



INTEGRATED INDUSTRIAL SOLUTIONS

From Sourcing to Application

**Comprehensive supply and operation
solutions for industrial facilities,
combining sourcing efficiency with
field application excellence.**

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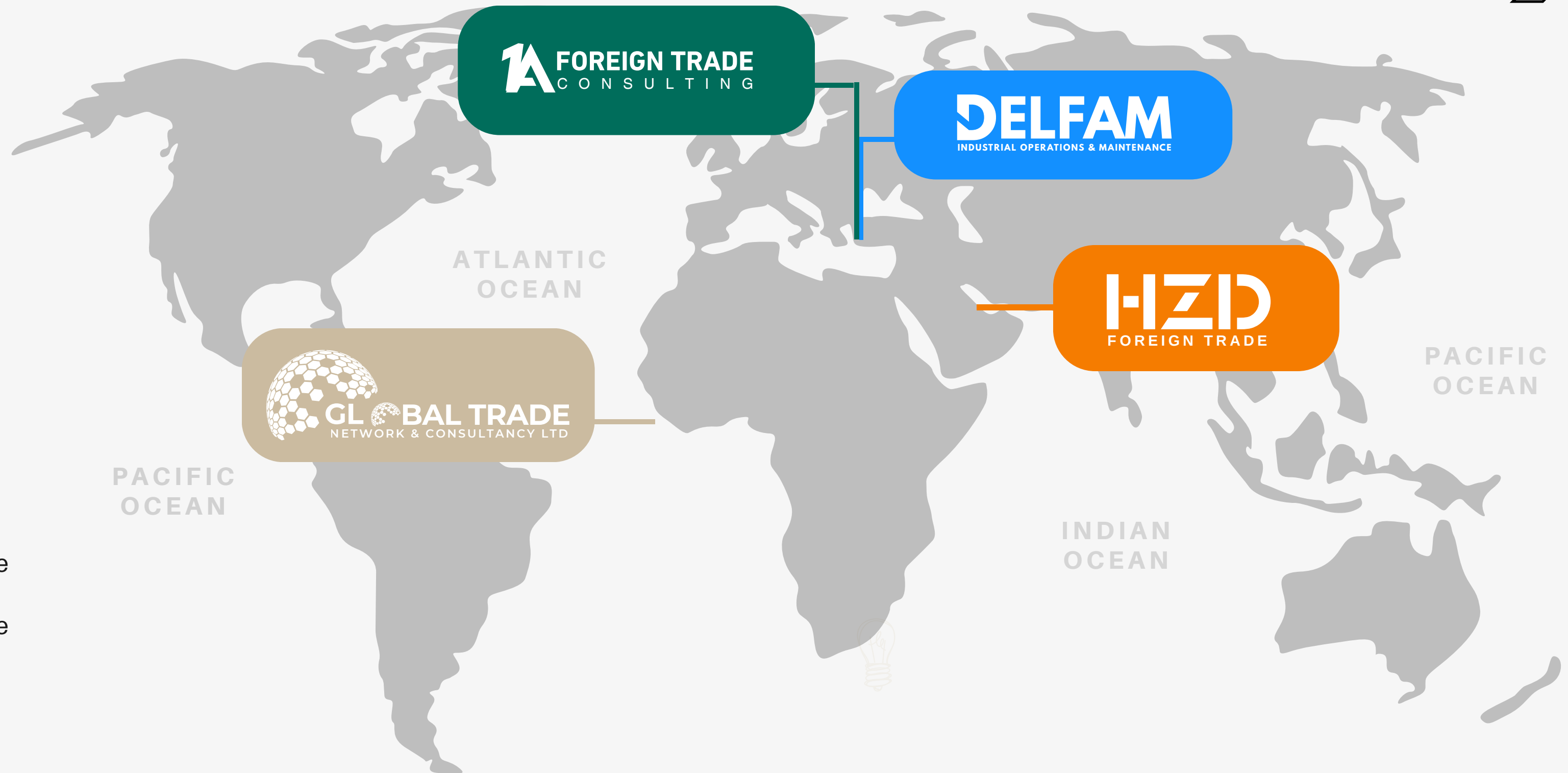
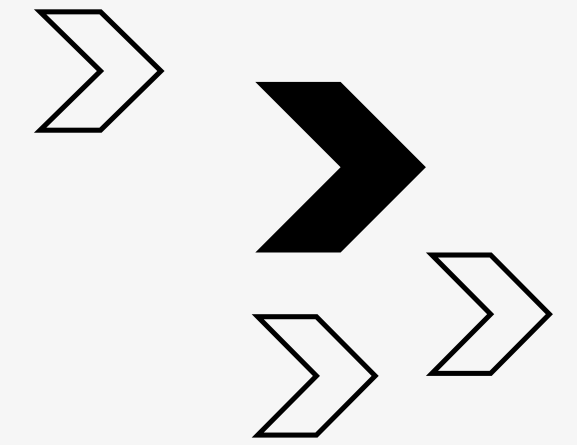
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Group of Companies

