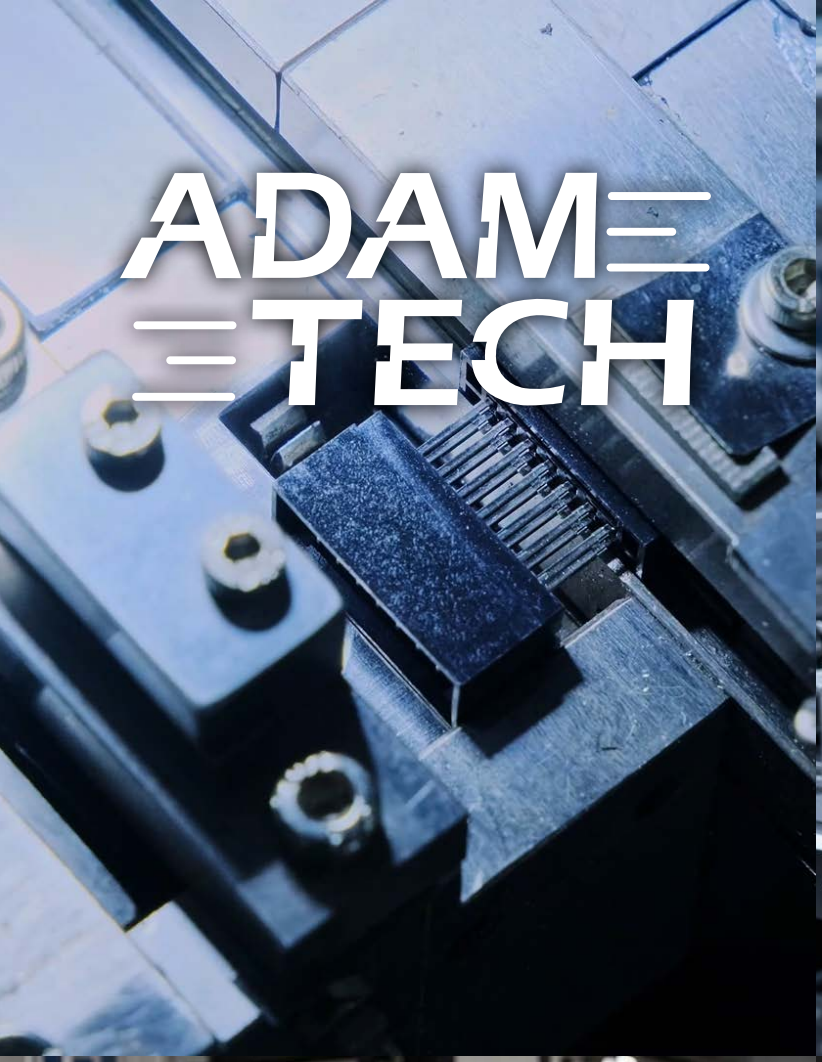
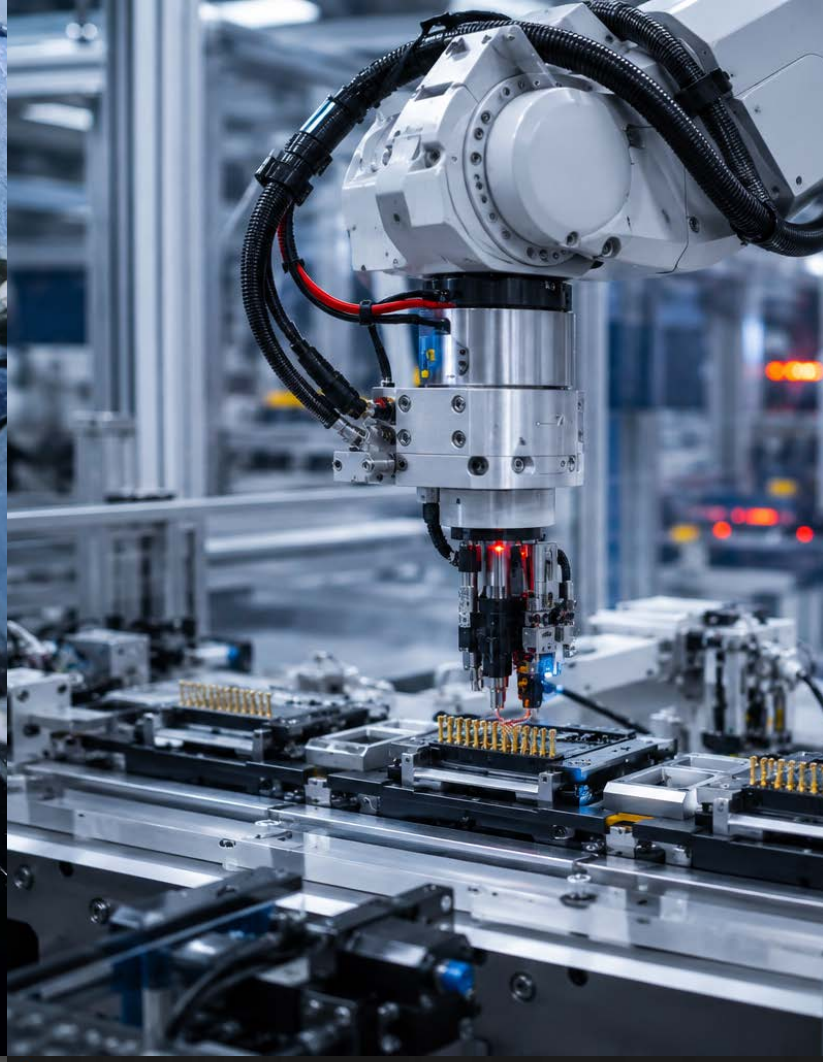
