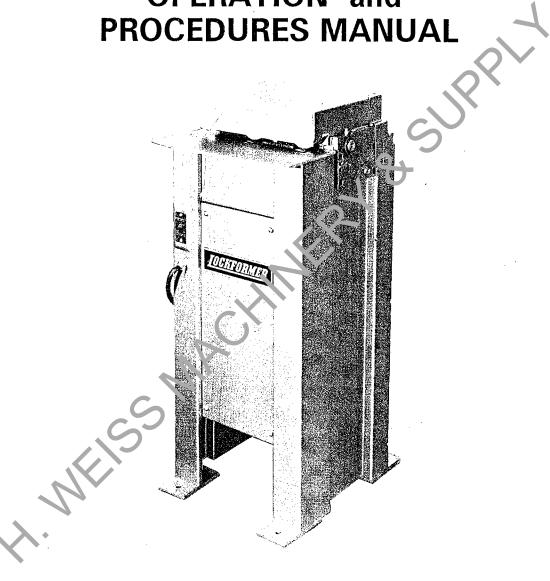
PHONE: (718) 605-0395 - www.hweiss.com

ROTO NOTCHER

OPERATION and **PROCEDURES MANUAL**



りがまた LOCKFORMER

THE LOCKFORMER COMPANY

711 Ogden Ave. Lisle, Illinois 60532-1399 PHONE 708-964-8000

WARNING

THIS EQUIPMENT IS DESIGNED TO BE OPERATED WITH ALL COVERS SECURED IN PLACE. OPERATION WITHOUT THESE SAFEGUARDS MAY RESULT IN CONDITIONS WHICH ARE HAZARDOUS TO THE OPERATOR AND OBSERVERS.

SAFETY GUIDELINES

Before operating the machine, study and follow the safety precautions in this section. These precautions are intended to prevent injury to you and your felow workers. They cannot, however, cover all possible situations. Therefore, EXERCISE EXTREME CAUTION before performing any procedure or operation.

Safety Precautions Before Starting The Machine(s)

Protect yourself. Wear safety glasses. Do not wear loose clothing, neckties, or jewelry. If long sleeves must be worn, avoid loose cufts and buttons. Tie back and contain long hair.

Keep your work area clean. Remove all scrap, oil spills, rags, tools and other loose items that could cause you to slip, trip and tall.

Make sure that hydraulic and pneumatic pressures are at specified levels before operating this equipment.

Be sure all guards and covers are in place.

Keep this equipment properly maintained.

Be alert for loose, worn or broken parts. Do not attempt to operate any machinery with such parts present or if the machinery is making unusual noises or actions.

Be sure that this Instruction Manual is kept near the machine so the operator can refer to it when necessary.

Be aware of the locations of the Power Off or Emergency Stop button in case of an emergency.

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Safety Precautions While Operating The Machine(s)

Always be alert whenever operating any machinery.

Only one person should control the machine(s). Never allow anyone to operate the controls while you are working on this equipment. In addition to disconnecting power always use lock outs and warning signs to indicate that you are working on the machine(s).

Keep your hands and arms away from internal workings of the machinery when starting running or stopping.

Never leave the work area while the equipment is in operation.

Continually observe the notching and forming process. If any unusual condition develops, immediately stop the machine.

When cleaning the machine or any of its components, do not use toxic or flamable substances. Do not perform any cleaning while the equipment is running.

Never over-ride or disable any safety switch or safety interlock.

Do not use an air hose to clean the machine(s). Air pressure may drive dirt and small chips into bearing surfaces or cause bodily injury.

Do not operate the machine unless all covers are in place.

Always turn off power to the machine(s) at the main disconnect before performing any maintenance or adjustments so accidental start-up or electrocution cannot occur.

Always shut off the power at the main disconnect switch before entering the electrical control box.

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SPECIFICATIONS

1

OVERALL DIMENSIONS:

22 inches wide, 20 inches deep,

36 inches high

SHIPPING WEIGHT:

Approximately 300 pounds

STOCK CAPACITY:

22-30 gauge galvanized (flat stock

and 5/8" to 1" Standing Seam

with 5/8" starting tab)

STOCK WIDTH:

3 inch or 6 inch

FORMING SPEED:

Approximately 30 feet per minute

TAP-NOTCHING DEPTH:

5/8" standard, adjustable to 3/4

TAP-NOTCHING SPACING:

Approximately 3/4" cente

ELECTRICAL:

115 Volts, Single Phase 60 Hertz

DRIVE:

3/4 H.P., 1800 R.P.M.

motor with the med overload

protection, v-Lelt

OPTIONAL ACCESSORY:

Collar Maker to produce Round

Starting Collars, Fibre-duct Starting Collars, and Flex-Duct

Connectors

When ordering replacement parts, or requesting equipment information, please specify the complete equipment nomenclature identification and serial number. Replacement rolls are ordered by using the numbers stamped on the side face of the rolls.

