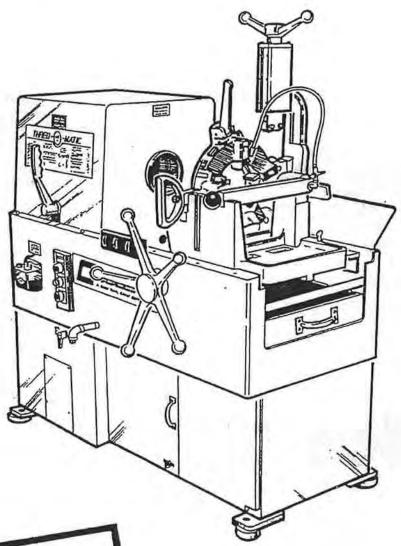
Operator's Manual and Parts Catalog

THRED-O-MATIC®

66-A



WARNING

Before operating this unit, read and understand the Operator's Manual. Become familiar with the potential hazards of this unit.

ROTHENBERGER

INDE	X	
Blade Reamer Assembly	Operating Procedure 2 Operator Safety Instructions 1 Preparing for Operation 2 Snap-O-Matic Die Head Assemblies 13 Specifications 2 Spindle Assembly 11 Transmission Assembly—Exploded View 8 Transmission Assembly—Parts 9 Thread Sizes & Specifications 20 Warranty Inside Cover Wiring Diagram 16	

OPERATOR SAFETY INSTRUCTIONS

WARNING: This metalworking machine is designed for threading, cutting, reaming, beveling and grooving pipe with accessories made or authorized by Rothenberger. Modifying machine in any way and/or using devices not made or authorized by Rothenberger can result in serious injury and void Rothenberger's warranty and liability.

REMEMBER:

- Operate machine from switch side only.
- * Do not disconnect or block footswitch,
- Do not wear gloves, loose clothing or neckties.
- Read and understand the Instruction Manual. Before operating or performing maintenance on this machine, read carefully the operator's manual. Become familiar with the machine's operations, applications and limitations. Be particularly aware of its specific hazards. Store the operator's manual in a clean area and always at a readily available location.
- Inspect the equipment. Prior to starting the machine, check the movable parts for obstructions, such as rags, packing remnants, etc. Be certain that guards and machine parts are properly installed and secured.
- Prevent accidental startings. Place switch in "OFF" position prior to plugging in machine.
- Ground the machine. Be certain the machine is connected to an internally grounded electrical system.
- Keep work area clean. Keep the work area adjacent to the machine clear of clutter for unobstructed movement of the operator. Remove all oil or coolant spills. Remove shavings from chip tray as required to maintain proper operating clearance.
- Use pipe supports. It is mandatory to use floor mounted pipe stands for long, heavy work.
- Wear proper clothing, Loose clothing can get easily tangled in moving parts. When operating machine, do not wear unbuttoned jackets, loose sleeve cuffs, gloves, neckties, long hair, etc. Safety glasses and shoes should be worn.
- Secure machine and work. Make certain that the machine is bolted to a heavy work bench or proper stand.
- Always maintain machine. Keep machine clean and cutting tools sharp for safe, dependable operation. Follow lubricating instructions. Report any unsafe condition for immediate correction.
- Keep alert. Do not operate machine if ill or drowsy from medication or fatigue. Avoid horseplay around equipment and keep bystanders a safe distance from equipment.
- Operate on switch side only. Machine should be operated on switch side only. Never reach across

- moving parts or material being worked on. Switch should always be accessible to operator.
- Operate In proper environment. Machine should not be operated in damp locations. Wear hearing protection in noisy shop environments. Insure proper illumination in work area.
- Do not misuse machine. Perform only the functions for which the machine is designed. Do not force machine.
- 14. Disconnect power cord prior to servicing. Repair should be attempted only by authorized personnel. Always disconnect power cord before making any adjustments or servicing the machine.
- Do not operate the machine with the spindle cover removed.
- Keep fingers and hands away from the chucking jaws.
- Keep visitors away. All visitors should be kept a safe distance from work area.
- Use only recommended accessories. Refer to Operator's Manual. Use of improper accessories may be hazardous.
- Caution: Do not allow familiarity gained from frequent use of your machine to become commonplace. Always remember that a careless fraction of a second is sufficient to inflict severe injury.



SPECIFICATIONS

Motor: 220-440 V., 3 Phase, 60 Cycle 5 H.P., 1170 RPM, AVO-213 Frame or 220 V., 1 Phase, 60 Cycle 3 H.P., 1800 RPM, RVO-254 Frame.

THREADING RANGE:

Pipe or conduit: 21/2"-6"

With adapter and small die head: 1"-6"

Bolt: 21/2"-4"

With adapter and small die head: 1"-4"

Switch: 3 Station Pushbutton with Magnetic Starter and Overload Switch.

Weight: 1610 lbs. with 2 die heads less optional equipment.

Clearance required to service and operate:

Front and back: 3'

Left Side: 22' (Full length of pipe)

Right Side: 8.5'

Foundation: No special requirement.

Fusing required: Single Phase, 21 amp.,

Three Phase, 10 Amp.

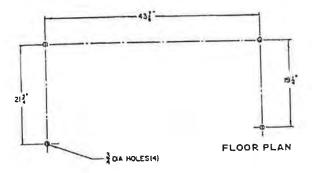
DIMENSIONS

Length										÷														48³⁄a′′	
Width .								,											,					293/4"	
Height.																								453/4"	
Floor to) (. e	er	ıt	е	r	I	i	n	e	(of	s	p	i	n	d	1	e					363/4"	

PREPARING FOR OPERATION

MOUNTING

While it is not essential to bolt the THRED-O-MATIC "66-A" to the floor, bolt holes are provided in the base for a solid and permanent installation. The mounting pads on the motor end of the "66-A" are made thicker to provide for proper oil drainage out of the pipe. Care should be taken in mounting machine to maintain the height differential.



POWER

Use proper electric current as shown on the name plate. Always connect the ground wire to the outlet box.

To prevent power loss, extension cord of sufficient capacity must be used:

POWER COR	DLENGTH	WIRESIZE
220 V. Single Phase	Below 50'	10-3
220 11 0111310 1 11000	50'-100'	8-3
220 V. Three Phase	Below 50'	14-4
220 71 1111 00 1 112	50'-100'	10-4
440 V. Three Phase	Below 50'	14-4
i die At Amino Silvens	50'-100'	£10-4

OVERLOAD SWITCH

On the THRED-O-MATIC "66-A" an automatic cut-off is actuated to protect the motor in event of under-or overloading of power. To reset, open door of machine and push reset button.

