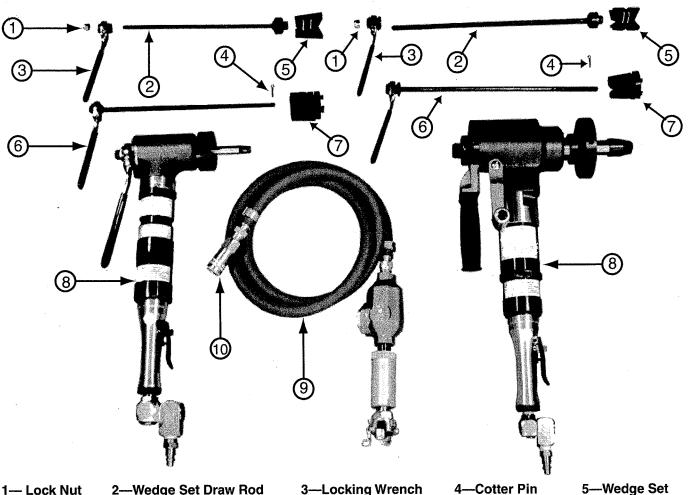


OPERATING INSTRUCTIONS BEVELLING MACHINES

MODEL 74805



1-Lock Nut

2-Wedge Set Draw Rod

7-Collet

8-Beveling Tool

4-Cotter Pin 9—Hose/Oiler Assembly

5-Wedge Set 10-Quick Coupling



6-Locking Wrench/Rod

Collet/Draw Rod Assembly

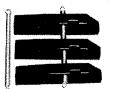
Select the appropriate size of collet for the tube I.D. to be beveled. The I.D. size is stamped on the collet. Insert the collet rod through the centershaft from the rear of the tool.

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 quide grooves at the same ends. Place the springs through the holes

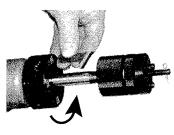


and connect the spring ends to form a circle. Once both springs are properly connected, slide



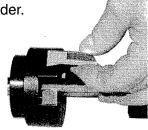
the assembly over the rod and hook the guide grooves into the cone slots. Insert the rod into the center shaft from the front. Thread on the draw nut/wrench assembly until it contacts the centershaft. The wedge ends are then aligned with the slots in the centershaft. Thread the self-locking nut onto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





Tool Positioning, Fixed Tool Holder

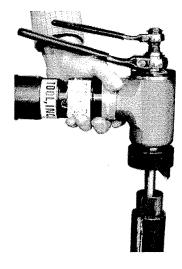
The fixed position tool holders are designed to cover a wide range of tube diameters and beveling applications. Select the proper blade for the application to be performed. Place the shank in the proper tool holder location with the shoulder against the tool holder. The ground edge of the blade must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



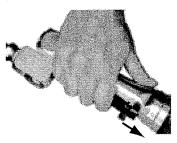
Lock the assembly in the tube with the draw rod locking wrench at the back of the tool. Tighten securely. (CAUTION: Over tightening can cause rod or locking mechanism failure!)





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.



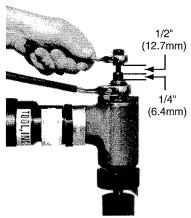
Make sure that there are no obstructions to the rotation of the head and blade, push the safety lock forward and squeeze the throttle handle.



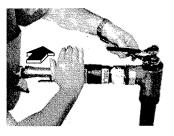


Depending upon the model being used, the blade is fed into the tube with the feed wrench or the crank feed. Once the blade engages the tube, gradually apply constant pressure until the desired bevel is achieved. If the tool stalls or RPM drops significantly, too much pressure is being applied to the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

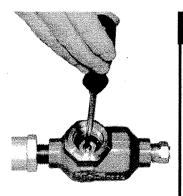


Reverse the locking wrench and loosen the draw rod until the nut is about 1/2" (12.7mm) away from the end of the centershaft.



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.

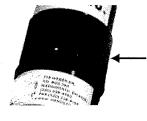
Safety Recommendations











General Safety

Always wear your head, eye, ear and hand protection.

Protective clothing should be worn.
Avoid loose fitting clothes and long hair that may get caught in the rotating head and blade.



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.



from rotating parts!

In most beveling applications, it is

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.



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

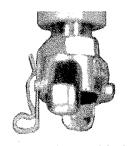
Do not operate the tool if the throttle safety lock is not functioning properly. Push the lock forward to operate the throttle.

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



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.



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.

