YOUR TRUSTED GLOBAL PARTNER FOR PRECISION CUSTOM FASTENERS

Hebei KeyFix Trading Co., Ltd.

KEYFIX

COMPANY PROFILE

KEYFIX: The Key to Precision Fastening Solutions

With over 20 years of experience in the fastener industry, KEYFIX has grown since its founding in 2005 into a trusted partner for custom fastener solutions across the automotive, machinery, and electronics industries. Backed by precision engineering to ±0.001mm and a 0 PPM quality standard, we deliver stable, accurate, and fully traceable fastener solutions to 100+ major projects across 20+ countries.

Supported by an experienced engineering team of 20+ specialists, KEYFIX continues to drive product innovation through process excellence — helping manufacturers strike the right balance between design validation, cost optimization, and volume delivery.

KEYFIX at a Glance

120+
Total Employees

20+
Engineering & Technical Team

10,000+ M²
Factory Area

USD 30 MILLION+
Annual Revenue

Our Core Strengths

Customization — Tailored solutions engineered around your specifications

Reliability — Stable quality and on-time delivery, verified batch by batch

Expertise — Automotive-grade engineering backed by 20 years of know-how

Traceability — Full-process transparency from raw material to final part

Our Mission

Every Fastener, Engineered to Fit

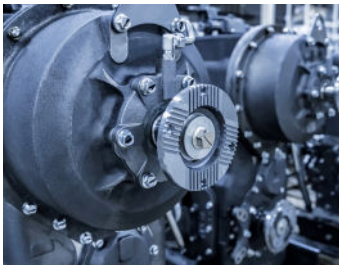
Turning Custom Requirements into Reliable Supply — for Every Manufacturer We Serve

KEY MARKETS & APPLICATIONS

Custom Fastener Solutions, Engineered for Every Industry We Serve

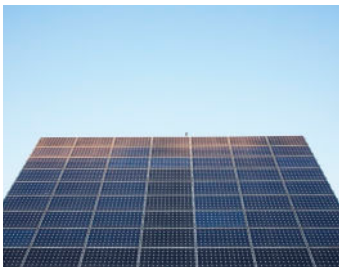
AUTOMOTIVE

Custom-engineered high-strength bolts, flange nuts, and precision fasteners for engine, chassis, and EV battery pack assembly. Tailored to each customer's design requirements, torque specifications, and IATF 16949 quality standards — supporting the demands of lightweighting and electrification.



MACHINERY & EQUIPMENT

Custom-engineered heavy-duty bolts and structural fasteners developed to customer drawings for industrial machinery, construction, and mining equipment. Every solution is engineered for the specific load, vibration, and stress conditions of the application.



NEW ENERGY (WIND & SOLAR)

Application-specific high-strength bolts for wind tower flanges, blade hubs, and solar mounting systems. Customized alloys and anti-corrosion coatings are selected to match each project's environment — ensuring 20+ years of outdoor service reliability.

ELECTRONICS & ELECTRICAL EQUIPMENT

Precision micro screws (down to M1), custom shafts, and spacers designed to customer specifications for consumer electronics, appliances, and telecom hardware. Delivering tailored finishes, tolerances, and packaging solutions for high-mix, high-precision assembly.

AEROSPACE

Custom-engineered titanium and high-temperature alloy fasteners developed for flight-critical applications in airframes, engines, and launch vehicles. Each part is engineered, tested, and traced to meet the unique certification and quality requirements of every program.

GLOBAL FOOTPRINT

Serving Manufacturers Across Continents

KEYFIX delivers custom fastener solutions to automotive, machinery, new energy, electronics, and aerospace manufacturers worldwide — with exports reaching **North America, South America, Europe, Central Asia, and Southeast Asia**, and growing.

