

# How does Pressure Manager© work with micrometers?

Pressure Manager© is software that coordinates the HBLT (Hydraulic Burst/Leak Tester) pressure profiles and micrometer readings. The common method is to command the HBLT to perform a staircase test using either a test saved in the HBLT or a sequence of commands called a script. At each step in the test, Pressure Manager© requests a micrometer reading after maintaining the pressure. During the test, Pressure Manager© maintains a data table containing the desired pressure, the actual pressure, and the micrometer reading. Additionally, Pressure Manager© saves the table data in a comma-delimited file for documentation or importing into other programs (i.e. Microsoft Excel©).

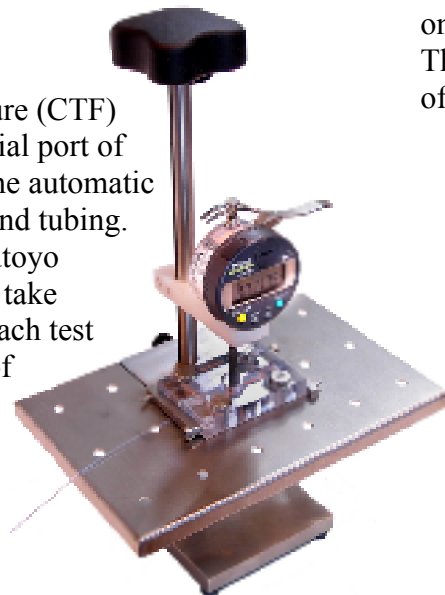
Pressure Manager© uses three types of micrometers (seen below). The first is the Keyence 7030 Optical Micrometer. The second is the Mitutoyo contact micrometer using the serial interface. The third available option for diameter measurement is the Laserlinc™ interface that attaches to one of several laser heads. Pressure Manager© provides a wizard setup facility to configure the attached interface and to calibrate the optical and laser micrometers.

The Keyence 7030 Optical Micrometer is used in conjunction with Pressure Manager© to take diameter readings of product during testing. This system has a provides a resolution of 0.01microns.



Crescent Design has interfaced the TLAser122™ to Pressure Manager© and the HBLT, providing one option for non-contact diameter measurement. The TLAser122™ system provides a resolution of .025 microns.

The Compliance Test Fixture (CTF) connects directly to the serial port of the HBLT and allows for the automatic measurement of balloons and tubing. A standard, low force Mitutoyo Digimatic gauge is used to take diameter readings during each test and provides a resolution of .001 mm.



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