United Strapping Tools

Read all safety instructions and information regarding operation of this product before proceeding

PARTS AND SAFETY MANUAL
UST 1320/1322/1325/1330

TOOL SPECIFICATIONS

TOOL NUMBER	TENSION	WIDTH	THICKNESS
UST 1320	1600lbs (725kg)	3/4” (19mm)	0.025” - 0.031” (0.64mm-0.8mm)
UST 1322	1600lbs (725kg)	1” (25mm)	0.025” - 0.031” (0.64mm-0.8mm)
UST 1325	1600lbs (725kg)	1 1/4” (32mm)	0.025” - 0.031” (0.64mm-0.8mm)
UST 1330	1600lbs (725kg)	1 1/4” (32mm)	0.035” - 0.044” (0.89mm-1.12mm)

PLEASE NOTE:
READ ALL WARNINGS BEFORE OPERATING THIS PRODUCT

WARNING!

READ THESE UNITED STRAPPING TOOLS (UST) INSTRUCTIONS CAREFULLY. FAILURE TO FOLLOW THESE CAN RESULT IN SEVERE PERSONAL INJURY.

STRAP BREAKAGE HAZARD
Improper operation of the tool or sharp corners on the load can result in strap breakage during tensioning, which could result in the following:

- **A sudden loss of balance causing you to fall.**
- **Both tool and strap flying violently towards your face.**

Failure to place the strap properly around the load or an unstable or shifted load could result in a sudden loss of strap tension during tensioning. This could result in a sudden loss of balance causing you to fall.

Read the tool's operating instructions. If the load corners are sharp use edge protectors. Place the strap correctly around a properly positioned load.

Positioning yourself in-line with the strap, during tensioning and sealing, can result in severe personal injury from flying strap or tool. When tensioning or sealing, position yourself to one side of the strap and keep all bystanders away.

TRAINING
This tool must not be used by persons not properly trained in its use. Be certain that you receive proper training from your employer. If you have any questions, contact your UST Representative.

EYE INJURY HAZARD
Failure to wear safety glasses with side shields can result in severe eye injury or blindness. Always wear safety glasses with side shields which conform to ANSI Standard Z87.1 or EN 166.

FALL HAZARD
Maintaining improper footing and/or balance when operating the tools can you to fall. Do not use the tool when you are in an awkward position.

CUT HAZARD
Handling strap or sharp parts could result in cut hands or fingers. Wear protective gloves.

TOOL CARE
Take good care of the tool. Inspect and clean it daily, lubricate it weekly and adjust when necessary. Replace any worn or broken parts.

WORK AREA
Keep work areas uncluttered and well lighted.

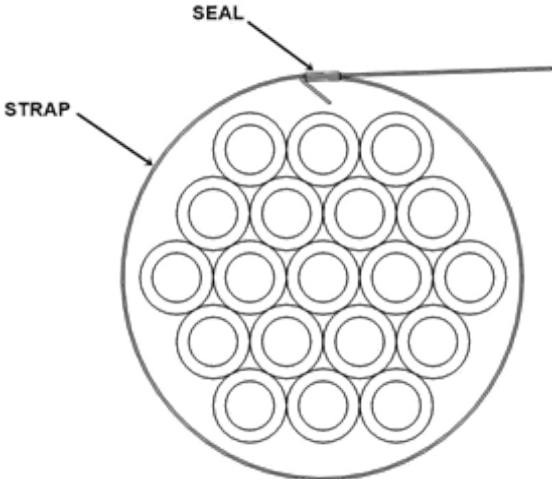
OPERATING SEQUENCE
Use the correct UST products for your application. If you need help contact your UST Representative. Before using this pneumatic tool, read the Operation and Safety Instructions contained in this manual.

CLEANING & LUBRICATION
Clean and apply light weight machine oil to all moving parts on a weekly basis. Refer to the pneumatic information shown in this manual for lubricant recommendations or contact your UST Representative for any questions regarding the air motor.

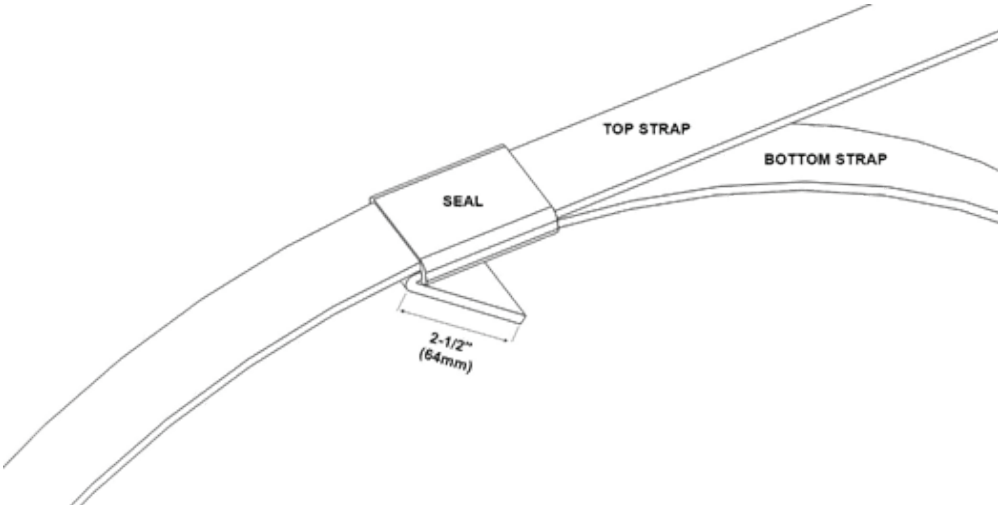
OPERATING INSTRUCTIONS

Refer to the tool specifications to make sure the correct strap and seal has been selected.

1. Thread the strap through the seal. Continue to encircle the item to be strapped and thread the lead end back through the seal as shown. Sharply bend approximately 2 1/2" (64 mm) of the strap end back under the seal. Pull the slack out of the strap.



2. Align the tool over the strap, with the top portion of the strap feeding through the breaker foot and feedwheel. Slightly tilt the tool forward to ensure proper contact of the jaws to the seal. Press down on the operation lever to begin the tensioning portion of the tool cycle.
If necessary to shut off the tool in the middle of operation, push down on the stop lever above the operating lever.



WARNING!

Wear safety glasses. Stand to one side of the strap while tensioning.

Make sure all bystanders are clear before proceeding.

Apply tensions appropriate for the size and type of strap used, and compatible with the loads attached.

To avoid accidents, put the cut end of the strap back into the dispenser when not in use.

3. Once the tool has tensioned the strap to the maximum level it can, press the operating lever down again. Air will be routed through the tool to the sealing mechanism and cylinder which will notch and seal the strap.

The tool will also cut off the top strap.

4. Raise the tool away from the completed seal and inspect closely to make sure the seal was notched properly. If improper notch has been formed, cut the strap and perform all steps again.

JOINT INFORMATION

The UST 1320 though UST 1330 are double reverse notch-joint sealers. Each notch-joint must be carefully inspected to make certain that good notches are formed. A properly formed notch-joint will appear as shown in the illustration. If the notch-joint does not appear as shown, then the operator of the tool must proceed as follows.

1. Make certain that the tool's operating instructions are being followed before applying another strap.

2. Cut the strap off and apply a new strap and seal. Tilt tool forward 10-15 degrees to improve contact of jaws with seal.

