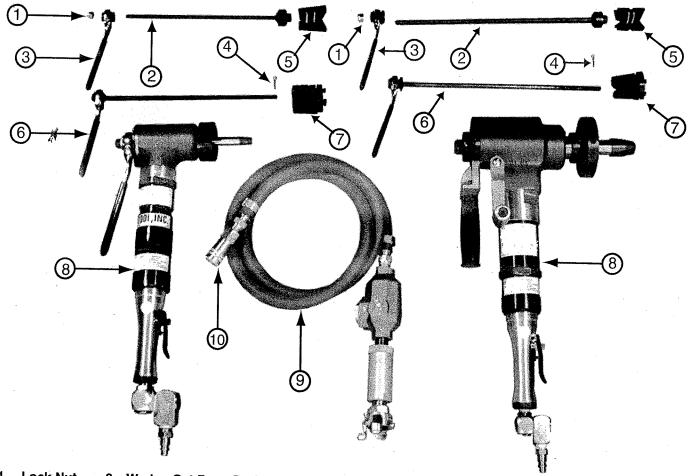


Smarter Work

# **OPERATING INSTRUCTIONS BEVELLING MACHINES**

**MODEL 74802** 



1-Lock Nut

2-Wedge Set Draw Rod 6-Locking Wrench/Rod 7—Collet

3—Locking Wrench

8—Beveling Tool

4-Cotter Pin 9-Hose/Oiler Assembly

5-Wedge Set 10-Quick Coupling



### Collet/Draw Rod Assembly

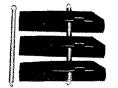
Select the appropriate size of collet for the tube I.D. to be beveled. The I.D. size is stamped on the collet. Insert the collet rod through the centershaft from the rear of the tool.

Thread the collet onto the draw rod until it touches the end of the center shaft. Insert the cotter

pin into the draw rod end and open the ends. This ensures that the collet will not be threaded off the end of the rod. Some centershaft ends have machined flats. If so, the tips of the collet ends must be aligned with the machined flats of the center shaft.

### **Wedge Set** Assembly

Assemble the wedge sets by laying them on the flat side with the wedge guide grooves at the same ends. Place the springs through the holes

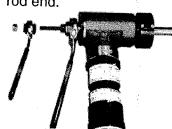


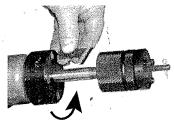
and connect the spring ends to form a circle. Once both springs are properly connected, slide



the assembly over the rod and hook the guide

grooves into the cone slots. Insert the rod into the center shaft from the front. Thread on the draw nut/wrench assembly until it contacts the centershaft. The wedge ends are then aligned with the slots in the centershaft. Thread the self-locking nut onto the rod until it is flush with the rod end.





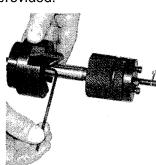
# Tool Positioning, Fixed Tool Holder

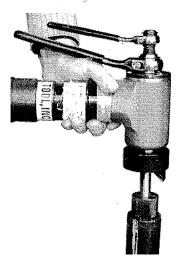
The fixed position tool holders are designed to cover a wide range of tube diameters and beveling applications. Select the proper blade for the application to be performed. Place the shank in the proper tool holder location with the shoulder against the tool holder. The ground edge of the blade must be facing in the direction of the rotation. Lock the blade in position with the set screw on the side of the holder.



## Blade Positioning, Sliding Tool Holder

Select the appropriate blade type for the application. Align the angled base of the blade with the angle of the tool holder blade lock. Slide the blade to the proper position for the tube size, lock the blade in position with the allen wrench provided.





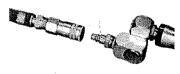
#### **Place Into Tube**

With the collet or wedge set properly assembled and the blades locked in position, make sure that the locking mechanism is retracted sufficiently to fit into the tube. Place the locking mechanism into the tube with the cutter safely away from the tube edge.



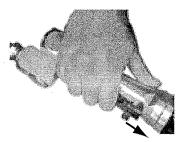
Lock the assembly in the tube with the draw rod locking wrench at the back of the tool. Tighten securely. (CAUTION: Over tightening can cause rod or locking mechanism failure!)



