



VACUUM TECHNOLOGY I N C O R P O R A T E D

Automotive Transmission Cast Component Pressure Decay Tester



Specifications

- **Product:** Transmission Subassembly
- **Tracer Gas:** Nitrogen
- **Leak Reject Rate:** 19 atm-cc/sec from 1.5 Bar into Atm
- **TAKT Time:** 21.5 Seconds
- **Installation Date:** 2012

VTI's Automotive Transmission Cast Component Pressure Decay Tester is engineered to provide a safe and reliable gross leak test.

This custom system is comprised of two independent fixtures to test two parts simultaneously. These two test stands are designed to allow robotic insertion and removal of the Unit Under Test (UUT). A robotic arm brings the UUT to the station, places it in the appropriate fixture, and upon receipt of the "handshaking" acknowledgement from the robot, the Pressure Decay test sequence commences. A clamping fixture seals the part, the part is filled to the test pressure, and then the drop in pressure is monitored for acceptance. Passing tests are challenged with a NIST-traceable verification leak to preclude false acceptance.



The control system is integrated with the customer's database to provide real-time data. It is also interlocked with other equipment on the production line to guarantee testing requirements are met in production.