3. An improperly formed seal which does not have two(2) good notches could result in strap separation. Before moving any package, be certain that the seal is formed as shown. Inspect the joint before proceeding. If the seal is not properly formed, check the tool for worm or broken parts. Repair the tool for worm or broken parts. Repair the tool before applying another strap.

CUTTING TENSIONED STRAP
Using claw hammers, crowbars, chisels, axes or similar tools can cause tensioned strap to fly apart with hazardous force. Use only UST cutters designed for cutting strap such as the Model UST 1400. Read the instructions in the cutter's manual for proper procedure in cutting strap. Before using any UST product read its Operation and Safety Manual.

CLEANING & LUBRICATION
Clean and apply light weight machine oil to all moving parts on a weekly basis. Clean the feedwheel daily with a wire brush. Debris accumulated in the teeth of either the feedwheel or the clutch plug must be removed with a small wire brush. A need to clean the teeth will become apparent when either the feedwheel skid on the strap or the lower strap slips on the clutch plug during tensioning. Refer to the pneumatic information shown in this manual for lubricant recommendations or contact your UST Representative for any questions regarding the air motor.

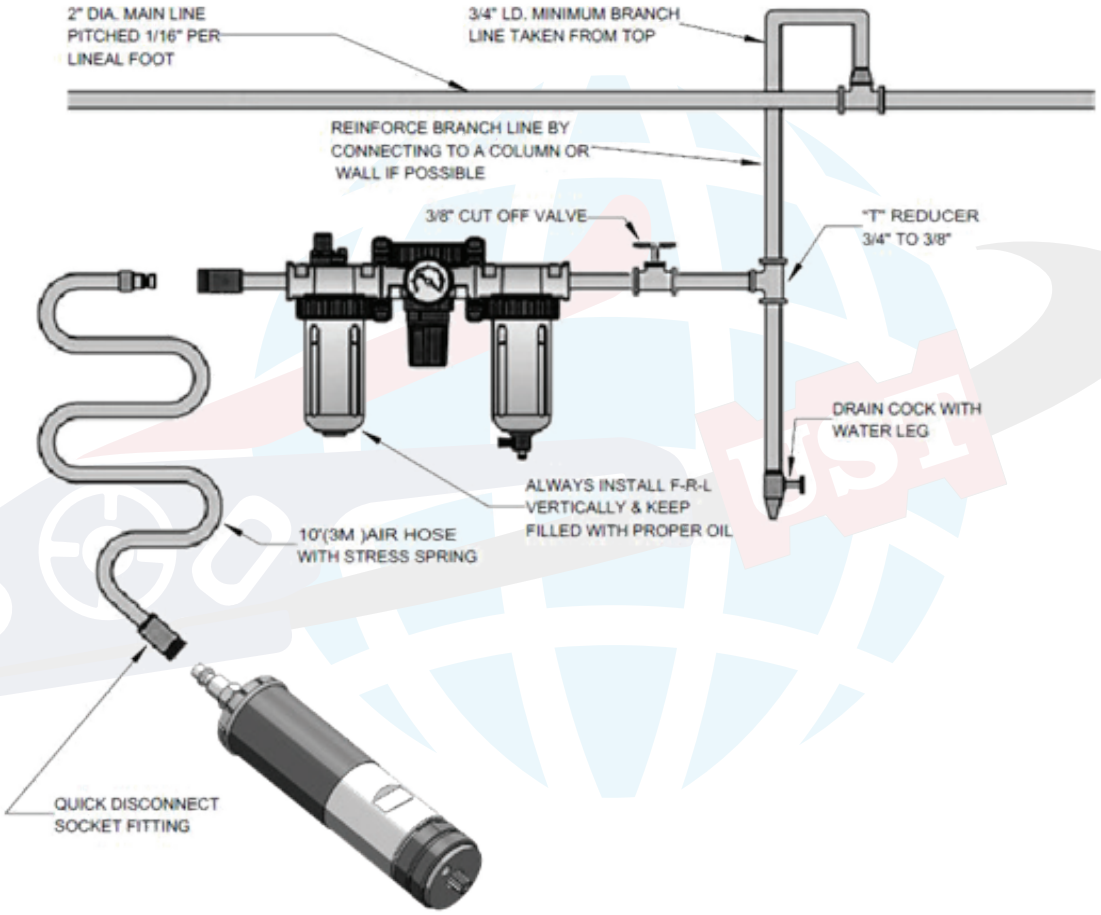
PNEUMATIC INFORMATION

AIR SUPPLY INSTALLATION

If the compressor has a good dryer unit, use black pickled pipe. If a dryer unit is not available, use galvanized or copper pipes.

To perform reliably, a pneumatic tool requires a source of continuous, clean, water-free air at an adequate pressure.

A filter-regulator-lubricator unit (P/N 173111) must be installed as close to the air tool as possible, preferably within 10 feet (3M). It should be placed in a convenient location where it can be easily drained, adjusted and filled with oil. The air hose must have at least a 3/8" (9.5 mm) I.D. A quick-connect press-on socket is installed on the stress spring end of the hose for convenient hookup to the air tool.



Do not install where bowls may be exposed to materials incompatible with polycarbonate. Certain oils, chemicals and fumes can weaken these bowls and cause them to burst. Clean only with warm water.

WARNING!

Never operate this tool using a bottled air or gas source.

Bottled air/gas sources do not provide a consistent operating pressure and could result in air pressures that exceed the maximum allowable pressure for this tool.

MOISTURE
Steps must be taken to remove water from air lines and keep it from reaching the tool. Moisture will cause corrosion, wash away lubricants and failure of internal parts.

The main line should be pitched so the far end terminates in the water leg. Branch lines are taken from the top of the main, never off the bottom. Ever branch should have a water leg at its lowest point, with a drain that is drained daily.

If these precautions are taken and water is present, an after cooler and a moisture separator are required between the compressor and air tank. A large air line separator can be installed in the air tool line.

Water in air lines is a constant threat to the proper operation of the tools. Even near freezing conditions, a good refrigerant type dryer is essential. A good dryer will remove 95% or more of the water at the compressor. The remaining moisture is removed at the water leg.

LUBRICATION
The air motor must be lubricated to ensure optimal operating conditions. This is achieved by keeping the air line lubricator filled with oil and correctly adjusted. Without proper lubrication, the motor will become sticky and result in a lower tension force and be difficult to operate.

Install the lubricator as close to the air tool as possible. For proper operation, oil must drop through the lubricator sight glass at a rate of 4 to 10 drops per minute. Only 20% of this oil is delivered to the tool. The rest of the oil goes back to the oil reservoir. If an adjustment is required, the adjusting screw on top of the lubricator may be turned as marked to reduce or increase the flow of oil.

The correct grade of oil must be used in the lubricator. If the oil is too heavy, not enough lubrication will be delivered and will cause sluggish operation of the tool.

Recommended oils are any good grade of rust and oxidation inhibiting oil with a viscosity of 80-120 S.U.S at 100 degrees Fahrenheit.
(0.15 to 0.25 cm^2/sec at 38 degrees Celsius)

Several drops of lubricator oil added to the inlet of the air motor or into the air line each day will help insure good operation of the tool. A noticeable reduction of air motor performance can usually be corrected by squirting a few drops of oil into the air line.