Integrated Industrial, Chemical, Technical and Trade Solutions







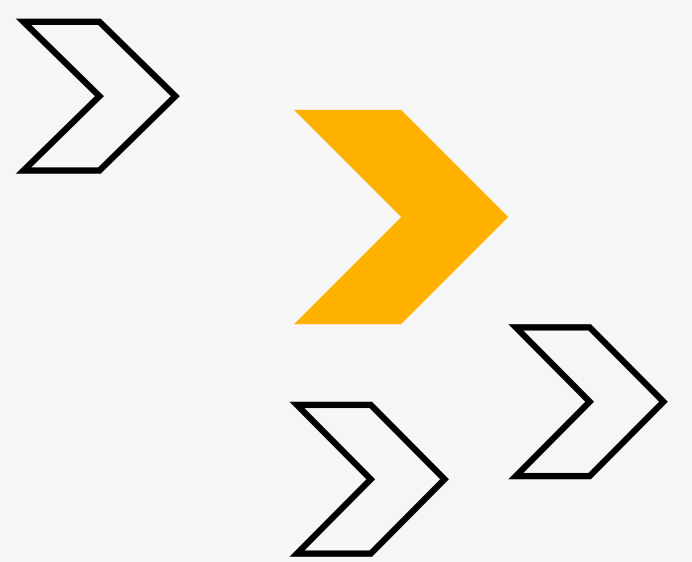
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INTEGRATED INDUSTRIAL SOLUTIONS

From industrial production to chemical systems, maintenance services, and advanced technologies – a wide range of integrated solutions are offered. With strong engineering capability and technical expertise, comprehensive solutions are delivered for industrial projects. Expertise covers fittings, flanges, coating systems, maintenance operations, chemical products, and consumable materials, emphasizing reliability, quality, and sustainability.



SOURCING

Integrated Industrial Supply & Manufacturing

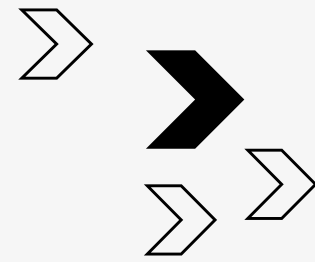


We deliver complete sourcing and industrial supply solutions that connect manufacturing, engineering, and logistics under one integrated system. Our product portfolio includes fittings, flanges, fasteners, gaskets, coatings, and insulation materials – all produced and supplied according to international standards.

CHEMICAL PRODUCTS & COATING SYSTEMS



- Designed for metal surface protection using primer + topcoat layers
- Alkyd-based, single-component, air-drying paints.
- Provides strong adhesion and smooth film formation.



01

Industrial Performance Line (Economy Class)

- Economical systems suitable for standard industrial applications
- Fast drying, easy application, moderately corrosive environments (C1-C2)

02

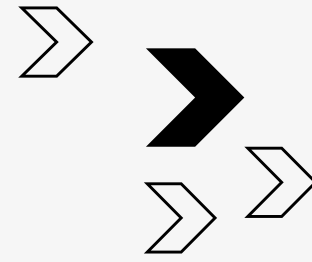
Premium Protective Systems (World-Branded Class)

- Zinc phosphate-containing anticorrosive primer and UV-resistant topcoats
- High film thickness and long service life (5-15 years)
- C3 level corrosion protection

CHEMICAL PRODUCTS & COATING SYSTEMS



- Offers corrosion and UV resistance (PF-115 & GF-021 system)
- Produced under ISO 9001:2015 for consistent & reliable quality



01

GF-021 Premium Primer

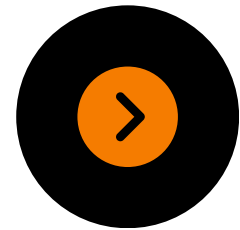
- High-Solid ($\approx 60\%$), zinc-phosphate modified anti-corrosive primer.
- Drying time: dust-free 10–20 min | full cure 4–6 h.
- Application methods: airless spray, brush, or roller.
- Color: grey (standard shade for primer systems).
- Density: 1.45 ± 0.05 g/ml.
- Coverage: 8–10 m²/kg (depending on surface type)

02

PF-115 Premium Topcoat

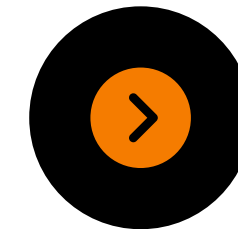
- High-Solid ($\approx 70\%$), alkyd-resin based finish coat.
- Density: 1.40–1.45 g/ml | Volume solids: $\approx 58 \pm 3\%$.
- Service temperature: up to 120 °C with excellent UV resistance.
- Gloss retention: High, resistant to color fading and chalking.
- Film properties: Flexible, durable, and resistant to mechanical impacts.

Comparative Technical Table



GF-021 Premium/PF-115 Premium

Touch dry	»»»»	2 hours
Spreading rate	»»»»	100 g/m2
Film thickness, dry	»»»»	150 microns
Composition	»»»»	Contains zinc-phosphate
Volume solids, %	»»»»	58-60
Exploitation period	»»»»	5-15 years
Atmospheric corrosion	»»»»	C1-C3
Hiding power	»»»»	100 microns