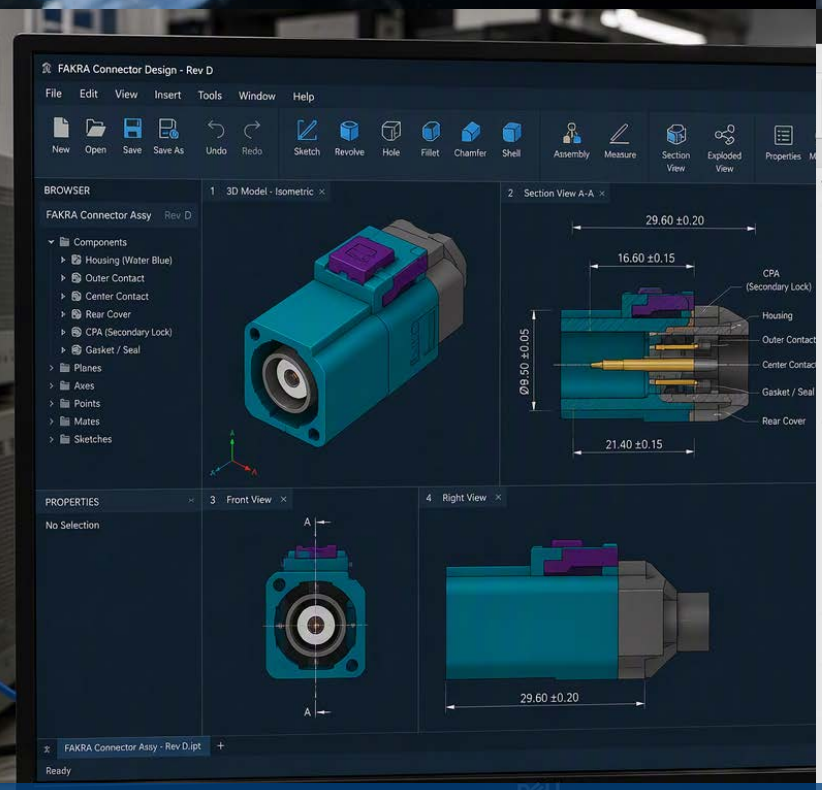
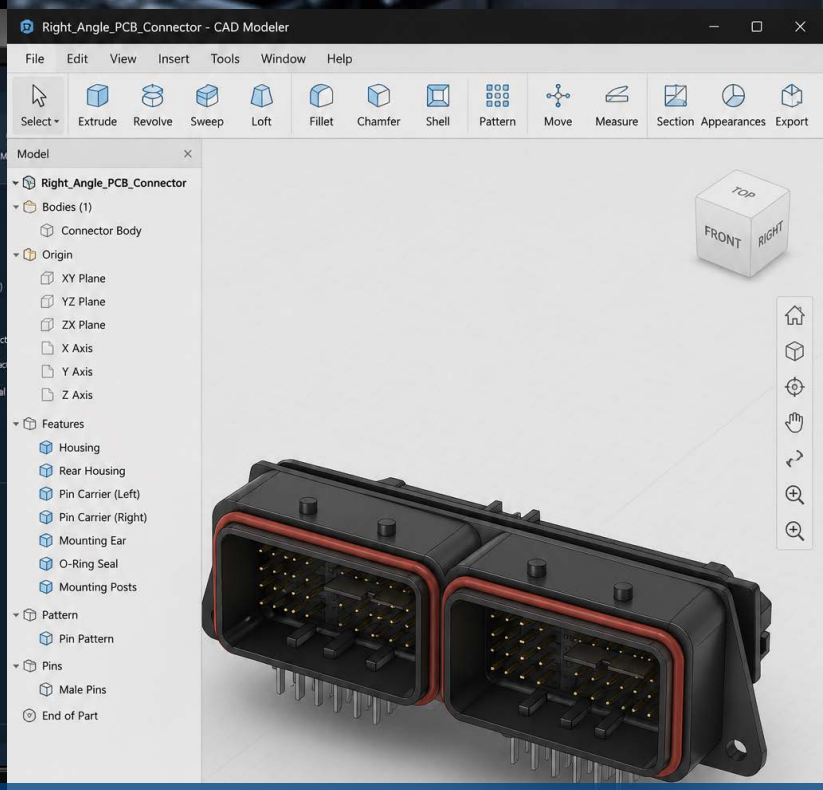
ADAM TECH