COLD WEATHER OPERATION

If a tool does not operate satisfactorily in freezing temperatures, certain steps can be done to correct the problem. The following steps can be taken to improve the cold weather condition operation of the tool:

- **An air line dryer adjacent to the compressor.**
- **Using the correct lubricant. Using anti-freeze for air tools does not work well. The best lubricant for freezing conditions is a 1 to 1 oil and kerosene combination.**
- **Run the air supply line to an indoor located Filter-Regulator-Lubricator or relocate the F-L-R to a warmer operating area.**

Air pressure is assumed to be 90 psig with the recommended size and length of the air hose. Volume of air at room temperature and sea level pressure, or "free air" conditions.

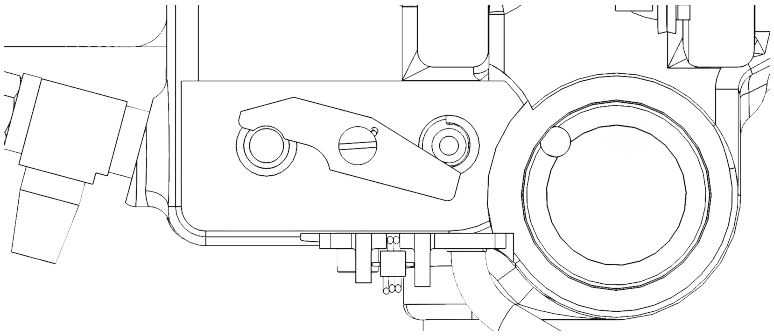
AIR LINE PRECAUTIONS
Strap tension is controlled by air pressure. Minimum air pressure is 50 psig with the maximum pressure at 90 psig. Use the proper air line piping and lubrication as specified in this manual. Your air pressure gauge must be accurate and be confirmed of its accuracy by comparing it to a calibrated master gauge.

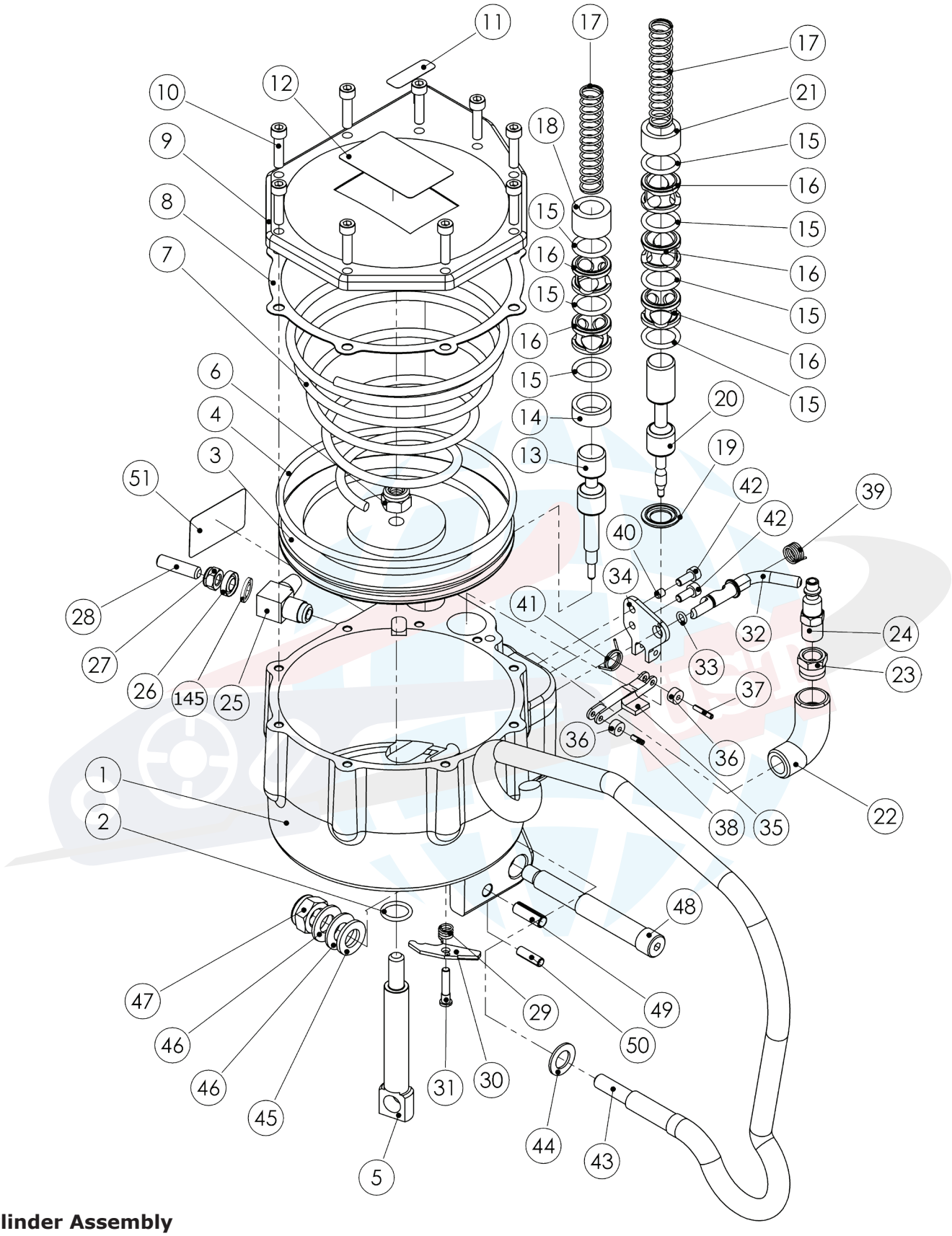
CYLINDER PARTS LIST, UST-1320, 1322, 1325, 1330

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
1	1	28.423405	Cylinder	29	1	28.4131	Valve Latch Spring
2	1	28.6594	O Ring, 5/8	30	1	28.423555	Valve Latch
3	1	28.423410	Sealer Piston	31	1	28.23670	Shoulder Screw
4	1	28.4166	O Ring, 5 3/4	32	1	28.423393	Stop Lever
5	1	28.423411	Ram	33	1	28.20701	O Ring, 7/32
6	1	28.423573	Nylock Nut	34	1	28.4136	Cover Plate
7	1	28.4104	Conical Compression Spring	35	1	28.4138	Valve Arm
8	1	28.4152	Cylinder Gasket	36	2	28.4106	Valve Arm Roller
9	1	28.423416	Cylinder Cover	37	1	28.280840	Roll Pin
10	9	28.174149	SHCS, M6	38	1	28.423413	Roll Pin
11	1	28.1348	Protection Sign	39	1	28.4130	Spring
12	1	28.1347	Warning Sign	40	1	28.306047	SHSS, M5
13	1	28.4115	Sealer Valve Stem	41	1	28.4109	Valve Handle Spring
14	1	28.4113	Lower Sleeve Spacer	42	2	28.423288	SHCS, M5
15	7	28.4165	O Ring, 3/4	43	1	28.800818	Hanger
16	5	28.423414	Valve Sleeve	44	1	28.71581	Washer
17	2	28.423563	Valve Spring	45	1	28.424329	Washer, 13mm
18	1	28.4111	Upper Sleeve Spacer	46	2	28.423584	Belleville Spring Washer
19	1	28.4144	Lower Valve Spacer	47	1	28.4637	Locknut, 1/2
20	1	28.4114	Tensioner Valve Stem	48	1	28.423412	Pivot Shaft
21	1	28.4193	Upper Sleeve Spacer	49	1	28.423572	Roll Pin
22	1	28.4190	Street Elbow	50	1	28.5460	Roll Pin
23	1	28.8478	Bushing	51	1	28.424230	Name Plate (UST 1320)
24	1	28.20704	Hansen Plug		1	28.436121	Name Plate (UST 1325)
25	1	28.423395	Elbow, Regular		1	28.424236	Name Plate (UST 1330)
26	1	28.171655	Nylon Washer	52	1	28.1346	Warning Sign
27	1	28.422837	Nylock Nut, M8	145	1	28.171661	Steel Collar
28	1	28.423568	SHSS, M8				

NOTE:

- Assembly position of Valve Latch (item #30).





