MOUNT FOR SEPARATING SHAFT
LH-84-004	MOTOR MOUNT FOR FINAL CUTTING
LH-84-005	MARTIN COUPLING (3PCS PER SET)
LH-84-005A	BIG ORANGE COUPLING ASSEMBLY
LH-84-005A1	COUPLING HALF (2 PER ASSEMBLY)
LH-84-005A2	COUPLING INSERT (1 PER ASSEMBLY)
LH-84-006RH	NICKING ARBOR RIGHT
LH-84-006LH	NICKING ARBOR LEFT
LH-84-006A	NICKING ARBOR WASHER 3"
LH-84-006BRH	NUT 5/8-18 S.S. RIGHT HAND
LH-84-006BLH	NUT 5/8-18 S.S. LEFT HAND
LH-84-006RHT	NICKING ARBOR RIGHT TURKEY
LH-84-006LHT	NICKING ARBOR LEFT TURKEY
LH-84-007RH	SEPARATING ARBOR RIGHT
LH-84-007LH	SEPARATING ARBOR LEFT
LH-84-007A	SEPARATING ARBOR WASHER 3"
LH-84-007BRH	NUT 5/8-18 S.S. RIGHT
LH-84-007BLH	NUT 5/8-18 S.S. LEFT
LH-84-007RHT	SEPARATING ARBOR RIGHT TURKEY
LH-84-007LHT	SEPARATING ARBOR LEFT TURKEY
LH-84-008RH	FINAL CUTTING ARBOR RIGHT
LH-84-008LH	FINAL CUTTING ARBOR LEFT
LH-84-008-A-3	FINAL CUTTING ARBOR WASHER 3"
LH-84-008-A-4	FINAL CUTTING ARBOR WASHER 4"
LH-84-008-BRH	NUT 5/8"-18 S.S. RIGHT
LH-84-008-BLH	NUT 5/8"-18 S.S. LEFT
LH-84-008RHT	FINAL CUTTING ARBOR RIGHT TURKEY
LH-84-008LHT	FINAL CUTTING ARBOR LEFT TURKEY
LH-84-009	SEALMASTER BEARING PILLOW BLOCK NPC20 1-1/4"
LH-84-010	NICKING BLADE 10"x1-1/8" W/O SLOTS
LH-84-011	SEPARATING BLADE 11-3/4" x 1/4" x 1-3/4"
LH-84-012	FINAL CUTTING BLADE 10" x 1-1/8" x 1/8"
LH-84-013	NICKING BLADE ASSEMBLY MOUNT PLATE
LH-84-014	SEPARATING BLADE ASSEMBLY MOUNT PLATE
LH-84-015	FINAL CUTTING BLADE ASSEMBLY MOUNT PLATE
LH-84-016	SEALMASTER BEARING PILLOW BLOCK NP16C 1"
LH-84-017	HEIGHT ADJUSTING SCREW (SET 3)
LH-84-018	LOCK NUT (6 PER MACHINE) PRICE EACH
LH-84-019	TENSION ADJ. SCREW 3 PER/PRICE EA.
LH-84-020	LOCK NUT

