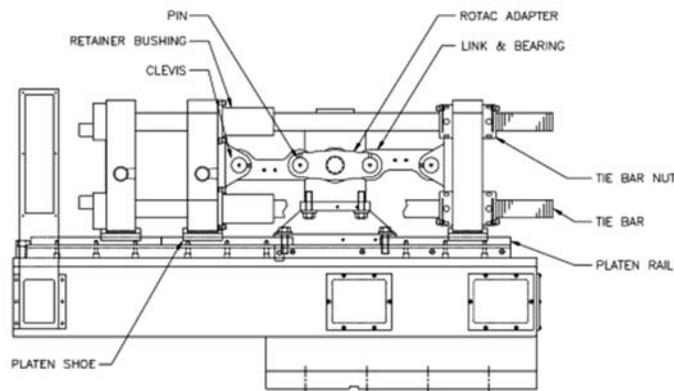


Uniloy Milacron is pleased to introduce this month's web posting which features clamp rebuild packages for many of the standard clamp sizes found on Uniloy Reciprocating Screw blow molding machines. These packages combine OEM quality and performance with the added benefit of discounted package pricing. There are five packages (A-E) available for each of the following clamp styles:

- **Single Rotac, Four Tie Bar Clamps**
- **Dual Rotac, Four Tie Bar Clamps**
- **Dual Rotac, Six Tie Bar Clamps**

Each of these packages include appropriate groupings of parts which match normal maintenance and rebuild expectations. The first package includes parts that should be replaced most frequently and each subsequent package includes additional wear parts with increasing life expectancy.

Two of the packages offered include refurbished bushing retainers in place of new parts. This option helps keep your costs down while recycling machine components and encouraging sustainability.



CLAMP REBUILD PACKAGES

Package A

- Pins
- Bearings
- Clevises
- Right and Left Rotac Adapters
- Fasteners

This package includes the wear items that connect the clamps rotary actuator(s) to the center and rear platens. These items bear the torque and load involved in every clamp movement whether opening, closing, or high tonnage lockup. When these items are worn, a normally smooth operating clamp becomes jerky and the lock up tonnage is reduced.

Package B

- Package A
- Tie Bar Bushing Retainers
- Platen Shoes
- Center Rotac Adapter



This package includes all of package A plus tie bar bushing retainers and platen shoes. The tie bar bushing retainers and shoes provide support and guidance for the linear motion of the platens. Worn tie bar bushings and shoes allow clamp misalignment which leads to increased mold wear and decreased blow molded product quality.

Center rotac adapters are used in clamps that have two rotary actuators. The center adaptor serves the same purpose as the right and left hand adaptors translating torque to linear force for the purpose of clamp movement and tonnage. The center adaptor is located between the two rotary actuators keeping them linked and acting as one. A worn center rotac adapter can allow improper lock up and uneven clamp tonnage.

Package C

- Package A
- Refurbished Tie Bar Bushing Retainers
- Platen Shoes
- Center Rotac Adapter

Package C is the same as package B except the tie bar bushing retainers are refurbished instead of new. The bushing retainers are exchanged, meaning we take your retainers in on trade to be refurbished for the next customer. You pay a core charge which is credited back to you once you return your old retainers. Only Uniloy produced retainers will be accepted back in trade.

Package D

- Package B
- Links
- Tie Bars
- Tie Bar Nuts
- Platen Rails



This package includes all of package B plus toggle links, tie bars, tie bar nuts, and platen rails. These items typically have a longer life expectancy than the items in packages A and B. The toggle links translate force from the rotac adapters to the platen clevises. The tie bars are used to connect the front and rear platens and provide linear guidance for the center platen. The tie bars are also used to set the clamp shut height and generate clamp tonnage when stretched by the force of the rotary

actuators. This package also includes platen rails. The rails bear the weight of the platens and act as linear guides. Worn tie bars and rails can allow excessive side to side movement causing premature wear to mold pins and bushings. Worn tie bar treads can make clamp adjustments difficult. A properly adjusted clamp is required to apply optimal, even tonnage to a bank of molds.

Package E

- Package C
- Links
- Tie Bars
- Tie Bar Nuts
- Platen Rails

Package E is the same as package D with one exception. Package E includes refurbished tie bar bushing retainers and package D includes new ones. The bushing retainers are exchanged, meaning we take your retainers in on trade to be refurbished for the next customer. You pay a core charge which is credited back to you once you return your old retainers. Only Uniloy produced retainers will be accepted back in trade.

Side Shift Clamps

Packages A thru E listed above include the parts required to rebuild a non shift clamp. Additional parts may be required when rebuilding a side shift clamp. These parts include:

- **Side Shift Wear Pads**
- **Shift Rails**

These parts can be ordered in addition to any of the packages previously listed.

Sales and Service and Engineering

For more information on these parts, please contact your local Uniloy Parts Sales Representative. Trained Uniloy Service Representatives are available to assist in the installation of these packages at your facility.