Cylinder Assembly

NOTE:

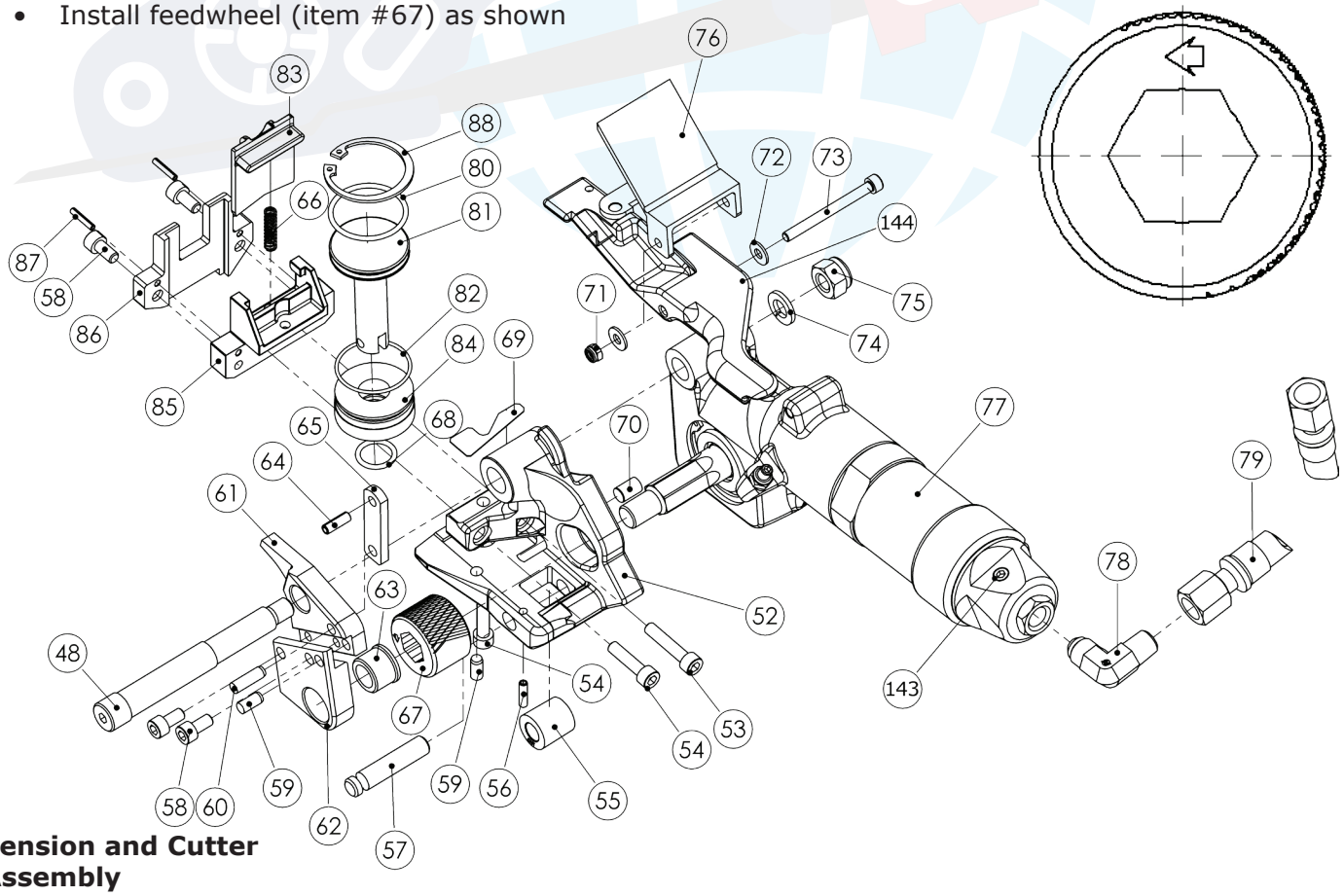
- Apply one drop of Loctite 242 (blue) to the nylock nut (item #6). Allow 12 hours to cure. Torque item #10 to 100-120 lbs-in (11.3-13.6 Nm).

TENSION UNIT PARTS LIST, UST-1320, 1322, 1325, 1330

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
52	1	28.423401	Breaker Foot	72	1	28.6057	Washer
52	1	28.162374	SHCS, M6	73	2	28.423556	SHCS, M5
54	2	28.174149	SHCS, M6	74	1	28.10078	Split Lock Washer
55	1	28.423517	Backup Roller	75	1	28.423573	Nylock Nut, M10
56	1	28.250310	Roll Pin	76	1	28.173955	Guard
57	1	28.423553	Roller Pin	77	1	28.423560	UST Tension Unit
58	4	28.10032	SHCS, M6	78	1	28.20710	Regulator Elbow
59	2	28.253596	Dowel Pin	79	1	28.423355	Air Hose Assy
60	1	28.423571	Dowel Pin	80	1	28.13538	O Ring, 1 3/8”
61	1	28.423406	Outer Link, Upper	81	1	28.423408	Position Piston
62	1	28.423407	Outer Link, Lower	82	1	28.4163	O Ring, 1 3/8”
63	1	28.8863	Outer Bearing	83	1	28.306509	Cutter
64	1	28.423554	Roll Pin	84	1	28.423409	Cylinder Plug
65	1	28.423562	Piston Link	85	1	28.423397	Cutter Housing
66	1	28.15626	Cutter Spring	86	1	28.423559	Seal Stop (UST-1325/1330)
67	1	28.423398	Feedwheel		1	28.424442	Seal Stop (UST-1320)
68	1	28.6594	O Ring, 5/8	87	1	28.280840	Roll Pin
69	1	28.423392	Shim	88	2	28.4167	Retaining Ring
70	1	28.424229	Dowel Pin (UST-1322)	143	1	28.5958	Set Screw
71	1	28.280819	Locknut, M5	144	1	28.423565	Valve Lever Assembly

NOTE:

- Apply one drop of Loctite 242 (blue) to item #58 and item #53. Allow 12 hours to cure. Torque item #10 to 100-120 lbs-in (11.3-13.6 Nm).
- Install roller (item #55) with larger end facing out from tool.
- Install feedwheel (item #67) as shown



Tension and Cutter Assembly

FEEDWHEEL REPLACEMENT

To replace feedwheel item 67 (28423398), air supply must have been disconnected from tool before proceeding.