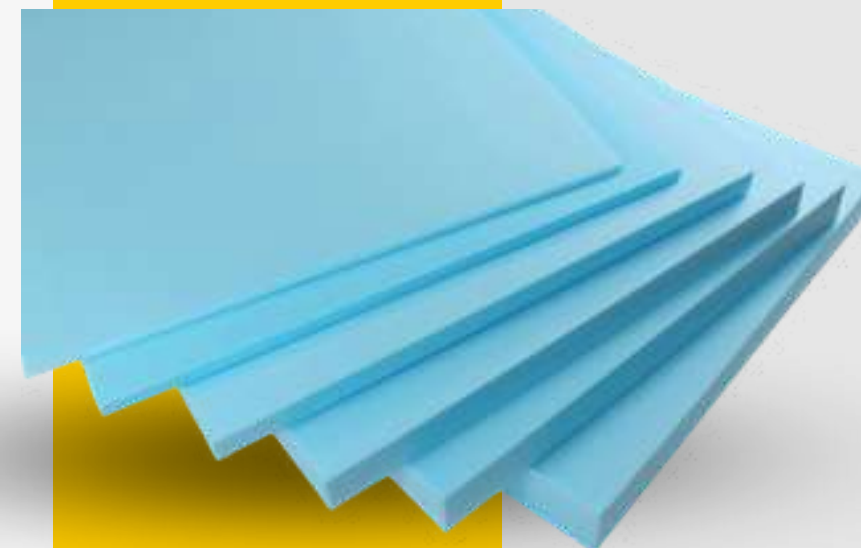
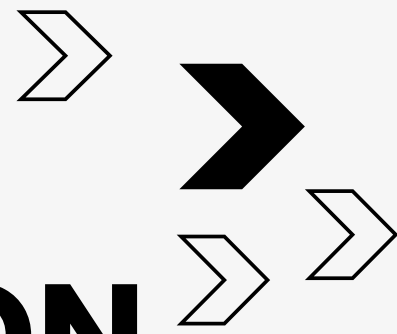
Standard GF-021/PF-115

Touch dry	»»»»	24 hours
Spreading rate	»»»»	250-400 g/m2
Film thickness, dry	»»»»	20-40 microns
Composition	»»»»	Doesn't contain zinc
Volume solids, %	»»»»	25-35
Exploitation period	»»»»	1-5 years
Atmospheric corrosion	»»»»	C1-C2
Hiding power	»»»»	300 microns

INSULATION MATERIALS



- Designed for energy efficiency, fire safety & acoustic control
- Full range: Mineral Wool, XPS Foam & HVAC insulation accessories
- Reliable performance in construction & heavy industry



01 Mineral Wool (Rockwool / Stone Wool)

Manufactured from melted basalt and dolomite rocks, forming fibers with excellent insulation capability.

- Withstands temperatures up to 750°C.
- A1 fire-rated, non-combustible.
- High acoustic absorption.
- Water-repellent (hydrophobic options available).

02 XPS Foam (Extruded Polystyrene Foam)

Closed-cell thermal insulation board made from extruded polystyrene.

- Very low water absorption.
- High compressive strength.
- Consistent long-term thermal performance.

INSULATION MATERIALS



- Engineered for long service life and mechanical strength
- Resistant to extreme temperatures & harsh environments



03 Supreme Fiber Products

- **Product Range:**

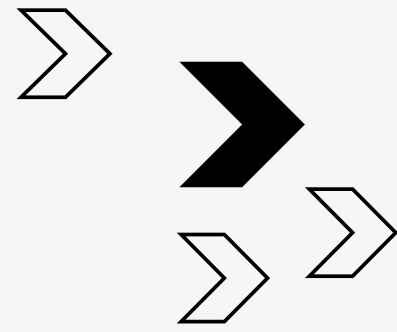
- Fiber Duct Wraps: Thermal insulation wraps for air ducts.
- Boards (Slabs): Rigid high-density insulation panels.
- Pipe Sections: Preformed cylindrical insulation for pipelines.

04 HVAC Accessories

- **Includes:**

- Aluminum foil tapes and insulation wraps
- Pipe supports and hangers
- Acoustic insulation jackets
- Vapor barrier foils and flexible covers.

FITTINGS & FLANGES



- Comprehensive range of fittings, flanges, gaskets & fasteners
- Designed for industrial piping systems
- Produced from carbon steel, stainless steel, duplex & alloys



01 BUTT- WELD PRODUCTS

CARBON STEEL & STAINLESS STEEL

STANDARD: DIN AND ANSI B 16.9 STANDARDS

- TEES
- CAPS
- ELBOWS
- BRANCH UNIT
- CONCENTRIC REDUCERS
- ECCENTRIC REDUCERS

02 SOCKET WELD PRODUCTS

CARBON STEEL & STAINLESS STEEL

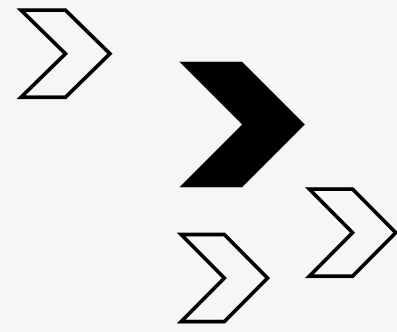
STANDARD ANSI B16.11

- TEES
- CAPS
- ELBOW
- UNION
- WELDOLET
- COUPLINGS & HALF COUPLINGS
- REDUCING COUPLINGS
- SOCKOLET

FITTINGS & FLANGES



- Fully compliant with DIN, ANSI, EN, ASTM & API standards
- Managed under ISO 9001-certified quality system for reliability & consistency



03 THREADED PRODUCTS

**CARBON STEEL – STAINLESS STEEL
FORGED MATERIAL (3000LB – 6000LB)**

STANDARD: ANSI B 16.11

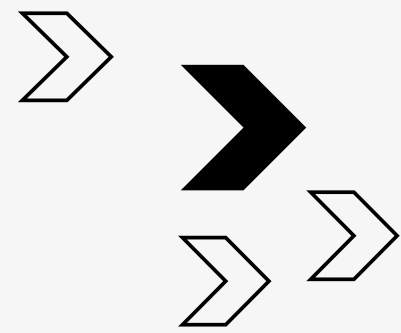
- TEE
- CAP
- ELBOW
- UNION
- COUPLING
- THREDOLET
- WELDING BOSES
- HEX HEAD PLUG
- REDUCING COUPLING
- HEX HEAD BUSHING
- HEXOGANAL NIPPLE,
- SWEDGE NIPPLE
- MALE – FEMALE UNION
- FEMALE – MALE REDUCER

