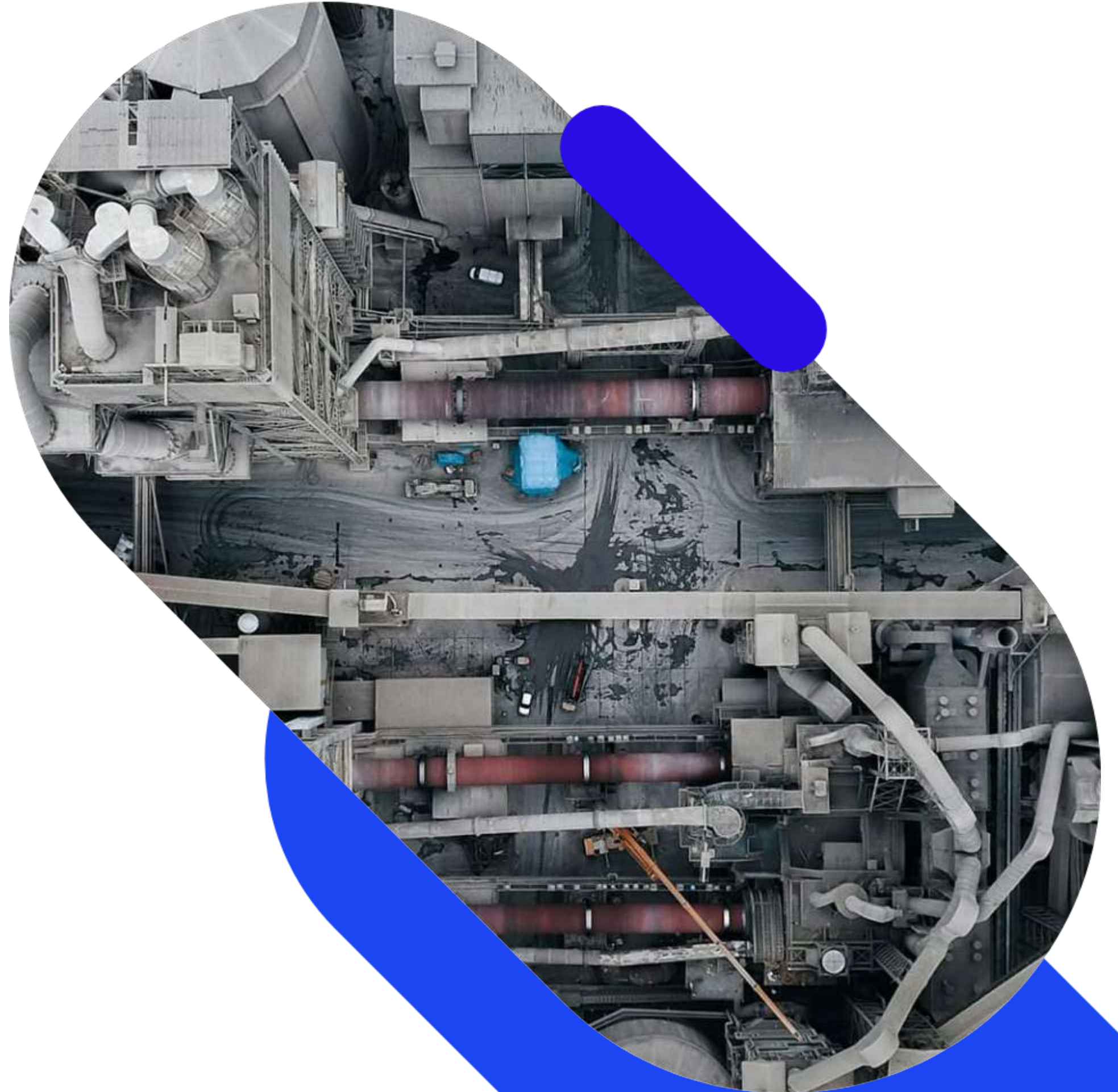


Onestep Engineering

Revolutionizing Structural Solutions with IT
Advancements



Onestep Engineering Presentation



Onestep Engineering



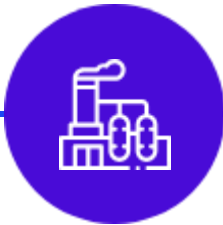
Our Services



About Us



Industries We Serve



Onestep Engineering Presentation

Why Choose Us?