OIL PUMP

Pour five gallons of THRED-O-MATIC oil into the THRED-O-MATIC "66-A" sump. If THRED-O-MATIC oil is not available, use an equivalent dark, sulphur base thread cutting oil. Be sure level is above oil strainer.

Collins threading oil is a special oil designed to stand up under the high speed operation of this machine. Other oils will have a tendency to break down, thereby causing excessive die wear.

The cutting oil control value is located on the front panel just below the push button switch. Turn counter-clockwise to decrease and clockwise to increase oil flow.

OPERATING PROCEDURE

DOUBLE AUTOMATIC CHUCK

NOTE: Never, under any circumstances, shift gears while motor is running.

- 1. Press 'reverse' button to open jaws.
- 2. Put stock in machine.
- Select proper speed according to instruction plate above shifting lever.
- 4. Press "forward" button to close jaws and start rotating stock.

For maximum power, machine is engineered for direct drive, without a clutch. Occasionally gears may not mesh when shifting. Simply touch the "reverse" button to move gears slightly, then shift gears.

THREAD CUTTING

- Slip the proper size die head onto the carriage pin, and lower the head into the carriage groove. The THRED-O-MATIC "66-A" carriage is designed so that die head adapter can be mounted for use with 2" and smaller die heads.
- 2. On Mono, Dual, Uniquad and Scroll

heads, close operating handle; on Snap-O-Matic heads, select the correct size and engage the operating handle pin.

 On die heads with reamers attached, be sure reamer is in die head with number side up.

4. Insert stock through the spindle from either the front or rear of the machine.

Select proper speed as shown on the instruction plate.

 Actuate switch to "on" position to close laws and rotate stock.

 Manually feed die head onto the stock, using pressure, until a few threads have been cut, after which head automatically feeds itself.

8. Correct thread length is normally obtained when stock reaches the outside edge of chasers, at which time open die head with right hand. With left hand, move carriage away from stock. The machine is also equipped with a thread length scale.

REAMING

Die heads with reamers attached:

- 1. Be sure number side of reamer is up.
- 2. Reaming is accomplished while threading, in one operation.
- 3. If reaming only is desired, open die head and move carriage forward. Ream to desired depth.

Dual or Uniquad die heads:

- Reaming is accomplished as a separate operation.
- 2. Open die head, move reamer forward. Ream to desired depth. It is best to ream the pipe before threading.

CUTTING

- Select proper speed as shown on the instruction plate.
- 2. Be sure cutting assembly is centered and open.
- Insert stock. Move carriage until cutter wheel is at the point where cut is desired. Turn cutter handle clockwise for cut-off.

NOTE: Never cut into threads, as this may cause damage to the cutting wheel.

GROOVING

- 1. Install grooving head on carriage pin.
- 2. Turn grooving feed screw handle (11) counter-clockwise as far as it will go to

- get cutting tool completely clear of the pipe.
- 3. Shift transmission to the number 1 position and chuck material in machine to be grooved and cut.
- 4. Pass grooving head over material and place operating lever pin in the appropriate setting on the selector plate (19) to match the size of the material you are going to groove and cut. This will align pipe and grooving head.

5. Adjust centering bolt (24) for proper seat in carriage and tighten lock nut (23).

- 6. With machine running in the number 1 position, turn feed screw handle (11) clockwise to engage cutting tool (18) with pipe. Before proceeding to cut material, tighten screw on rear of carriage. This will keep carriage from creeping.
- 7. When using tool on standard wall pipe, the cutting tool will first part the material. After material has parted, while keeping the machine running, turn feed screw handle (11) one complete revolution until marks line up on indicator (13) and bearing block (21) which will give the proper depth of groove.

8. After the groove is finished, turn the feed screw handle (11) counter-clockwise to open position again.

9. Open operating lever and remove pipe.

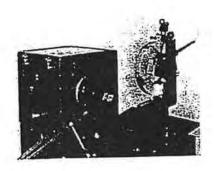
10. Check frequently to be certain grooving tool has not become dull and needs sharpening; use groove depth scale or coupling for this purpose. Visually you may determine signs of a dull or improperly sharpened cutting tool if you notice excessive burr on pipe after cutting.

MAKE-ON SEEFIGURE

Insert the pipe either from the front or rear of machine and start the machine. Apply "Joint dope", and place fitting in position using a wrench or other holding device. Let the machine screw the fitting in place.

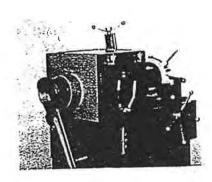
BREAKDOWN SEEFIGURE 2

Old tight fittings can be broken loose at the rear of the machine. The THRED-O-MATIC



MAKE-ON (Figure 1)

"66-A" has an extension bar on the rear for this purpose.



BREAKDOWN (Figure 2)

DIE HEAD ADJUSTMENT

REFER TO DRAWINGS

Your machine is equipped with die heads which have been adjusted to standard thread gauges at the factory. If a "deeper" (undersize) or "shallower" (oversize) thread is desired:

- Mono, Dual and Uniqued heads Loosen locking lever of locking nut and rotate scroll plate in the direction indicated on link or housing.
- Snap-O-Matic heads Loosen two screws and move selector plate in the direction indicated on the selector plate.

To change dies:

- Mono, Dual and Uniquad heads Loosen locking lever or locking nut, rotate scroll plate until cam slots line up with entry slots in die head.
 - Snap-O-Matic heads Remove scroll plate stop, rotate scroll plate until cam slots line up with entry slots in die head.
- Check numbers of dies to be installed. A set consists of five (5) die segments numbered 1 to 5 for pipe size 2½" - 4". Dies for smaller pipe sizes contain four

- (4) die segments numbered 1 to 4.
- 3. Install dies in die head, matching the numbers on the die with the numbers on the die head. Rotate scroll plate to proper pipe size.

LUBRICATION AND MAINTENANCE

REFER TO MAIN ASSEMBLY

PUMP LUBRICATION

CUTTING OIL

To assure clean threads and long wear on chasers use Collins sulphur base cutting oil. Change every forty hours of operation. Three of the main causes of poor threads are either a poor grade of cutting oil, cutting oil that has lost its coolant qualities through over-use, or water in the sump.

CARRIAGE RAILS (35) AND GEAR (37)

Keep clean and oil frequently with machine oil.

OIL PRESSURE RELIEF VALVE (57)

Located next to the strainer in the sump. Should be cleaned periodically to avoid loss of oil pressure through die head. To readjust, turn set screw clockwise as far as it will go and then back one complete turn.

SPINDLE GEAR (5)

Remove spindle cover and check ring gear every six months to see if additional "Fil-Mo-Plate" spray lubricant needs to be applied.