REPLACEMENT PARTS ORDERING

2

GENERAL INFORMATION

This unit is used to die-cut tab notches in blank 3" or 6" width flat galvanized steel, or 3/1 roll "Tee" profile galvanized steel. The standard tab-notch depth is 5/8" - however, the machine is adjustable to provide tab-notch depth up to 3/4".

The thickness of the material to be notched can range from a minimum of 22 gauge up to a maximum of 30 gauge. Also, the machine will accommodate a 5/8" to 1" standing seam when using 3/1 roll "Tee" profile galvanized steel.

If desirable, the optional accessory Collar Maker can be added to the machine to fabricate 3" to 14" diameter round starting collars.

INSTALLATION

After machine is removed from its shipping crate, check and / or remove all foreign particles that may have fallen into the machine. Select an operating site for the machine that is near a 115 Volt, single phase, 60 Hertz grounded convenience outlet. Make sure the convenience outlet meets all electrical standard and wiring color codes for your geographical area. Once the machine is positioned at the operating site, level and so ture machine to floor area.

PRE-OPERATIONAL ADJUSTMENTS

b. ore starting production running of machine, it is recommended that the following adjustments be checked to ensure satisfactory operation and profile. If an optional Collar Maker is installed on the Roto-Notcher, refer to the separately supplied instruction manual for pertinent pre-operation adjustments.

GENERAL INFORMATION

INSTALLATION

PRE-OPERATIONAL ADJUSTMENTS

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ADJUSTABLE GAUGE BAR

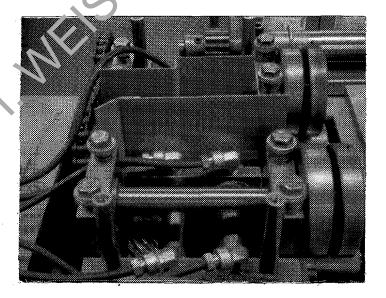
Move the Adjustable Gauge Bar to accept either 3" or 6" stock width. The Adjustable Gauge bar is positioned closest to the machine rolls for 3" stock, and furthest from the rolls for 6" stock. See sketch #1. To make this adjustment, simply remove the two socket head cap screws securing the gauge bar to the table. Then measure your stock width plus 1/32" from the front and back gauge bars (part # 26028) to the adjustable gauge bar and lock into position.

NOTCH DEPTH

The stock notch depth of 5/8" or 3/4" is obtained by either removing the front and rear gauge bars or adding shims between the gauge bars and front and back plates. Shims are added to *cecrease* the notch depth. Removing or changing the thickness of the gauge bars will *increase* the notch depth. See sketch #1

PILLOW BLOCK ADJUSTMENT

The four pillow block bolts for each drive roll were factory set, and should give good results. The stock should feed smoothly between the upper drive roll and bottom idle roll. Make adjustments as needed. To reset the bolts to their factory-set position; tighten all eight pillow block bolts down snug, and then loosen 1/2 of a turn. See photo below.



ADJUSTABLE GAUGE BAR

NOTCH DEPTH

PILLOW BLOCK ADJUSTMENT

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4

OPERATION

Turn the ON/OFF switch located on the right side of the machine to the ON position, and feed a piece of test material through the machine, keeping it flush against the adjustable gauge bar. Observe if machine is operating satisfactorily and profile is correct. If any inconsistencies occur, make necessary adjustments described in the Pre-Operational Adjustment section of this manual.

NOTE - for extreme material lengths, it is necessary to ensure that material is also in contact with the inside of the adjustable gauge bar throughout the complete length of the stock being notched.

MAINTENANCE

A good preventive maintenance program is a major step forward to assure trouble-free machine operation. In order to be effective, routine inspection, lubrication and adjustment schedules should be established and followed. The maintenance schedule should be based on normal machine usage, which is considered to be approximately 40 hours of operation weekly. In addition to the grease fittings, grease should also be applied to all sea teeth to help eliminate noise and galling of gears.

RECOMMENDED LUPRICANTS

Standard Oil Co	Standard Polarine Viscous
	Lubricant #3
Imperial Oil & Grease Co	Molub Alloy #2BRB572
Div. of Beatrice Foods	or Molub Alloy #3
Mobil Oil Co	Mobil Play ED?