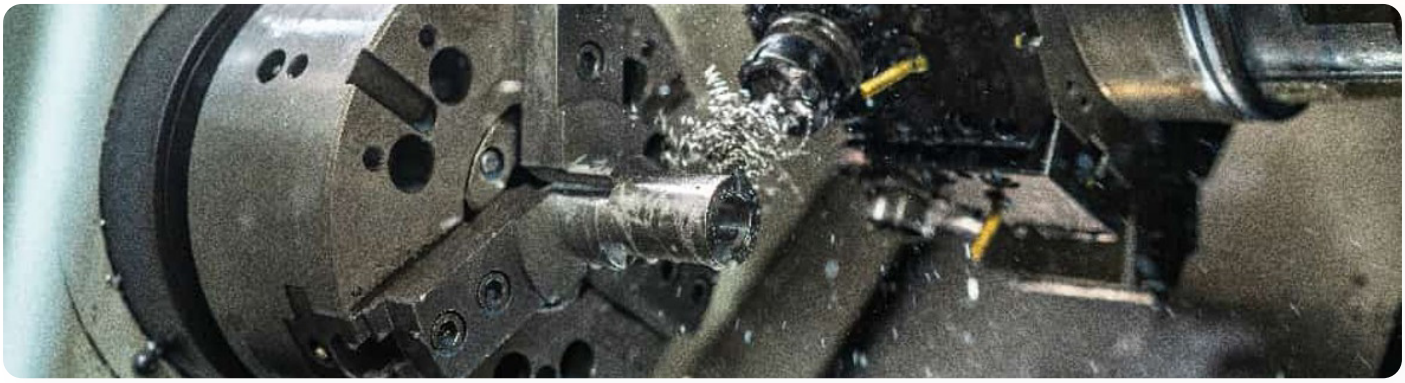
Key Markets

CORE MANUFACTURING CAPABILITIES

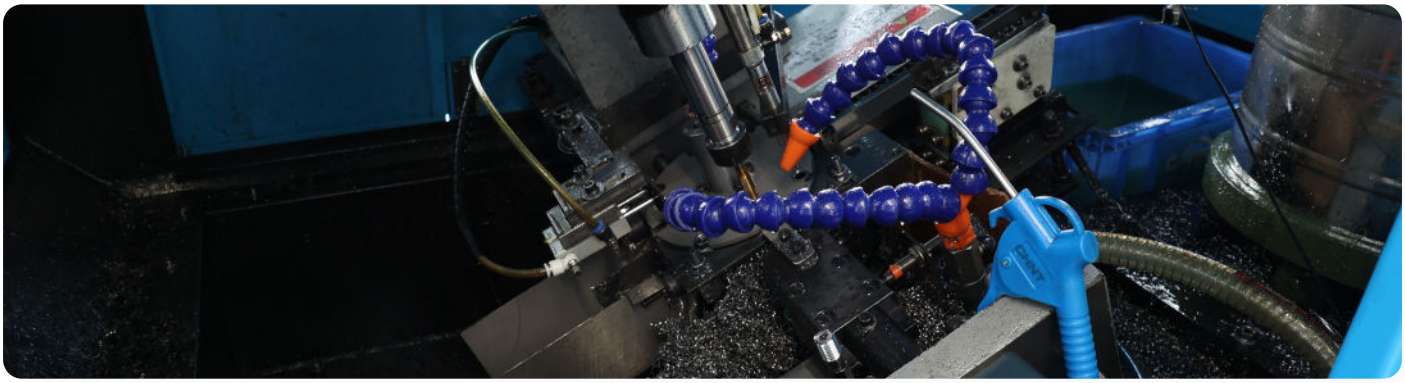
Engineered for Precision. Built for Customization.

Four core manufacturing processes — fully integrated in-house — deliver custom fastener solutions to exact customer specifications, from prototype to volume production.