TRANSMISSION (46)

Remove spindle cover and check transmission oil level every thirty days. Change oil after the first 100 hours of operating, use SAE 40 gear oil. Thereafter, drain and replace with $1\frac{1}{2}$ quarts of oil every six months.

V-belts should be adjusted so that when fingers are placed across the two belts and squeezed, there should be at least V2-inch movement in the belts.

MOTOR (62)

Check single plase motors for brush wear every six months. If motor lacks power due to a dirty commutator, use a commutator cleaner stick or fine emery cloth.

Lubrication is not required as all motors have sealed ball bearings.

DIES

Keep sharp and free of chips at all times. Sharpening service is provided at the factory for a nominal charge. As all sets of dies are matched, send in complete set for sharpening. When replacing dies in the die head, make sure the number of each die corresponds with the slot number on the die head.

JAWS

Keep clean with wire brush to avoid slippage. When replacing chuck jaws be sure the "R" markings on the jaws are toward the rear or motor end of the machine.

BRAKE BAND (18)

If slippage of stock should still occur after wire brushing jaws, then:

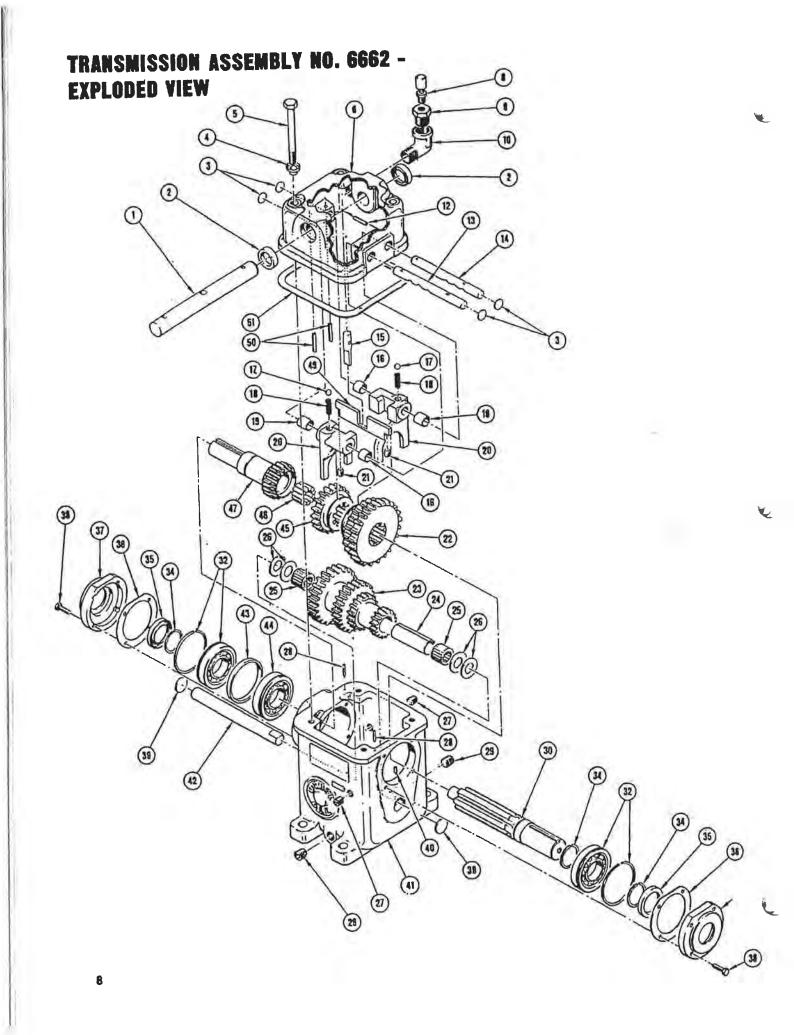
- 1. Stop machine.
- 2. Put shift lever in third speed.
- 3. Remove spindle cover.
- 4. Tighten brake adjustment bolt.
- 5. Start machine.
- 6. Push "stop button and spindle should coast 1/4-1/2 revolution. If not, repeat steps 4, 5 and 6.
- 7. Replace spindle cover.

THRED-O-MATIC "66-A" MAIN ASSEMBLY

NOTE; For Machines Measuring 34%" from Floor to Top Edge at Carrlage End of Base Use:

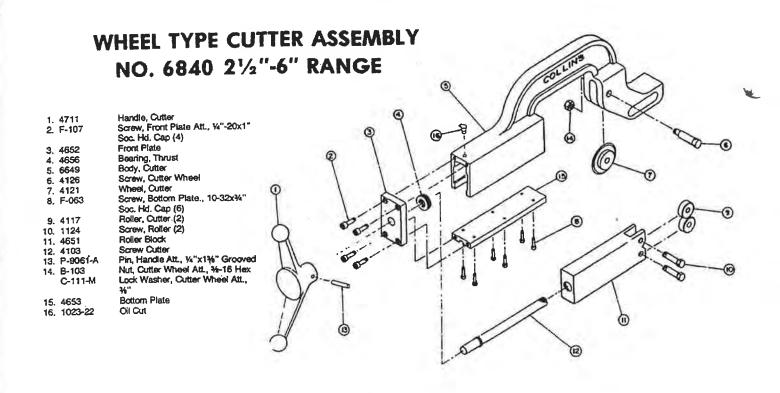
Transmission Drive Bell, Single Phase (2)	Transmission Drive Belt, Three Phase (2)	Oil Hose, Pump Outlet to Oil Tube Housing
41, 4752	4753	54, 15351-26
4		54.