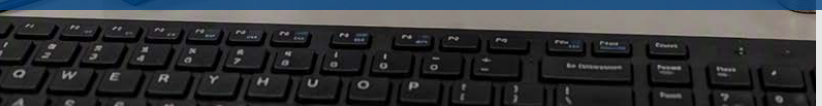


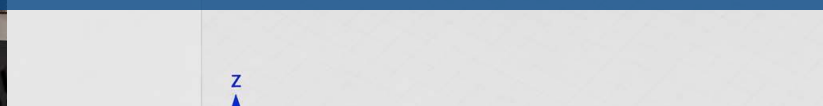






CUSTOM SOLUTIONS





Engineering Custom Connectivity

Delivering reliable, application-specific interconnect solutions for diverse and demanding industry needs.

Adam Tech - Custom Solution Experts

Our technical expertise, enthusiasm for solving complex challenges, and unwavering commitment to customer satisfaction have established custom solutions as a core strength of Adam Tech. We are consistently recognized by our customers as one of the most responsive and capable partners for custom and modified solutions.

40 YEAR EXPERIENCE

Over 40 years of expertise delivering reliable interconnect solutions across automotive, industrial, and advanced electronics applications.

ENGINEERED FOR EXCELLENCE

Professional engineering and quality-driven, Adam Tech delivers reliable, high-performance interconnect solutions for automotive applications.

1000+ SUCCESSFUL DESIGNS

A trusted partner for custom solutions, with proven capabilities refined through thousands of successful application-specific designs.

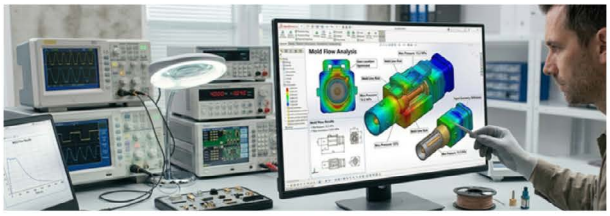
Certifications

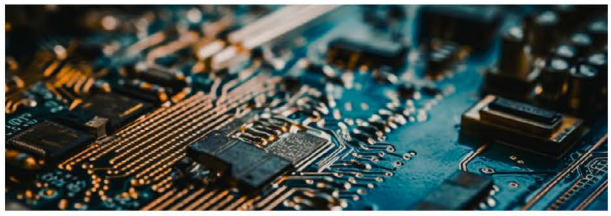
The pinnacle of Adam Tech's standards is quality. Adam Tech maintains the most stringent quality and compliance standards to support the most demanding industries. Our production facilities feature the following:

- IATF 16949 (Automotive)
- ISO 13485 (Medical)
- ISO 9001:15 (Quality Systems)
- ISO 45001:18 (Occupational Health & Safety)
- ISO 14001:15 (Environmental Management)
- RoHS compliant (no exemptions)
- REACH compliant (no exemptions)
- UL, VDE, CE (as applicable)

Integrated Design & Manufacturing Expertise

Delivering seamless integration from concept to mass production through advanced engineering and manufacturing capabilities.