04 FLANGES

CARBON STEEL & STAINLESS STEEL

STANDARD ANSI B16.11

- BLIND FLANGES
- FLAT FLANGES
- SLIP ON FLANGES
- WELDING NECK FLANGES
- THREADED FLANGES
- SOCKET WELD FLANGES
- ORIFICE FLANGES



Fasteners & Bolting Solutions

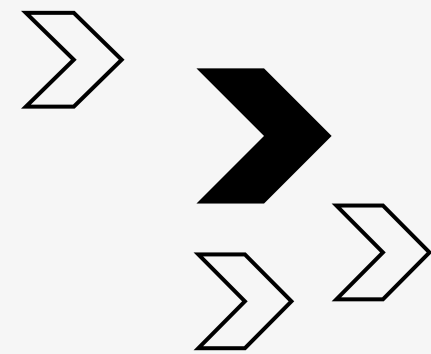


- Engineered for strength, precision & durability
- Reliable under high pressure & temperature
- Designed for safety and global quality standards



Technical Highlights:

- Compliant with ASTM A193 / A194, resistant to high temperature and pressure.
- Alloy, Inconel, Duplex, Stainless Steel, Bronze, Copper – high strength & corrosion resistance.
- Tensile strength: 60–100 ksi (Grade A–C) for heavy-duty environments.
- Coatings: PTFE, Galvanized, Xylan, Zinc–Nickel, Aluminum for long-lasting durability.
- Backed by advanced Fasteners Division ensuring precision, traceability & quality compliance.
- Certified testing guarantees consistent quality and reliability for every batch.



Gaskets & Isolation Kits



- Designed for reliable sealing & protection in industrial applications
- Excellent chemical resistance, pressure retention & electrical isolation
- Essential for pipeline, process & energy systems performance



Technical Highlights:

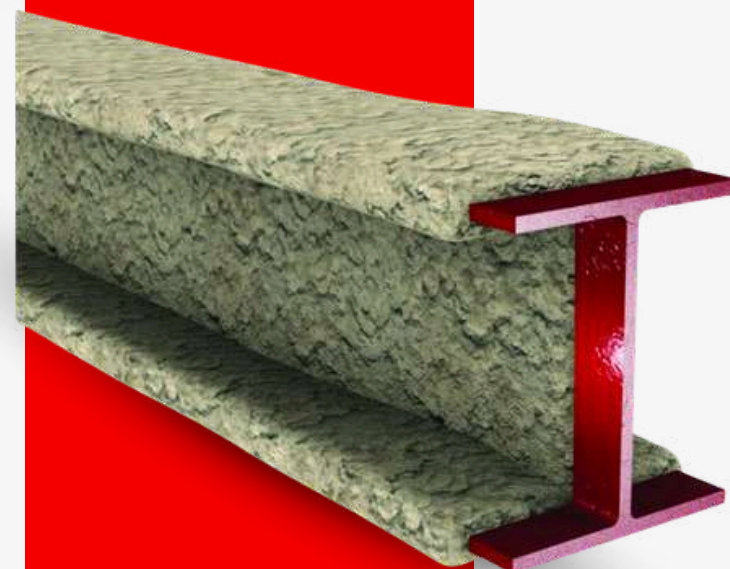
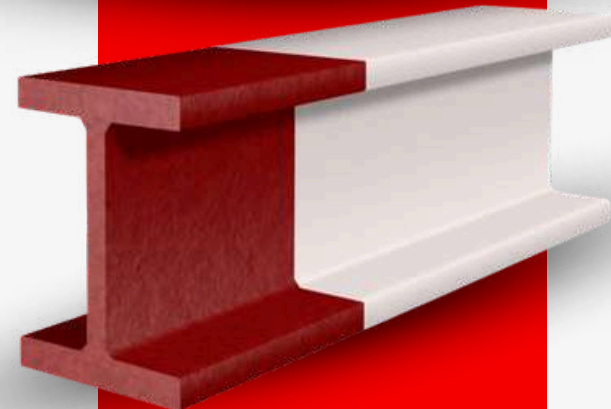
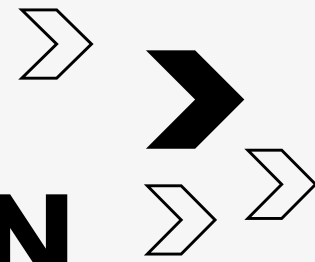
- High-Performance Series: Lamons DEFENDER™ & ISOGUARD™ for high-pressure/temperature sealing
- Range: Spiral wound, PTFE, metallic & soft gaskets under Spira Power standards.
- Pressure Class: ANSI 150#–2500#, API 2K–15K for standard & critical service
- Temperature Range: -150 °C to +200 °C for cryogenic & high-temp stability
- Certified Safety: API 6FB (3rd Edition) fire-tested for critical applications
- Chemical Resistance: Durable against hydrocarbons, acids & alkalis

FIRE PROTECTION

Active & Passive Systems



- Industrial fire safety solutions for energy and process industries
- Covering both active suppression and passive structural protection systems
- Designed to ensure operational safety, reliability, and compliance



01

ACTIVE FIRE PROTECTION

- Firefighting foams (AFFF / AR-AFFF)
- Rapid extinguishing of hydrocarbon & chemical fires
- System components: tanks, proportioners, nozzles, pumps
- Certified to NFPA / EN / UL standards
- Ideal for refineries, tank farms & power plants