LH-84-021	WASHER
LH-84-022	SPRING SET OF 3
LH-84-023	MIDDLE GUIDE BAR ASSEMBLY
LH-84-023T	MIDDLE GUIDE BAR ASSEMBLY TURKEY
LH-84-023A	BRACKET ONLY
LH-84-023B	GUIDE BAR ADJ. BRACKET COMPLETE
LH-84-024	UPPER GUIDE BAR ASSEMBLY W/BRACKETS
LH-84-024T	UPPER GUIDE BAR ASSEMBLY TURKEY
LH-84-025	GUIDE BAR 75" WEAR STRIP W/ SCREWS
LH-84-026	HAND WHEEL (3" ALUMINUM)
LH-84-027	BUSHING 3/4 x 5/8 W/ FLANGE
LH-84-028	GUIDE BAR ADJUSTING SCREW
LH-84-029	LOCK NUT 3/4 x 10
LH-84-030	WASHER 5/8" (16 EACH)
LH-84-031	SET COLLAR 5/8"
LH-84-032	LOWER GUIDE BAR ASSEMBLY
LH-84-032A	KNUCKLE GUIDE BAR ASSEMBLY
LH-84-032AT	KNUCKLE GUIDE BAR ASSEMBLY TURKEY
LH-84-033	PUSHOVER WHEEL ASSEMBLY
LH-84-033A	NU RAIL CROSS 1"
LH-84-034	PUSH OVER WHEEL
LH-84-035RH	CUTTER ASSEMBLY FRAME
LH-84-035LH	CUTTER ASSEMBLY FRAME
LH-84-036RH	BLADE COVER (CUTTER GUARD)
LH-84-036LH	BLADE COVER (CUTTER GUARD)
LH-84-037RH	MAIN FRAME
LH-84-037LH	MAIN FRAME
LH-84-037A	LEG FRAME
LH-84-038	CABLE PULLEY SHAFT W/NUT (4 EACH)
LH-84-039	CABLE PULLEY (4 EACH)
LH-84-040	COLLAR (4 EACH)
LH-84-041	CABLE 2 EACH 1/4" x 9')
LH-84-042	CABLE CLAMP (4 EACH)
LH-84-043	CAP (2 EACH)
LH-84-044	EYE BOLT (2 EACH)
LH-84-045	CAP (2 EACH)42.15
LH-84-046	JACK BOX (960-1 BOSTON GEAR BOX) 2 EACH
LH-84-047	CABLE REEL (2 EACH)
LH-84-048	CRANK (2 EACH)
LH-84-049	CABLE (6" x 6') 2 EACH
LH-84-050	OVER HEAD DRIVE FRAME
LH-84-051	DRIVE SPROCKET S.S. (10 T W/BEARINGS)
LH-84-051-6	6"DEEP CUT DRIVE WHEEL W/ BEARINGS
LH-84-052	DRIVE SHAFT 1-1/2"
LH-84-053	SEALMASTER BEARINGS 1-1/2" NP24C PILLOW BLK.
LH-84-054	SPROCKET 60B32 W/1-1/2" BORE
LH-84-056	SPROCKET 60B23 W/1-1/2" BORE
LH-84-057	DRIVE CHAIN #60 x 6' STAINLESS STEEL
LH-84-058	14" SHAFT TURNED TO 1" ON 1 END
LH-84-059	UNIVERSAL SHAFT ASSEMBLY
LH-84-059A	YOKE 1"