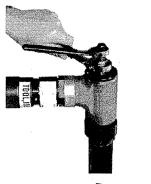


# **Tool Operation**

Check to ensure that the wedge or collet is tightly locked in the tube and that the cutting blade is not touching the tube. Attach the air hose with the quick coupling provided.



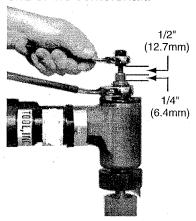
Make sure that there are no obstructions to the rotation of the head and blade, push the safety lock forward and squeeze the throttle handle.





Depending upon the model being used, the blade is fed into the tube with the feed wrench or the crank feed. Once the blade engages the tube, gradually apply constant pressure until the desired bevel is achieved. If the tool stalls or RPM drops significantly, too much pressure is being applied to the blade.

Once the bevel is complete, reverse the feed wrench/crank and retract the tool to a position approximately 1/4" (6.4mm) from the end of the centershaft.

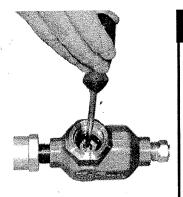


Reverse the locking wrench and loosen the draw rod until the nut is about 1/2" (12.7mm) away from the end of the centershaft.



The locking can be so secure that the tool must be jarred to release it. Use the heel of your hand to bump the tool laterally.

**Never** strike the tool holder, gear housing or air motor with a hammer or other hard object.



# Oiler Adjustment

An in-line oiler is provided with each tool. To ensure proper lubrication, start the machine and hold a sheet of paper up to the exhaust ports. There should be a mist of oil on the paper. If there is enough that the oil runs on the paper, it is too much. If there is no mist, it is not enough. To adjust it, remove the cover from the oiler body. The adjusting screw is in the center. With a straight blade screwdriver, turn the screw clockwise to reduce the amount or counter clockwise to increase the oil feed.

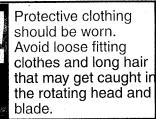
# **Safety Recommendations**







#### General Safety Always wear your head, eye, ear and hand protection.



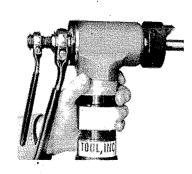


Do not operate the tool if the throttle safety lock is not functioning properly. Push the lock forward to operate the throttle.

Never lock the throttle open. Do not put anything on the tool that will interfere with the dead-man release operation.



A hitch pin is provided on the coupling for the supply line. When the coupling is secure, always use this pin to lock the coupling from accidental release.

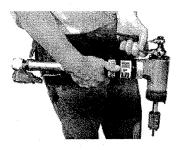


Injury Potential
Keep hands, long hair
and clothing away
from rotating parts!

In most beveling applications, it is necessary for the cutting blades to be exposed and unguarded. The blades are sharp and can pose an injury hazard.



The exhaust ring on the air motor can be rotated 360°. Check this position prior to starting the tool to avoid spraying oil and air borne contaminants into you.



Never pickup or lower the tool by the air hose. Always grasp it firmly around the barrel of the motor.



# Injury Potential The tool can rotate in the tube if the wedge/ collet is not locked properly. Be aware of adjacent objects to avoid potential pinch points.