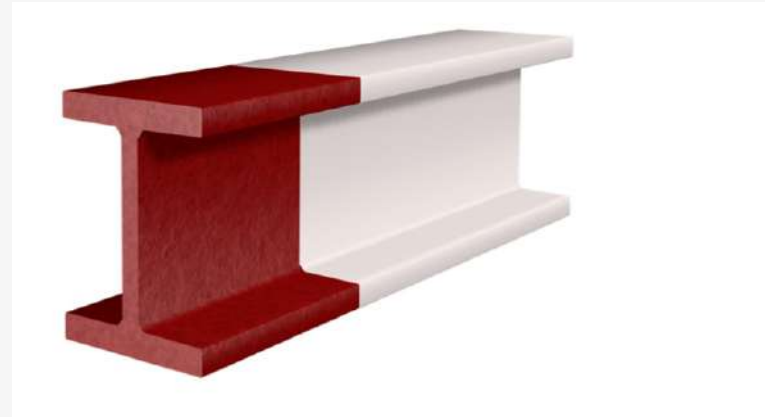
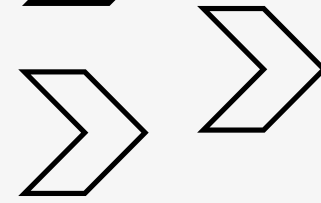
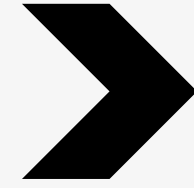
02

PASSIVE FIRE PROTECTION

- Intumescent coatings
- Expands under heat to protect steel structures
- Fire resistance up to 120 minutes (EN 13381-8 / BS 476)
- Compatible with primers & topcoats
- Long-term durability in harsh industrial environments

FIRE PROTECTION

Active & Passive Systems



Provides rapid fire suppression for hydrocarbon and chemical risks. Ideal for refineries, tank farms, and process facilities.

Expands under heat to protect steel structures from collapse. Delivers up to 120 minutes of certified fire resistance.

Applied by certified teams under controlled conditions. Ensures long-term durability and compliance with EN & NFPA standards.

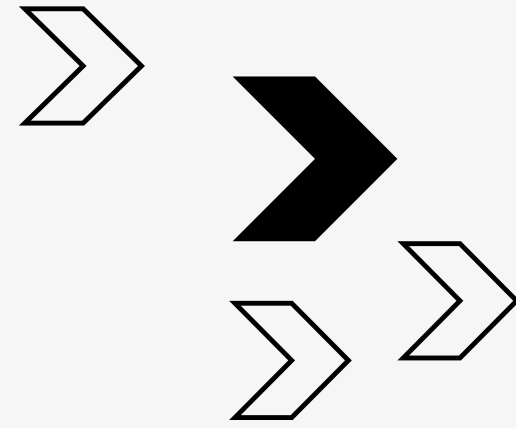


MECHANICAL & PIPING COMPONENTS



We provide a wide range of mechanical, electrical, and safety components required for industrial installations.

Our supply scope includes instrumentation equipment, maintenance tools, protective gear, and coating materials, ensuring reliable performance and compliance with international standards across all projects.



ELECTRICAL & INSTRUMENTATION

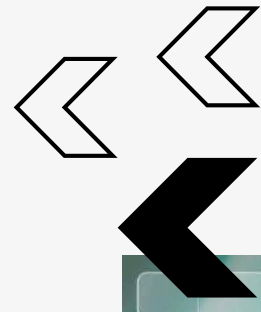
Cables, connectors, sensors, measuring devices, and panel components

MAINTENANCE & SAFETY SUPPLIES

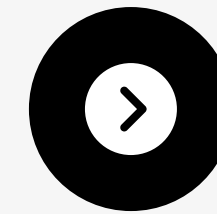
Hand tools, industrial chemicals, and personal protective equipment (PPE)

PAINTING & INSULATION MATERIALS

Industrial paints, solvents, insulation covers, and blankets

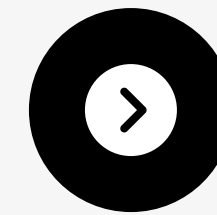


Supply Scope



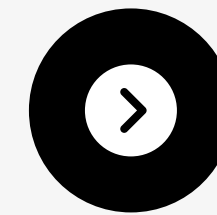
Comprehensive Industrial Supply

Supply of consumables and spare parts for industrial plants, including mechanical, electrical, automation, coating, insulation, and safety equipment.



Procurement & Quality Process Management

Integrated purchasing, logistics, quality control, and delivery operations aligned with project timelines and international standards.



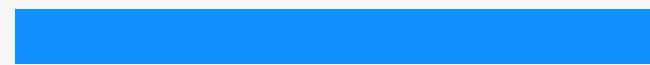
Rapid & Project-Based Planning

Fast supply capability with project-based material planning and global sourcing network.



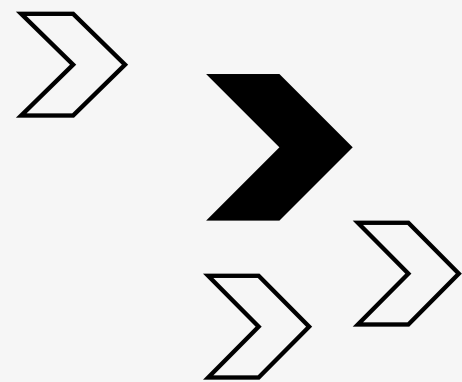
APPLICATION

Integrated Maintenance & Operation Solutions



We provide integrated maintenance and operation solutions focused on reliability, efficiency, and long-term performance in industrial facilities. Our services cover maintenance, repair, coating, insulation, and mechanical alignment – ensuring seamless plant operations and extended asset life.

