DAEGUN

We will explore new markets based on the
convergence system capabilities
Leading the flow of future industries.



Aviation · Defense



Mobility

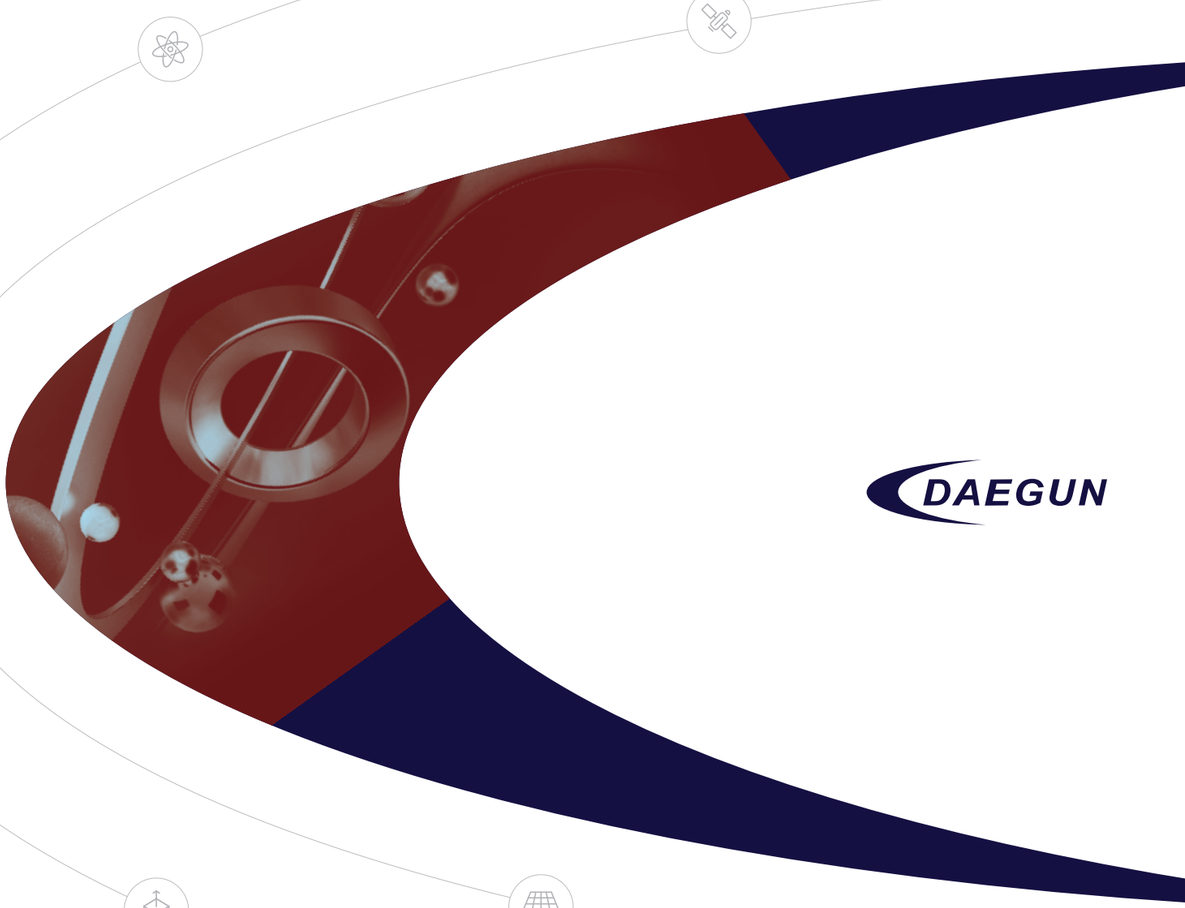
Energy

Industrial module

055-250-8000
138 Sahwa-ro, Uichang-gu, Changwon-si, Gyeongsangnam-do (42-3)
E-Mail_daegun@daeguntech.co.kr
daeguntech.com dpert.com (3D printing)