LH-84-059B	YOKE 1-1/4"
LH-84-059C	CROSS BEARING FOR UNIVERSAL KIT
LH-84-060	VON RUDEN GEAR BOX 52-1/2 DEGREE 1:1 RATIO
LH-84-060A	SEAL 12613
LH-84-061/62/63	REPLACED BY PART #5A
LH-84-064	SEAL MASTER BEARING 1-1/2" NP24C S.S.
LH-84-065	SHAFT 1-1/2" S.S.
LH-84-066	SPROCKET S.S. 8048x1-1/2"
LH-84-065/66	SPROCKET/SHAFT ASSEMBLY
LH-84-067	FEED CHAIN ASSEMBLY
LH-84-067A	LUGS (60 PER)
LH-84-067B	RIVETS (60 PER)
LH-84-067AB	LUGS/RIVETS (SET OF 60)
LH-84-067C	CHAIN ONLY # 80 S.S.
LH-84-067D	MASTER LINK FOR # 80 CHAIN
LH-84-067ET	NUTS /BOLTS (60 PER) TURKEY
LH-84-68	SPROCKET 8024 TOOTH W/1-1/2" BORE S.S.
LH-84-069	SHAFT 1-1/2" S.S.
LH-84-068/069	SPROCKET/SHAFT ASSEMBLY
LH-84-070	TENSION MOUNT (2 EACH)
LH-84-071	CHAIN TRACK STRIP W/ SCREWS
LH-84-071-A	SCREWS FOR CHAIN TRACK STRIP
LH-84-072 RH	SHACKLE GUIDE BAR (ENTRANCE) RIGHT
LH-84-072 LH	SHACKLE GUIDE BAR (ENTRANCE) LEFT
LH-84-073	CHAIN GUARD
LH-84-074	SPRAY JET ASSEMBLY (2 EACH)
LH-84-075	LOCK BOLTS
LH-84-076	DRAG BAR ASSEMBLY
LH-84-077	SPROCKET COVER (GEAR BOX COVER)
LH-84-078-RH	SEPARATOR ASSEMBLY (SPREADER BAR) RIGHT
LH-84-078-LH	SEPARATOR ASSEMBLY (SPREADER BAR) LEFT
LH-84-078A-RH	SEPARATOR ASSEMBLY (FRONT HALF) RIGHT
LH-84-078A-LH	SEPARATOR ASSEMBLY (FRONT HALF) LEFT
LH-84-078B	SEPARATOR ASSEMBLY BACK (LH OR RH)
LH-84-078RHT	SEPARATOR ASSEMBLY (SPREADER BAR) RIGHT
LH-84-078LHT	SEPARATOR ASSEMBLY (SPREADER BAR) LEFT
LH-84-078A RHT	SEPARATOR ASSEMBLY (SPREADER BAR) RIGHT
LH-84-078A LHT	SEPARATOR ASSEMBLY FRONT HALF LEFT
LH-84-078BT	SEPARATOR ASSEMBLY BACK HALF RH OR LH
LH-84-079	NICKING GUARD ALUMINUM
LH-84-079A	PLASTIC NICKING GUARD
LH-84-080	QUICK RELEASE
LH-84-081	SPECIAL BRACKET FOR FOOT PUSHING GUIDE BAR
LH-84-082H	MANIFOLD ASSEMBLY
LH-84-083H	FLOW DIVIDER
LH-84-001H	HYDRAULIC HOSES (COMPLETE SET W/FITTINGS)
LH-84-002H	VICKERS PUMP V101P701C20
LH-84-003H -A	LOVEJOY L100X3/4" COUPLING (2 PER MACHINE)
LH-84-003H -B	LOVEJOY L100X 1-3/8" COUPLING (2 PER MACHINE)
LH-84-003H-C	LOVEJOY L100 SOX SPIDER (2 PER MACHINE)

LH-84-004H-A	RELIEF CARTRIDGE HOUSING GRESN
LH-84-004H-B	RELIEF CARTRIDGE GREESEN
LH-84-005H	WIKA 213.40 GUAGE
LH-84-006H	DELTROL EDC30S CHECK VALVE
LH-84-007H	HYCON STRAINER
LH-84-008H	HYCON FILTER RETURN LINE ELEMENT
LH-84-010H	HYCON AEV-6 AIR BLEED VALVE
LH-84-011H	AMERICAN INDUSTRIAL HEAT EXCHANGER
LH-84-011H-A	FAN FOR HYDRAULIC 307-0001
LH-84-012H	WARREN ELECTRIC HEATER