Single Phase, 220 V. 60 Cycle, 3 H.P. 1800 R PM 254 Frame Motor Motor Anchor Bolf (4)	Motor Anchor Flat Washer (4) Motor Anchor Lock Washer (4)	Motor Anchor Nut (4)	Oil Control Valve Assy Bracket (2)	Oil Control Valve Assy Att, Screw (4) Oil Control Valve Accu Att Nist (4)	Oil Pump Anchor Bolt (4)	Oil Pump Anchor Flat Washer (4)	Oil Pump Anchor Lock Washer (4)	Oil Pump	Inspection Plate	Inspection Plate Att. Screw (4)	Motor Mounting Plate	Motor Mounting Plate Shaft	Motor Woodfilly Shart Correct Pri (2)	Bell Adj. Washer	Carriage Handle Pin, 14x3"	Carriage Feed Wheel	Carriage Feed Rod	Base Assy.	Oil 100e Fifting Inside "O" King	Oil Orio Shield Att Screw (4)	Carriage Feed Rod Collar	Carriage Feed Rod Collar Set Screw	Oil Reservoir Baffle Plate (Std. Eqpt. on Mobile	Models)	Oil Tube Pitting Washer	Oil Hose Clamp (8)	Base Door Handle	Base Door Handle Att. Screw (4)	Base Door Handle Att. Not (4)	Carriage Peed Kod Bearing (2)	Calriage Feed Kod Bearing Att. Screw (6)	Splash Guard Aft. Screw						See Detailed Schematic
A-308		B-103	12057	F.108	A-207	D.103	2 5	15371	4240-1	N -503	4330	4331	P. 107	D.108	0.926	4622	17549	4145	4000	N.503	4618	H-202	4064	1737	4507	4514	4015	K-956	B.133	2	F-105	25.N					:	Jeranieo
8		2			65.			\$	67.		98		07		70.	71.	77.	5,5	75	į	76.		77.	7.0	9 0	. 60	.18		ç	97.	8							aec.
Rail Alt. Screw (8) Rail Att. Lockwasher (8) Rail Att. Nut (8)	Kail (2) Carriage Pinlon Pin	Carriage Pinlon Gear Chin Trav	Transmission Sheave Bushing	Transmission Sheave Transmission Orive Belt (single phase) (1)	See Note	Transmission Drive Belt (three phase) (3),		Shirt Lever		Shiff Lever Extension Pin	Transmission	21 T. Orive Gear	Transmission Bearing (2)	Push Button Control Switch	Push Button Control Switch Att. Screw (6)	Make-on Bar	Make on Bar Att, Screw (3)	Oil Hose Filting (8)	Spinale Adjusting Screw	Oil Hose Duran Outlet to Oil Tube Housing	See Note	Oil Hose, Control Valve to Pump Intake	Oil Hose, Oil Tube Housing to Relief Valve	Transmission Bearing Bushing (2)	Tracemission Att Bott	Transmission Att. Flat Washer	Transmission Att. Lock Washer	Transmission Att. Nut	Pressure Relief Valve Assembly	Pressure Relier Valve Body	Pressure Relief Valve Spring	Pressure Relief Valve Adi. Screw	Pillow Block Aft, Screw (4)	Pillow Block Att. Lockwasher (4)	Oil Pump Sheave Motor Sheave. Three Phase	Motor Sheave, Single Phase		Three Phase, 220-440 V. 60 Cycle, 5 H.P. 1800 RPM 213 Frame Motor
F.206 C-110 B.102	4049 P-708	4617	47.55	6665		47.63	60.	4420 P.9041.A	6622	4421	6662	4411	2442	4313	K-961	4680	E-205	4513	A-104	15351-13		15351-23	15351-12	4425	H-133	D-105	C-112	B-104	4630	4631	4632	4638	F-509	5.13	6785		98.29	13051
ਸ਼ੁੱ ਹ		37.	36	6. ±	-		,	42.	4	45.	46.	47.	6, 6	; 5		15		22.	, K					55	ď	'n			57.				58.		8 8		61.	62.
Rear Jaw Housing Adapter Thumb Screw Spindle Cover Assy. Lubricating Oil Cup (2)	Oil Cup Elbaw (2) Spindle Gear	Spindle Block — Front Spindle Bearing — Front	Spindle Bearing — Rear	Spindle Bearing Att. Screw (8)	Spindle Retaining Ring — Rear	Spindle Cover Att: Screw (4)	Wheel Type Cutter Assy.	Knite Lype Cutter Assy.	Cutter Pivot Pin Set Screw (2)	Die Head Assy.	Carriage Assy.*	Reamer Assy."	Isw Housing Adapter — Rear	Brake Band Asso	Rear Oil Drip Shield Rear Spindle Block	Rear Oil Drip Sheild Att, Screw (2)	Spindle Block Att. Screw (8)	Spindle Block Att. Flat Washer (8)	Spindle Block Aff. Lock Washer (8)	Spiritule Block Att. (VVI. (V)	Front Oll Drip Shield — Rear Spindle Block	Front Oil Drip Shield Att. Screw (2)	Breakdown Extension Bar Assy.	Breakdown Extension Bar Roll Pin	Pipe Reducing Bushrig	Oil Tube Housing	Pipe Tee	Oil Tube Fitting Jam Nut	Spindle Assy.	Strainer Assy.	Telescopic Oil Lube Fiffing	Junction Box Att. Screw	Junction Box Cover	Single Phase Magnetic Switch, 220 V. 60 Cycle	Three Phase Magnetic Switch, 220 V. 60 Cycle Three Phase Magnetic Switch, 440 V. 60 Cycle	Magnetic Switch Att. Screw (2)	Magnetic Switch Att. Screw (2)	Magnetic Switch Aff. Lockwasher (2) Magnetic Switch Aff. Nut (2)
	13734	. 6626		J.906 YRS1075		N-702-H	6840	6 7377					4215			N-503		D.205	C-112	6-104			•		4507						. 4770		4357	13073	4321	E.103	C-109	C.109 B-101
- 7	5.	.		œ	i .	6	0	2	12.	13.	14.	5. 5.	<u>.</u>	<u>:</u>	16		20.			5	22.		23.	č	24.	ġ×	27.	28.	29.	99	<u>ب</u> ب	75						