Connecting Industries, Integrating the Future

DAEGUNTECH

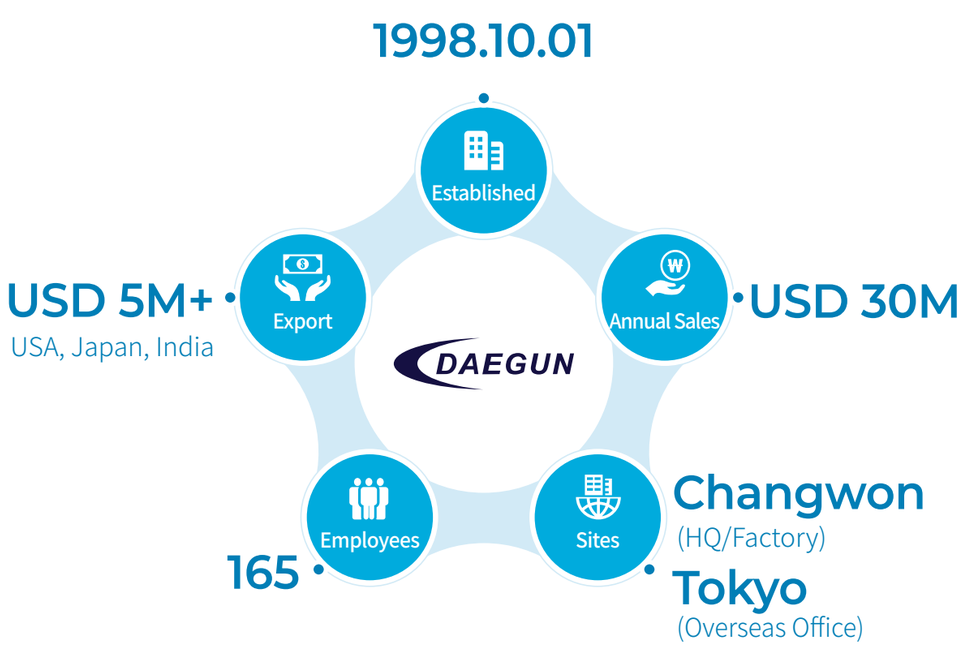


DAEGUN

DAEGUN

Connecting Industries,
Integrating the Future





We redefine design beyond manufacturing limits.

We realize complex geometries that are difficult to achieve with conventional machining through **Metal Additive Manufacturing** (PBF).
We begin with AM-built structures and integrate cable harnesses and electrical modules to create new hybrid parts and modules with enhanced functionality.

BUSINESS SECTORS

- Metal AM (Metal Additive Manufacturing)
- Cable Harness (Aerospace/Defense & Industrial Electrical Modules)
- Equipment Systems (Electrical Systems Design & Assembly)

BUSINESS HIGHLIGHT

We operate in a single flow—from design through manufacturing, validation, and mass production.

With Korea's first **large-scale Metal AM platform** and proven harness quality, combined with DX (line simulation, APS, AI QC), we shorten development lead-time and verify reliability with data.

01

We developed and operate one of Korea's largest metal AM platforms.

We independently develop 800×800×800 mm-class metal AM systems, controlling design, motion, and software in-house. With integrated designs for large, multi-channel, and lightweight structures, our platform provides stronger IP/security protection than foreign equipment.

02

Documented quality and global certifications.

Quality is proven through records. Based on AS9100, ISO9001/14001, and DQMS standards, we provide complete validation packages including FAI, CoC, CT scans, test coupons, and build reports ensuring globally verifiable quality data.

03

High-Reliability Cable Harness 100% Inspection & Full Traceability

We guarantee complete traceability with full inspection across material, process, and test records. All products undergo labeling, continuty, insulation, and functional testing. Shipment includes FAT and on-site verification, ensuring stable delivery without delay.

04

DX & Smart Factory Optimized from the Design Stage

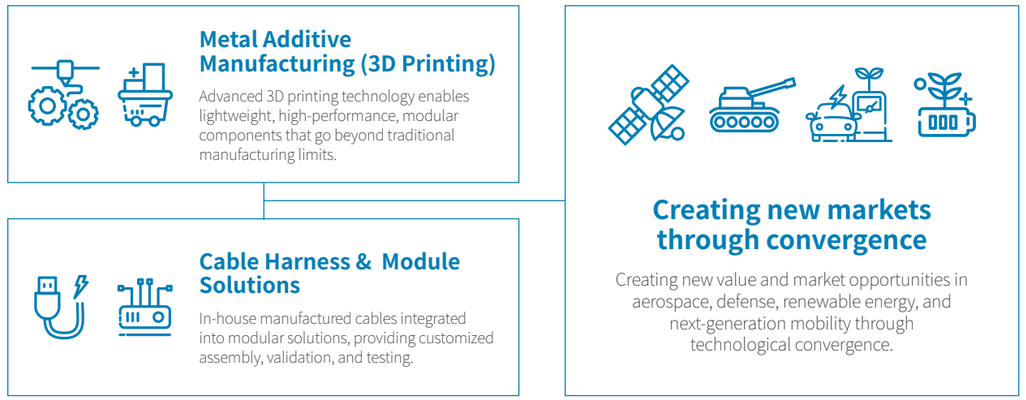
Using AI simulation and APS, we predict line balancing early in the process and secure optimized productivity from the design stage.