Precision CNC Machining 01



Advanced Cold Forging 02



Precision Metal Stamping 03

MATERIAL EXPERTISE

CARBON & ALLOY STEEL — *High-Strength Fastening & Structural Durability*

GRADE	KEY CHARACTERISTICS	IDEAL APPLICATIONS
1022 / 1022A	Mn-enriched low-carbon steel; excellent coldheading formability	Self-tapping screws, Class 4.8/5.8 fasteners
42CrMo4	Cr-Mo quenched & tempered; superior fatigue strength & toughness	Wind-turbine bolts, auto chassis, heavy machinery
35CrMo	Medium-carbon alloy; high static & creep strength at extreme temps	Grade 10.9 bolts, pressure-vessel fasteners

STAINLESS STEEL — *Corrosion Resistance for Industrial & Marine Environments*

GRADE	KEY CHARACTERISTICS	IDEAL APPLICATIONS
SS 304	Austenitic 18Cr-8Ni; great formability & atmospheric corrosion resistance	Food, medical, architectural, general industrial
SS 316	Mo-enhanced; superior chloride pitting & crevice corrosion resistance	Marine, chemical processing, pharmaceutical
Duplex 2205	Dual-phase; ~2× the yield strength of austenitic grades	Offshore oil & gas, high-pressure equipment, desalination

SPECIALTY ALLOYS — *Lightweight, High-Performance & Aerospace-Grade*

GRADE	KEY CHARACTERISTICS	IDEAL APPLICATIONS
Aluminum 7075-T6	Aerospace-grade high-strength; steelcomparable strength-to-weight	Aerospace structural fasteners, racing components
Aluminum 6061-T6	Mg-Si alloy; excellent corrosion resistance & weldability	Auto lightweighting, marine hardware, electronics
Brass	Cu-Zn alloy; conductive, non-magnetic, nonsparking	Electrical terminals, plumbing, explosion-proof parts
Ti-6Al-4V	Grade 5 titanium; 40% lighter than steel, exceptional corrosion resistance	Aerospace, jet engines, medical implants, F1 parts

SURFACE TREATMENT & COATING

Engineered Protection, Tailored to Every Environment

The right surface treatment is critical to fastener performance and service life. KEYFIX offers a comprehensive range of coatings and platings — each selected to match the corrosion resistance, appearance, and environmental requirements of the target application.

Core Surface Treatments

Zinc Plating

Salt Spray

72 - 200 HRS

Cost-effective corrosion protection for indoor and general industrial applications.

Zinc Plating

Hot Dip Galvanizing

Hot Dip Galvanizing

Salt Spray

500 - 1,000+ HRS

Heavy-duty zinc coating for outdoor structures, construction, and infrastructure fasteners.

Black Oxide

Salt Spray

2 - 24 HRS

Decorative black finish with mild corrosion resistance and reduced light reflection.

Black Oxide

SURFACE TREATMENT & COATING

Dacromet

Dacromet

Salt Spray

480 - 1,000 HRS

Chromium-free zinc-aluminum coating for high-strength automotive and wind power fasteners.

Ruspert

Ruspert

Salt Spray

1,000 - 1,500 HRS

Multi-layer coating combining zinc, ceramic, and resin for premium corrosion resistance in harsh environments.

Teflon (PTFE)

Teflon (PTFE)

Salt Spray

500 - 1,000 HRS

Low-friction, chemical-resistant coating for specialized industrial and marine applications.

SURFACE TREATMENT & COATING

Full Salt Spray Test Reference

Plating Type	Salt Spray (Hours)
Zinc-Nickel Plating	1,000+ / up to 1,500 hrs
Magni	300 / 500 hrs
PVD	96 hrs
Black Zinc	48 / 96 hrs
Electrophoresis	48 / 72 hrs
Anodize	24 / 48 hrs
Tin Plating	24 / 48 hrs
Green / Yellow / Red Zinc	24 / 48 hrs
White / Blue / Color Zinc	4 / 8 / 12 / 24 / 48 / 72 / 240 hrs