Concept & Innovation

- Customer Requirements
- Analysis & Concept Definition
- IP & Patent Research (WISPRO)
- Simulation & Feasibility Validation
- Cost-Optimized Design Strategy

Engineering Design

- Material & Component Engineering
- 2D / 3D Design & Modeling
- Rapid Prototyping
- Design Verification & Validation
- DFM / DFMEA Implementation
- Value Engineering (VA/VE)
- Supporting Capabilities:
  - Signal Integrity (SI)
  - Optical Design
  - Waterproof Sealing
  - Thermal Management
  - EMI Shielding

Manufacturing Excellence

- Manufacturing Process Design & Flow Planning
- Equipment Selection & Tooling Development
- Core In-House Processes: (Stamping, Injection Molding, Die Casting)
- Production Line Setup & Automation
- PFMEA & Control Plan Implementation
- Dedicated Automation Engineering Team

Quality Assurance

- Mechanical, Electrical, Signal Environmental Testing
- 100% In-Line Optical Inspection
- Automated Tape & Reel Packaging
- Reliability & Compliance Verification

Benefits and Support

Extensive Product Portfolio & Competitive Pricing

- Highly competitive pricing with consistent value and performance
- Broad portfolio supporting collaborative design optimization
- Flexible minimum order quantities (MOQs)
- Comprehensive coverage across applications

Custom Design & Engineering Solutions

- Customer-specific tooling development
- Solutions tailored to your application
- Cost-effective design proposals
- Concept and prototype support
- Full design-in and development support

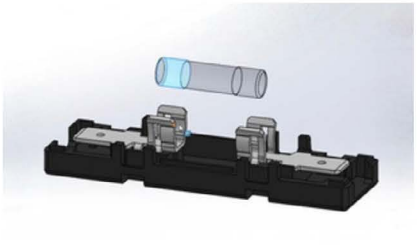
Agile Supply Chain & Short Lead Times

- Vertically integrated for speed and control
- Regional support across Americas, Europe, and Asia
- Strong distribution network for availability

Responsive & Global Customer Support

- Fast response and sample turnaround
- Flexible, customer-aligned processes
- 24/7 global sales and engineering support

Custom Product Development



APQP / Project Planning

Overall quality and development framework establishment

- APQP (Advanced Product Quality Planning)
- P-FMEA (Process Failure Mode & Effects Analysis)
- Establish project quality and risk strategy
- Define development phases and key delivery milestones

Project Communication & Early Involvement

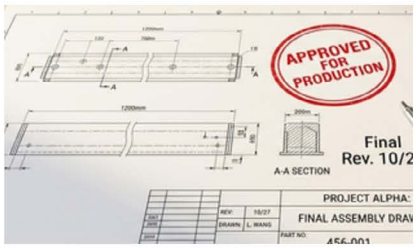
Early-stage communication and requirement integration

- Capture customer requirements
- Specification confirmation
- Preliminary drawing review
- Quality requirements definition
- Business terms alignment
- Establish cross-functional communication mechanism

DFM → EVT → DVT Integrated Validation Flow

A continuous development process that ensures manufacturability from the design stage through functional, electrical, and compliance validation

- DFM: Manufacturability, cost, and process optimization (early alignment between design and manufacturing)
- EVT: Prototype development and basic functional/electrical validation (initial design verification and issue correction)
- DVT: Full electrical and standards compliance validation (final confirmation of design stability)



PVT (Production Validation)

- PVT (Production Validation Test)
- Pilot production run
- Manufacturing process stability validation
- Mass production consistency verification

Customer Approval

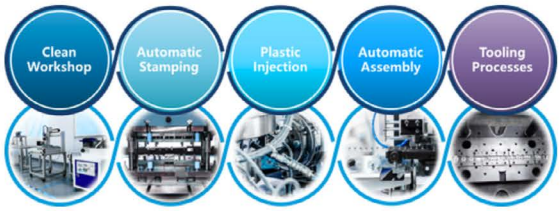
- PPAP (Production Part Approval Process)
- Final customer approval

Project Closure/ EOL

- EOL (End-of-Life) management
- Joint project review
- Feedback loop and lessons learned
- Input for next-generation product development

Manufacturing Capabilities

We offer a highly flexible and fully integrated manufacturing capability that effectively transforms customer-specific designs into stable, scalable production solutions.



Stamping Workshop

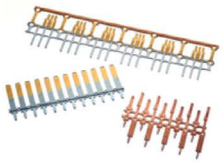
Adam Tech's stamping workshop features precision high-speed stamping capabilities, supporting reliable production for custom connectivity solutions. With strict process control and in-house tooling expertise, we ensure consistent quality, dimensional accuracy, and efficient manufacturing for diverse application requirements.