DaegunTech, Connecting Industries, Integrating the Future

Building on our proven expertise in precision cable assembly, DaegunTech combines next-generation 3D printing technology to unlock entirely new possibilities.
We go beyond simple component supply to deliver customized solutions and modular products that exceed customer expectations and redefine the limits of conventional industries.

Our vision for the future is not just a shift in manufacturing methods but a **redefinition of the entire manufacturing ecosystem**. The convergence of cable assembly and 3D printing enables lightweight, high-performance, and modular next-generation components, creating new markets across aerospace, defense, renewable energy, and next-generation mobility.

Through these innovations, DaegunTech will deliver greater value to customers while rising as **a global leader in pioneering new markets and creating new businesses.**
We are setting new standards in manufacturing and positioning ourselves as a trusted partner guiding the industries of the future.



Metal AM



Beyond the limits of machining, achieving both performance and speed.

Expanded Manufacturing Capability through Metal AM

PBF-based metal additive manufacturing enables complex geometries such as internal cooling channels and lightweight lattice structures.

High-Speed, High-Precision Output Technology

Equipped with four high-power lasers, DaegunTech's AM systems deliver up to 3x faster build speed compared to conventional machines, while ensuring dimensional accuracy and repeatability.

Integrated Design, Manufacturing, and Verification

We manage the entire process from design, printing, post-processing, to inspection in a unified flow. Comprehensive verification systems including CT scans, dimensional inspection, mechanical testing, and FAI are applied in compliance with defense, aerospace, and nuclear industry standards.

Applicable Materials & Post-Processing

Supports Ti, Al, Inconel, Cu, and other alloys, with complete post-processing including HIP, heat treatment, machining, and surface finishing.

DAEGUNTECH AM - 3D Printing

World's Largest-Class 3D Printer, Developed with Proprietary Korean Technology.

Designed and manufactured in Korea, DaegunTech delivers world-class performance worldwide.

Metal AM Manufacturing Capability

Process: Powder Bed Fusion (PBF) I Build Volume: 135–800 mm (WxDxH) I Up to 4 lasers for ultra-fast builds (3x faster)


<PEEK 140>


<MG 80>


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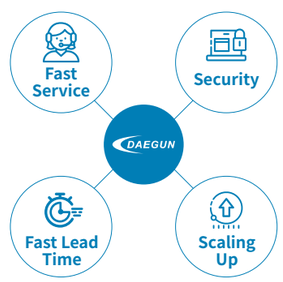

<DPERT M500>


<DPERT 800>

Key Advantages of DaegunTech 3D Printers

1. The world's largest-class metal AM printer, powered by DaegunTech's proprietary technology.
2. Capable of processing copper, titanium, aluminum, Hastelloy, Inconel, and more.
3. Proprietary UI developed in-house, optimized for local industry needs.
4. Comprehensive operator training and global-level technical support.
5. Unparalleled reliability and security through large-scale platforms.
6. Immediate service support anywhere in Korea.

▸ Built on the reliability of Korean technology, DaegunTech AM ensures enhanced security, ultra-fast productivity, and scalability, delivering unmatched performance across industries.



Aerospace Industry

Achieving Lightweight and High Durability Through Completely New Design

Launch vehicle, satellite, and aircraft components must withstand extreme temperatures, pressure, and repeated impacts. DaegunTech applies Metal AM technology with internal cooling channels, lattice structures, and integrated designs to reduce weight while simultaneously enhancing strength and fatigue life.