1. **Remove the lower outer link (item #62) by removing items #58, two M6 screws. Then remove the feedwheel.**

2. **After replacement of feedwheel, clearance between feedwheel and roller should be checked and adjusted to 0,001" to 0,007".**

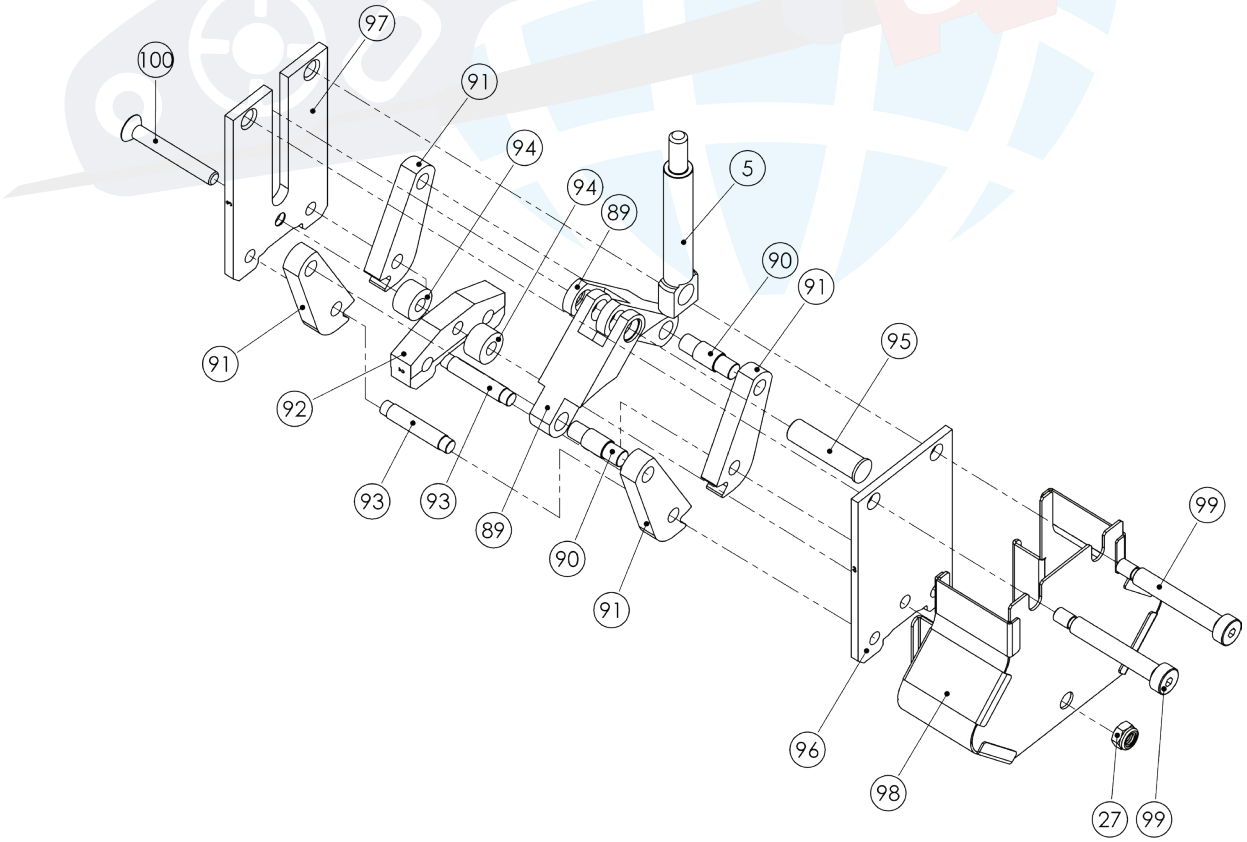
3. **To adjust feedwheel clearance, turn the setscrew (item #120) mounted to gearbox.**

SEALER UNIT PARTS LIST, UST-1320, 1322, 1325, 1330

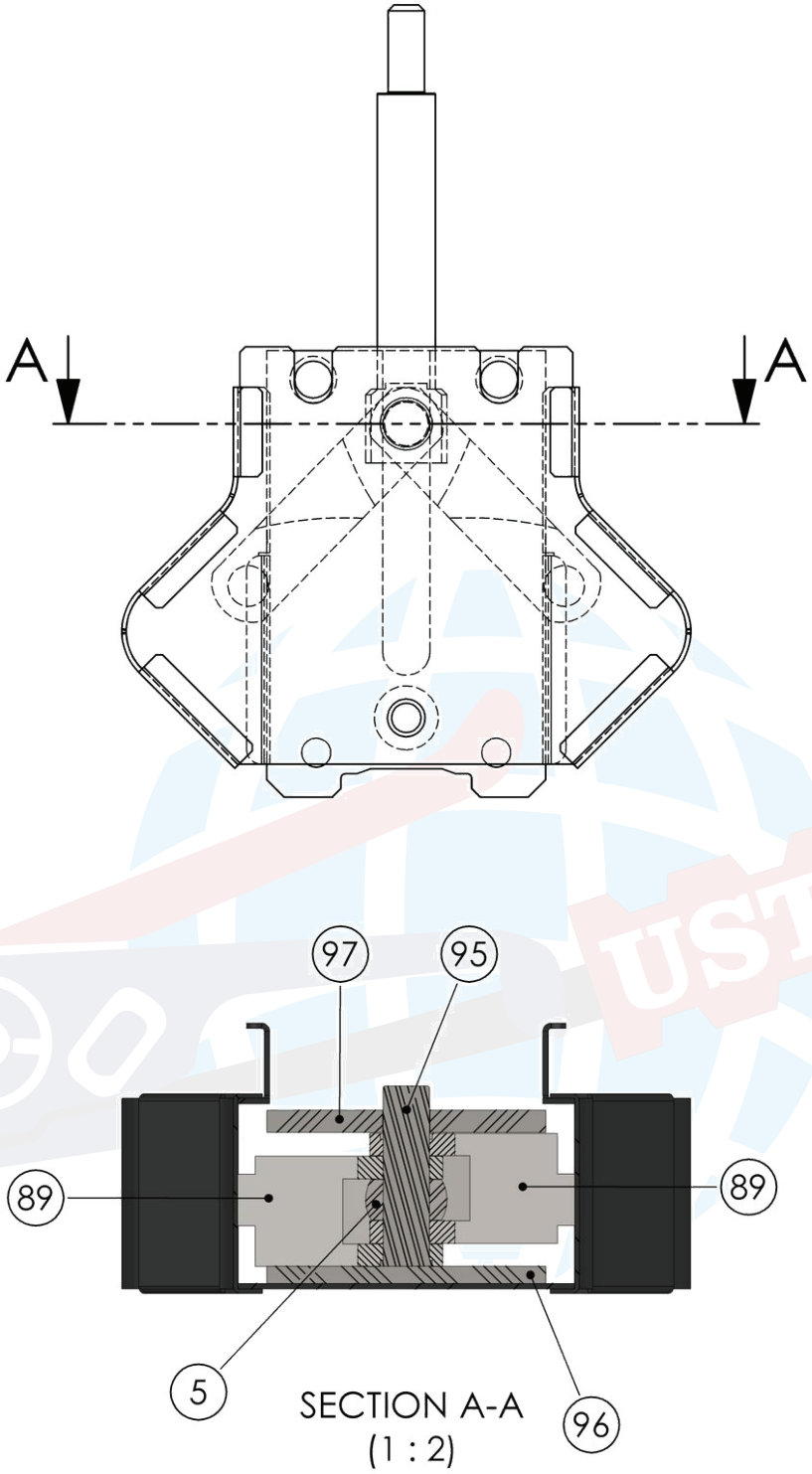
ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
5	1	28.423411	Ram	94	2	28.4127	Spacer
89	2	28.4134	Sealer Link	97	1	28.423417	Rear Side Plate (UST-1325/1330)
95	1	28.4126	Ram Pin		1	28.424227	Rear Side Plate (UST-1320/1322)
90	2	28.8507	Link Pin	100	1	28.423567	FHSCS, M8
91	4	28.423558	Jaw (UST-1325/1330)	96	1	28.423418	Front Side Plate (UST-1325/1330)
	4	28.424233	Jaw (UST-1320)		1	28.424226	Front Side Plate (UST-1320/1322)
93	2	28.8506	Jaw Pin	99	2	28.423557	SH Shoulder Screw
92	1	28.306503	Notcher (UST-1325)	98	1	28.306512	Guard
	1	28.424228	Notcher (UST-1320/1322)	101	1	28.422837	Nylock Nut, M8
	1	28.306996	Notcher (UST-1330)				

