SPEC

SPEC

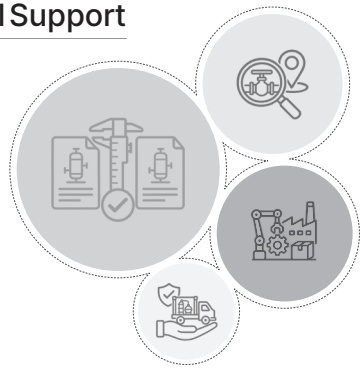
Supplying Petrochemical Industries
Parts, Equipment & Chemicals
Engineering Company (SPEC)

Global Sources Reliable Supply

Industrial Equipment, Chemicals, and Catalysts Supply from Reputable Global Sources

Operating Model

- Needs Assessment & Sourcing
- Technical Evaluation & Compliance
- Manufacturing & Procurement
- Delivery & Technical Support



Transformation & Development Path

As a strategic partner to industries, SPEC enhances organizational resilience and agility through data-driven supply chain intelligence and operational risk optimization, guaranteeing operational capacity, business continuity, and sustainable value creation.

1998
Inception; Active Support for Domestic Manufacturing

2009
Ownership Restructuring

Post-2009
Expansion of International Trade & Sourcing Networks

Today
Supply of Equipment, Spare Parts & Specialized Materials for Industries

Empowering Industrial Supply Chains

Vision

The strategic and trusted partner for industries in the global supply chain,creating sustainable value through access, optimal selection, and smart procurement.

Mission

By combining the strengths of two core capabilities - reliable international sourcing and specialized design and engineering expertise - we deliver integrated and dependable solutions in equipment, spare parts and chemicals to leading industries, ensuring uninterrupted operational continuity and maximum supply chain resilience for our clients.

Strategic Priorities

- **Specialized & Solution-Oriented Supply**
  Expanding the engineered supply of complex equipment, spare parts, and chemicals through integrated solutions, relying on in-house engineering capabilities.
- **Global Supply Network Diversification & Expansion**
  Targeted expansion of reputable international sourcing origins; facilitating access, diversifying purchasing options, and mitigating dependency risks.
- **Value Chain Risk Management & Resilience**
  Monitoring and mitigating risks (geopolitical, logistical, qualitative, commercial) to establish resilient, secure, and predictable supply chains.
- **Organizational Agility & Rapid Responsiveness (Organizational Agility & Responsiveness):**
  Flexibility across the entire procurement lifecycle, from document preparation and needs identification to customs clearance and final delivery.
- **Shared Value Creation & Long-Term Partnership**
  Transitioning from transactional trading to strategic partnership; offering technical consultation, continuous engineering support, and commitment to client productivity.

Integrated Engineering & Commercial Services Chain

Delivering Comprehensive Industrial Solutions;
from Reverse Engineering & Manufacturing to International Procurement & Contract Management

"Beyond standard supply, SPEC delivers integrated engineering and procurement solutions to safeguard operational continuity."

SPEC delivers its services through an interconnected and integrated value chain. In the oil, gas and petrochemical industries, successful procurement goes beyond simply purchasing goods. Technical and operational compliance, authenticity and quality, delivery timelines and the management of commercial risks all contribute to the final outcome. By combining technical expertise with commercial capabilities, SPEC provides integrated solutions spanning the entire process, from engineering and manufacturing to sourcing and delivery.

Operational Domains & Key Services

Engineering & Manufacturing Management
Reverse engineering, manufacturing, localization, and refurbishment of specialized equipment and spare parts.

Specialized Supply of Catalysts, Chemicals, Mechanical Equipment, Electrical & Instrumentation
Production and import of strategic products from reputable domestic and international sources.

Commercial & Financial Services
Commercial services, payment solutions, Letters of Credit (LCs) and foreign currency financing.

Manufacturing Chain Management
Coordination and supervision of domestic manufacturing processes and production outsourcing.

Agency & Sourcing of Specialized Brands
Facilitating direct access to prestigious international manufacturers and brands.

Procurement Management for EPC Projects
Execution of procurement packages in compliance with the client's technical and contractual requirements.

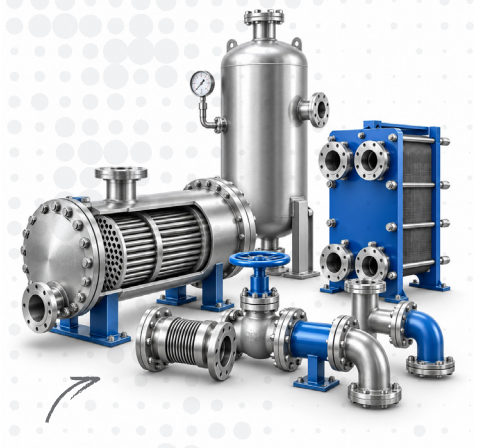
Mechanical Engineering & Process Equipment

Localization, Manufacturing, Refurbishment, and Supply
of Critical Parts for Turbomachinery, Rotating, and Static Equipment

"SPEC focuses on critical equipment and production bottlenecks, where equipment reliability plays a decisive role in operational continuity."