Operation Maintenance & Repair Solutions



Industrial Surface & Equipment Repair

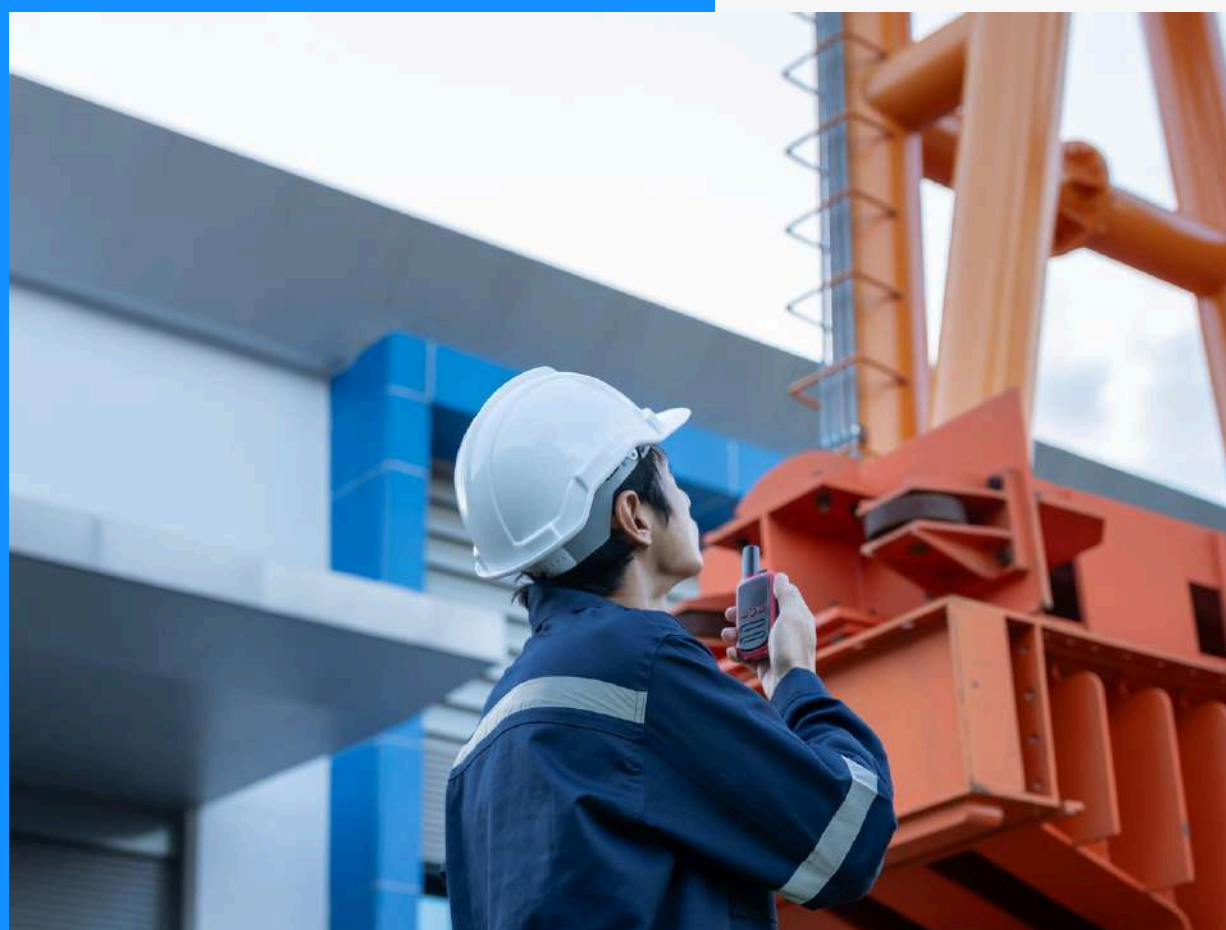
Comprehensive maintenance and surface repair services for tanks, pipelines, pumps, and process equipment.

Protective & Composite Systems

Application of composite repair materials, protective coatings, crack sealing, and wear-resistant solutions.

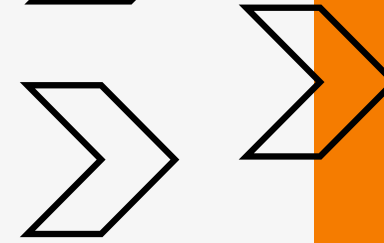
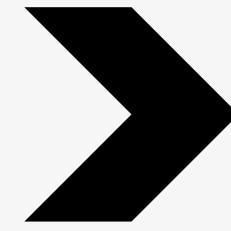
Specialized Service Fields

Expertise across Oil & Gas, Chemical, and Power industries with advanced surface strengthening systems for metal and concrete structures.



Chemical Products & Coating Systems

Application Areas



Industrial Structures and Equipment

- Steel constructions, pipelines, and equipment surfaces
- Energy, refinery, natural gas, and chemical plants
- Protective and decorative coatings for interior and exterior applications
- Project-based color and formulation customization

Infrastructure and Specialized Applications

- Offshore platforms, storage tanks, and marine environments
- Thermal power stations and mechanical workshops
- Water treatment and environmental facilities
- Maintenance and repair projects for industrial plants.