TROUBLE SHOOTING

1. AVOID OVER ADJUSTING HOCK CUTTER....Adjustments should be made on the TOP GUIDE BAR, ENTRANCE END:
LONG HOCKS - Adjust IN, toward the shackle
SHORT HOCKS - Adjust OUT, away from shackle
2. The PUSH OVER WHEEL is used to size the bird. Set machine for the smaller birds. Use the PUSHOVER WHEEL to push larger birds over for correct presentation.
3. Avoid putting the CARRIER CHAIN on BACKWARD:
THIN side of LUG is UP
THICK side of LUG is DOWN
4. SEPARATOR ASSEMBLY should be replaced if it has sharp edges or nicks in the metal.
5. Avoid using the wrong rotation of the SEPARATOR ASSEMBLY:
Birds should ENTER SEPARATOR ASSEMBLY on BEVELED SIDE.
6. BLADES SHOULD LINE UP WITH THE SLOT OF THE CARRIER CHAIN.
7. BLADES RUN WITH THE DIRECTION OF THE LINE.
8. NICKING BLADE is mounted on a plate that has a spring. DO NOT TIGHTEN the NICKING PLATE. The motion allows for sizing of individual birds.
9. NICKING BLADE, for Chickens, should extend 3/16" past the NICKING GUARD. (Turkeys 1/4")
10. NICKING GUARD is Important. Do not discard. It prevents cutting too deeply on the initial cut.
11. PRESENTATION IS CRITICAL TO THE EFFICIENCY OF THIS MACHINE. CONNECTORS SHOULD BE UNIFORM TO PREVENT SHACKLES DRAGGING BACK
12. SHACKLES SHOULD BE STRAIGHT TO PREVENT CROSSED FEET. OVERLAPPED BIRDS AND BROKEN FEET REDUCE THE EFFICIENCY OF THE HOCK CUTTER.

LH-84 HYDRAULIC HOCK CUTTER PREVENTIVE MAINTENANCE

DAILY:

1. Check power unit on each shift to be sure unit has not switched to back-up system.
2. Bearings should be greased regularly. **NO MORE THAN 1 SHOT OF GREASE PER DAY.** Check for wear and tear and replace as needed.
3. Nicking blade should be checked after each shift to be sure that it is sharp and that it extends past the nicking guard with enough edge to make a consistent cut.
4. The Separating Blade (Middle Blade) should be checked after each shift to be sure that it is smooth and has rounded edges, not sharp or flat edges.
5. **CHECK LINES DAILY FOR MISSING OR LOOSE TIE ROD/DRAW BACK CHAINS.**

WEEKLY:

6. Check filter and strainer on hydraulic unit weekly.
7. Check Pushover wheel for wear and to assure ease in adjusting.
8. Check all motor and blade covers and replace, as needed. *Do not run the machines with out the covers in place, use extreme CAUTION.*
9. Carrier chain should be checked weekly for warping or excessive stretch. Check the condition of the chain and the lugs after any hang-up in line. Replace as needed.
10. Carrier chain should be checked weekly for worn lugs. A cut in the lug indicates the blades are not set correctly and should be adjusted accordingly.
11. **VERY IMPORTANT:** When the chain is installed properly, the **WIDE** side of the **LUGS** are **DOWN**; the **NARROW** side is **UP!!!**
12. Nicking blade should be replaced frequently to assure that the edge extends past the Nicking Guard.
13. Nicking blades can then be notched and used for the final cutting blade.
14. Nicking Blade should be $\frac{1}{2}$ " to $\frac{5}{8}$ " above the chain
15. Separator Blade should be $\frac{1}{16}$ " above the tip of the lug.
16. Final cutting blade should tip the bottom of the groove in the lug, unless plant is using an automatic re-hang machine. In that case, back blade out of groove approximately $\frac{1}{8}$ " to $\frac{3}{16}$ ".
17. Check the Separator Assembly weekly and after any line hang-ups for rough edges or burrs. Make sure blade is not running into the Separator Assembly.
18. Check all sprockets weekly to assure they have correct number of teeth. Always use the original number of teeth in sprocket when replacing to assure timing of machine is not affected, negatively.
19. Verify the marked settings on your guide bars weekly to be sure they have not been tampered with or moved by a hang up in the line.
20. Verify settings that are marked on the legs of the machine to be sure no one has moved machine up or down.