Our Value Proposition

Lightweight and Durability Assurance

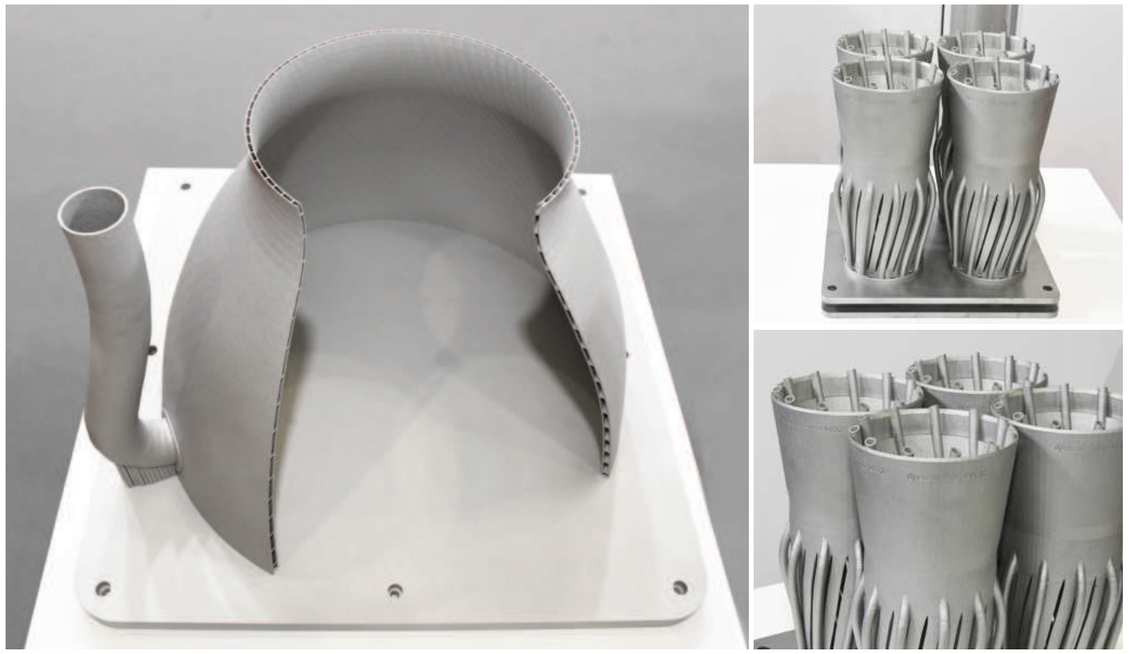
By applying metal 3D printing and direct design technology, we simplify complex aerospace structures while achieving both lightweight and high strength.

Integrated Manufacturing and Verification Management

In compliance with strict aerospace standards (such as AS9100), dedicated test specimens are applied for CT, dimensional, and destructive testing. All data is recorded in a fully traceable format, ensuring results are always reliable.

Quality and Reliability Guarantee

Through rigorous quality verification considering extreme conditions (thermal, vibration, pressure), long-term operational stability and reliability are ensured.



Defense Industry

Unshakable Reliability in Extreme Environments

By leveraging metal 3D printing, we simplify complex structures while reducing weight and enhancing durability. We apply rigorous, defense-standard verification shock, vibration, thermal, EMI/EMC with full data traceability for trusted results.
We also meet strict security and compliance requirements for defense and civil projects.

Our Value Proposition

Reflecting Requirements from the Design Stage

By leveraging metal 3D printing technology, we simplify complex structures while simultaneously achieving weight reduction and enhanced durability.

Integrated Management of Production and Validation

We apply rigorous verification processes compliant with international defense standards, completing CT, dimensional, thermal, and EMI/EMC testing. All data is recorded in a fully traceable format, ensuring results can always be trusted.

Security and Compliance Readiness

We meet the strict security and regulatory requirements demanded by both civilian and defense projects, ensuring a safe and compliant development environment.



Nuclear Industry

Localization Technology to Strengthen Energy Security and Safety

DaegunTech, with Korea Hydro & Nuclear Power (KHNP), developed, validated, and delivered the first domestically produced nuclear components using metal 3D printing. Compared to traditional casting/welding, we produced high-strength, long-life, weld-free integrated parts that cut costs by 50%, reduced lead time to 1/10, and tripled durability.