Contact Us



Our Process



About Us

Leading Player in Specialized Steel Plant Manufacturing



Capabilities

Custom-designed distillation units catering to various industries, along with specialized manufacturing of dryers and molecular distillation plants.

Overview

A leading player in specialized steel plant manufacturing, focusing on customer-centric solutions.



Expertise

A team of technical consultants boasting over two decades of experience in the industry.

Our Services: Comprehensive Engineering Solutions

01



Specialized Steel Plant Manufacturing Integrated with IT Systems

We offer custom-made distillation units for crude oil, black oil, and wastewater, along with vacuum and paddle dryers, and advanced molecular distillation systems including wiped film, centrifugal, and agitated thin film.



02



Manpower Provisioning

Our skilled and experienced manpower is available for diverse industrial needs, including fabricators specializing in precision metal fabrication, welders proficient in various welding techniques, trained helpers for efficient operations, and technical consultants with over 20 years of experience.



03



Consultancy Services

We provide expert guidance for plant setup, design optimization, and operational efficiency, ensuring dedicated consultants are available for project success.

Distillation Plants

Specialized Steel Drying Units



Specialized Plants That we manufacture

High-efficiency separation using centrifugal force. Ideal for heat-sensitive and high-purity substances. Operates under vacuum to minimize thermal degradation.

Wiped Film Molecular Distillation Units

Thin film wiped by rotating blades for rapid evaporation. Used for essential oils, fatty acids, and high-viscosity materials. Vacuum environment to preserve sensitive products.

Agitated Thin Film Molecular Distillation Units

Mechanical agitation enhances heat and mass transfer. Suitable for fine chemicals, solvents, and high-purity distillation. Operates in a vacuum for minimal thermal impact.



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Fractional Distillation Columns

Separates components by boiling point in a continuous process. Used for refining oils, chemicals, and alcohols. High efficiency with multiple distillation stages



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Continuous Crude Oil Distillation Plants

Refining of crude oil into fractions like gasoline and diesel. Continuous operation for high throughput. Operates under controlled temperature and pressure.



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Essential Oil Extraction Units

Extracts essential oils from plants using steam



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Extracts essential oils from plants using steam distillation. Ideal for aromatherapy, cosmetics, and flavoring industries. Minimizes heat exposure to preserve the essence of oils.



Drying Systems

Advanced Solutions for Efficient and Reliable Material Drying



Vacuum Dryers

Designed for drying heat-sensitive materials by lowering boiling points under vacuum. Prevents material degradation and preserves quality in pharmaceuticals, chemicals, and food products. Features precise temperature control and customizable drying cycles.

Paddle Dryers

Horizontal, agitated systems designed for drying slurries, pastes, and wet solids. Efficient heat transfer with minimal energy consumption and reduced processing time. Commonly used in wastewater treatment, chemical processing, and food industries.

Spray Dryers

Converts liquid feed into fine powders by atomizing the feed into a heated chamber. Ideal for pharmaceuticals, dairy powders, ceramics,



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Rotary Dryers

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Specialized Reactors and Mixing Systems

Precision Engineering for Advanced Chemical Processes



Chemical Reactors (Jacketed and Non-Jacketed)

Jacketed Reactors: Incorporate external jackets for precise temperature regulation in chemical reactions. Non-Jacketed Reactors: Economical solutions for processes without stringent thermal control. Built with corrosion-resistant materials for long-term durability



High-Pressure Reactors

Engineered to withstand extreme pressure and temperature conditions. Used for hydrogenation, polymerization, and other high-pressure chemical processes. Safety features include pressure relief valves and robust sealing systems.



