

TEST SYSTEMS



**Physical
Measurement
Testing**



Physical Measurement Testing

Description

With today's assortment of precision transducers, any physical property can be converted to an analog signal; which can then be read into a PC or PLC for analysis. At ATS Test Systems, we are experts in manipulating and analyzing these signals to a very high level of accuracy and repeatability.

Without fixturing that provides repeatability there is no way to determine if product variations are the result of the process or the test fixture. An important part of the turnkey solutions we provide is our ability, based on our extensive experience in automation systems, to engineer test fixturing that performs with high precision and absolute repeatability.

Such levels of accuracy demand a custom approach in both the design and integration of unique fixturing for each individual test within the system.

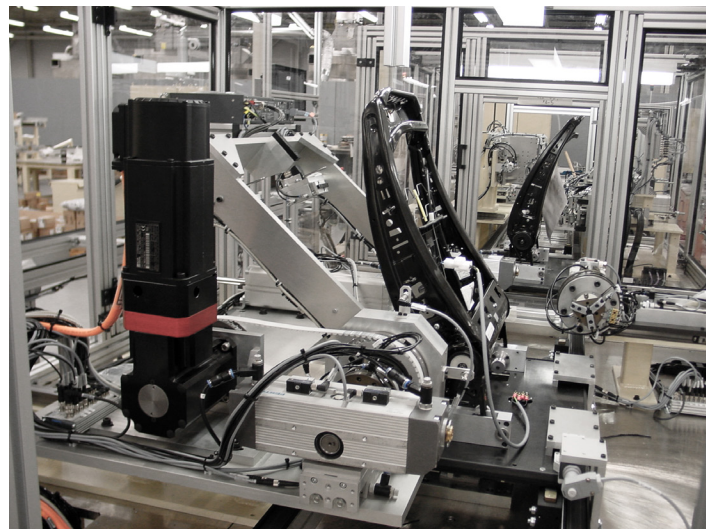
Our mechanical designers, toolmakers and machinists use advanced design tools to develop custom fixturing engineered to work flawlessly with test instrumentation and data acquisition systems.

Specifications

- Single-source 100% custom test solutions from standard designs
- Full functional EOL or in-process verification/calibration/durability
- Integrated birth history/traceability/configuration/SPC archiving capabilities
- Optimize test cycle time with minimum fixtures to maximize ROI

Our Expertise Includes

- **High speed data acquisition (Force vs. Displacement, Time to function)**
- **Noise, Vibration and Harshness (NVH) Analysis**
- **Motor performance (Torque, Speed, Current, Voltage)**
- **Strain, Distance, Velocity, Displacement, Temperature measurements**



Contact ATS directly for application review or for product specific applications beyond the scope of this document.



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September 2015