Our Value Proposition

Optimized Design for High Temperature, High Pressure, and Corrosive Environments

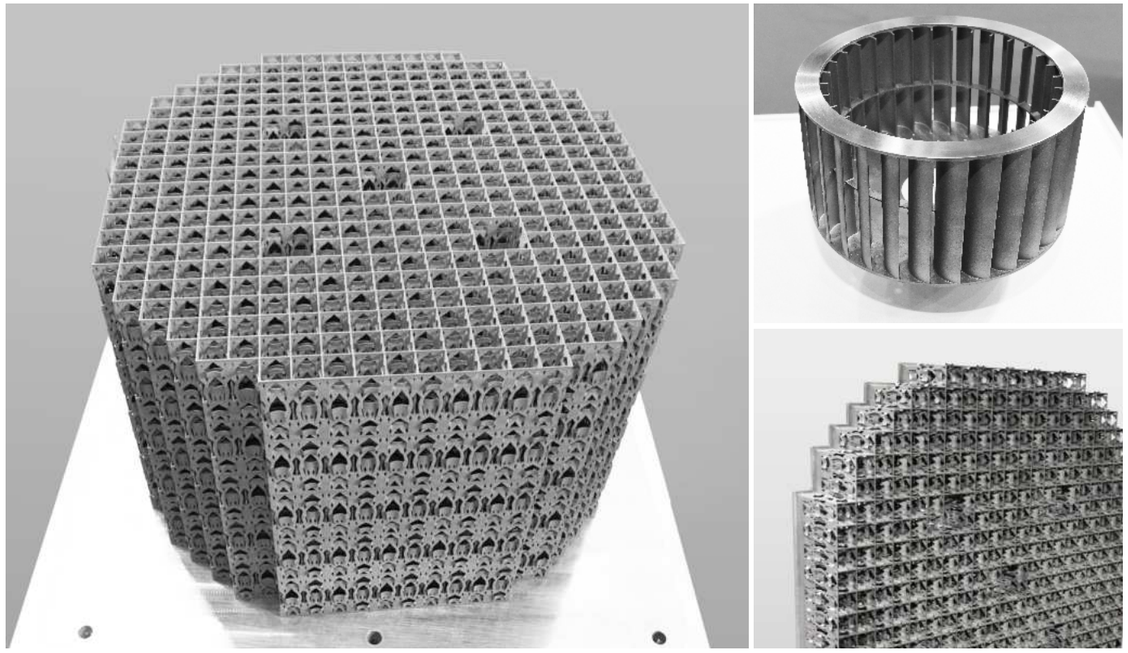
By applying internal cooling channels and lattice structures, we secure durability even in extreme environments of high temperature, pressure, and corrosion. Integrated component design reduces redundancy and repair risks, enhancing lifespan and reliability.

Integrated Manufacturing for Reduced Lead Time and Consistent Quality

Through a single-step metal AM process, we significantly shorten development and production lead times. With multi-part and multi-stage builds and multi-stage builds, we ensure higher precision and repeatability, delivering simplified and standardized quality.

Contributing to Energy Security and Safety through Localization

We stabilize the supply chain by localizing import-dependent critical components. CT/UT and tensile test reports, with a fully traceable documentation system, provide strong support for inspection and validation compliance.



Next-generation Motor and Mobility

Metal 3D Printing Solutions for High-Performance, High-Reliability Electric Motors

Next-generation motors requiring high efficiency and high output demand lightweight design, durability, and thermal management. DaegunTech leverages Metal AM to implement cooling channels and lightweight structures, enhancing power density and heat dissipation, thus strengthening competitiveness in high-efficiency motors for UAM and other future mobility applications.

Our Value Proposition

Design Optimization and Performance Enhancement

By utilizing metal 3D printing, we incorporated internal cooling channels and lightweight structures, simultaneously improving thermal management and power density of motors.

Shorter Production Lead Time with Consistent Quality

Replacing complex machining processes with single-build AM reduced lead time while ensuring uniform quality.

Enhanced Competitiveness for Next-Generation Mobility

We deliver high-efficiency, high-output motors applicable to EVs, drones, and UAMs, strengthening the competitiveness of future mobility technologies.





Connecting Technology, Securing the Future

Technology that Connects Industries, Trust that Secures the Future

DaegunTech's cable solutions go beyond simple connections, serving as essential infrastructure that ensures stability and performance across diverse industries.

Our Value Proposition

Proven reliability in extreme conditions

Stable performance under high temperature/pressure, vibration, and thermal stress; field-proven across aerospace, defense, nuclear, semiconductor, and energy.

Customized design & global compliance

Tailored cables that meet international standards; quality and compliance are verified with global partners.

Continuous innovation

Ongoing R&D strengthens our global competitiveness and readiness for future industries.

