

## Replacement Strip Part Numbers

JM Part Number	Grade	Material/Mineral
30 Taper		
93053-30-9	15 Mic	Aluminum Oxide
92997-30-9	30 Mic	Aluminum Oxide
92998-30-9	40 Mic	Aluminum Oxide
93000-30-9	60 Mic	Aluminum Oxide
WHPEFP-30-9	Cleaning Strips	Felt
40 Taper		
93053-40-9	15 Mic	Aluminum Oxide
92997-40-9	30 Mic	Aluminum Oxide
92998-40-9	40 Mic	Aluminum Oxide
93000-40-9	60 Mic	Aluminum Oxide
WHPEFP-40-9	Cleaning Strips	Felt
45 Taper		
93053-45-9	15 Mic	Aluminum Oxide
92997-45-9	30 Mic	Aluminum Oxide
92998-45-9	40 Mic	Aluminum Oxide
93000-45-9	60 Mic	Aluminum Oxide
WHPEFP-45-9	Cleaning Strips	Felt
50 Taper		
93053-50-9	15 Mic	Aluminum Oxide
92997-50-9	30 Mic	Aluminum Oxide
92998-50-9	40 Mic	Aluminum Oxide
93000-50-9	60 Mic	Aluminum Oxide
WHPEFP-50-9	Cleaning Strips	Felt

\*Restoration grit strips also available in Silicon Carbide, Diamond Lapping Film, and Diamond Micro Finishing Film, contact JM for part numbers

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[www.jmperformanceproducts.com](http://www.jmperformanceproducts.com) or email

**JM PERFORMANCE PRODUCTS, INC.**  
*The Industry Leader in Milling Machine Optimization*

## Spindle Cleaner & Restoration Kit Instructions



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Cleaning of the spindle is recommended before the installation of new tooling and as part of a regular maintenance schedule.

## Spindle Cleaner Instructions

### Assembly instructions and cleaner pad replacement.

1. Screw cleaner/restore handle clockwise into selected size cleaner head (grooved). Hand tighten.
2. Install cleaning strips into grooves of spindle head. The best practice is to pinch the end of the cleaning strip and start it at the small end of the taper by sliding it into the cut groove. Repeat this process for remaining grooves.
3. Replacement cleaning strips are available for reorder. Please contact your distributor with taper size needed.

### Cleaning Instructions

1. Make sure machine is turned off and spindle has come to a complete stop.
2. Watch for falling debris from spindle during the cleaning step.
3. Using applicator bottle, squirt degreaser onto spindle that is to be cleaned. Be careful to avoid painted areas. Allow degreaser to work for 10-15 seconds and then insert cleaning tool. Rotate 4-5 revolutions and remove cleaning tool.
4. Place a lint free towel over spindle cleaner, place the cleaner back into the spindle and rotate 4-5 revolutions to remove degreaser and grease.
5. Repeat steps 3 and 4 until lint free towel is no longer removing any residue and spindle is clean and dry.
6. Replace cleaning inserts as needed.

\*WARNING, wear appropriate eye protection and gloves when using degreaser

## Restoration Instructions

1. Make sure machine is off and spindle has come to a complete stop.
2. Clean the spindle. Use the spindle cleaning head and follow enclosed Spindle Cleaner Instructions to degrease and clean spindle.
3. Make sure all degreaser has been removed from the spindle and the spindle is dry.
4. Apply the finest grit strip onto restoration head (non-grooved) by peeling off backing and pressing strip firmly onto the raised, flat surface of the restoration head. Repeat this process for remaining 2 raised surfaces.
5. Insert the restoration head into the spindle. Apply direct force into the spindle and rotate the restoration head 4 or 5 times.
6. Remove the head and examine grit strips. If there is heavy/uneven wear on the grit strips, debris and build up remain in the spindle. Remove the grit strips from the restoration head. Apply new grit strips, using the next coarsest grit.
7. Repeat steps 5-6 until grit strips show an even wear pattern and debris and build-up have been removed from the spindle.
8. Follow Spindle Cleaning Instructions and use the spindle cleaning head to clean the spindle one final time.

**Spindle cleaner and restoration heads are available for 30, 40, 45, and 50 tapers.**

For best practice, cleaning and restoration of the spindle should be done on a quarterly basis or whenever there is a broken or dislodged tool.