

Metal-Asia

Inspection Control and FAT/SAT Testing for Supplies from China

For major industrial projects, inspection is a vital tool for quality assurance. [Metal-Asia.pw](#) implements a rigid control discipline at all production stages. We ensure that [industrial automation and spare parts](#) and machine equipment are verified before crossing the border. Conducting an [engineering audit](#) during production allows for the elimination of hidden defects.

Factory Acceptance Testing (FAT)

FAT is the final system verification at the manufacturing plant. Our engineers participate in tests, controlling:

- **Algorithm Functionality:** Verifying how [PLC systems](#) control actuators.
- **Equipment Precision:** Confirming parameters under which [production lines](#) operate.
- **Safety Systems:** Testing the functionality of [emergency shutdown systems](#).

Non-Destructive Testing (NDT) in China

When metal is a critical structural element, we apply [NDT quality control](#). This includes weld inspection, thickness measurement, and PMI alloy analysis. This approach is mandatory for complex gear from giants like the [ABB brand](#) and other world-class manufacturers.

Pre-shipment Inspection: The Final Filter

Before final payment, our inspector conducts full batch verification. We check completeness against the BOM, presence of ZIP (spare parts), and labeling correctness. Special attention is given to how [servo systems and robotics](#) are installed and secured for safe transit.

Control of Management Systems and Electronics

Мы проводим ревизию шкафов управления, где размещаются [DCS systems](#). We check assembly quality, cable marking, and connection reliability. [Power electronics and relay protection](#) are also verified to minimize failure risks during initial site startup.

Site Acceptance Testing (SAT)

The project doesn't end in China. We support SAT at your facility, confirming that the equipment maintained its characteristics after transport and is ready for integration into the production cycle.

Frequently Asked Questions

How does FAT differ from standard inspection? FAT involves dynamic equipment testing under load, while standard inspection often focuses on visual and quantitative checks.

Can PLC tests be conducted remotely via video? For simple systems, this is possible, but for complex complexes, we always recommend the personal presence of our engineer.

Do you verify sensor calibration during SAT? Yes, final calibration and tuning of measurement loops is a mandatory part of commissioning.

What happens if equipment fails FAT? The factory is obliged to fix issues at their expense, followed by re-testing. Shipment is blocked until defects are eliminated.

How is paint and anti-corrosion quality controlled? Using thickness gauges and visual inspection for gaps and pits.

What test protocols does the customer receive? The full package includes FAT protocols, inspection reports with photo/video, and completeness verification acts.

Order a Batch Check Before Shipment

Ensure the technical safety of your supply. Contact us to organize professional inspection and testing of your equipment in China.

Yacek Novak

LEAD ENGINEER FOR INDUSTRIAL CONTROL SYSTEMS

Expert in distributed control systems (DCS) and pre-sale audit of automation architecture. Specializes in integrating complex technological solutions into energy and oil & gas infrastructure projects.



EXPERT PROFILE