

Haoyue FAT and SAT Evidence Package

Public sample framework for equipment acceptance planning. It describes document categories and does not certify a machine, test result, or contracted scope.

Requirement baseline

- Approved equipment configuration and scope boundary
- Process-window assumptions and excluded conditions
- Utility and site-interface list
- Agreed FAT and SAT responsibilities
- Open-item and deviation register

Factory Acceptance Test sample checks

- Equipment identification and visual inspection
- Chamber, hot-zone, tooling, press, gas, and vacuum configuration review
- Safety interlocks, alarms, emergency functions, and permissive logic
- Vacuum or pressure integrity under an agreed empty-load condition
- Temperature response and recorded channels under an agreed test condition
- Cooling, motion, recipe, data acquisition, and export functions
- Documentation set, operator walkthrough, and open-action closure

Equipment scope table fields

- Chamber orientation and usable work zone
- Hot-zone, tooling, press, or gas-pressure configuration
- Vacuum pump train and stated test condition
- Gas supply, purge, exhaust, and safety interfaces
- Cooling circuits and facility-water boundary
- Controls, recipe functions, recorded channels, and data export
- Included auxiliaries, excluded site work, and customer-supplied items

Thermal uniformity and vacuum record

- Test purpose and approved method
- Empty-load, dummy-load, or defined load condition
- Sensor type, quantity, position, and instrument reference
- Setpoint, stabilization rule, sample interval, and recorded duration
- Maximum, minimum, and agreed variation calculation
- Pump-down start condition, target pressure, elapsed time, and gauge reference

- Vacuum hold or pressure-rise start and end readings with elapsed time
- Deviations, environmental notes, review status, and attached data file

Site Acceptance Test sample checks

- Shipping condition and installation inspection
- Electrical, cooling, gas, exhaust, grounding, and facility-interface confirmation
- Start-up and functional checks within the approved site boundary
- Agreed empty-load, dummy-load, or process-trial scope
- Operator handover and safety review
- Final action list and record sign-off

Evidence record fields

- Equipment identity and configuration revision
- Test date, location, participants, and witness roles
- Instruments and calibration references where required
- Starting condition, method, channels, and limits
- Results, deviations, corrective actions, and closure status
- Attached curves, logs, photographs, and signed records

Milestone record

1. Requirement and scope freeze
2. Design and interface review
3. Assembly and inspection readiness
4. Empty-load and functional tests
5. FAT witness or record review
6. Shipping and site-readiness confirmation
7. Installation, SAT, training, and handover

The final FAT and SAT methods, limits, and deliverables are defined in the project contract and approved technical documents.