Plating Type	Salt Spray (Hours)
Silver / Black Nickel	4 / 12 / 24 hrs
Brass Plating	12 / 24 hrs
Silver Plating	12 / 24 hrs
Gold Plating	12 / 24 hrs
Chrome Plating	4 / 8 / 24 hrs
Brass Plating (Thin)	2 hrs
Electroless Nickel Plating	2 hrs
Painting	12 / 24 / 48 hrs

PRODUCT PORTFOLIO

CNC PARTS

CNC PARTS

SCREWS

NUTS

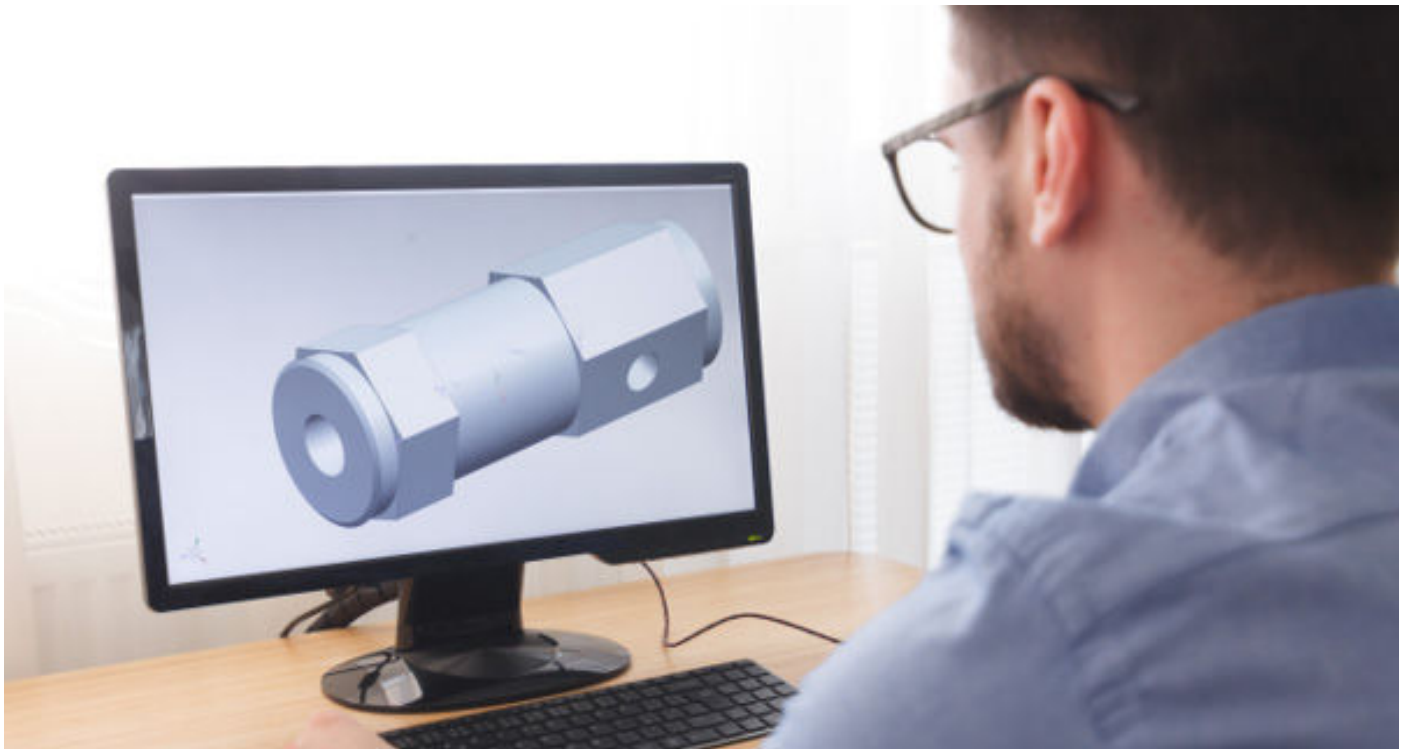
R&D CAPABILITIES

Engineering Excellence at the Core of Every Custom Solution

R&D CAPABILITIES & VALUE

Our engineering capabilities translate directly into measurable value for our customers — from faster development to lower cost and full automotive compliance.

