

# Automatic Test Process Optimization – autoTune

Incorrectly or suboptimally set process parameters are the most common cause of measurement errors in leak testing. Process times set too long cause unnecessary machine runtimes and thus significant costs. Process times that are too short often lead to pseudo-rejects or incorrect tests.

Achieving the truly optimal parameter settings has previously only been possible with extensive experience or elaborate test series.

This problem is automatically solved by the intelligent leak testing system [INTEGRA](#) through the optionally available *autoTune* process.

Using a sample test piece, [INTEGRA](#) automatically determines the optimal process parameters after entering a few characteristic values, which can usually be read from the product drawing. The required reproducibility is achieved with the shortest possible process time. When using a test leak, the process capability of the automatically determined parameters is verified. For this process, mathematical methods are applied that have been defined in our patent-protected differential method.

## **Advantages of automatic test process optimization *autoTune*:**

- Process reliability
- Low machine costs
- Reduction of pseudo-rejects
- Reduced commissioning effort