

## Catalog 124CZ Inside Micrometer

The 124C is one of four solid rod 124 inside micrometer styles, it has the capacity of gaging inside dimensions from 8-32 inches. Upon opening the wooden case you will find 3 tubular spacers in the upper left corner, 2 being two inches long and one an inch long. There will be 3 extension rods provided in cut outs, each labeled with the range; 14-20 inches, 20-26 inches and 26-32 inches. A fourth extension rod will be inserted in the tool and is the 8-14-inch range rod.



Using the tool: Remove the eight-inch-long micrometer measuring head assembly and if the required distance is longer than 9 inches, loosen the knurled collet on the end opposite the micrometer section. Once loosened remove the rod and consult the table below for combinations of rod/spacer(s) required to attain the desired length.

NOTE: In a cut- out you will also find 3 black open end type wrenches, these are used to make fine adjustments to the end rod tips. Occasionally after many years of use you may need to adjust the rod tips because of wear. Using two of the wrenches you can loosen the lock ring and unscrew the tip slightly.

Packed with the wrenches is one that is not used on the C style but required on others

### How to attain different lengths with spacer use

The 124CZ inside micrometer comes to you with a measuring head capable of linear travel of one inch.

Four main extension rods each 6 inches longer than the last and three spacing collars the first one inch long and two individuals each two inches long.

By combining the spacers and the rods you are able to increase the heads 8-inch length to the 32 inches advertised.

Example: The micrometer head with its shortest extension rod installed, has the capability of gauging inside distances of from 8-9 inches in .001 increments

By removing the extension rod and sliding the one-inch spacing collar onto its shaft you can now extend the capacity from 9-10 inches

From 10-11 inches requires the two-inch spacing collar

From 11-12 inches requires the one-inch spacer and a two-inch spacer

From 12-13 inches requires the use of both of the two-inch spacers

From 13-14 inches requires the use of all three spacers both of the two inch and the one inch.

To extend beyond the 14-inch distance the second extension rod is required it is around 12 inches long from one end to the other and labeled 14-20. With this rod inserted into the micrometers head the capability is 14-15 inches

From 15 to 16 will require the one-inch spacer be inserted onto the shank of this rod.

From 16-17 inches requires the two-inch spacing collar

From 17-18 inches requires the one inch and one of the two-inch collars.

From 18-19 inches requires both two-inch-long collars

From 19-20 inches requires the use of all three spacers both of the two inch and the one inch

For further length extension select the next rod from the case, it is 18 inches long and labeled 20-26 follow the same procedure outlined above with this rod and the longest labeled 26-32 to attain the advertised 32-inch capacity