Collaborative Design & Customized Development	→	**Reduced Development Cycle**
Feasibility Study & Engineering Analysis	→	**Optimized Total Cost**
Manufacturability Analysis & Design Optimization	→	**First-Time-Right Engineering**
Prototyping & Process Industrialization	→	**Automotive Standards Compliance (IATF 16949 · APQP · PPAP)**



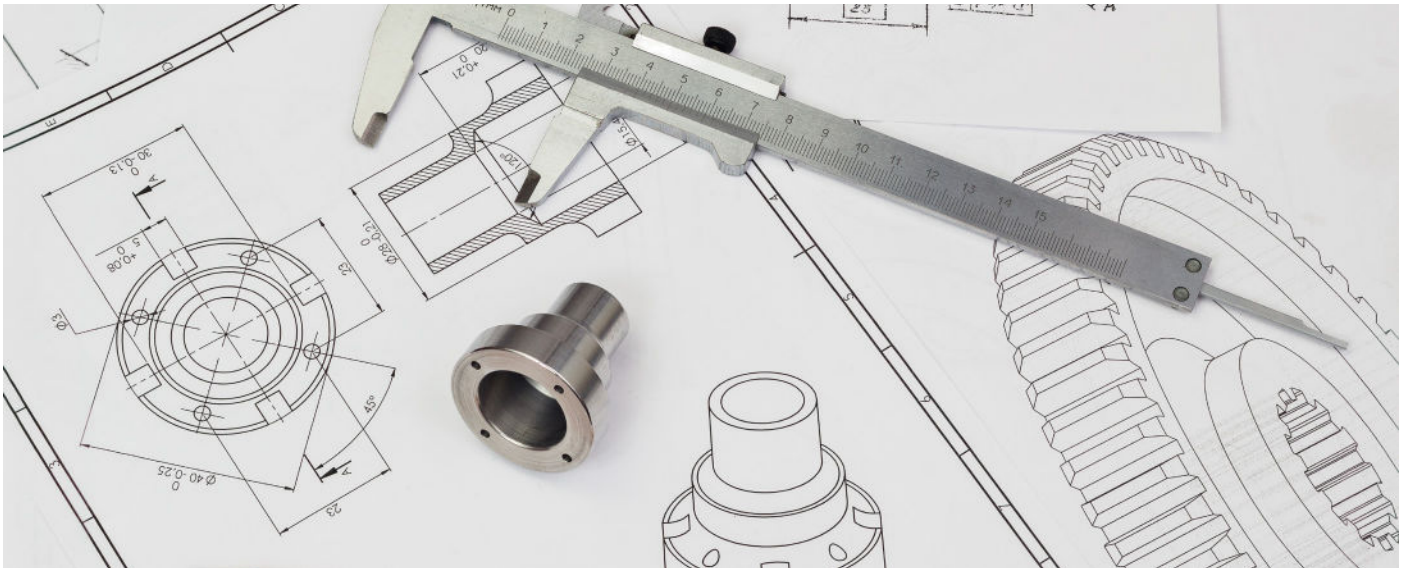
R&D CAPABILITIES

COLLABORATIVE DESIGN & CUSTOMIZED DEVELOPMENT

From concept to production, our engineering team partners with customers to translate design intent into manufacturable, cost-optimized fastener solutions.

Core Modules

- Product & Process Design
- Tooling & Fixture Design
- Co-Design with Customer Engineering Teams
- Equipment Adaptation & Development



CERTIFICATIONS & STANDARDS

Quality Systems Aligned with Global Manufacturing Standards

KEYFIX has established a comprehensive quality management system built around internationally recognized certifications, a full suite of in-house testing capabilities, and rigorous process control at every stage of production. This commitment ensures that every custom fastener we deliver meets — and consistently exceeds — the quality expectations of our global customers.