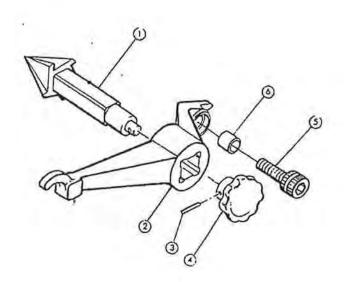


TRANSMISSION ASSEMBLY NO. 6662 - PARTS

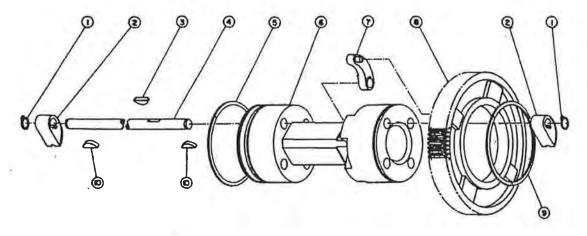
1. 13401 Shaft, Shifter 2. 13402 Seal, Oil (2) 3. 13403 Plug, Expansion (2) 4. 13404 Seal, Oil, Cover Bolt (4) 5. A-317 Bolt, Cover Att., Hex. Hd., 14-16x4" Lg. (4) 6. 13405 Cover, Housing 8. 13407 Valve, Breather 9. 13408 Reducer, Pipe, Yz" Male x ¼" Female NPT 10. 13409 Elbow, Pipe, Street, Yz" x 90° 12. U-416 Pin, Spring, 14" x 114" Lg. 13. 13410 Rod, Shifter, High 14. 13411 Rod, Shifter, Low 15. 13412 Finger, Shifter 16. 13413 Bushing, Shifter Fork (2) 17. 13414 Ball, Shifter Lock (2) 18. 13415 Spring, Shifter Fork (2) 19. 13416 Bushing, Shifter Fork (2) 20. 13417 Fork, Shifter (2) 21. H-305-A Setscrew, Guide Bar, 14-16x1/2" Lg. (2) 22. 13418 Gear, Low 23. 13419 Gear, Cluster 24. 13420 Spacer, Cluster Bearing 25. 13421 Bearing, Cluster Gear	26. 13422 Washer, Thrust (4) 27. 13423 Plug, Pipe, 1/1-27 NPT (2) 28. O-104 Pin, Dowel, 1/1-27 NPT (2) 29. 13424 Plug, Pipe, 1/1-18 NPT 30. 13425 Shaft, Spline 32. 13427 Bearing, Ball w/Ret. Ring 34. 13429 Ring, Retaining (3) 35. 13430 Seal, Oil (2) 36. 13431 Gasket, Retainer Plate (2) 37. 13432 Retainer Plate (2) 38. A-205 Boit, Retainer Plate Att., Hex. Hd, 5/16-18x1" Lg, (4) 39. 13433 Plug, Expansion (2) 40. H-106-D Setscrew, 1/1-20x1/2" Lg. 41. 13434 Housing 42. 13435 Countershaft 43. 13436 Spacer, Bearing 44. 13437 Bearing, Ball 45. 13438 Gear, High 46. 13439 Bearing, Needle 47. 13440 Gearshaft, Pinion -16T. 49. 13441 Guide Bar 50. U-916 Pin, Spring, 1/1-x1 1/1" Lg. (2) 51. 13442 Gasket, Cover	9)
--	---	----



Adjustable Cone Reamer Assembly #10060



SPINDLE ASSEMBLY NO. 6720

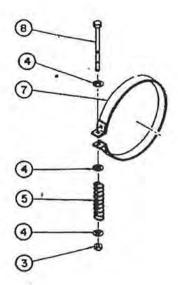


- 2. 6751 12875
- 3. W-810
- 4. 4211 5. YKSA-1075
- 1. Y-5100-100 Jaw Retaining Ring (8)

 - Jaw (6)
 Jaw Set, R&L (8)
 Jaw Lever Key (4)
 Jaw Shaft (4)
 Spindle Retaining Ring, Rear

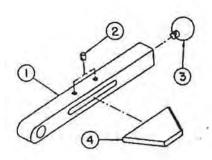
- 6. 6625 7. 4212 8. 6612 9. YKSA-1075
- 10. W-810
- Spindle
- Jaw Lever and Pin Assembly (4)
- Spindle Gear
- Spindle Retaining Ring, Front Jaw Key (8)

BRAKE-BAND ASSEMBLY NO. 12582



- 3. B-103 4. DA-10 DA-104-W 4263
- 12583
- 4261-1
- Adjustment Nut Spring Flat Washer Spring, Compression Brake Shoe & Lining Assy. Adjustment Bott

BLADE REAMER ASSEMBLY NO. 6820 21/2"-6" RANGE



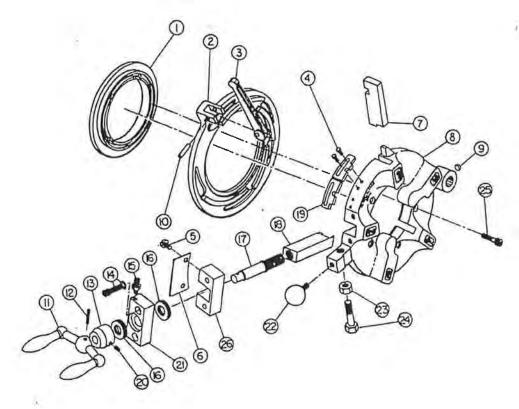
- 6617-1
- H-305-D
- 4943-1 H-508-D
- 4. 12237 12238
- Holder Reamer
- Set Screw, Reamer Att., 16-16x1/1" (2)
- Handle, Reamer
- Set Screw, Handle Att., 1/2-13x11/4"
- Reamer, Inside, 2½"-4" Reamer, Inside, 5"-6"

GROOVER HEAD ASSEMBLIES

NOTE: Centering dies are included in die head assembly.

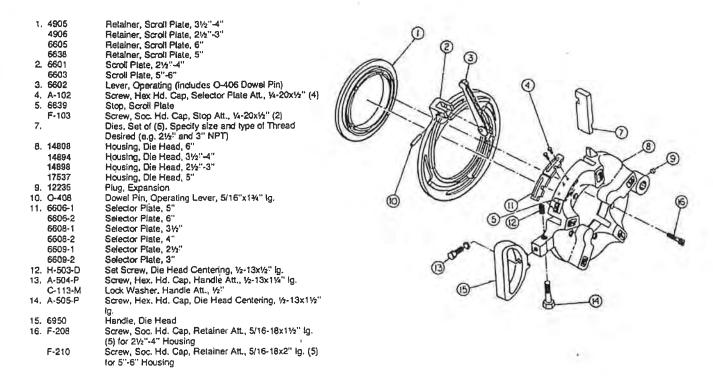
Part No. HEAD ASSEMBLIES

12124 2½"-3" Die head assembly for grooving & beveling, less tool bits
12125 3½"-4" Die head assembly for grooving & beveling, less tool bits
12107 5"-6" Die head assembly for grooving & beveling, less tool bits



