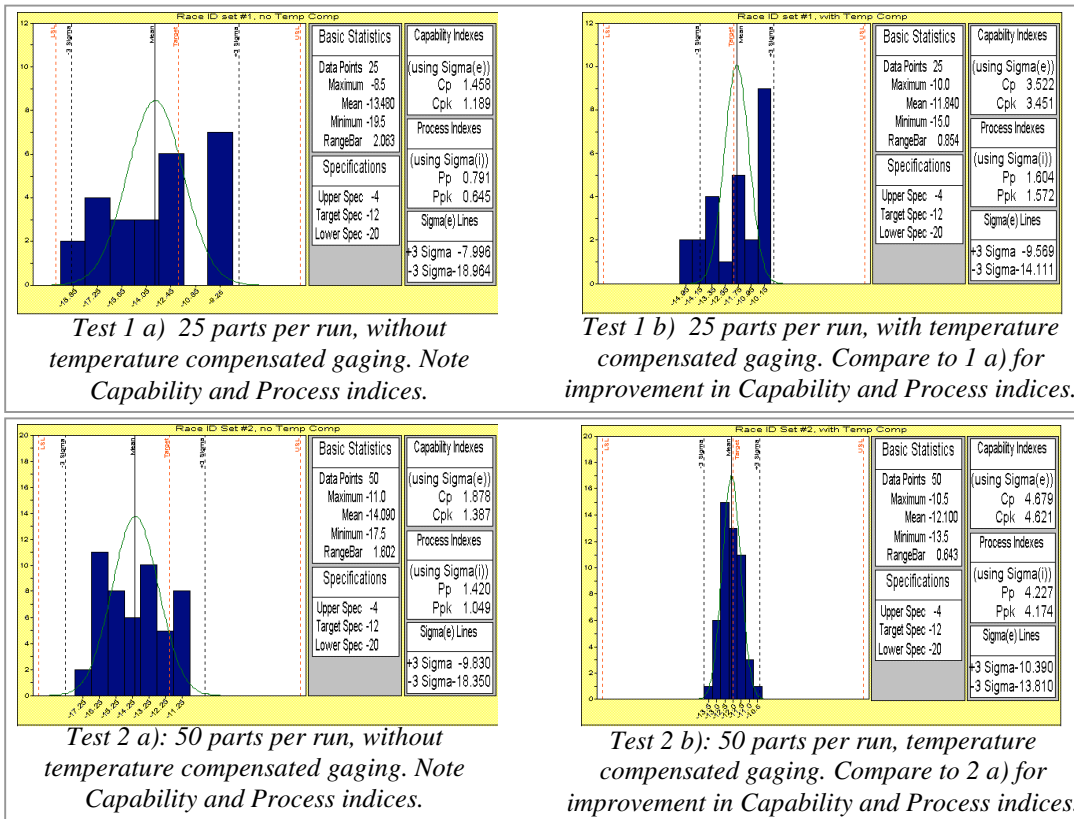


## Why Temperature Compensated gaging is a good investment

**Temperature compensated gaging offer's greater accuracy overall in the production of precision components.** If manufacturers want to produce consistent and repeatable precision measurements then temperature needs to be considered. Otherwise measurements that one day appear to be correct are not correct another day, when temperatures are different. Temperature compensated gaging corrects all measurements to the international standard reference temperature of 20 degrees C. **If manufacturers are serious about quality then temperature must be taken into account.** Temperature compensated gages may be more expensive than conventional gages because they are more complex, but the benefit is that they improve repeatability, reproducibility and consistent overall accuracy in production processes.

As a result, users of temperature compensated gaging save costs of rework and scrap, and they achieve greater process control by improving Cps and Cpk. Users of temperature compensated gaging experience cost savings that pay for their investment in just a few weeks, and they demonstrate equipment process improvements in the order of 100% or better. A typical user experienced the following results:



Note that the results on the left were obtained without using temperature compensation, while the results on the right used temperature compensation. The temperature compensated results show Cpk improving dramatically in both tests. Tighter statistical grouping of results means that fewer bad parts are produced, process becomes more efficient, fewer parts are scrapped or reworked, costs are reduced and higher quality parts are made, so customer satisfaction is improved.