

Equipment Capability Assessment

For high quality, defect-free manufacturing, at maximum productivity and efficiency, your placement equipment must perform to the specifications you rigorously researched before buying. And for today's leading-edge components, including 0201, BGA, and flip-chip formats, you need to be sure of precise placement accuracy and process control. Over time, the demands of the factory environment may cause placement accuracy performance to drift away from specification. Yet verifying compliance to specification demands skilled analysis, and high-value advanced equipment. And that's not your core business.

Measure and maximize placement accuracy

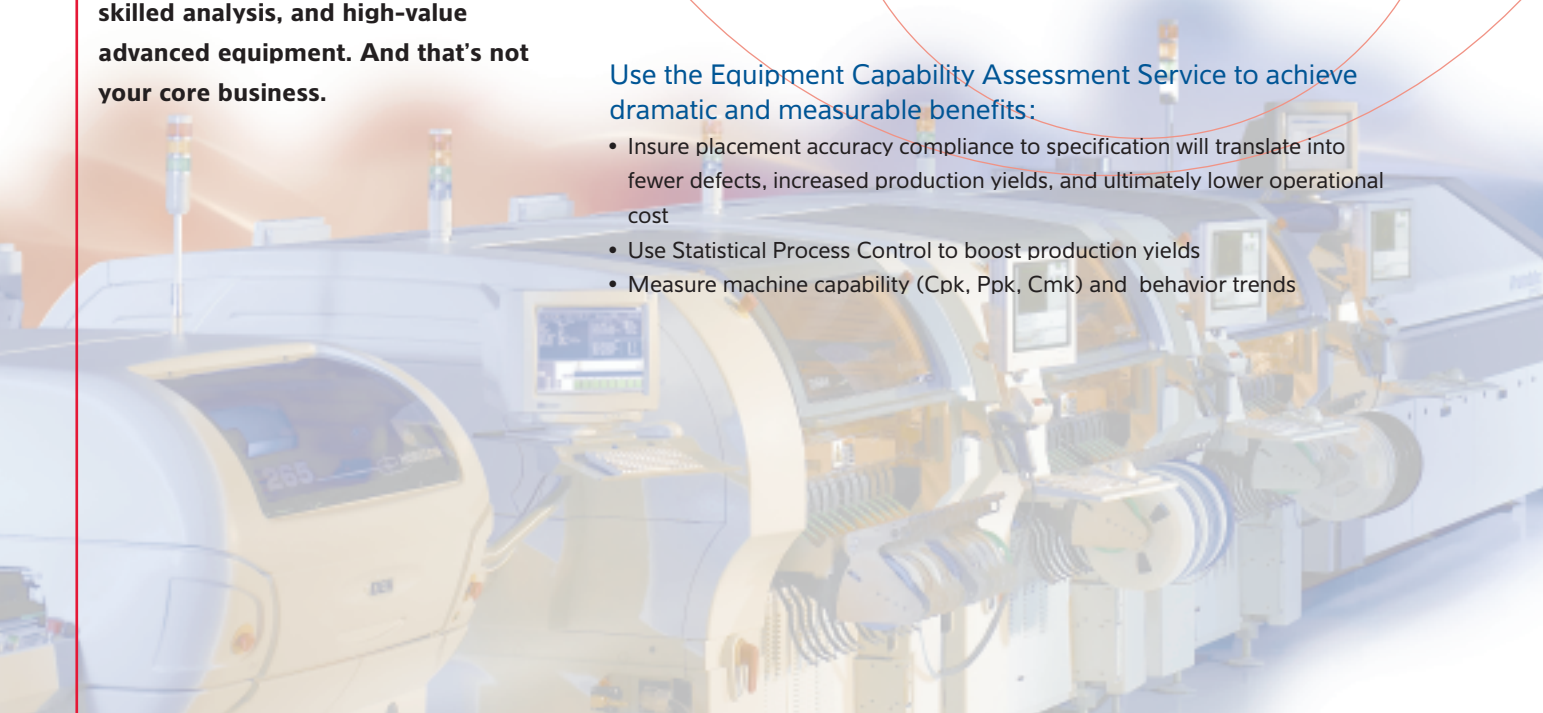
The Equipment Capability Assessment Service from Universal Instruments characterizes machine placement performance to accurately target specific corrective actions. The service is developed and delivered in conjunction with metrology and statistical process control experts CeTaQ, Inc, and assembles the knowledge and technology to direct continuous improvement in the manufacturing environment.

Make Equipment Capability Assessment an integral element of your manufacturing strategy

- As a basis for continuous productivity and quality improvement strategy
- Qualify equipment to meet tighter placement and accuracy specifications, for example to perform 0201 or flip chip assembly
- Re-qualify equipment that has been redeployed, reconfigured, or has undergone major maintenance repairs to insure performance in accordance to expected placement accuracy specifications
- Satisfy ISO9000/QS9000 or your end customer calibration requirements

Use the Equipment Capability Assessment Service to achieve dramatic and measurable benefits:

- Insure placement accuracy compliance to specification will translate into fewer defects, increased production yields, and ultimately lower operational cost
- Use Statistical Process Control to boost production yields
- Measure machine capability (Cpk, Ppk, Cmk) and behavior trends



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The Equipment Capability Assessment Process:

- Initial assessment: identify the equipment models to measure placement capability and provide a quote based on the number of machines, their types, and inspection reporting requirements
- Universal Instruments and CeTaQ schedule on-site equipment capability assessment. All required metrology equipment and programs are provided
- Perform and analyze placement accuracy measurements
- Perform trimming or recommended corrective actions
- Identify and resolve faulty assemblies or other root cause contributors if necessary
- Re-verify corrective measures through follow on test
- Presentation of summary report describing the results and findings
- Identify and schedule follow-up service requirements

The Equipment Capability Service is conceived to deliver maximum assurance and satisfaction:

- Created and delivered using the combined expertise of CeTaQ and Universal Instruments
- CeTaQ Mobile metrology services bring advanced measurement and analysis equipment to your site for all SM equipment
- CeTaQ staff insure third party verification to certify equipment placement accuracy and specification compliance
- Cost saving alternative to your own metrology capability

Capability Assessment X - Y Diagram