OPERATION

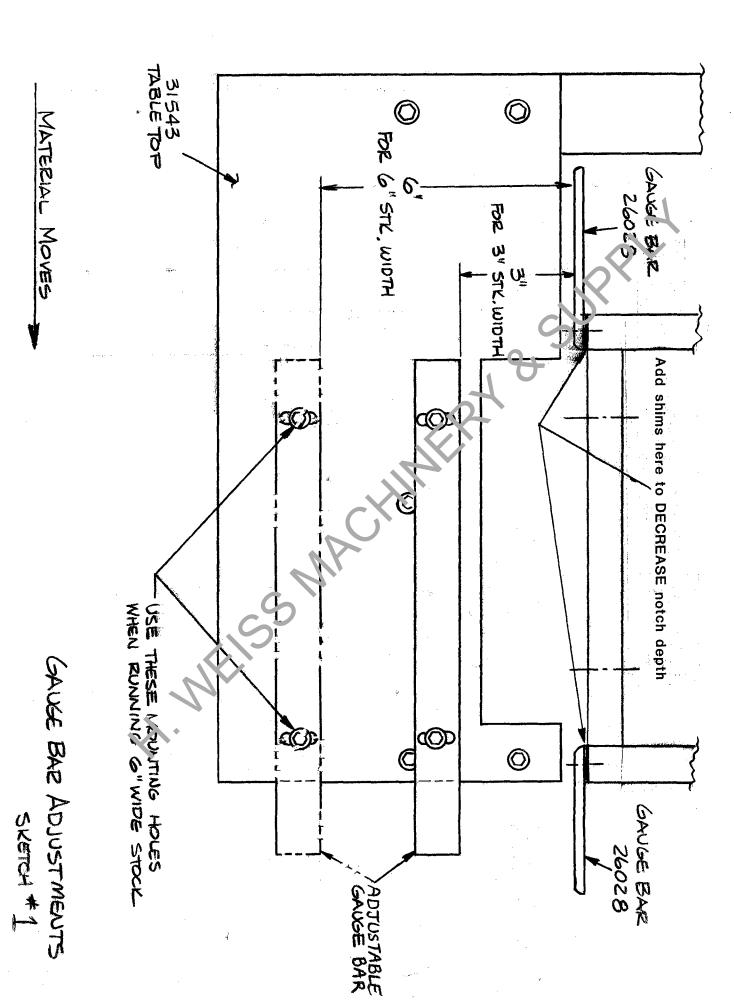
MAINTENANCE

RECOMMENDED LUBRICANTS

5

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY	
Stock does not feed smoothly.	Pillow Block Bolts adjusted too tight.	1. Readjust Pillow Block Polts	
	2. Stock binding against Adjustable Gauge Bar.	2 Readjust Adjustable Gauge Bar.	
	, &		
Spacing between notches inconsistent.	 Motor Drive Belt loose Pillow Plock bolt 	Adjust Belt for greater tension.	
	adjusters no roose.	2. Tension readjust Pillow Block Bolts.	
Notch Depth Inconsistent.	Gauge Bars loose or Misadjusted.	1. Readjust Gauge Bars.	
	2. Adjustable Gauge Bar Misadjusted.	2. Readjust Adjustable Gauge Bar.	
10			
Notcher Inoperative.	1. Motor Drive Belt broken	1. Replace Drive Belt.	
	2. Motor Malfunction.	2. Replace Motor.	
	3. Inoperative ON/OFF Switch.	3. Replace Switch.	
	4. Main Power Fuse blown.	4. Replace Fuse.	