In the field of mechanical engineering, SPEC focuses on critical equipment and components whose performance and reliability directly affect production continuity. Drawing on its engineering expertise, manufacturing and refurbishment capabilities, technical inspection services, and access to reliable sourcing channels, SPEC develops and delivers solutions tailored to each client's specific requirements, from engineering and localization to the manufacturing and supply of specialized equipment and components.

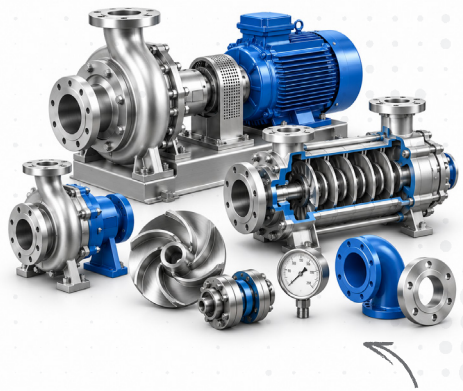
Portfolio of Equipment & Specialized Capabilities



Static Equipment & Piping
Supply and manufacturing of equipment including Heat Exchangers, TLE (Transfer Line Exchanger), Column Internals, Hydraulic Power Units (HPU), piping lines, and valves made of special alloys.

Advanced Sealing Systems
Engineering and supply of Mechanical Seals and Dry Gas Seals for critical process applications.

Turbomachinery & Hot-Section Parts
Engineering, manufacturing, and refurbishment of gas turbine stationary and rotating blades (Blade & Vane), combustion chamber components (Transition Piece & Liner), and steam turbine rotor parts.



Process Pumps & Compressors
Supply and engineering of rotating equipment compliant with API 610 and API 617 standards, including multi-stage centrifugal pumps, vertical pumps, and specialized spare parts.

Network of Sources & International Brands

Access to products and solutions from reputable international manufacturers and brands, tailored to technical specifications and project requirements, such as:

SIEMENS FLOWSERVE LEWA KSB INDUFIL BOLDROCCHI WARTSILA JOHN CRANE ATLASCOPCO AERZEN

Specialty Chemicals, Catalysts & Adsorbents

Localization, Development, and Strategic Supply of
Specialized Materials and Catalysts for Process Industries

"Supply and localization of specialized materials and catalysts for stable and reliable process performance."

In the petrochemical and refining industries, catalysts, adsorbents, and specialty chemicals are influential and often critical items for stable process performance. Relying on technical knowledge, domestic capacities, and a network of reputable international sources, SPEC operates in localizing and manufacturing selected items, as well as supplying specialized materials and products required by industries.

Specialized Areas & Product Portfolio

Engineering Ceramics & Refractories
Supply and manufacturing of wear-resistant ceramic parts, protective ceramic coatings, and special refractory masses (Refractories).

Process Chemicals & Additives
Production and supply of emulsifiers, polymerization initiators, polyelectrolytes, and industrial acetates.

Adsorbents & Molecular Sieves
Supply of specialized adsorbents, silica gel, activated alumina, and molecular sieves for dehydration and purification of hydrocarbon streams.

Process Catalysts
Localization of technical know-how and production of base catalysts, precious metal catalysts, and oxychlorination catalysts.

Network of Sources & International Brands

Access to products and solutions from reputable international manufacturers and brands, tailored to technical specifications and project requirements, such as:

BASF · Axens · UOP (Honeywell) · CECA (Arkema) · Evonik · Grace · Dow · Shell · TotalEnergies · Jacobi

Electrical & Instrumentation

Supply chain management for critical equipment, process safety and control of rotating and static equipment.

"The reliability of electrical and instrumentation equipment plays a decisive role in the stability and continuity of industrial operations; leveraging a network of reputable supply sources, SPEC provides reliable access to specialized equipment and items in this sector."

Electrical and instrumentation equipment are key components in the control, monitoring, and protection of process units. Focusing on the supply and supply-chain management of specialized and critical items, SPEC facilitates access to the equipment and spare parts required by industries. In this sector, SPEC's approach is founded on matching technical specifications with project requirements, identifying reputable sources, and managing the procurement process to ensure that the required equipment conforms to the project's technical, safety, and operational requirements.