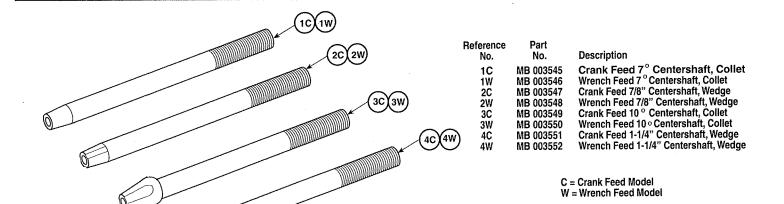


Smarter Work

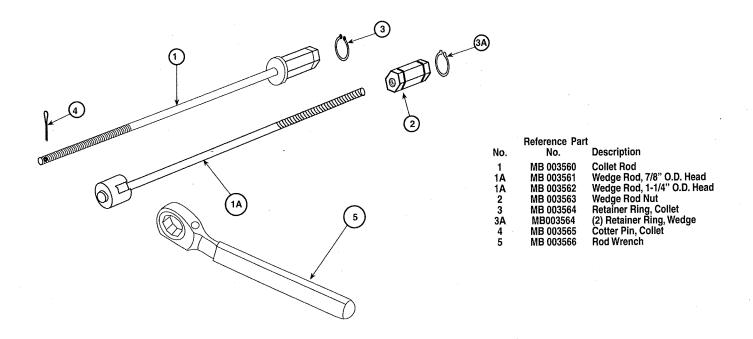
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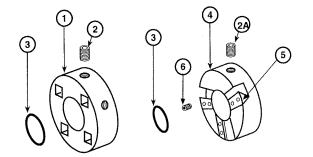
Center Shafts



Wedge and Collet Locking Rods



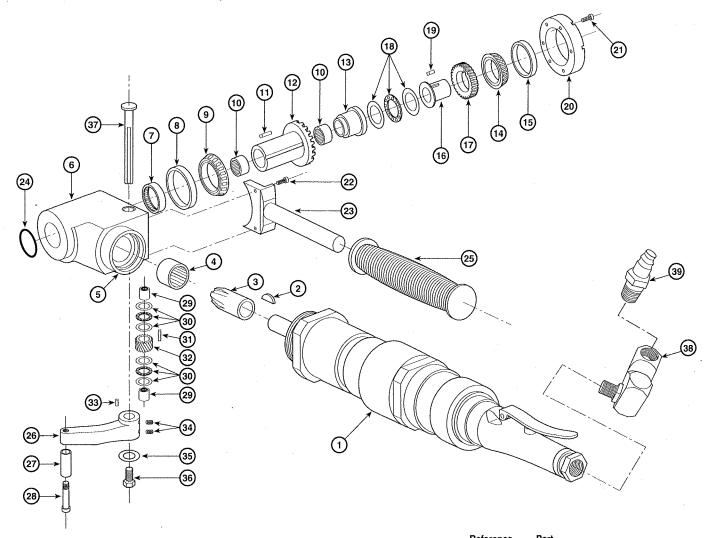
Standard Tool Holders



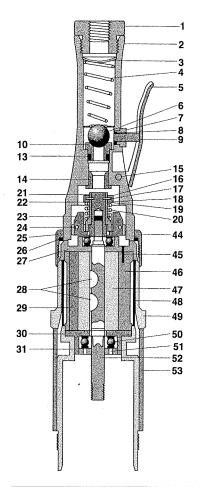
Reference Part No. No. Description	
1 MB 003570 3" Tool Holder, Fixed	
2 MB 003571 (5) Tool Holder Set Screv	v, Fixed
2A MB 003571 Tool Holder Set Screw, S	iliding
3 MB 003572 O-Ring, Tool Holder	
4 MB 003573 3" Tool Holder, Sliding	
5 MB 003574 (3) Blade Lock, Sliding	
6 MB 003575 (3) Differential Screw	