Aerospace & Defense Industry

Trusted Harnesses Powering the Future of Aerospace

Aerospace and defense systems demand absolute reliability and stability under extreme environments. DaegunTech has proven its capabilities through cable manufacturing for the Korean launch vehicle Nuriho, as well as harness and PCBA supply for the Airbus A220 program. With experience in defense projects such as vibration and environmental qualification tests, we deliver harnesses that meet stringent performance and quality requirements. All processes, from design to production and inspection, comply with AS9100 and DQMS standards, ensuring global reliability.

Key Achievements & Global Reliability

- Engine cable production and on-site integration for the Nuriho launch vehicle
- Harness and PCBA supply for Airbus A220
- AS9100, DQMS, and IPC certifications
- Production and inspection by IPC-certified operators
- Global-quality maintenance, customer support, and responsiveness





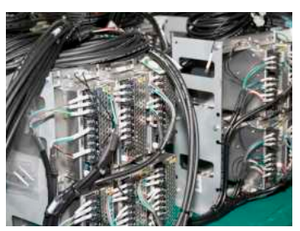
Semiconductor, Energy, UPS, and Fuel Cell

Harness Solutions Connecting Global Industrial Innovation

For over 30 years, DaegunTech has delivered proven harness solutions to industries such as semiconductor equipment, solar power, and industrial control boxes. With exports exceeding USD 5 million and ISO9001, 14001, and 45001 certifications, we maintain global-standard production and inspection systems. Through continuous technological advancement and quality innovation, we help customers strengthen their competitive edge.

Key Achievements & Manufacturing Strengths

- Annual exports exceeding USD 5 million
- Mass production and supply of harnesses for semiconductor equipment
- Harness solutions for ESS and UPS systems
- Electrical modules for industrial control systems and specialized machinery









One-Flow Turn-Key : Cable to Completion

One-Flow Turn-Key: From Cable to Completion

DaegunTech manages the entire process in one seamless flow: in-house cable production → wiring and module assembly → functional testing (FAT) → on-site installation and commissioning. Standardized wiring, labeling, torque/crimping ensure minimal variation, while ECN/ECR-based change control and quality gates (Incoming → In-process → Functional → Final inspection) guarantee consistent results. We also provide traceability and identical quality worldwide through documentation (CoC, FAT, Build Reports).

Our Value Proposition

Field Readiness

On-site installation, commissioning support, early run-up stabilization, and interface tuning

Documentation & Change Control

ECN/ECR, drawings, labels, standards, and inspection checklists

Integrated Interface Management

Comprehensive control of electrical/signal/safety interfaces between cables and equipment

Complete Traceability

100% inspection, record management, and reporting to prove quality with data

Control Box

Standardized Assembly with Proven Reliability

Control boxes for machine tools and production equipment are assembled in compliance with international and in-house standards. In-house cables are integrated with wiring, labeling, torque/crimping, insulation, and dielectric tests to ensure strict adherence to safety and functional requirements. Quality is proven through complete traceability and FAT reports, while integrated cable–equipment interface management ensures seamless on-site deployment.

Key Strengths

- Turn-key interfaces : I/O, interlock, and safety-circuit verification with TEST BENCH integration
- Standardized assembly : Wiring/labeling, torque/crimping, circuit & load checks; ESD/cleanroom compliance
- Change & record management : Unified control of hardware drawings, labels, and part specifications
- Quality gates : Full inspection across all stages (Incoming → Process → Functional → Final), unit inspection reports, QR code tracking
- Field support : On-site installation & commissioning, customer-driven changes, maintenance guides & operator training, emergency support



SMT / Chip Mounter

Integrated Module & Harness Assembly for Stable Operation

We integrate mechanical and harness modules for SMT/Chip Mounter lines. All cables (Power, Conveyor, Spindle, Pump, Axis) are manufactured in-house and assembled to routing standards, followed by a 12-hour continuous run test to ensure stable line operation.

Key Strengths

- Cable assemblies : Mass production of power/conveyor/spindle/pump/axis cable groups
- Complete system assembly : Precision alignment (flatness, parallelism, straightness), harness inspection, system setup, and 12-hour run test
- Standardization : ESD/cleanroom compliance, LOCTITE application, I-marking, torque/fastening standards, work instructions
- Testing & documentation : Inspection reports, process checklists, FAT & CoC package delivery
- Field integration : Early-failure analysis, ECN/ECR-based change tracking, continuous-improvement feedback