1.	4905	Retainer, Scroll Plate, 21/2"-4"	17.	12227	Screw, Feed
	6605	Retainer, Scroll Plate, 5"-6"	18.	12319	Cut-Off Tool, 21/2"-6"
2.	12122	Scroll Plate, 21/2"-4"		12229-40	Grooving Tool, Sch. 40 Pipe, 21/2"-6"
	12123	Scroll Plate, 5"-6"		12229-80	Grooving Tool, Sch. 80 Pipe, 21/2"-6"
3,	6602	Lever, Operating, Includes: O-406 Dowel Pin		12213	Double Bevel Tool, 371/2 degrees, 21/2"-6"
4.	A-102	Screw, Hex Hd. Cap, 1/4-20x1/2" (4)		12268	Double Bevel Tool, 45 degrees, 21/2"-6"
5.	L-1100	Screw, Round Head Mach., 1/4-20x1/4" (2)		12218	Saran Tool, 2½"-6"
6.	12228	Cover, Die Slot Extension	19.	6609-1	Selector Plate, 21/2"
7.	12101	Die, Centering, 21/2"-3" (4)		6609-2	Selector Plate, 3"
	12104	Die, Centering, 3½"-4" (4)		6608-1	Selector Plate, 3½"
	12102	Die, Centering, 5"-6" (4)		6608-2	Selector Plate, 4"
8.	14895	Housing, Groovery 21/2"-4"		6601-1	Selector Plate, 6"
	14897	Housing, Groover, 5"-6"		6606-2	Selector Plate, 6"
9.	12235	Plug, Expansion	20.	H-103-A	Set Screw, 1/4-20 x 5/16"
10.	Q-408	Dowel Pin, 5/16"x134"	21.	12094	Bearing Block
11,	12215	Handle, Feed Screw	22.	4943-1	Handle, Die Head
12.	P-706-A	Grooved Pin, 3/16"x1"		H-508-D	Set Screw, 1/2-13x11/2"
13,	12097	Indicator, Groove Depth	23.	B-105	Nut, Hex., 1/2-13
14.	F-209	Screw, Soc. Hd. Cap, 5/16-18x11/4" (2)	24.	A-505-P	Screw, Hex. Hd. Cap, 1/2-13x11/2"
	C-110	Lock Washer, 5/16" (2)	25.	F-208	Screw, Soc. Hd. Cap, 5/16-18x11/2" (or 21/2"-4" (5)
15.	F-105	Screw, Soc. Hd. Cap, 1/4-20x1/4"		F-210	Screw, Soc. Hd. Cap. 5/16-18x2" for 5"-6" (5)
	B-101	Nut, Std. Hex., 1/4-20	26.	12226	Extension, Die Stot
16.	12096	Bearing, Thrust (2)			

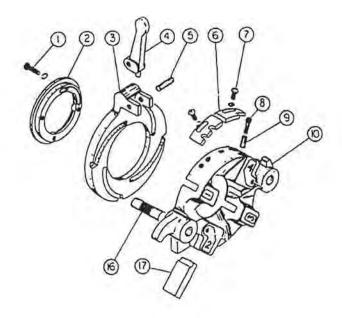
SNAP-O-MATIC DIE HEAD ASSEMBLIES 21/2"-6"



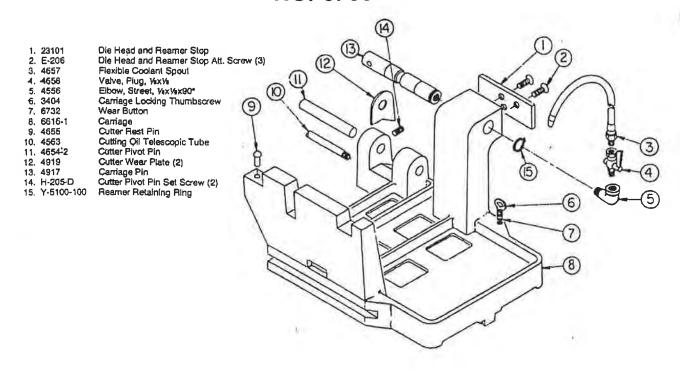
SNAP-O-MATIC DIE HEAD ASSEMBLIES 1/8" - 2"

DUAL SNAP-O-MATIC DIE HEADS: 1/4" & 3/4"; 1/2" & 3/4"; 1/1" & 1/4"; 1/1/4" & 2" QUAD \$NAP-O-MATIC DIE HEAD: 1"-2"

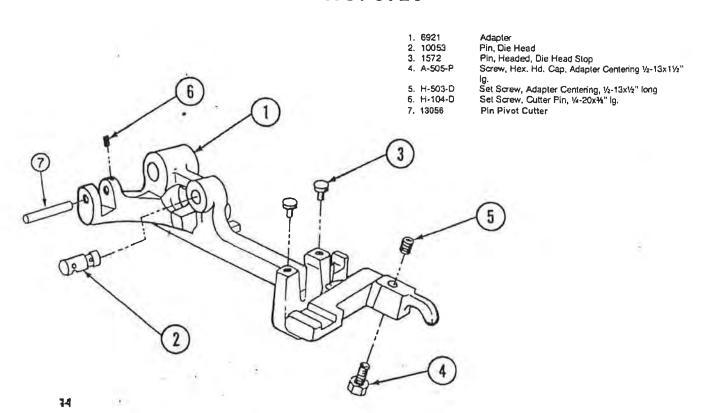
1.	F-053	Die Head-Soc. Hd. Cap Screw, 10-24x¾" (4)
	C-107-HC	Lockwasher, Hi Collar, No. 10
2.	1433	1"-2" Retainer Plate
	1673	1/4"-1/4" Retainer Plate
3.	1632	1"-2" Scroll Plate
	1642	1/4" Scroll Plate
4.	1633	Operating Lever
\5 .	O-406	Operating Lever Pivot Dowel Pin, 5/16"x1"4"
6.	1634-1	1"-1¼"-1½" Selector Plate
	1635-1	1" Selector Plate
	1635-2	1¼" Selector Plate
	1636-2	2" Selector Plate
	1644-1	1/2" Selector Plate
	1644-2	¾" Selector Plate
	1645	4" & 44" Selector Plate
	1646	%" Selector Plate
7,	CC-109-AP	Washer, Tooth Lock, External, 1/4"
	G-104-S	Selector Plate Att. Button Hd. Cap Screw, 14-20x46"
		(4)
8	F-107	Scroll Plate Stop Soc. Hd. Cap Screw, 1/4-20x1"
9	13113	Scroll Plate Spacer
10	1631	1"-2" Die Head Housing
	1641	M"-44" Die Head Housing
16	1431-1	Die Head Pin
17,		Set of (4) Dies. Specify Size and Type (e.g. 1/2" NPT)
18.	13385	Ball
19.	12220	Spring
20,	12135	Expansion Plug