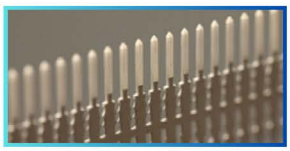
Workshop Machinery

- Advanced high-speed automatic stamping capabilities for precision metal component production
- Precision grinding equipment supporting tight-tolerance tooling and finishing requirements
- Automated tapping machinery for efficient, consistent threaded component processing
- High-frequency welding systems supporting durable, high-integrity assembly performance

Key Advantages

- High-precision stamping machines and molds meet customer accuracy requirements
- Stamped products are widely used and continuously developed for various applications
- Independently designed and assembled systems offer short mold opening cycles, low cost, and reliable quality





Stamping Process

From raw material feeding and progressive die stamping to final part formation, the automated production process ensures dimensional precision and stable quality through advanced equipment and strict process control, demonstrating the efficiency of modern manufacturing.

Molding Workshop

Our diversified molding capabilities enable us to provide tailored manufacturing solutions that align with each product's unique structure, material properties, precision requirements, and production volume. By leveraging a wide range of molding technologies and process expertise, we are able to optimize product performance, manufacturing efficiency, and cost effectiveness while ensuring consistent quality and reliability across various applications and industries.

Customized Manufacturing Solutions

Tailored molding approaches based on product structure, material properties, and application requirements.

- Developed mold sets supporting diversified injection molding solutions and scalable production.

Precision & Process Optimization

Advanced molding technologies ensure high precision, stable quality, and optimized manufacturing efficiency.

Flexible Production Capability

Scalable production solutions designed to support both low- and high-volume manufacturing demands across diverse industries.

All-Electric Injection Molding Machine

Verical Injection Molding Machine

Horizontal Injection Molding Machine

Workshop Machinery

- Integrated material preparation processes including pulverizing and mixing to ensure consistent resin quality
- Advanced drying and thermal control systems maintaining stable moisture levels and processing conditions
- Precision mold temperature control ensuring consistent quality and dimensional accuracy

Molding Process

Plastic Resin Feeding

High-Precision Injection Molding

Automated Pick-and-Place System

Advanced automation technology enables precise material control, high-accuracy molding performance, and seamless robotic handling throughout production, ensuring consistent quality, manufacturing stability, and enhanced production efficiency.

Precision Inspection & Quality Assurance

Advanced microscopic inspection and strict quality control procedures are integrated throughout the production process to ensure product precision, terminal coplanarity, and zero-defect quality standards before shipment.

Intelligent Automation

- Automated optical inspection process
- High-speed inline detection
- Reduced manual inspection dependency
- Stable and repeatable inspection workflow

Precision Vision Detection

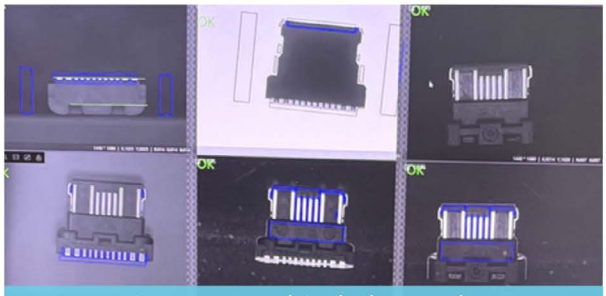
- High-resolution CCD image capture
- Micron-level defect identification
- Accurate dimensional & appearance inspection
- Multi-angle visual verification capability

Real-Time Quality Control

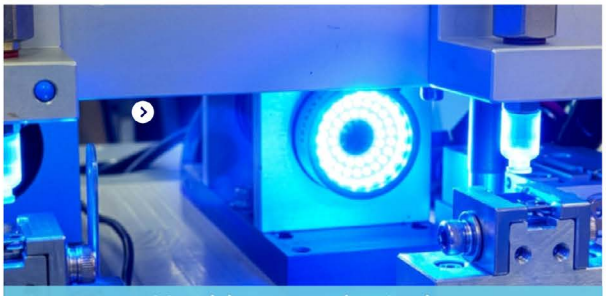
- Instant defect monitoring & feedback
- Continuous production quality tracking
- Data-driven inspection management
- Early anomaly detection & process optimization

Advanced Microscopic Analysis

- Fine-detail surface examination
- Micro defect & contamination analysis
- Enhanced inspection under magnification
- Failure analysis & quality verification support



AOI – Automated Optical Inspection



CCD Vision Inspection Station

Digital Microscope Inspection Station

Real-Time Quality Monitoring

Visual Inspection Line

Microscopic Product Inspection

Automatic Assembly Workshop

Our Automatic Assembly Workshop combines intelligent automation, precision assembly, and stable production processes to ensure high efficiency, consistent quality, and reliable manufacturing performance.

