## ULTRA -PRECISION WEAR RINGS INCH or MM

## RE-SIIING GUIDE



## How to Resize an Existing Wear Ring

In many cases a ESC-Lon Wear Ring may be cut to a smaller size without loss of concentricity. Use the following guide when cutting down a wear ring for a smaller bore of a smaller rod size. It is recommended to use a Band Saw for this Operation with a course tooth blade.
An alternative would be a Hack Saw.
Formula for cutting a Larger size to a Smaller size =
(OD Diameter of Larger Ring, $\boldsymbol{D}_{1}$ ) - (OD Diameter of Desired Ring Diameter $D_{2}$ ) $=L_{1}$
Take $L_{1} \times 3.14=L_{2}$ (Length to be cut off of Larger Wear Ring) ( Inch OR Millimeters)
$\left(D_{1}-D_{2}\right)=L_{1} \quad$ then $\quad L_{1} \times 3.14=L_{2}$ (Amount to cut off)
Example: 4.000" OD to a 3.750" OD
$(4.000-3.750)=.250$
(.250) $\times(3.14)=L_{2}$ or $0.785^{\prime \prime}$ of length to be removed from the gap. If Metric, replace inch for MM


WEAR RING CUT DOWN RECOMMENDATIONS

| WEAR RING O.D. | Maximum Length (L2) to cut Down |
| :---: | :---: |
| Under 2.000" | $0.400^{\prime \prime}$ |
| 2.001 " to $3.000^{\prime \prime}$ | $0.800^{\prime \prime}$ |
| 3.001 to $6.750^{\prime \prime}$ | $1.600^{\prime \prime}$ |
| $7.000^{\prime \prime}$ to $9.000^{\prime \prime}$ | $3.140^{\prime \prime}$ |
| $9.500^{\prime \prime}$ to $14.000^{\prime \prime}$ | $4.750^{\prime \prime}$ |
| 14.500 to $18.000^{\prime \prime}$ | $6.300^{\prime \prime}$ |

When cutting more than 3.000 " out of the Wear Ring, equal amounts should be removed from both sides of the gap. For example if you are cutting a 16.000 " wear ring down to 14.750 " Diameter, remove 1.962 " from each side of the gap.

When resizing for a Rod Style Wear Ring, do the exact same thing.

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