IATF 16949:2016

ISO 9001:2015

ISO 14001:2015

nqa.

LETTER OF CONFORMANCE

NQA Ref: CL1637
IATF LoC: 0576727-LoC

01 July 2025

Building 22, Wanyang Innovation City, Tangwei, Baishabu Mountain, Daling Street, Huidong County, Huizhou City, Guangdong Province, China
(IATF USI: G6TC6G)

Dear Client,

This is to confirm that the Quality Management System of:

at

Building 22, Wanyang Innovation City, Tangwei, Baishabu Mountain, Daling Street, Huidong County, Huizhou City, Guangdong Province, China

applicable to:

"Manufacture of metal fasteners and precision hardware components (turned parts, machined parts)"

Has been assessed against the provisions of:

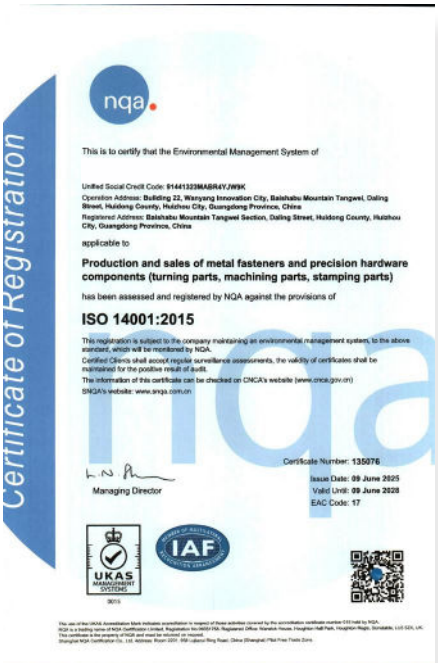
IATF 16949:2016

and has found to be compliant with the above assessment criteria.

This Letter of Conformance is valid until "30 June 2026"

Yours Sincerely,

Stephen Barnes
Automotive Operations Manager



Certificate of Registration

nqa.

This is to certify that the Environmental Management System of

Unified Social Credit Code: **91441323MABR4YJW9K**
Operation Address: **Building 22, Wanyang Innovation City, Baishabu Mountain Tangwei, Daling Street, Huidong County, Huizhou City, Guangdong Province, China**
Registered Address: **Baishabu Mountain Tangwei Section, Daling Street, Huidong County, Huizhou City, Guangdong Province, China**

applicable to

Production and sales of metal fasteners and precision hardware components (turning parts, machining parts, stamping parts)

has been assessed and registered by NQA against the provisions of

ISO 14001:2015

This registration is subject to the company maintaining an environmental management system, to the above standard, which will be monitored by NQA.
Certified Clients shall accept regular surveillance assessments, the validity of certificates shall be maintained for the positive result of audit.
The information of this certificate can be checked on CNCA's website (www.cnca.gov.cn)
SNQA's website: www.snqa.com.cn

Certificate Number: **135076**

Managing Director

Issue Date: **09 June 2025**
Valid Until: **09 June 2028**
EAC Code: **17**

UKAS MANAGEMENT SYSTEMS
IAF

nqa.