Electrical & Instrumentation Supply Fields

High & Low Voltage Electrical Equipment
Supply of explosion-proof electric motors (Ex), switchgears, electrical panels, and uninterruptible power supply systems (UPS).

Control & Protection Systems
Supply of process control and protection equipment, safety systems, and equipment associated with control valves.

Instrumentation
Supply of various transmitters, measurement equipment, and process parameter monitoring devices.

Infrastructure & Auxiliary Items
Supply of high-voltage cables, explosion-proof lighting, glands, junction boxes, and other auxiliary items.

Supply Network & Partner Brands

Leveraging a network of reputable domestic and international sources, SPEC provides equipment tailored to technical specifications and project requirements.

ABB · Siemens · Schneider Electric · Yokogawa · Emerson · HIMA · Drager · Alcad · Pepperl+Fuchs · Prominent · Optek · Berthold

SPEC focuses on identifying reputable sources, verifying product authenticity and technical compliance and effectively managing the supply chain for specialized equipment in industrial projects.

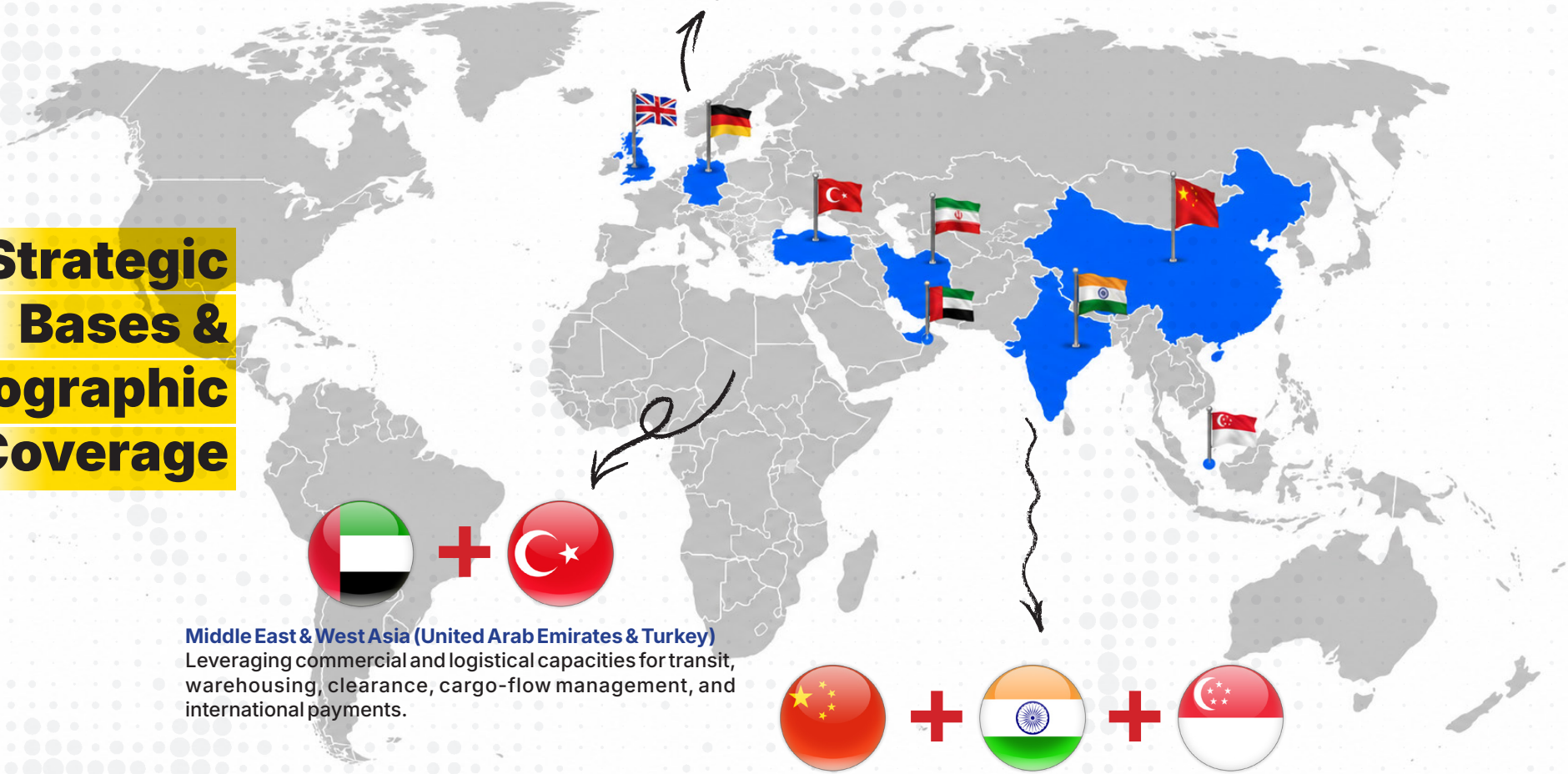
International Supply Network & Value-Chain Resilience

Access to Global Markets, Commercial Risk Management,
and Guaranteeing Authenticity of Specialized Equipment and Materials

"Effective presence and access across major hubs of global production and trade; for reliable supply, risk management, and enhancing supply-chain resilience in process industries."