Thermal & Energy Applications

- Power plants and process industries
- Pipelines, tanks, and heat exchangers
- HVAC and air duct insulation systems
- Cold and hot service lines

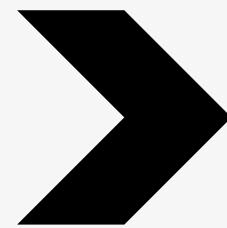
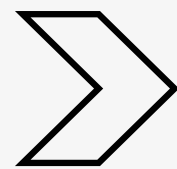
Acoustic & Fire Protection

- Industrial buildings and mechanical rooms
- Offshore and marine environments
- Walls, ceilings, and façade systems
- Fire-rated insulation and composite protection

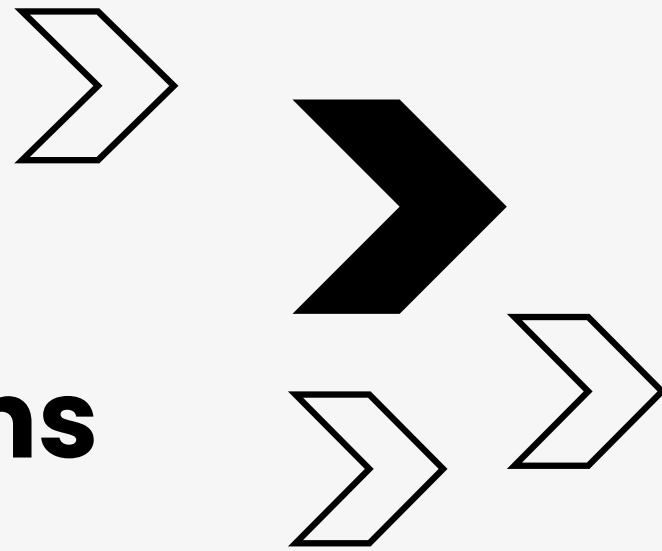


Insulation Materials

– Application Areas



Industrial Piping & Sealing Applications



Energy & Process Industries

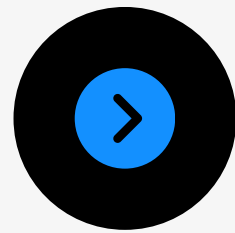
- Power generation, oil, gas, and LNG/SNG facilities
- Refinery, petrochemical, and process pipeline systems
- Industrial maintenance and rehabilitation projects

Critical & Specialized Services

- Fire-safe and high-integrity sealing solutions for critical service lines
- EPC and turnkey projects with international procurement capabilities
- Offshore and onshore operations requiring corrosion-resistant materials
- Water treatment and environmental systems

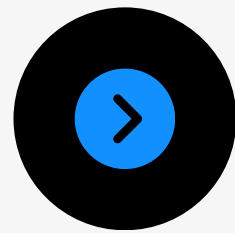


Shaft Alignment & Mechanical Services



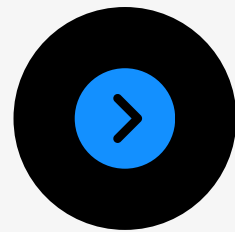
Laser Alignment & Balancing

Precision laser alignment for rotating equipment with vibration and balance optimization to improve reliability.



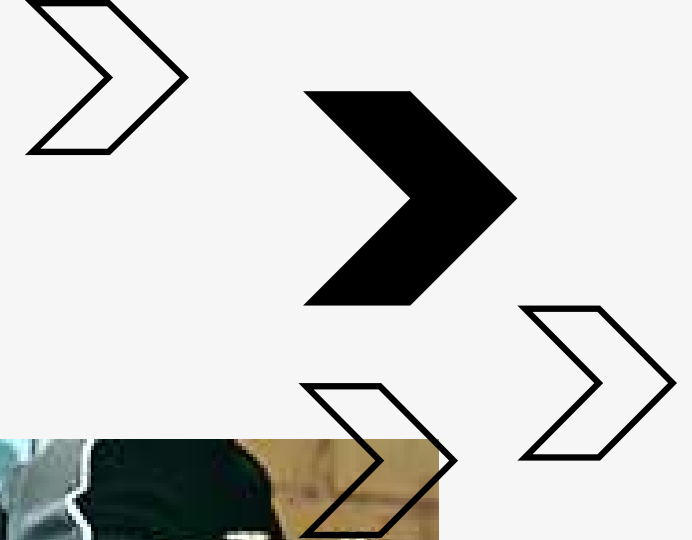
Equipment Analysis & Calibration

Diagnostic analysis on pumps, turbines, fans, and compressors – including post-installation calibration and testing.



Performance Optimization

International-standard measurement systems for enhanced performance and reduced mechanical stress.





REFERENCES CHEMICAL & COATING

Our protective coating and industrial chemical systems have been successfully applied across various sectors, ensuring durability, corrosion resistance, and long-term performance under harsh environmental conditions.





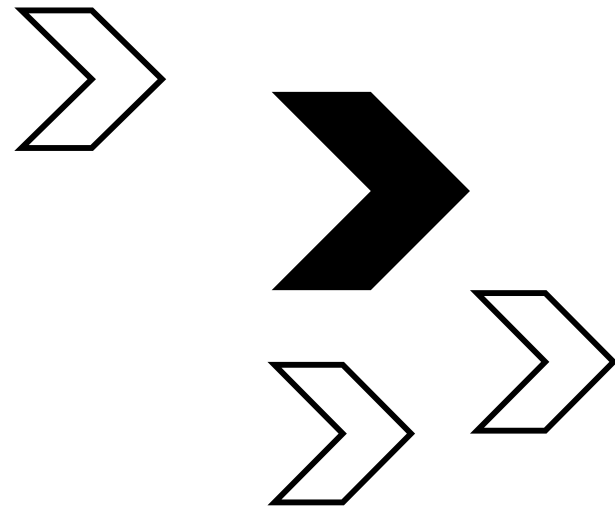
REFERENCES FITTINGS & FLANGES

Our fittings and flange solutions have been successfully implemented in major industrial facilities, ensuring reliability, safety, and compliance with international standards under demanding operational conditions.