Workshop Machinery

- Fully and semi-automatic assembly systems enabling high-efficiency, scalable production with flexible capability for both stable mass production and complex assembly processes
- Automatic tapping systems ensuring precise, repeatable threaded processing with high productivity
- Automated inspection and packaging systems integrating quality detection and final packing for improved efficiency and reliability

Key Advantages

Intelligent Automation
Highly automated production ensuring stable quality and reliable delivery.

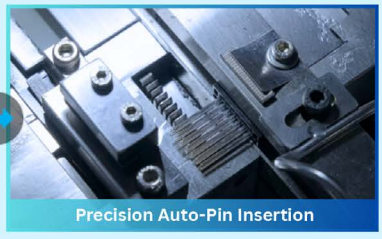
Precision Manufacturing
Capable of handling high-precision and technically demanding products.

In-House Equipment Development
Independently designed and developed machinery for optimized production efficiency.

Automatic Assembly Process


Positioning & Vision Inspection


Automatic Reeling & Feeding


Precision Auto-Pin Insertion

Integrating precision positioning, continuous feeding, and high-speed pin insertion, the system uses vision-guided alignment and automatic reel-fed terminal supply to ensure stable, accurate, and reliable terminal insertion.

Cable Assembly Workshop

Customized Engineering Solutions
End-to-end customized cable assembly design and manufacturing services.

Advanced Industrial Applications
Cutting-edge technology for high-end industrial equipment and system integration.

Flexible & Responsive Production
Support for small-batch, multi-variant, and fast sample order requirements.

Laboratory and Testing Capabilities

Mechanical

- Normal Force
- Mating / Unmating Force
- Retention Force
- Bending / Twisting Test
- Hardness Test
- Life Test
- Vibration Test
- Mechanical Shock Test
- Dimensional Measurement
- Geometric Accuracy Analysis
- Assembly Alignment Inspection

Electrical

- Contact Resistance
- Plating X-ray
- Insulation Resistance
- In-Process Sensor
- Dielectric Withstand Voltage
- Current Rating
- High Speed Test Instrument
- High-Temp Electrical Aging Test
- Thermal Stress Electrical Stability

Environmental

- Salt Spray Test
- Cyclic Humidity Test
- Thermal Shock Test
- XRF (RoHS)
- Steam Aging Test
- Resistance to Solder Heat Test
- Mixed Flowing Gas Test
- Porosity Test
- Low-Temperature Simulation
- Temperature & Humidity Electrical Test
- Environmental Aging Test

Equipment

RoHS Detector

RoHS Testing Equipment

Low Resistance Tester

Mating & Unmating Force Tester

Microscope Hardness Tester

Electric Tensile Strength Tester

Vertical Plug and Pull Force Tester

2.5D Projector

Projector

Salt Spray Test Machine

Projector

Film Thickness Gauge (Fischer)

Cable Assembly Workshop Equipment

Equipment


Automatic Computer Thread Cutting Machine


3F Peeling Machine


Core Stripping Machine


Soldering Machine


Silent Terminal Machine


Fully Automatic Computer Cutting Machine


CNC Winding Machine


Terminal Pressing Machine

Wire Comprehensive Tester


High Voltage Tester


10T Pneumatic Pressure Terminal Machine


Tubular Terminal Machine

Dust Free Workshop

In addition, cleanroom manufacturing further supports high-reliability and high-precision applications, ensuring compliance with stringent industry standards and quality requirements.

High-Standard Cleanroom Certified to Industry Standards

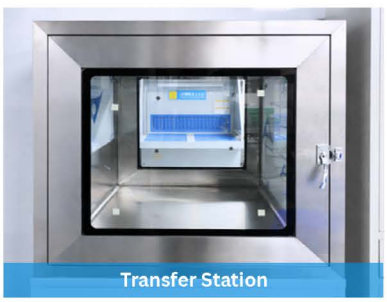

Automation Equipment


Manual Assembly and Full inspection Line

Strict Cleanliness Requirements


Air Shower


Grinding Dust Removal Table


Transfer Station

To contact us, scan the QR code to reach our website inquiry form.

adam-tech.com

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