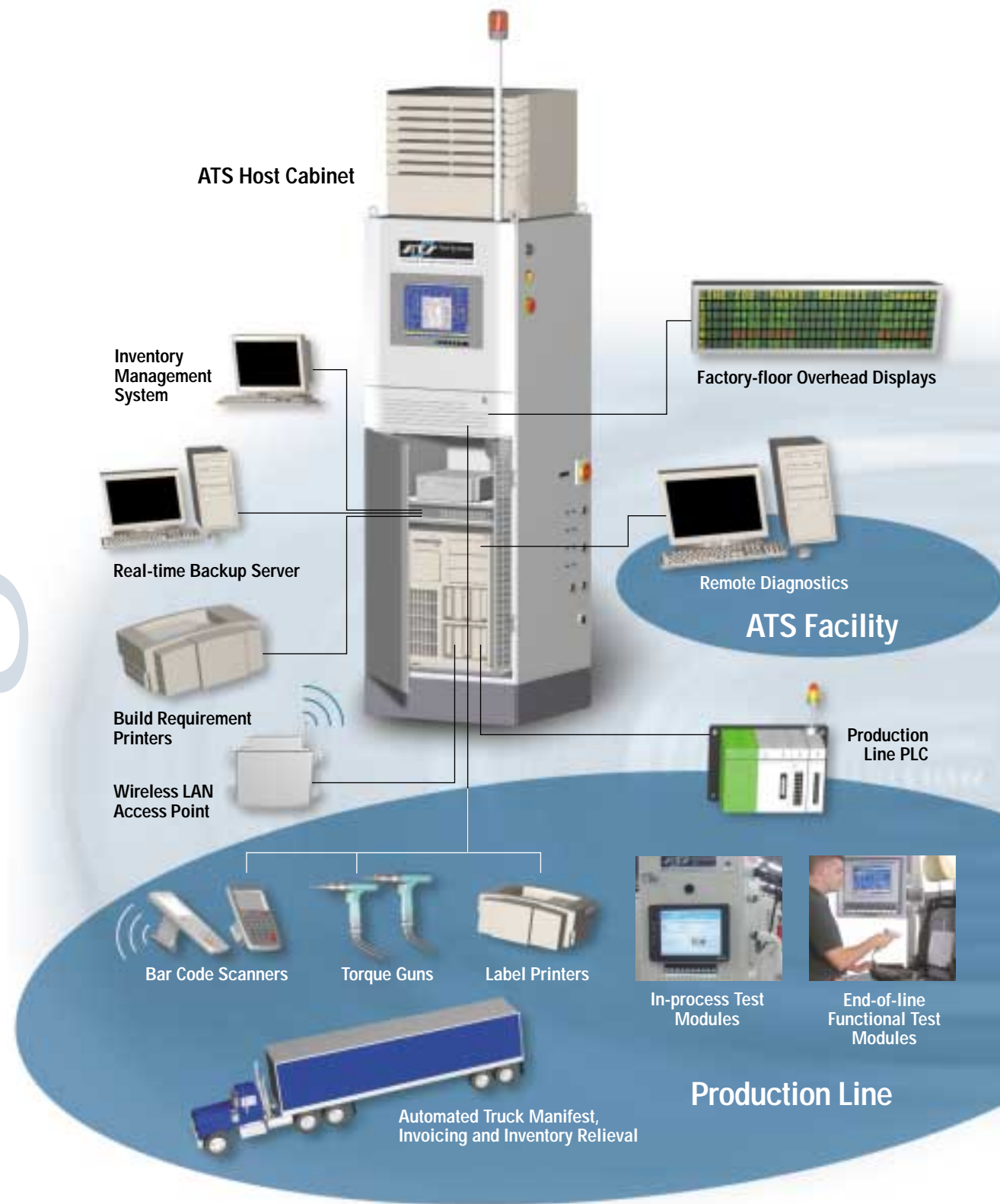




ATS JIT Manufacturing Execution System



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Description

The JIT Manufacturing Execution System (MES) is a proven and robust solution for Mission Critical, Just-In-Time (JIT) Sequenced Delivery Build Verification. It both manages and verifies the execution of all production processes, from receipt of order to shipment, for customers who operate JIT manufacturing facilities.