ROTO NOTCH PARTS LIST

COMPONENT	QTY	LOC	DESCRIPTION
0013492	1	3A18	MAIN DRIVE SHAFT
0013493	1	3A18	LWR DRV ROLL SHAFT
0013494	1	3A19	LWR DRV ROLL SHAFT
0013495 0013496	1	3A19 3A19	DRIVE ROLL SHAFT PUNCH DRIVE SHAFT
0013497	2	3A19	ROLL SHAFT UPPER
.0014080	1	4A13	DRIVEN GEAR
0014081	1	4A13	PUNCH SHAFT GEAR
0014646	1	4A48	SUPPORT COLLAR.
0014950	4	4A58	COVER SPACER STUD
0016090 0016091	2 2	5A17 5A17	UPPER DRIVE ROLL BOTTOM ROLL
0010091	4	5A44	COVER SPACER
0026020	1	OR07	FRONT PLATE
0026021	1	OR07	BACK PLATE
0026022	1	OR07	END PL1 EXIT END
0026023	1 1	OR07	ENL TLT GEAR END
0026024 0026026	1	6A77 6A78	CTR SUPRT PLT
0026027	4	6A78	PILLOW BLOCK
0026028		6A78	GAUGE BAR
0028994	2 2 2 2	7 4 15	SPACER
0028995	2	7A15	SPACER LWR ROLL SH
0029510 0032902	2	CR07 7A39	MTR BASE LUBE CONN HLDR
0032902		OR03	COVER
0040793	(i)	8A03	NOTCH DIE
0040794	Ĭ	8A03	NOTCH BLADE
0042761	2 2 2 1	8A18	KEY MOD
0042779	2	8A19	DRIVE GEAR
0043131 0051036	1	8A28 8A41	HELICAL GEAR NOTCH BLADE GUARD
0057559	i	OR11	SCRP CHUTE R-NOTCH
∪05 7570	1		ADJ. GAUGE BAR
9058638	1	SSA3	STAND WLDT
0060000	2 4	ASF3	1/4-20X1/2 HHCS
0060017 0060049	4 4	ASF4 ASF4	5/16-18X2-1/4 HHCS 5/16-18X1 1/4HHCSH
0060105	8	AS20	3/8-16X3 1/2HHCS
0060390	2 12	ASF6	1/4-20X1-1/2 SHCSN
0060393	12	ASF6	3/8-16X1 SHCS NYLO
0060395	3	ASF6	5/16-18X1-1/4 SHCS
0060397 0060399	1 11	ASF6 ASF6	5/16-18X1 SHCS NYL 1/4-20X1/2 SHCS NY
0060399	1	1C24	1/2-13X1SSS
0061101	4	A\$28	5/16-18HN HVY SF
0062000	5	AS32	1/4X062 WSHR
0062010	8	AS32	5/16X1/16 WSHR
0062027	24	AS33	3/8X082 WSHR
0062340 0062362	20 4	1C15 QL09	3/8 BLVL WSHR 5/16 LCK WSHR
0062363	4	QL09 QL09	3/8 LCK WSHR
0062370	2	1C17	1/4 LOCK WASHER
0062401	4	1C17	9 WDRF KEY
0062404	4	1C17	61WDRF KEY

COMPONENT	QTY	LOC	DESCRIPTION
0062448 0062500 0062501 0062518 0062526 0062526 0062601 0062631 0066010 0066021 0066031 0066050 0066061 0066310 0066312 0066320 0066312 0066320 0066320 0066320 0066320 0066332 0066333 0066354 0066420 0066420 0066640 0066640 0066659 00666700 0070401 0070401 0070401 0070401 0070401	2943132821112722136125445352553421161	1C19 AS35 AS35 AS35 AS35 AS35 AS14 AS15 9A27 9A27 9A27 9A28 9A38 9A38 9A38 9A38 9A38 9A39 9A39 9A3	1/4SQX5/8 KEY 5100-75 RET RG 5100-87 RET RG 5160-98 RET RNG RET RING 5160-62 RET RG 5160-75 3/16X3/4 DWL 3/8X3/4 DWL 3/16X1 ROLL PIN B108 TORR BRG B128 OH TORR BRG B128 OH TORR BRG B1012 OH B1212OH TORR BRG B1412 TORR BRG TT1102 1 THRST BRG NTA 1018 TORR BRG TRE 13 TORR BRG TRE 13 TORR BRG TRE 13 TORR BRG TRE 13 TORR BRG TRB 1220 THRS BRG TRB 1220 THRS BRG TRB 1220 THRS BRG TRB 1220 THRS BRG TRB 1625 THRUST BRG TRB 1625 THRUST BRG TT1502-2THRUST BRG 1/4X1/8 FEMALE CPG 888L HLF UNION 1610 GRS FTG 1/4X90 CONN 1/4"OD NYLA TUBING 4L500 BELT 2AK64 SHV 3/4 B 2AK20 X 5/8 SHEAVE COMP SPRG 3/8ID COMP SPRING
0060048 0061101 0062010 0062362 0080030 0080201 0080384 0080431 0080483 0080525 0080602 0080607 0080608 0080650 0080675 0085190	4 4 8 4 1 1 1 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1	AS19 AS28 AS32 QL09 OR81 5B21 AS36 MM01 5B28 AS38 8B16 8B16 8B16 8B16 5B30 5B32 OR99	5/16-18X1 1/4 HHCS 5/16-18HN HVY SF 5/16X1/16 WSHR 5/16 LCK WSHR 3/4HP-1-60-18-56 600 TAX5 SWITCH P-39 HEATER BX CABLE 14-2X42 BX CONN 1/2 BX CONN 3/8 CORD SET 14-3 10 RG TNG TERMINAL INSULATING CAP WIRE JOINT 4CS-1/2 DEEP BOX HANDY BOX CVR ROTO NOTCH NAME PL