

### **HOW TO REPLACE A ROLLER (Rollaco Engineering information sheet)**

Replacement roller sections are available that will fit all brass frames we have made over the years. They will also fit the brass 'horse shoe' frame. These frames have 3/16" diameter spindles which are more or less a UK standard.



Here is a poor old 'horse shoe' frame covered in ink and soft polyurethane complete with a loose handle ferrule. Before I replace the roller all the ink and other stuff must be cleaned off the frame. I use one or more of the following tools and chemicals:

wire brush  
paint stripper  
paint stripping gun  
gun wash (more about this later)



I first remove the steel spindle and inspect it for wear. These spindles are 3/16" in diameter. Heavily worn spindles should be replaced. Here you see my well used wire brush ready for action. You could use an electric drill with a round wire brush, but be careful, on this type of brass frame the brass is very soft and easily marked.

I fit this frame into a vice and remove any loose ink and soft polyurethane compound with a wire brush.

Notice the ferrule is loose - more about this later.



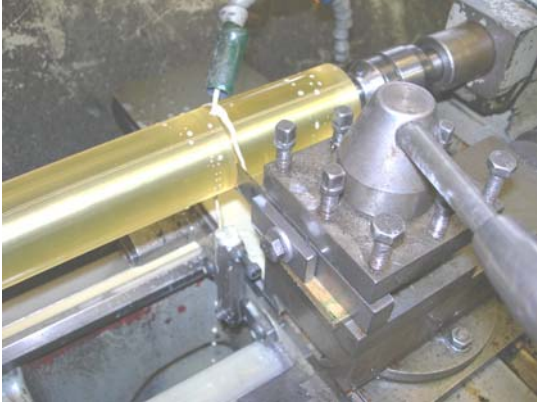
Here I clean off the remaining ink and soft polyurethane with 'gunwash' thinners. This is available from motor car spray shop suppliers.



I clean the ferrule also and glue it back onto the wooden handle with two part epoxy glue (from B and Q).



I take an inside leg measurement with a steel rule. This one measured 104mm. The actual roller width you will need = inside leg measurement minus two spaces. A typical space is about 5 or 6 mm. The spaces are needed for washers or brass spacers. Allowing 12mm for two spaces means we need a 92mm wide roller. The original roller was 50mm in diameter so that's what we will replace it with.



**Here I'm cutting the roller to length in a lathe using white water and a special cutting tool. You don't need to do this just order a 92mm x 50mm diameter roller from us.**



**Here I fit the new 92mm x 50mm diameter roller section into the clean roller frame. I also fit spacing washers/spacers at each end of the spindle to prevent the frame rubbing the roller ends. I allow about 1 to 2 mm of side movement so the roller isn't a tight fit in the frame.**



**There you have it, a 50 years old frame ready to fight again!!!**

**In this case the spindle was OK but sometimes these need to be replaced. I can supply replacement spindles for most frames.**