NOTE:

- Apply one drop of Loctite 242 (blue) to item #99. Allow 12 hours to cure.



Sealer Assembly



NOTE:

- To convert UST-1325 (using 0.031” strap) to 0.044” strapping, the following parts must be replaced.

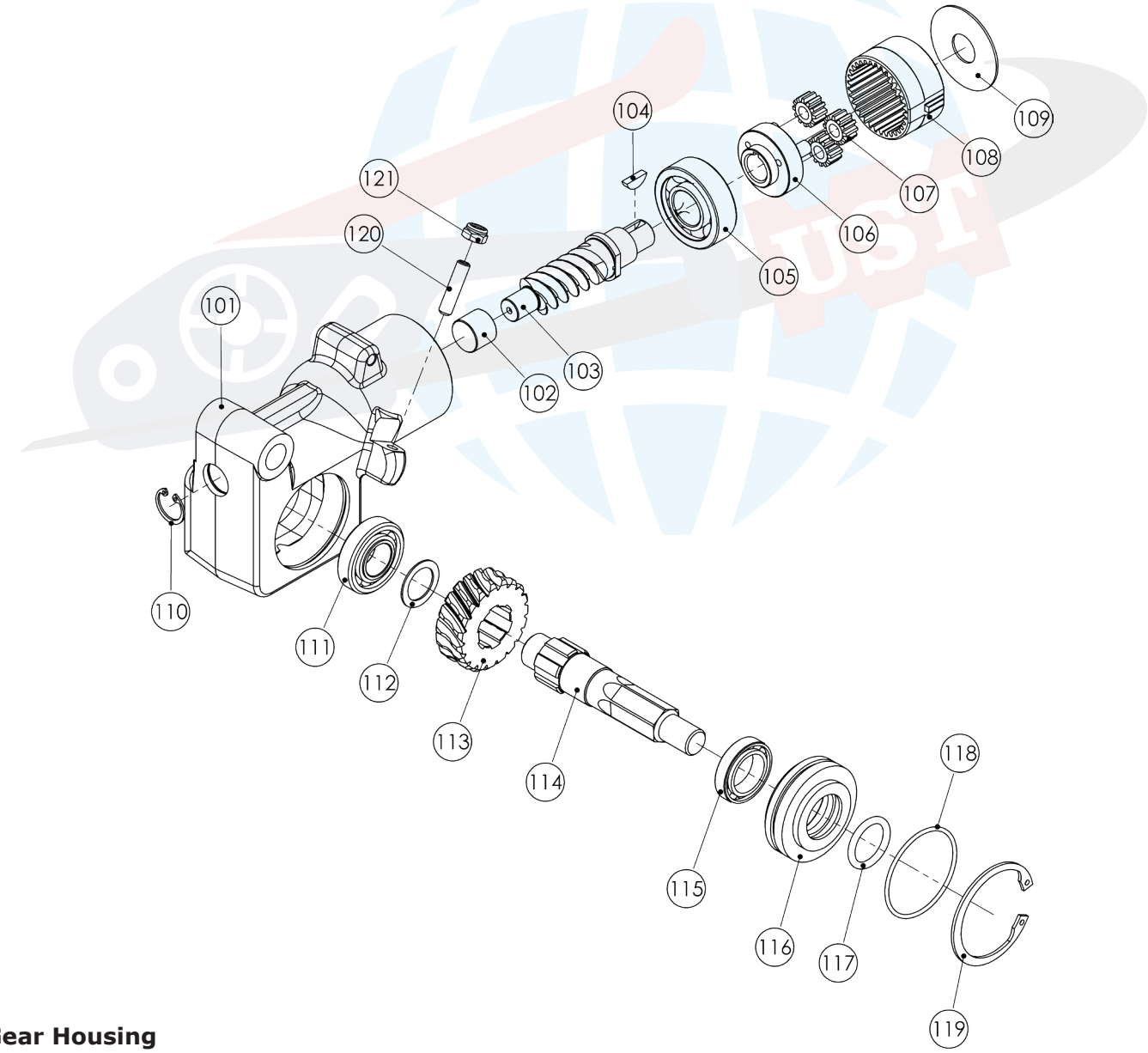
ITEM	QTY.	PART NO.	DESCRIPTION
92	1	28306996	Notcher (UST-1330)
69	1	28423392	Shim
51	1	28424236	Name Plate

GEAR HOUSING PARTS LIST, UST-1320, 1322, 1325, 1330

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
101	1	28.423421	Gear Housing	112	1	28.423533	Thrust Washer
102	1	28.8751	Needle Bearing	113	1	28.423529	Worm Gear
103	1	28.423530	Worm	114	1	28.423551	Feed Wheel Shaft
104	1	28.8774	Key	115	1	28.423515	Bearing
105	1	28.8756	Bearing	116	1	28.423396	Bearing Support
106	1	28.306389	Idler Gear Plate Assembly	117	1	28.256755	O-Ring
107	3	28.8766	Idler Gear	118	1	28.4165	O-Ring
108	1	28.423402	Ring Gear	119	1	28.250731	Truarc Ring
109	1	28.8781	Thrust Washer	120	1	28.423419	SHSS, M6
110	1	28.8752	Truarc Ring	121	1	28.280849	Nylock Hex Nut, M6
111	1	28.24038	Bearing				

NOTE:

- Pack the gear housing (item #101) about 1/3 full with non-fluid oil or equivalent.
- Bearing (item #105) must be installed with wide shoulder facing away form the worm (item #103).