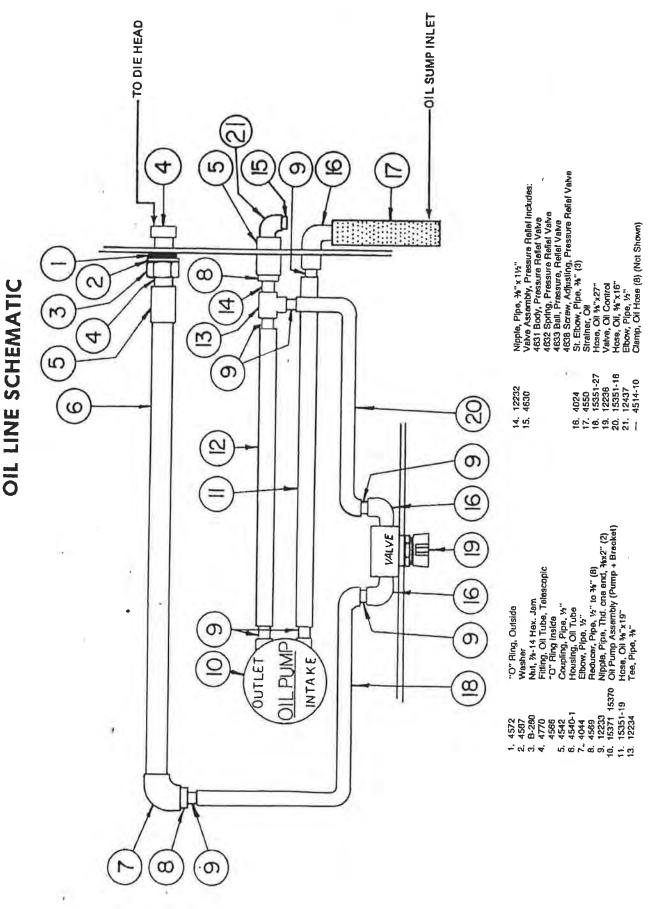


CARRIAGE ASSEMBLY NO. 6780



ADAPTER ASSEMBLY FOR 1"-2" DIE HEADS NO. 6920



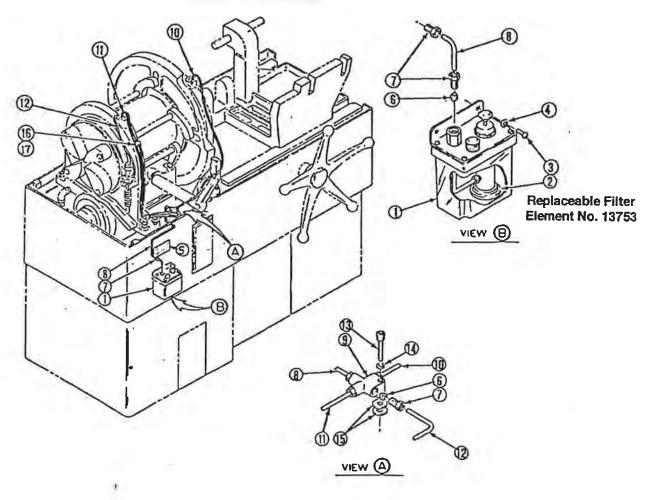


LUBRICATOR ASSEMBLY

PART NO. 13734

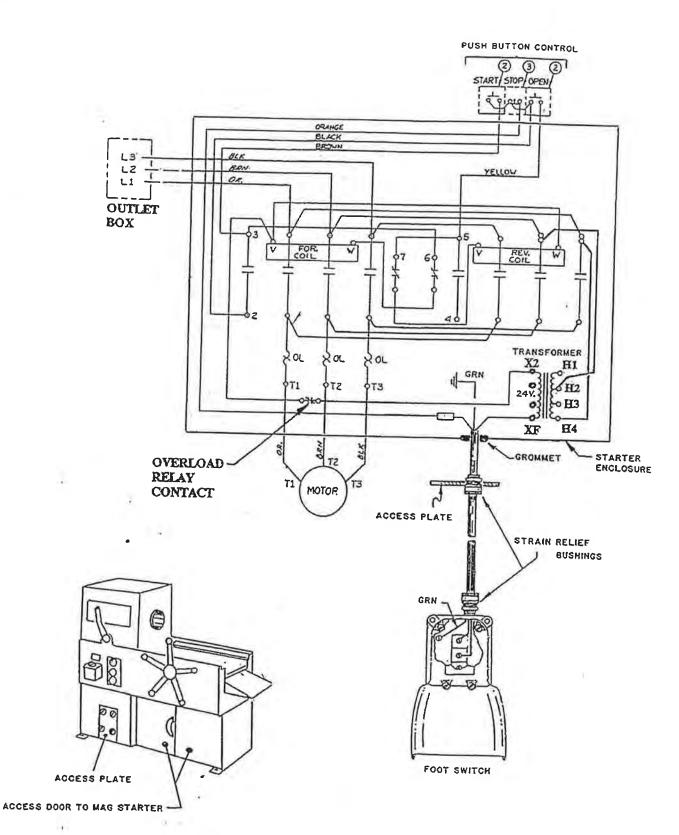
OPERATING INSTRUCTIONS

- 1. Before operating machine lift and release plunger six times on lubricator.
- 2. Lubricate every two hours of operation (lift and release plunger once)
- Keep reservoir of lubricator filled with SAE 30 oil.
 Replace filter element (Part No. 13753) on lubricator pump once a year.



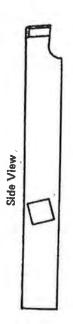
1,	13735	Lubricator
2.	13753	Filter Element (Included in #13735)
3.	G-104-S	Screw (2)
4.	CB-109-A	Lockwasher (2)
5.	13754	Plate, instruction
6.	13736	Sleeve, compression (6)
7.	13737	Bushing, compression (6)
8.	13739-21	Tubing, 21" lg.
9.	13738	Junction
10.	13739-25	Tubing, 25" lg.
11.	13739-25	Tubing, 25," lg.
12.	13739-26	Tubing, 26" lg.
13.	F-107	Screw
14.	C-109-M	Lockwasher
15.	D-102	Flat washer (2)

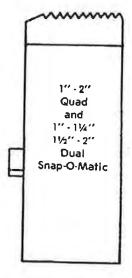
THRED-O-MATIC "66-A" WIRING DIAGRAMS THREE PHASE



DIE SEGMENT INDEX

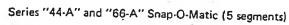
P = PIPE C = CONDUIT

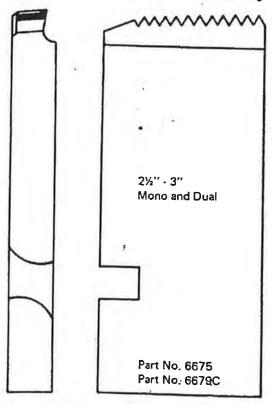


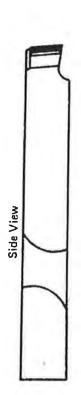


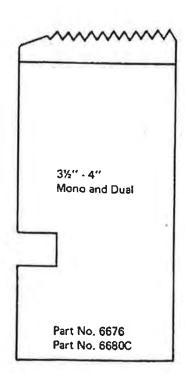
No. 2584

No. 2586C

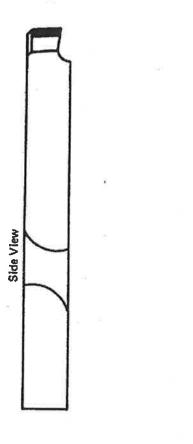


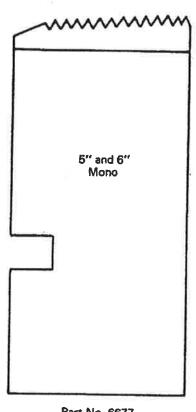






Series "66A"





NOTE: This page is left blank!