REFERENCES INSULATION



Our industrial insulation systems have been implemented in large-scale energy and process facilities, providing efficient thermal management, long-term durability, and operational safety under extreme conditions.





Smart Systems for a Sustainable Future



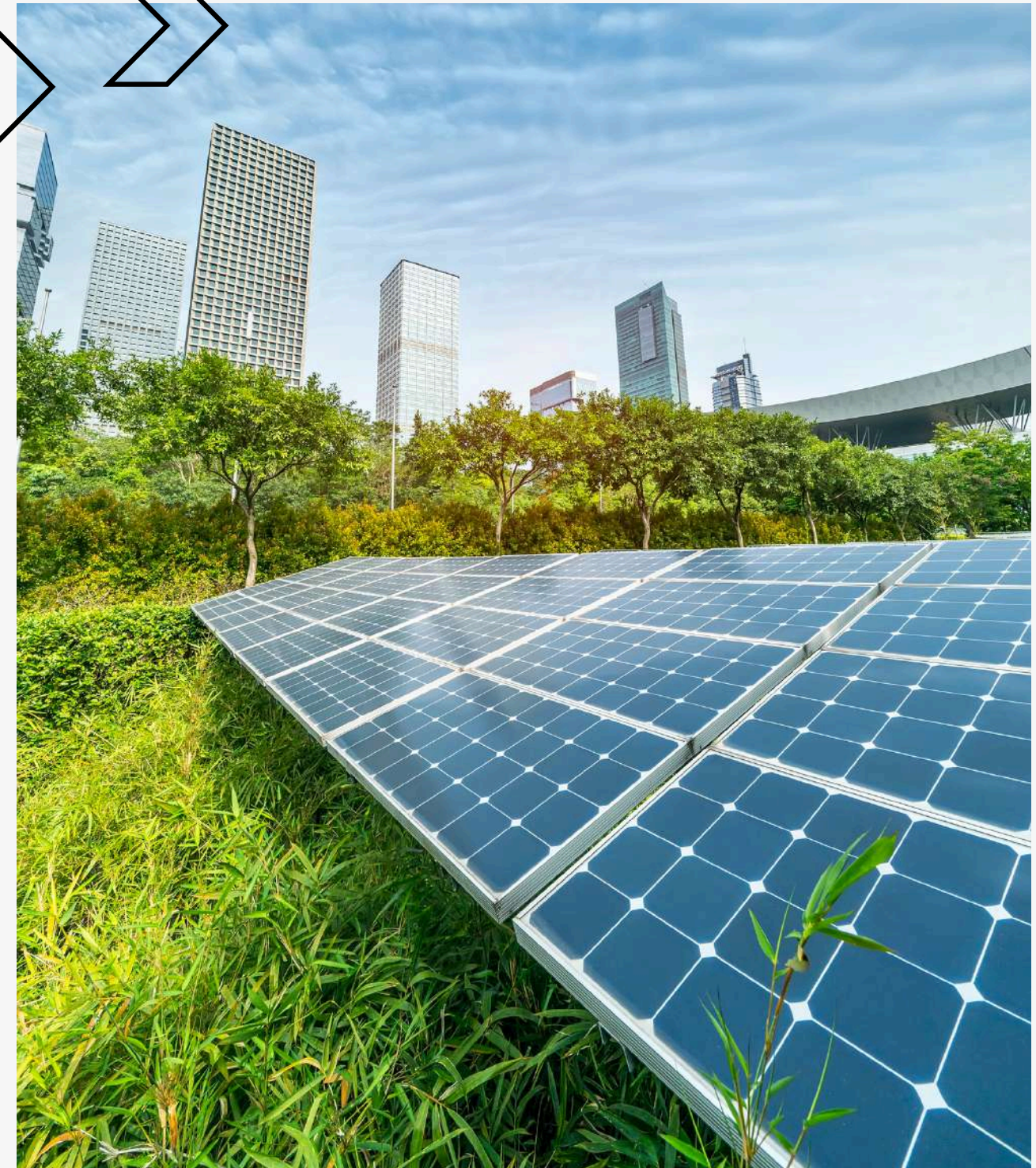
Integrating AI-driven monitoring, diagnostic, and inspection technologies to enhance industrial reliability and enable digital transformation.

SOLAR PANEL MICROCRACK INSPECTION SYSTEM



Precision Analysis for Photovoltaic Panels

- AI-powered detection for microcracks, connection faults, and thermal deformations.
- Combines high-resolution cameras with thermal imaging for accurate analysis.
- Enables early defect detection during production and maintenance.
- Improves panel reliability, lifespan, and energy efficiency.



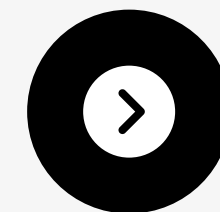


Advanced Diagnostic Solutions for Photovoltaic Panels



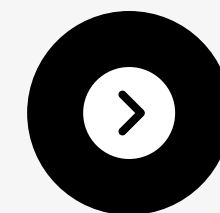
AI-Based Electroluminescence (EL) Imaging

Detects microcracks and internal cell defects with sub-millimeter precision, ensuring early identification of performance issues.



Thermal & Visual Data Integration

Combines thermal mapping and optical imaging to enhance diagnostic accuracy and provide comprehensive panel assessment.



Cloud-Connected & Scalable Design

Automatically records test results, generates comparative reports, and enables both portable and inline production applications.

THANK YOU

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