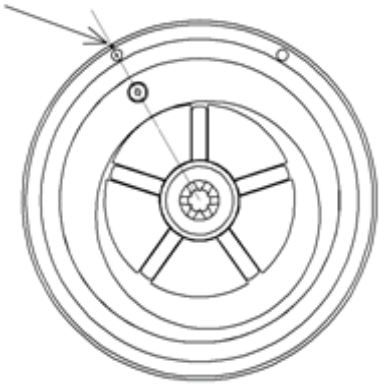
Gear Housing Assembly

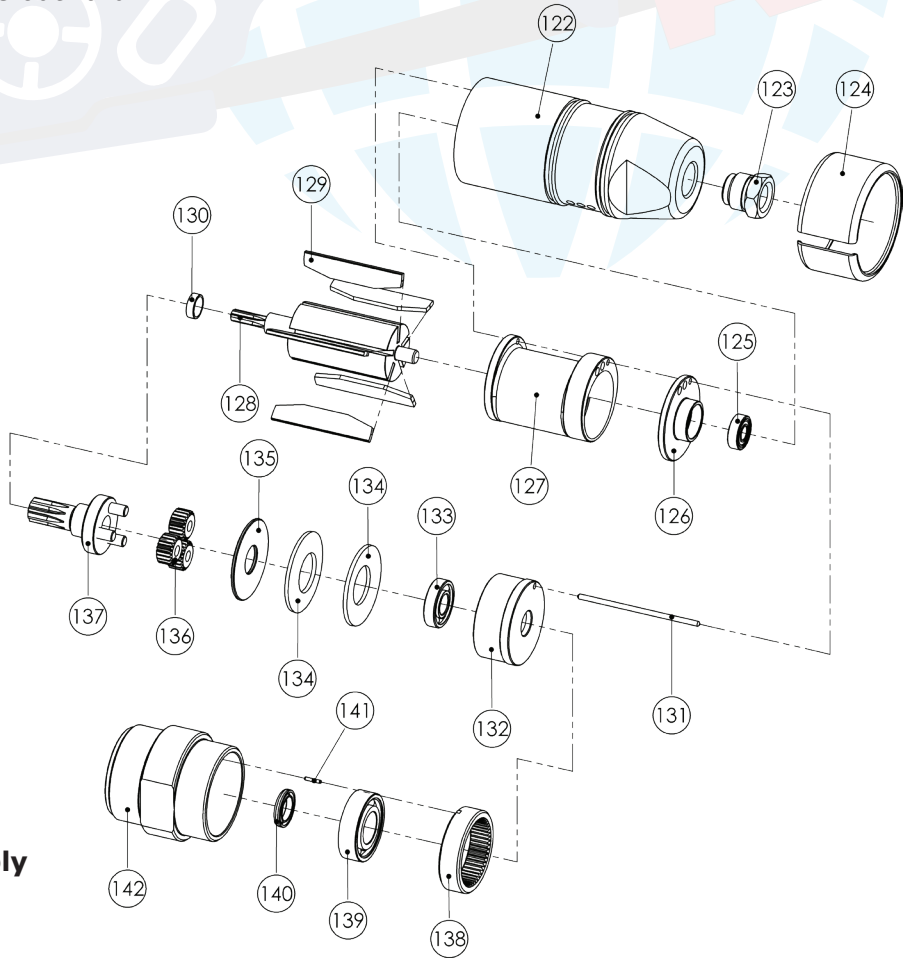
AIR MOTOR PARTS LIST, UST-1320, 1322, 1325, 1330

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
122	1	28.423424	Motor Housing	133	1	28.23481	Ball Bearing
123	1	28.24631	Filter Assembly	134	2	28.90004	Bevel Spring Washer
124	1	28.423523	Deflector Assembly	135	1	28.423404	Spacer
125	1	28.24633	Ball Bearing	136	3	28.423060	Idler
126	1	28.24653	Back End Plate	137	1	28.423403	Idler Carrier Assy
127	1	28.24652	Cylinder	138	1	28.423798	Ring Gear
128	1	28.423423	Rotor	139	1	28.23547	Ball Bearing
129	5	28.24651	Vane	140	1	28.23558	Seal
130	1	28.24602	Spacer	141	1	28.306612	Pin
131	1	28.23510	Align Pin	142	1	28.423394	Gear Housing
132	1	28.423794	Front End Plate				

NOTE:

- Align mark on motor housing (item #122) and pin (item #131) as indicated.
- Idler gears (item #136) and bearings (item #133) and item #139 are to be lubricated non-fluid oil or equivalent.
- Vanes (item #129) must soak in air line oil overnight before assembling air motor.
- If rear motor housing (item #122) become loose, it must be re-tightened while the motor is running at 20 to 30 psig (1.6 to 2.0 bar) air pressure. This will ensure proper alignment and rotor freedom.
- Bevel spring washers (item #134) must be assembled back to back with cupped shape outward.





Air Motor Assembly

TROUBLESHOOTING

The following items are the most common tool symptoms if problems occur. For symptoms or remedies not shown, contact your UST Representative for additional information and details. The following tool symptoms are shown in this manual:

1. **SYMPTOM: Inadequate strap tension**
2. **SYMPTOM: Feedwheel milling or slipping**
3. **SYMPTOM: Sealing and cutoff incomplete**
4. **SYMPTOM: Lower strap slipping through seal**
5. **SYMPTOM: Low joint strength**
6. **SYMPTOM: Seal clipping into nose of seal**
7. **SYMPTOM: Filter-Regulator-Lubricator is maintained but still running sluggishly**
8. **SYMPTOM: Motor does not pick up speed when oiled**
9. **SYMPTOM: Air motor continues to run after sealing/cut-off cycle is completed**

1 SYMPTOM: Inadequate strap tension	
CAUSE	**SOLUTION**
1. Improper strapping being used.	**1. Check that Signode lubricated strap is used.**
2. Supply air pressure is set incorrectly.	**2. Make sure that the air pressure is set between 70-90 psig (4.8-6.1 BAR) at the tool.**
3. Air regulator at tool is set incorrectly.	**3. Adjust tension regulator.**
4. Filter screen clogged.	**4. Check for particles restricting air flow in the regulator or screen at end of motor.**
5. Improper amount of oil in the supply air.	**5. Check lubricator operation and pour one tablespoon of lubricating oil into tool inlet.**
6. Worn or broken air hose.	**6. Check for restrictions or deterioration of supply hose.**
7. Back up roller restricting strap movement through tool.	**7. Check that the backup roller is free to rotate.**

2 SYMPTOM: Feedwheel milling or slipping	
CAUSE	**SOLUTION**
1. Dirty or clogged feedwheel.	**1. Clean feedwheel teeth.**
2. Worn or broken feedwheel.	**2. Check feedwheel (49). Replace if teeth are broken or blunt. Inspect for proper rotation orientation.**
3. Improper feedwheel clearance.	**3. Check feedwheel clearance.**
4. Worn feedwheel shaft bearings.	**4. Check feedwheel shaft outer bearing for extreme elongation. Replace if necessary.**
5. Restricted movement of energizing piston.	**5. Check feedwheel energizing piston for freedom of movement. Make sure the air has been disconnected from the tool before proceeding.**

3 SYMPTOM: Sealing and cutoff incomplete	
CAUSE	**SOLUTION**
1. Improper supply air pressure. 2. Incorrect seals being used for tool. 3. Worn or broken sealer jaws.	1. A minimum of 70 psig (4.8 BAR) at the tool is required to complete the sealing cut off cycle. The sealer mechanism may be returned to the starting position by releasing the stop lever as explained in the Operating Instructions. 2. Check that Signode 114P seals are being used. 3. Check jaws, side plates, notcher, and cutter or leading edge breaker foot. They should be reasonably sharp. Replace as required.