LETTER OF CONFORMANCE

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IATF LoC: 0576727-LoC

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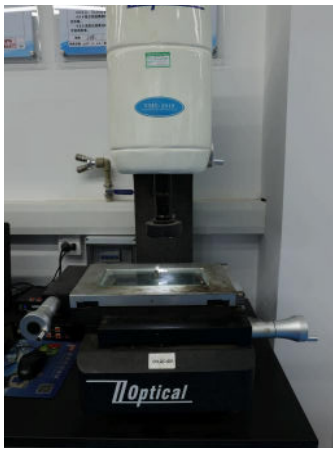
DIMENSIONAL & MECHANICAL TESTING

- Optical Projector
- 2.5D Measuring Machine
- Concentricity Tester
- Surface Roughness Tester
- Hardness Testing Suite
- Universal Testing Machine
- Torque Coefficient Tester



METALLURGICAL & CORROSION TESTING

- Salt Spray Test Chamber
- Spark OES Spectrometer
- Metallographic Mounting Press
- Metallurgical Cutting Machine
- Metallurgical Grinding & Polishing Machine

STORAGE AND LOGISTICS

PACKAGING & LOGISTICS

From Warehouse to Assembly Line — Delivered with Care

KEYFIX safeguards quality across the entire packaging and delivery process — pairing international-standard export packaging with a comprehensive global logistics network that gives your production line the delivery certainty it demands.

TRANSPORT MODES

Sea · Air · Rail
Matched to your cost and lead-time requirements

INCOTERMS SUPPORTED

FCA · FOB · CIF
DAP · DDP

Global Logistics & Delivery Capabilities

01 **Door-to-Door Service** — Established freight-forwarding network covering most major markets

02 **Cost Efficiency** — Leveraged rates across ocean, air, rail, customs clearance, and warehousing

03 **Flexible Commercial Terms** — DDP invoicing and 3PL (third-party logistics) support

05 **Quality Inspection** — Every custom order inspected before packing to ensure perfect condition

06 **Export Packaging** — International-standard, recyclable, and eco-friendly materials

07 **Customized Packaging** — Labeling, marking, kitting, and inventory-ready formats

ESG · ENVIRONMENTAL

Green Manufacturing Builds a Low-Carbon Future

KEYFIX believes that quality manufacturing and environmental responsibility go hand in hand. As a trusted supplier to global manufacturers, we are committed to reducing our environmental footprint through concrete initiatives across our operations.

Greenhouse Gas Emissions

CO_2 Reduction Target: -3% by 2028
Based on industry benchmarks for the fastener and steel manufacturing sector, KEYFIX actively monitors and reduces greenhouse gas emissions across its operations, contributing to a lower-carbon supply chain.

Paperless Office Work

Reducing Paper Consumption
Daily operations are increasingly conducted through digital systems such as ERP, MES, and cloud-based document management — reducing paper use by 50% compared to 2022 and streamlining internal workflows.

Solar-Powered Office Operations

Clean Energy for Daily Operations
KEYFIX has deployed rooftop solar photovoltaic systems to power its office facilities, replacing conventional grid electricity with renewable energy and significantly reducing the carbon footprint of daily operations.

Energy Saving

Continuous Efficiency Improvement
Through upgraded equipment, LED lighting, and optimized production planning, KEYFIX has reduced per-capita energy consumption by 15% compared to the industry average.

ESG · SOCIAL

Building Shared Value with Our People and Communities

Community Welfare & Public Engagement

KEYFIX is committed to giving back to the communities where we operate. We regularly visit and support local welfare institutions, elderly care homes, and organizations serving children with special needs — believing that meaningful community engagement is part of what it means to be a responsible business.

Education Support for Underserved Areas

Since 2020, KEYFIX has been donating teaching equipment, learning materials, and financial support to schools in rural and underserved regions. Our long-term commitment to education reflects our belief that lasting social value comes from investing in the next generation.

Employee Development & Wellbeing

Our people are the foundation of our precision. KEYFIX invests in continuous training, safe workplace practices, and career development opportunities — ensuring that every team member grows alongside the company.

Ethical Business Practices

KEYFIX upholds transparent, ethical business conduct across all customer, supplier, and partner relationships — building trust as the foundation of every long-term partnership.

Every Fastener,
Engineered
to Fit

HEBEI KEYFIX TRADING CO., LTD.

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Email: sales@keyfixpro.com

Website: www.keyfixpro.com

Website