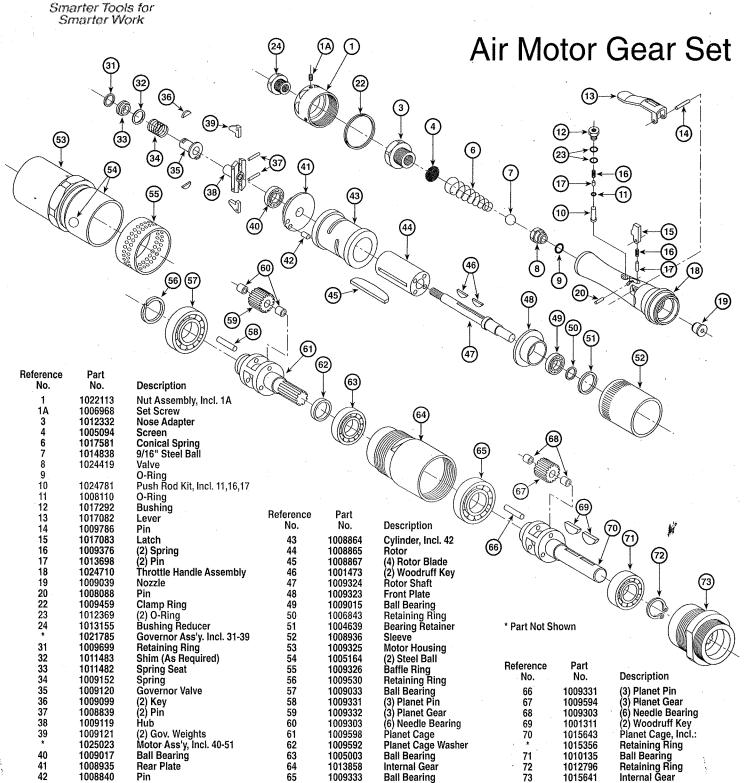


### Thomas C. Wilson, Inc.

21-11 44th Avenue, Long Island City, New York 11101 Tel: (718)729-3360 Fax: (718)361-2872 http://www.tcwilson.com E-mail: tcwilson@tcwilson.com

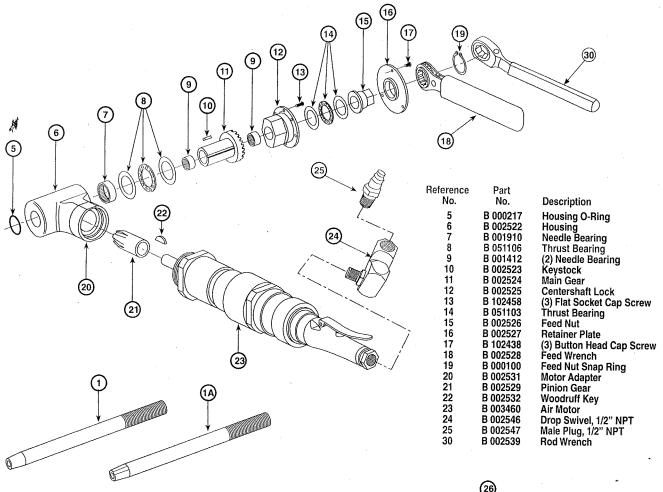


# **Parts List**





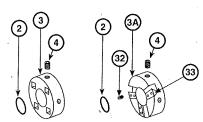
# **Parts List**



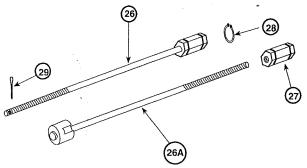
Reference No. No.

1 B 002520
1 B 002520L
1A B 002540
1A B 002540L

Description
Centershaft, Collet
Centershaft, Collet, Long
Centershaft, Wedge Set
Centershaft, Wedge Set, Long



Reference No.	Part No.	Description
2	B 000114	Tool Holder O-Ring
3	B 002521	Tool Holder, Fixed
3A	B 002536	Tool Holder, Sliding
4	B 561856	Tool Holder Locking Screw
32	B 002548	(3) Differential Screws
33	B 002549	(3) Blade Lock



No.	Reference Part No.	Description
26	B 002550	Collet Rod
26	B 002550L	Collet Rod, Long
26A	B 002560	Wedge Rod, 5/8" O.D. Head
26A	B 002560L	Wedge Rod, 5/8" O.D. Head, Long
26A	B 002561	Wedge Rod, 7/8" O.D. Head
26A	B 002561L	Wedge Rod, 7/8" O.D. Head, Long
26A	B 002562	Wedge Rod, 1-1/4" O.D. Head
26A	B 002562L	Wedge Rod, 1-1/4" O.D. Head, Long
27	B 002543	Wedge Rod Nut
28	B 002544	(2) Retainer Ring
29	B 002545	Cotter Pin