Our JIT MES fully embodies the knowledge we've gained in serving leading automotive suppliers for more than fifteen years. We understand the imperativeness for our customers to deliver product on time and to incorporate a manufacturing process that is unique to their needs. As such, our JIT MES Host is database driven, which allows for total process control and part traceability functions to be set up and configured using database parameters.

The result is a solution that provides our customers with optimum reliability and increased productivity with the flexibility to maintain it for future program, model, or product changes.

Typical Tasks Supported

- Receive, Decode, & Archive Customer Electronic Broadcast Data
- Queue Information for Production Build
- Generate Build Requirement Labels, Manifests, & Pick Lists
- Generate Off-line Sub-assembly Build Requirements
- Verify In-process Build and Perform Part Traceability against Sequence, VIN, & Component Part Numbers
- Authorize Indexing of Production Line
- Archive Final Electrical / Functional Test Results
- Perform Final Inspection on all products prior to shipping
- Verify Shipping Loading Sequence and Generate Shipping Rack Labeling & Truck Manifest
- Perform Real-time SPC Analysis
- Generate Quality & Production Management Reports
- Upload Reports to Customer Quality Information Systems
- Echo all Critical Database Files & Reports to Dedicated Backup Host

Specifications

Product Name:	JIT Manufacturing Execution System
Operating System:	Windows NT 4.0 / 2000 Server
Host Server:	Specifications according to Latest Industry Standards, SCSI Hard Drive Controller & Qty (2) HD's, Manufacturer's 3-year Warranty & 7x24 On-site Coverage
Modes of Operation:	1. Automatic 2. Manual (should customer electronic broadcast fail)
Host Database:	Universal dBase File Structure
Host Integration:	Rittal NEMA 12 PC Enclosure w/ Heat Exchanger or Air Conditioner
Back-up Host Server:	Same Specs as Main Host, to be remotely located
Build Verification Station Interface:	Handheld RF Barcode Scanners & Displays (or similar), IEEE 802.11 standard, wireless LAN connection
Label Printers:	Thermal Transfer w/ RS-Serial interface
Report Generation Printers:	Hewlett Packard 4000N Laser w/ LAN interface (or similar)
Production Line Control Interface:	Digital I/O, Profibus

Features

- Single-server Solution with Intelligent Scanning Build Verification Stations
- Method for Supervisory Override
- Real-time Inventory Updating & Control
- Repair Station Interface
- Verbose Failure Messages & Alarm Triggering Provisions
- Simple Windows Main Interface for immediate feedback of production status, editing process configuration, viewing reports, etc.
- Complete Production Process & Test Result Archiving, capable of local or remote LAN echo
- Automatic Management Report Generation, complete with First Time Capability & Production Failure Pareto Analysis by Shift
- Enhanced System Hardware Diagnostic Capabilities
- User-definable System & Individual Station Process Configuration, to allow user to configure system for future program or model year changes
- User-definable Product Option Content Configuration, to allow user to configure system for future product changes
- Method for Manual Build & Data Entry (should customer electronic broadcast fail)
- Queries for Full Production Information for specific Sequence or VIN Numbers

Typical Products

- Instrument Panels
- Automotive Seating
- Fascias
- Steering Columns
- Strut Assemblies
- Interior Door, Console & Headliners
- Airbag Modules

Options

- Portable Electrical Test Units
- Torque Archiving & Verification
- Airbag Test Systems
- Relay Insertion & Test Stations
- RKE Programming & RF Test Stations
- Final Electrical / Functional Test Systems

Contact ATS directly for custom or product-specific applications beyond the scope of this document.



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