21. The top guide bar of the Hock Cutter should be set for the smallest bird and the larger birds are guided into the machine with the pushover wheel and middle guide bar to make adjustments for larger birds.
22. Check cables on the gearboxes that move machine up and down for excessive wear and to assure good working order.
23. Check 52-1/2 degree Gearbox (Loc. 60). Correct any leaks. Run machine and listen for unusual noise that might indicate need for change. Check the Oil Level and make sure it is correct. If a change is needed, grease new Gear Box with 2 shots of grease, prior to installation.
24. Run machine when there are no birds on line and listen for unusual noises in bearing, gearboxes and motors. Change accordingly to prevent unnecessary down time.
25. Also, listen for friction around blades, chain, or covers to detect areas where adjustments may need to be made.
26. Check all hydraulic hoses for leaks or crimps in line. Make sure there is a ball valve on all pressure and return lines. Check valves to see that they work properly.
27. Check & repair any broken welds on guide bars. Make sure all guide bars can be adjusted and that the threaded rod and the nuts are in good working order.
28. Check cables on the gearboxes that move machine up and down for excessive wear and to assure good working order.
29. Check Love Joy Couplings on the motor. Make sure the teeth of the couplings are not broken or worn excessively. Check the Rubber Spider in the coupling for wear.

AS NEEDED:

30. Adjustments for long and short should be made on top guide bar, entrance end. Over adjusting this machine causes, inconsistent cuts.
31. AVOID INSTALLING HOCK CUTTER NEAR TURNS OR ELEVATIONS TO PREVENT DRAG BACK ON LINE.
32. STRAIGHTEN SHACKLES AS NEEDED FOR OPTIMAL PRESENTATION TO HOCK CUTTER.
33. Replace chain as needed. CHAIN TRACK STRIP should be replaced when the chain is replaced on hock cutter.
34. REPLACE CONVEYOR LINES WHEN LINE IS STRETCHED TO THE POINT OF SHACKLES ARE DRAGGING BACK.

EVERY 6 TO 8 MONTHS, MACHINES SHOULD BE GONE OVER COMPLETELY REPLACING ALL WORN BEARINGS, ARBORS, COUPLINGS, ETC.

DO NOT USE WATER GLYCOL IN LEWIS MACHINE COMPANY HYDRAULIC SYSTEMS OR ANY OF THE HYDRAULIC COMPONENTS.

USE OF THIS PRODUCT INVALIDATES THE WARRANTY OF THE HYDRAULIC UNIT, FLOW DIVIDERS, AND MOTORS.

SUGGESTED SPARE PARTS

LEWIS HYDRAULIC HOCK CUTTER

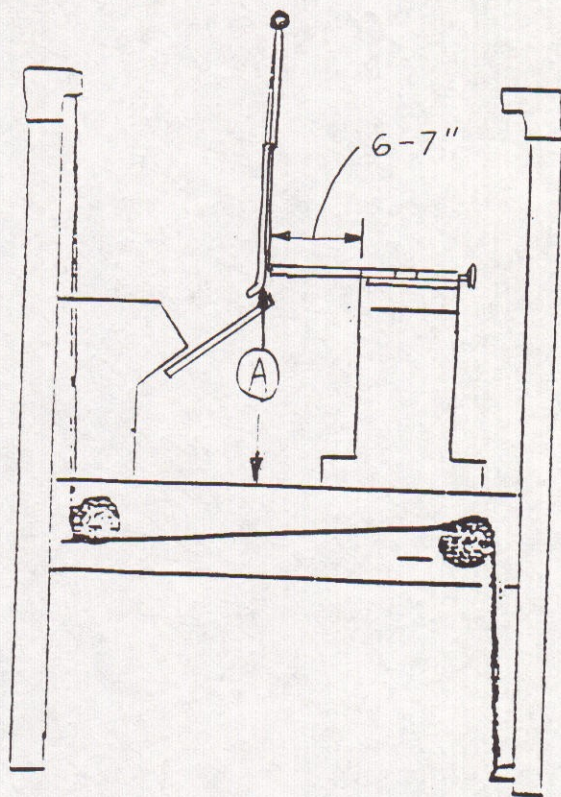
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LH-84-005A	BIG ORANGE COUPLING ASSEMBLY
LH-84-006	NICKING ARBOR (SPECIFY RIGHT OR LEFT)
LH-84-007	SEPARATING ARBOR (SPECIFY RIGHT OR LEFT)
LH-84-008	FINAL CUTTING ARBOR (SPECIFY RH OR LH)
LH-84-010	NICKING BLADE 10"x1-1/8" W/O SLOTS
LH-84-011*	SEPARATING BLADE 11-3/4" x 1/4" x 1-3/4"
LH-84-012	FINAL CUTTING BLADE 10" x 1-1/8" x 1/8"
LH-84-022	SPRINGS (SET OF 3)
LH-84-054*	SPROCKET 60B32 W/1-1/2" BORE
LH-84-056*	SPROCKET 60B23 W/1-1/2" BORE
LH-84-059	UNIVERSAL SHAFT ASSEMBLY
LH-84-067	FEED SHAFT ASSEMBLY
LH-84-071	CHAIN TRACK STRIP W/ SCREWS
LH-84-078	SEPARATOR ASSEMBLY (SPECIFY LH OR RH)
LH-84-079	NICKING GUARD ALUMINUM
LH-84-003H*	VICKERS PUMP
LH-84-004BH*	RELIEF CARTRIDGE GREESEN
LH-84-007H*	HYCON STRAINER
LH-84-008H*	HYCON FILTER RETURN LINE ELEMENT
LH-84-060*	VON RUDEN GEAR BOX 52-1/2 DEGREE 1:1 RATIO
LH-84-083H*	FLOW DIVIDER