Agitator Systems

Custom-designed agitators for homogeneous mixing, dispersion, and emulsification. Configurable for high-shear mixing, low-intensity blending, or specialized mixing patterns.

Water Treatment and Waste Management Plants

Sustainable Solutions for Industrial Water Management



Effluent Treatment Plants (ETP)

Modular and scalable systems for treating industrial wastewater to meet regulatory standards. Includes physical, chemical, and biological treatment stages for comprehensive contaminant removal. Industries served include textiles, chemicals, and pharmaceuticals.



Zero Liquid Discharge (ZLD) Systems

Advanced systems for recycling and reusing all wastewater with no discharge. Incorporates evaporation, crystallization, and filtration technologies. Reduces water consumption and helps industries comply with stringent environmental laws.



Desalination Plants

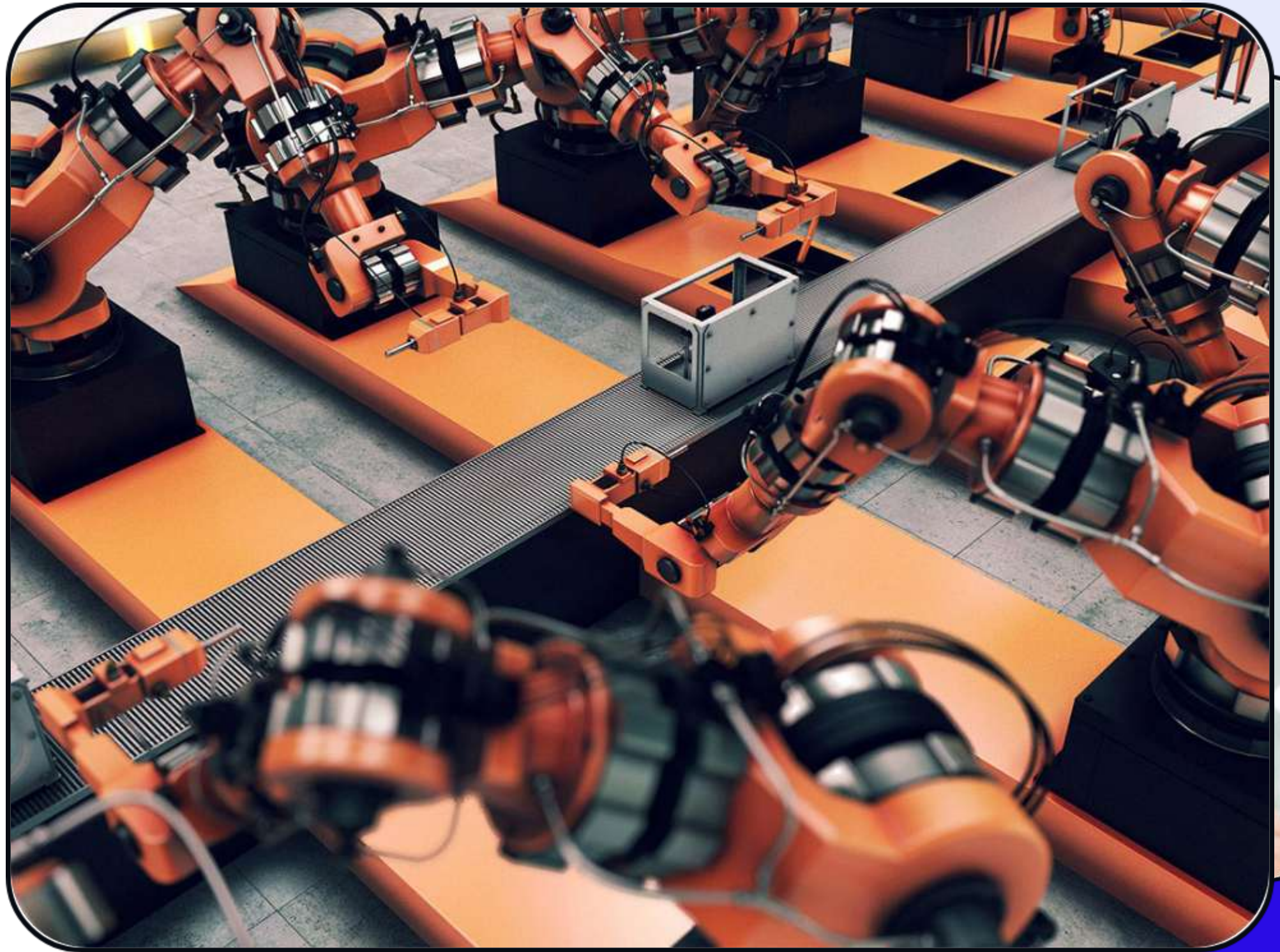
Converts seawater or brackish water into fresh, potable water using advanced reverse osmosis (RO) or thermal methods. Designed for industrial, municipal, and agricultural applications. Energy-efficient systems with low operational costs.

