

Dismantling roller like taking apart shish kabob

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By Frank Bourlon

The micrometric rollers on a Goss Urbanite and a Goss Community are installed on the press unit like a shish kabob. The removal of the micrometric rollers and components is like removing food from a skewer, and it's done whenever the rollers become worn or grooved.

The procedure is fairly simple. All you have to do is remove the operator side cover, loosen the eccentrics at the ends of the micrometric roller and pull. The micrometric shaft runs through a hole in the operator side frame, then into the operator side eccentric (which is in place in the operator-side bearing of the micrometric roller).

The shaft then runs through the drive-side eccentric (which again, is already in place on the drive-side bearing of the micrometric roller). The micrometric shaft then goes into a hole on the drive-side frame of the press unit.

Although most Goss Community and Urbanite units sport the same design, a few presses do require additional tweaking. One such design has micrometric rollers attached with hex locking screws and roll pins holding them in place. (That to me is like wearing a belt and suspenders, but in any event the hex screws have to still be loosened and the roll pins have to be removed.)

Another option

Another approach has the micrometric shafts equipped with a snap ring located on the inside of the operator frame. The snap ring is used to keep the micrometric shaft from moving from side to side. (In other cases a spacer is used between the operator-side wall and the micrometric eccentric.) The idea is to look for anything that may block the removal of the eccentric shaft. Once all the roll pins are out and the hex screws are loosened, it is time to shish kabob.

If you run into problems pulling the shaft, have a press operator support the roller. As the shaft comes out of the drive side frame, the micrometric is heavy enough to bind it as it's being removed — especially on the operator side of the press unit. Once the micrometric is slightly lifted, the shaft in most cases will just slide out.

If it doesn't, it might have rust or some small marks that have elevated the surface of the roller shaft. In this case, the shaft will have to be pulled through the operator side frame.

Here is one option:

- Use a key bar or crowbar to start the shaft moving. Once it's out or has moved from the frame 4 inches or more, I use 2-inch split block spacers to get more leverage, thus enabling me to pry out the shaft further.

The hole in the split blocks is slightly larger than the shaft, allowing them to slide easily. You can clamp them using a large hose clamp.

Once the shaft has been forced out 8 inches or more, the split blocks can be used like a slide hammer to force the shaft the rest of the way out of the frame. The micrometric roller can then be lifted out of the frame. All that is left to do is to insert a new micrometric roller with new bearings and eccentrics into the press unit.

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