4 SYMPTOM: Lower strap slipping through seal	
CAUSE	**SOLUTION**
1. Incorrect seals being used for tool. 2. Improper supply air pressure. 3. Strap tail is too short when threading seal.	1. Check that Signode 114P seals are being used. 2. Decrease tension by adjusting regulator of air motor. 3. Increase length of tail strap under seal.

5 SYMPTOM: Low joint strength	
CAUSE	**SOLUTION**
1. Incorrect seals being used for tool. 2. Worn or broken sealer jaws. Inspect strap joint for proper formation.	1. Check that Signode 114P seals are being used. 2. Replace worn or broken jaws, notchers, side plates or pins.

6 SYMPTOM: Seal clipping into nose of seal	
CAUSE	**SOLUTION**
1. Incorrect seals being used for tool. 2. Incorrect tool tolerances	1. Check that Signode 114P seals are being used. 2. Check nose opening between breaker foot and cutter housing. Opening should be .034” to .044”. If opening exceeds this, check respective parts and replace if necessary.

7 SYMPTOM: Filter-Regulator-Lubricator is maintained but still runs sluggishly	
CAUSE	**SOLUTION**
1. The motor is dry, preventing it from providing maximum performance.	1. Pour a teaspoon of oil (5 ml) into the motor through the air inlet, connect it back to air pressure and run it. An increase of motor speed indicates that it was dry.

8 SYMPTOM: Motor does not pick up speed when oiled.	
CAUSE	**SOLUTION**
1. The tool may run sluggishly due to clogged or dirty filter screen due to a lack of properly filtered air.	1. Remove and insect the Hansen plug at the inlet of the air motor and examine the filter screen and clean if needed.

9 SYMPTOM: Air motor continues to run after sealing/cut-off cycle is completed.	
CAUSE	**SOLUTION**
1.Excessive air line pressure.	1. Install a Filter-Regulator-Lubricator near tool. Reduce air pressure a max of 90 psig (6.2 bar).

SAFE USE

TOOL MAINTENANCE

The most common reason for poor performance of tools and incorrectly formed straps is improper tool maintenance. The easiest way to determine if a tool is performing optimally is by inspecting the strap joint. Maintaining the tool is a task that consists of three parts. First, a quick daily inspection for any worn or broken parts. Second, keep the tool on a service schedule for cleaning and lubricating. Third, when problems occur, use the troubleshooting guide to diagnose and solve and issues before they lead to more serious problems. Each of these three steps have been outlined and further explained below.

TOOL INSPECTION
Visually inspect the exterior of the tool on a daily basis. Fixing and preventing broken or worn parts early on will increase the life span of the tool. Replace any broken or worn parts with new parts. Review the Parts Removal & Adjustments portion of this manual for more details.

SERVICE INTERVALS
This tool can be used with various sizes of strap which can each cause different rates of component wear. All critical moving components of the tool should be inspected at particular intervals, with some components being inspected more than others. Broken or worn parts can decrease sealing strength, which can further lead to component wear and produce lower joint strength.

Inspect the components of the sealing mechanism when:

- **Joint not as shown in this manual or it is detected that the joint is not well formed.**
- **Sealing effort requires higher air pressure, or the tool is difficult to remove from strap.**
- **When the date for inspection has arrived.**

If there is any question that the joint formations are not as shown, it is important to contact your UST Representative immediately.

The feedwheel and wear plug are subject to wearing and chipping. A daily cleaning of these parts is important for the tool to maintain a long life. The first indication of wear will be the strap slipping during tensioning. Sometimes the teeth need to be cleaned with a wire brush, but if slipping is till occurring, the parts may need to be replaced. Using the tool in a dirty environment will increase the feedwheel wear.

Inspect the components of the tensioner mechanism when:

- **Strap slips when being tensioned.**
- **Evidence of the feedwheel milling on the strap surface.**
- **When the date for inspection has arrived.**

WARNING!

Strap breakage will cause the tool to suddenly release tension in the strap. Always use the tool by facing towards the edge of the load well away from the strap edge.

Never extend the handle's length as this will increase the risk of strap breakage.

Note:

The serial number, located on tool label and part #1(28423405), is required for warranty control or returns

United Strapping Tools

UNITED STRAPPING TOOLS NEW TOOL WARRANTY

United Strapping Tools (UST) warrants that a new UST product will operate per functional specifications for a period of **sixty (60)** days after the date of shipment to the owner's place of business. Normal wearing parts, as outlined in the manual are covered by a **thirty (30)** day warranty unless these parts have been subject to abnormal or extreme usage. Damage claims because of production shutdowns and claims for damage to persons and to property resulting from warranty deficiencies cannot be asserted by the customer.

UST's sole liability will be to replace or repair, without charge, any tool that proves to not operate per functional specifications within the stated period. UST reserves the right to replace any tool which proves not to operate per functional specifications with a new or like-new tool of the same model if in UST judgment. Any new replacement tool provided will carry a **sixty (60)** day warranty. Any warranty repaired tool will carry a warranty for the balance of the time remaining on the initial **sixty (60)** day warranty. The warranty will be extended to compensate for the time the tool is in the possession of UST for warranty repairs.

This warranty will be void to any tool that has been: **(I) subjected to mis-use, misapplication, accident, damage, repaired with non-genuine UST replacement parts; (II) improperly maintained or adjusted, damaged in transit or handling; (III) used with improperly filtered, unlubricated air or improper strapping material; (IV) altered or repaired in a way that affects or detracts from the performance of the tool; (V) removal of the name plate off of the tool;**

The removal, tampering or breaking of the security seal indicated by its blue color on or in select assembly points will indicate tampering of the tool and the warranty will be voided.

The warranty excludes:

- Wearing parts (tension wheels, cutters, punches, dies, notchers, grippers, batteries, motors),
- Deficiencies resulting from improper installing, incorrect handling and maintaining the tool,
- Deficiencies resulting from using the tool without or with defective security or safety devices,
- Disregard of directions in the operation manual,
- Arbitrary modifications of the tool,
- Deficient control of wearing parts,
- Deficient repair works of the too,
- Use of consumable products not recommended by United Strapping Tools.

We reserve the right to modify the product at any time in order to improve its quality.

UST MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS OR OTHERWISE EXCEPT AS STATED ABOVE AND UST'S LIABILITY AS ASSUMED ABOVE IS IN LIEU OF ALL OTHERS ARISING OUT OF OR IN CONNECTION WITH THE USE AND PERFORMANCE OF THE TOOL. IT IS EXPRESSLY UNDERSTOOD THAT UST SHALL IN NO EVENT BE LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES WHICH MAY ARISE FROM LOSS OF ANTICIPATED PROFITS OR PRODUCTION, SPOILAGE OF MATERIALS, INCREASED COSTS OF OPERATION OR OTHERWISE.

The customer has the right to examine the products for a span of 15 business days following their delivery. If any products are found not to meet the sale specifications during this Inspection Period, the customer must bring this to UST's attention in writing and allow UST a reasonable chance to inspect these products and rectify any issues. Should the customer neglect to submit such written notice within the Inspection Period, it will be considered that the customer has accepted the products. The customer is prohibited from returning any product without obtaining prior written consent from UST. UST will not accept the return of products that have been used. All costs linked with the return of products, including any potential loss, will fall to the customer, unless UST either stipulates differently in writing or determines that the products are not in accordance with the agreed terms of sale.