THREAD SIZES AND SPECIFICATIONS

	_	IMENSION	ıs		-	-	U.S.	STAN	DARC	BRITISH STANDARD						METRIC				
HISTOR OIA.		MAJOR ¹ DIAMETER OF THREAD	MAJOR ¹ DIAMETER OF THREAD	PIPE, TAPERED H.P.T.	FIPE, PARALLEL (CONDUIT! N.P.S.	COARSE U.H.C.	BOLT, MATIONAL FINE, U.M.F.	CONS	TANT ICH	API CASING LONG THD.	API, TUBING HON-UPSET THD.	API, TUBING UPSET, REG, THO.	PIPE, TAPERED SEPT	PIPE, PARALLEL BIPP	CONDUIT	BOLT, WHITWORTH	BOLF, PINE BSF	COARTE 150	FINE 180	METRIC
-	28			-	4.5	•		ADS PE	A 1145H		-	-	-		ADS P	ER INCI			TCH IN	4414
		HOM	MILLIMETER				THRE	AUS PE	R INCH	-								1,6		
	1/4	750	4.35			70	26	2.5		2						20	74	1,0		
	3/14	.215	1.74			14	24						30		300	16				
	3, 3,	.315 .334	9.0									-	-			-	-	1,25	1,0	-
	3/6	2/1	9.57			14.	24	1	-				74	71		14	20	5.57		
1/1		.313	10.0									1						1.5	1,0	
1/8		.433	10,27	77	77													1.5	1,0	
	7/14	.A))	11,11			14	70						-			14	10	1.75	1.5	
	1/7	500	17.3			1)	70					420	19	19	-	17	16			
1/4		.534	13.14	14	10															
	9/14	.551	14.29			12	18					-				12	14	7.0	1,5	
		.591	15.0													11	14			
	5/8	475 ,470	16.0			11	10				3		-,-	-				2.0	1.5	1,5
3/1		454	17.0		-								17	19						
2/8		471	17.05	16	18			15.5		F				= = 2				2.5	1.3	
	3/4	.75	18,0			10	14								14	10	12			
		.787 .875	20.0						- I			-	14	14				7.5	1.5	1,3
1/7		.834	21,27	14	14													7.5	1.5	
	7/6	.875	77.0			•	14		Eq. (ii)							,	11		-	
25,5	4.1	.945	24.0							-	0.00	-				-		3.0	7.0 L 1.5	1,5
	1	1.0	75.0 25.4			1	171		17						и	1	10			
3/4		1,041	74.0 76.44	_	-	-	-	-					14	14						
3/4	11	1.044	26.57	14	14											_	-	3.0	2.0	
-	-	1,102	27.0													7	-			
11/8	N 9	1,125	26,57			-	12		-									3.5	2.0	
	1-1/4	1.25	31.75			7	12	8							14	7_	•	-	1.5	1.5
		1,24	37.00 33,00														-	3.5		
1		1,300	33,25	11.5	11.5		-	-	-				11	11	-				1 3 3	
-	1-3/4	1,375	34,97			6	17	•					-		-	4	•			
		1,417	35.0 34.0															4.0		
		1 457	31,0																	
	1-1/7	1,50	34.1 37.0				17				_	-	-		- la	-	•	4,0	3.5	
		1.575	40.9											20-25		5			1.5	1.5
1 1/4	1 5/8	1,625	41.27	-	-	5,5		6					11	- 11						
1 1/4		1.453	42,6	\$1.5	11.5						-	-	-					4.5		
		1 732	44.0						-							3	7			-
	13/4	1 775	45 0	-	-	_ 5			12									4.5	1	
	17/8	1,075	47.42		=	5		-	17		-		11	11		4.5.				
11/7		1,862 1 89	41.0														-	3.0		-
1-1/2		1,941	\$0.0	11.5	11,5	-	-						=						1.5	1.5
1	7	7,0	50.0			4.5			12			-	-		14	4.5	,	3		
	2:1/4	7,047	57.0 57.15			4.3		=					11	11-		1		-	-	+
7		7,347	59,41 40,09	11.5	31.3			-											-	
2-1-	2-3/4	2,349	40.17								10	_			14					
	7-1/7	7.50 7.43)	43,5	_		-						-						-		-
2:1/7	2-2/4	7.847	17,7			4							-						=	=
	2-7/0	2.649	77.87								10		11	11	-					
2 1/3	3	1,0	75.14			- 2												-		-
	3-7/37	3,196	61,18 97,55	—		4		-	-	-		-								
3	4-17-4	3.44	17.64								1		11	11	1		-	1	1	
,	3-1/2	3,44	U.75	<u> </u>	•						10						-	1	10	1
	3·1/7	3.75	95,25	-		4		1	-		_								1	-
	3 53/LL	3.1)	94 77						_			1	-11	11	-		-	1	1	1
3-1/2		3,964	100.33	1														-	1	+-
-	4	4,0	113.03	1	-	-		1	-	-			11	11				-	1	-
4-1/2		4,475	113,44							1			-	-	-	-		1		
	4-1/2	4,445	113,97		1.												-	-	-	
3	3	3,45	134,47			-	1	1	1	1			11	11				1		
1		5.55	10.07										11	111		-	-	1		
		4.45	143.8	1		1	-	-	-		+	-		1	-	-	-			Total Control

LIFETIME WARRANTY

ROTHENBERGER USA, INC., warrants all our products against defects in materials or workmanship. This warranty covers replacement or repair of defective parts for the lifetime of the product (excluding motors and electrical parts, which are warranted for a period of one year from date of sale), provided that failure is not due to abuse, abnormal use, or by normal wear and tear. NO OTHER WARRANTY, EITHER WRITTEN OR ORAL, SHALL APPLY. Pipe and drain cleaning tools and cables are not covered by this warranty and are considered expendable materials.

Products must be returned, freight prepaid, to ROTHENBERGER USA, INC. If the warranty applies, the product will be repaired or replaced at no charge to the customer and returned freight prepaid. Only ROTHENBERGER USA, INC. can make warranty judgments and we retain the right to the final decision regarding warranty application. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS. IN NO EVENT DOES ROTHENBERGER'S USA, INC. LIABILITY EXTEND BEYOND REPAIR OR REPLACEMENT OF ITS PRODUCT WARRANTED ABOVE.

ROTHENBERGER

955 Monterey Pass Road • Monterey Park, CA 91754 Tel 323-268-1381 Fax 323-260-4971 www.rothenberger-usa.com