Under the complex conditions of international trade and supply-chain constraints, access to reputable sources and effective management of cargo flow play a crucial role in the operational continuity of process industries. Leveraging a network of offices, affiliated companies, and supply sources across key hubs in Asia and Europe, SPEC manages the international procurement process from source identification and validation to inspection, payment, and delivery. This structure facilitates access to reputable manufacturers, technical compliance and authenticity verification, and the selection of optimal commercial and logistical routes tailored to the requirements of each project.

Strategic Bases & Geographic Coverage



Europe (Germany & United Kingdom)
Access to manufacturers and specialized sources for precision equipment, turbomachinery parts, critical mechanical equipment, and industrial technologies.

Middle East & West Asia (United Arab Emirates & Turkey)
Leveraging commercial and logistical capacities for transit, warehousing, clearance, cargo-flow management, and international payments.

East & South Asia (China, India & Singapore)
Access to a wide spectrum of chemical manufacturers, industrial equipment, specialized supply sources, and maritime shipping.

Pillars of Risk Management & Operational Advantages

Supplier Qualification & Sourcing
Identification, evaluation, and verification of manufacturers and suppliers aligned with the technical and commercial specifications of each inquiry.

Financial & Commercial Risk Management
Utilizing diversified channels and capacities for international payment, settlement, and fund transfers to mitigate procurement financial and commercial risks.

Authenticity Verification & Technical Documentation
Verification of goods-related documentation, including Material Test Certificates (MTC), Factory Acceptance Tests (FAT), Certificates of Origin, and Third-Party Inspection (TPI) reports, in accordance with project requirements.

Specialized Logistics & Transit
Selection and coordination of shipping routes, transit, packaging, and delivery tailored to the type, dimensions, value, and specific handling and preservation requirements of the cargo.

From Specialized Supply to Managing Engineering Solutions

Relying on the technical knowledge of its specialists, operational experience, and an extensive network of industrial partners, SPEC has expanded its scope of activity from the supply of specialized equipment and materials to managing engineering and manufacturing solutions. This capability enables addressing complex industrial needs and reducing reliance on external sources for critical items and strategic equipment.

Flagship & Strategic Projects

Takht-e Jamshid Petrochemical Industries Co.
Participation in investment and execution of the petrochemical complex development phases, focusing on the production of SBR and PBR elastomers with a total capacity of 92,000 tons per year; coupled with leveraging domestic technical know-how and capacities in the Phase 2 development.

Key Areas of Domestic Manufacturing

Mechanical Engineering
Localization and manufacturing of specialized rotating equipment parts, turbine hot-gas path components, mechanical seals, heat exchangers, and selected process equipment.

Chemical Engineering & Catalysts
Development and localization of technical know-how for producing base and precious metal catalysts, additives, and specialized process chemicals, leveraging domestic scientific and industrial capacities.

Electrical & Instrumentation
Design and delivery of domestic manufacturing solutions for selected electrical and instrumentation equipment, including control valves, explosion-proof electric motors, control panels, and industrial monitoring systems.

Strategic Partner Network

Throughout its decades of activity, SPEC has collaborated with more than 30 petrochemical complexes and refineries across the country. This extensive operational track record provides deep insight into real industrial needs and procurement requirements in process environments, serving as a solid foundation for delivering customized solutions tailored to each client's specific requirements.

Quality Management System & Standards Compliance

ISO 9001:2015
Certification: Establishment and implementation of a Quality Management System based on ISO 9001:2015 standard, certified by TÜV AUSTRIA.

Process Control & Improvement:
Continuous process monitoring, supplier evaluation and auditing, and compliance verification of goods and services with project-specific technical requirements and standards.

Industrial Track Record & Honors

Ministry of Petroleum Commendation:
Recipient of the Certificate of Appreciation at the 4th National Festival Honoring Manufacturers and Practitioners in the Petroleum Industry (2014 / 1393).

Iran's Top 100 Companies (IMI-100):
Ranked among Iran's Top 100 Companies by the Industrial Management Institute (IMI) for the fiscal years 2011–2012 and 2012–2013 (1390 & 1391).

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For further information, technical consultation, procurement inquiries, or arranging site visits, please contact SPEC specialists via the communication channels below:

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