



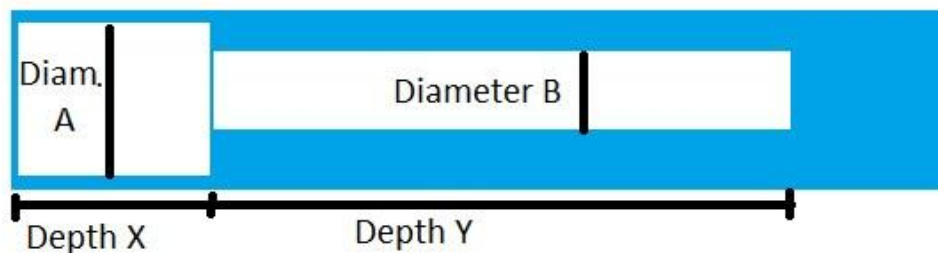
Dimensions & Guide for WT_TLFP and WT_TLRB-01, 02 and 03 Solid Brass Pen Kit

The WTTECH TLFP and TLRB-* brass fountain and rollerball pen kits are fun and versatile pens to make. Because these kit are not tube-based, they can be made to your desired size and shape without limitation.

Each pen kit is composed of similar elements: The cap, the nib and the nib connector. Tubeless2 fountain pens also have the writing nib and Tubeless2 rollerball pens have a spring and a refill.

We recommend a blank 95mm long minimum – there is no maximum length.

Because these kits are designed to be turned between centres, they do not require special mandrels or bushings. These kits are manufactured from solid brass and can be sanded and polished with your blank after turning is finished and have the same finish applied. Many finishes used on wood blanks are suitable to cover brass parts. Please check the specifications of these finishes for suitability before using them.



The diagram above references a measurement (letter) inside the solid blue box – these are the drill diameters and depths required (see below).

WT_TLFP (with rounded cap)

Diameter A - 9mm

Diameter B - 8mm

Depth X - 10mm

Depth Y - 57mm

WT_TLRB-01 (with rounded cap)

Diameter A - 9mm

Diameter B - 7mm

Depth X - 10mm

Depth Y - 70mm

WT_TLRB-02 (with flat cap)

Diameter A - 8.5mm

Diameter B - 7mm

Depth X - 8.5mm

Depth Y - 87mm

WT_TLRB-03 (with two-stepped flat cap)

Diameter A - 8.5mm

Diameter B - 7mm

Depth X - 9mm

Depth Y - 83mm

Do not worry if you drill a little too deep on Depth Y, as there is room for error in both rollerball and fountain pen kits: The rollerball refill is fitted with a spring and the fountain pen converter will fit in any hole, as long as the minimum length (see above) is respected.

Ensure each end of the blank is flat to get a good flush fit with the brass parts. The blank can be turned either with or without either of the brass parts fitted – if you mount without the nib connector fitted ensure the pressure of the drive does not cause the blank to split

Once drilled and mounted between centres, the blank can then be turned to the desired size.

To assemble:

- 1] Push in (glue if required) the nib connector and the heel cap at either end of the finished blank
- 2] Drop the refill spring into the body and then drop in the refill so the flat end hits the spring
- 3] Screw on the brass nib section
- 4] Screw on the brass pen cap