Comprehensive IT Solutions

for Modern Manufacturing

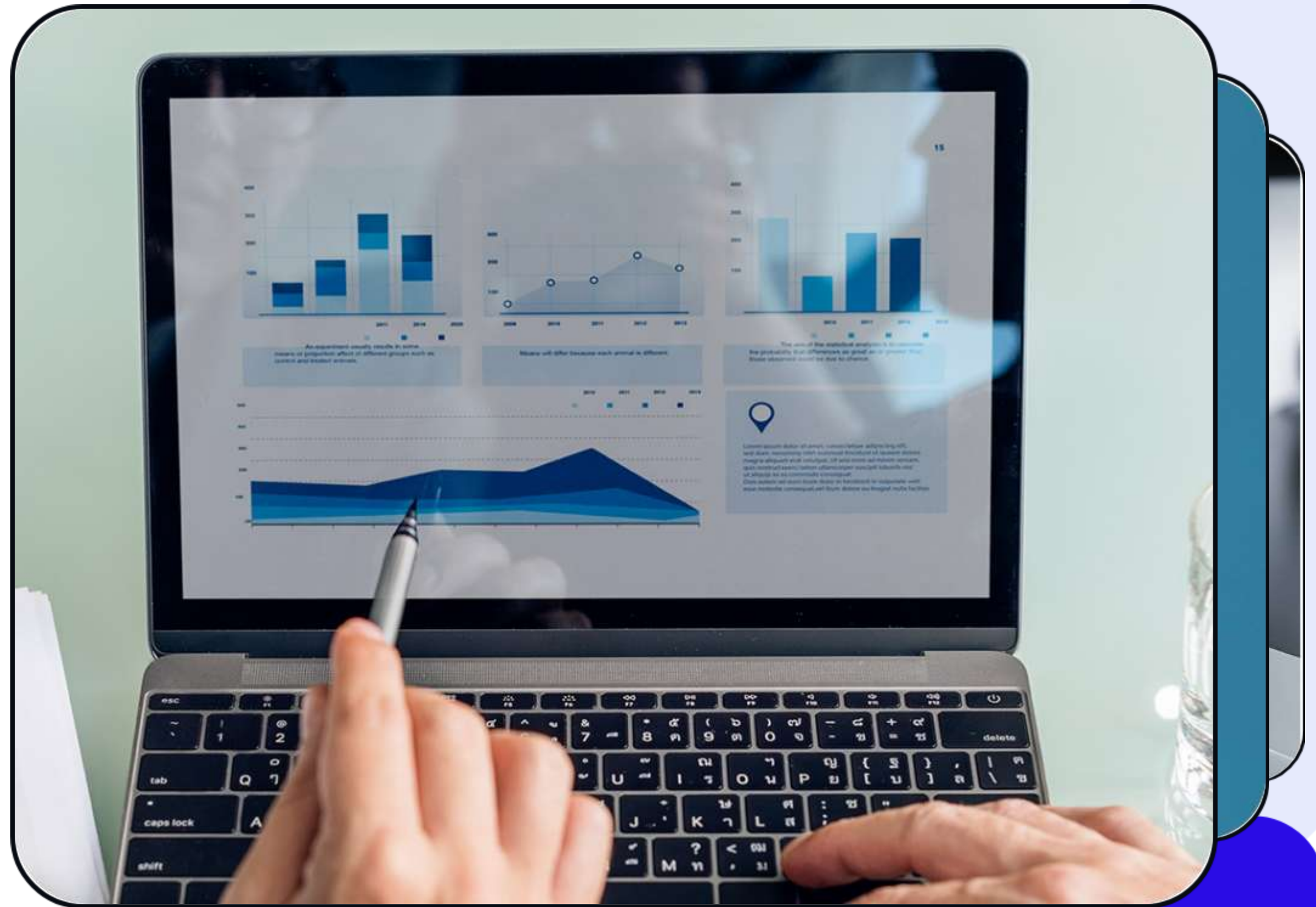
Core IT Automation Solutions

- i. SCADA Systems
- ii. ERP Integration
- iii. RPA
- iv. MES



Data Management & Analysis Solutions

- i. IoT-Enabled Devices
- ii. Big Data Analytics
- iii. Cloud Integration



Quality Control & Compliance Solutions

- i. Automated Quality Inspections
- ii. Regulatory Compliance



Operations Optimization Solutions

- i. Predictive Maintenance
- ii. Energy Management
- iii. Supply Chain Automation



Cybersecurity Solutions

- i. Industrial Cybersecurity
- ii. Network Management



Industries We Serve

Diverse Industry Expertise

Oil & Gas

Expertise in the oil and gas sector, addressing specific industry challenges.



Chemical & Petrochemical

Knowledgeable in the chemical and petrochemical industries, focusing on innovation and efficiency.



Pharmaceutical

Specialized in pharmaceutical processes, ensuring compliance and quality.



Food Processing

Experience in food processing, emphasizing safety and quality assurance.



Water Treatment

Proficient in water treatment solutions, promoting sustainability and health.



Renewable Energy

Involved in renewable energy projects, supporting the transition to a greener economy.



Industrial Manufacturing

Focused on industrial manufacturing, enhancing productivity and reducing waste.



Why Choose Us? What Sets Us Apart?



Future-Ready Manufacturing

Enable businesses to stay ahead with smart, scalable, and innovative solutions tailored to the needs of modern manufacturing.



