

## Transmission Final Test

A global power train manufacturer sought a turn-key transmission final test equipment solution that could be implemented in several manufacturing sites around the world. In addition to providing the best technical solution and price, the successful supplier had to be able to support this global program at several sites in both the eastern and western hemispheres. Assembly & Test Worldwide (ATW) successfully met this challenge by designing and building the most robust, dependable, and flexible transmission final test systems possible. These final test systems are being fully supported by ATW facilities in China and North America. Additional support could also be provided by ATW facilities in India, Europe, and South America.



### System Overview

- Several fully automatic, loaded, Transmission Final Test stands configured in a parallel arrangement.
- 1 fully automated Valve Body Functional Test stand using air medium, with nitrogen die bolt simulation.
- Integration of Hot Oil Refinery.
- Test Host Computer System.
- Test Control and data acquisition system.
- Palletized bi-level, non-sync, power and free conveyor system with elevators.
- Final Test Calibration Equipment.
- Oil containment.
- Lexan guarding with safety switches on all doors.

### System Values & Benefits

- Complete Turn-key Test System Providing Single Point Accountability
- Fully Automatic, High Volume
- Zero Change-over Between Model Families
- Batch-of-one Random Model Mix To Meet Model Demand
- Tool Redundancy For Higher Uptime
- Cross-site Commonality While Meeting Local Specifications
- Complete Controls and Data Acquisition Packages

### System Highlights

- Flexibility to final test (3) families of transmission models.
- Automatically adjusts to multiple bell housing configurations.
- Auto engagement of multiple torque converter styles.
- Auto change of Output engagement tools.
- Flexibility to accommodate various present and future output engagement points.
- 330 Second Cycle time
- Flow Through Machine Design with Elevator
- Palletized Transmission Transport
- UNICO Drive System with Air Cooled Input and Output Motors
- Pan "On" - Torque Converter "On" for Test
- All Slides / Probes Engage Automatically
- Balanced Output Drive Slide Assemblies
- Gear Box to Offset Input Motor to reduce base length