* OPTIONAL ITEMS THAT YOU MAY OR MAY NOT FEEL YOU NEED ON YOUR SHELF. THESE ITEMS ARE SELDOM REPLACED IN THE FIRST YEAR OF OPERATION UNLESS YOU HAVE AN UNUSUAL SITUATION OR A FREAK ACCIDENT.

LH-84 LEWIS HYDRAULIC HOCKCUTTER SET-UP (3 blade)

Nicking Blade	1/2" to 5/8" top of chain
Separating Blade	Top Edge of Chain
Final Cutting	Deep enough to cut feet off

Ⓐ Exit end: 26" - 27"
TO BOTTOM OF SHACKLE

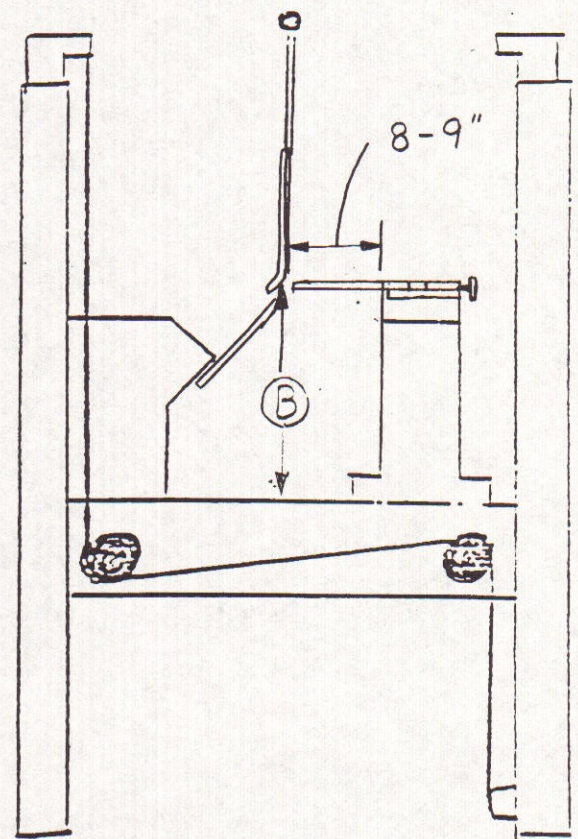


EXIT

6" TO 7"

26" TO 27"

Ⓑ Entrance End: 27" - 28"
TO BOTTOM OF SHACKLE



ENTRANCE

8" TO 9"

27" TO 28"