End-to-End Partner

Everything from designing and building mechanical systems to integrating cutting-edge technology for automation and data management.



Unique Expertised Offerings

Fabrication excellence, IT integration for automation, and skilled manpower for reliable project support.



Experienced Fabricators

A formidable team of fabricators and engineers boasting over 2 decades of experience.

Our Process: How We Work

Lean Six Sigma Approach to Turnkey Specialized Steel Engineering Solutions



**Define:
Understanding
Requirements**

We identify project goals, challenges, and deliverables through detailed consultations to align with your objectives

**Measure:
Assessing the
Baseline**

Critical data on specifications and processes is gathered to establish benchmarks for success.

**Analyze:
Engineering the
Solution**

Data is analyzed to pinpoint inefficiencies, and custom equipment plans are designed to meet your needs.

**Precision
Manufacturing
and QA**

Solutions are manufactured with a focus on quality, with rigorous testing to meet specifications before delivery.

**Installation and
Commissioning**

We ensure safe installation and commissioning, validating performance under real-world conditions.

**Post-
Commissioning
Support**

Ongoing support, training, and optimization ensure efficiency and continuous improvement



Thank You!

**Let's Collaborate on
this Captivating
Journey**

Reach Me

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Mail us: Business@onestepengg.com / ashish.p@onestepengg.com