Parts List



	ng 27	MB 003528	Feed Handle Knob
1 MB 003488 Air Motor 14 MB 067045 Tapered Roller Bearing 2 MB 003489 Woodruff Key 15 MB 067010 Bearing Cup 3 MB 003490 Pinion Gear 16 MB 003523 Feed Nut 4 MB 001816 Needle Bearing 17 MB 003524 Helical Gear 5 MB 003491 Adapter 18 MB 000078 Thrust Bearing 6 MB 003520 Housing 19 MB 003522 Keystock 7 MB 000228 Needle Bearing 20 MB 003525 Centershaft Lock 8 MB 078310 Bearing Cup 21 MB 102410 (6) Socket Head Cap 9 MB 078349 Tapered Roller Bearing 22 MB 142034 (2) Button Head Cap 10 MB 001412 (2) Needle Bearing 23 MB 003526 Handle 11 MB 003494 Keystock 24 MB 000220 O-Ring 12 MB 003495 Main Gear 25 MB 078414 Rubber Grip 13 MB 003521 Centerpiece 26 <t< td=""><td></td><td>MB 038100 MB 000068 MB 000010 MB 003529 MB 003531 MB 142014 MB 003533 MB 083212 MB 003532 MB 003535 MB 003536</td><td>Shoulder Bolt (2) Needle Bearing (2) Thrust Bearing Keystock Helical Gear Keystock (2) Socket Head Set Screw Washer Socket Head Cap Screw Crank Shaft Drop Swivel, 1/2 NPT Male Plug, 1/2 NPT</td></t<>		MB 038100 MB 000068 MB 000010 MB 003529 MB 003531 MB 142014 MB 003533 MB 083212 MB 003532 MB 003535 MB 003536	Shoulder Bolt (2) Needle Bearing (2) Thrust Bearing Keystock Helical Gear Keystock (2) Socket Head Set Screw Washer Socket Head Cap Screw Crank Shaft Drop Swivel, 1/2 NPT Male Plug, 1/2 NPT

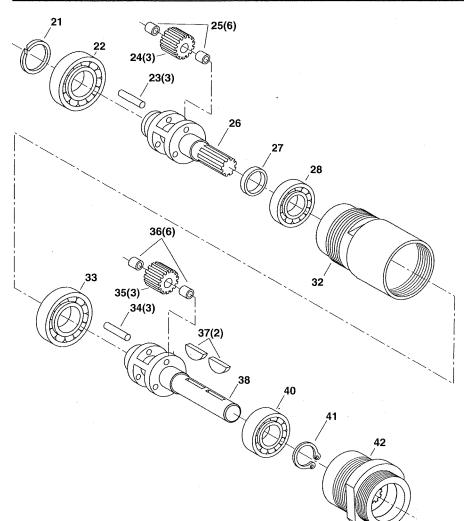


PARTS LIST

Air Motor

THROTTLE, GOVERNOR & MOTOR ASSEMBLIES

Reference No.	Part No.	Description	Reference No.	Part No.	Description
INO.	140.	Description	NO.	NO.	Description
1	1014645	Hose Adapter	23	1009118	Governor Weight (2)
2	1032011	Throttle Body	24	1008839	Pin (2)
3	1005094	Screen	25	1022113	Nut Assembly (Incl: #1012329
4	1014687	Spring			Set Screw)
5	1017082	Lever	26	1009459	Clamp Ring
6	1014838	Steel Ball (9/16" Dia.)	27	1008935	Rear Plate
7	1017292	Bushing	28	1001473	Key (2)
8	1008110	O-Ring	29	1008867	Rotor Blade (4)
9	1024781	Push Rod	30	1009323	Front Plate
10	1024419	Valve	31	1006843	Retaining Ring
13	1009371	O-Ring	44	1009017	Ball Bearing
14	1009039	Nozzle	45	1008840	Pin
15	1009786	Pin	46	1008864	Cylinder (Incl: #45)
16	1011482	Spring Seat	47	1008865	Rotor
17	1009699	Retaining Ring	48	1008936	Sleeve
18	1009099	Key (2)	49	1009325	Motor Housing
19	1011483	Shim (as required)	50	1009015	Ball Bearing
20	1009024	Spring	51	1004639	Bearing Retainer
21	1009120	Governor Valve	52	1009324	Rotor Shaft
22	1009121	Governor Hub	53	1009326	Baffle Ring



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PLANETARY GEARING

Reference	Part	Description
No.	No.	Description
21	1009530	Retaining Ring
22	1009333	Ball Bearing
23	1009331	Planet Pin (3)
24	1009332	Planet Gear (3)
25	1009303	Needle Bearing (6)
26	1009599	Planet Cage
27	1009592	Planet Cage Washer
28	1005003	Ball Bearing
32	1013858	Internal Gear
33	1009333	Ball Bearing
34	1009331	Planet Pin (3)
35	1009332	Planet Gear (3)
36	1009303	Needle Bearing (6)
37	1001311	Woodruff Key (2)
38	1015644	Planet Cage (Incl: #1015357
		Retaining Ring)
41	1012796	Retaining Ring
42	1015641	Internal Gear



Smarter Tools for Smarter Work

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