

Solving Today, Shaping Tomorrow

**SEMCO**



# ABOUT SEMCO

Founded in 2008, SEMCO (Steelfab Engineering Manufacturing Company) is an ISO 9001:2015 certified global provider of Engineering, Design, Manufacturing, and Commissioning solutions for the chemical process, oil & gas, surfactant, and pharmaceutical industries. With over a decade of proven expertise, SEMCO delivers end-to-end turnkey plants, process equipment, and automation systems that help industries enhance productivity, optimize energy use, and ensure sustainable growth.

Bringing together more than a decade of exhaustive experience with an ardent desire to provide innovative solutions with tailor made processes and projects across the globe, SEMCO's plants, products, services, and solutions help industry better resource productivity and improve the bottom line.

Our Portfolio includes process equipment supply, Chemical Process, Oil & Gas, Surfactant and pharma industry, Solvent recovery plant, Batch & Continuous Reactors, PEB for plants, civil, sugar plants, airports, metro stations, Car Parking system etc.

## Our Vision

To be a global technology leader in chemical process, oil & gas, surfactant, and pharmaceutical industries serving our customers, people, and communities through innovation and integrity.

## Our Mission

To deliver integrated Engineering, Design, Manufacturing, and Commissioning solutions that empower process industries with efficiency, reliability, and automation.

## WHO WE ARE

A leading platform for the processing and automation for Chemical Process, Oil & Gas, Surfactant and pharma industry, Solvent recovery plant, Batch & Continuous Reactors, Distillation Plants.

## WHAT WE DO

1. Turnkey Process Solutions from design to commissioning under one roof
2. Tailor made Equipment & Systems customized to unique process requirements
3. Automation & Control intelligent systems for efficient operation
4. Technical Support dedicated service and maintenance across India and abroad

## OUR EXPERTISE

TURNKEY PLANTS | DISTILLATION | EVAPORATION | DRYERS | VACUUM SYSTEMS | SOLVENT RECOVERY | PROCESS EQUIPMENTS ATFE | SPDU | ANFD | RVPD | SPIRAL HEAT EXCHANGER | PANEL & AUTOMATION



**SEMCO**  
Star Infrastructure Pvt. Ltd.

(CIVIL STRUCTURE)



**SEMCO Projects**  
Pvt. Ltd.

(PEB STRUCTURE)



**SEMCORP Process**  
& Vacuum Systems  
Pvt. Ltd

(PROCESS PLANT)



**Steelfab Engg.**  
& Mfg. Co.

(HEAVY FABRICATION)



**Sugartech Process**  
Solutions Pvt. Ltd.

(SUGAR PLANTS)

## TURNKEY PLANT SUPPLY



SEMCO provides complete turnkey solutions covering design, engineering, procurement, construction, and commissioning all managed seamlessly by one expert team. This eliminates the need to coordinate multiple contractors and ensures timely, cost-efficient, and high-quality project delivery

## VACUUM SYSTEMS

We specialize in Dry Screw Vacuum and boosters Technology for chemical and process applications, integrating automation for optimized energy efficiency and reliability. Our in house machining and assembly centers allow us to customize solutions to meet every client's unique vacuum requirements.



## PANEL and AUTOMATION



Our Electrical & Instrumentation (E&I) division manufactures in-house MCC/PCC panels, PLC control panels, and HMI systems. We develop custom logic, SCADA screens, and process automation systems that offer total plant control with real-time visibility, data logging, and energy optimization.

## EVAPORATION

SEMCO designs and manufactures high performance evaporators: Falling Film, Forced Circulation, Wiped Film, Scraped Surface, and Thin Film Evaporators. These systems ensure maximum heat-transfer efficiency and are ideal for food, dairy, chemical, and pharma industries.



## DISTILLATION TECHNOLOGIES



We design custom-built distillation plants for solvent recovery, purification, and chemical separation. Our systems integrate advanced process automation and energy optimization techniques to achieve consistent purity, reduced operating costs, and minimal maintenance.

## CRITICAL AND HEAVY PROCESS EQUIPMENTS

We engineer and fabricate a wide range of process equipment including Reactors, High-Pressure Vessels, Heat Exchangers, Columns, and proprietary process systems all designed for maximum reliability and performance under extreme conditions.



## ATFE and SPDU



We Design ATFE for efficient heat transfer and rapid evaporation of viscous, heat-sensitive, or fouling materials. The ATFE ensures gentle processing with minimal residence time, ideal for applications in food, pharma, and chemical industries.

The SPDU we offers are precise for separation and purification of high value compounds under high vacuum and low temperature conditions.

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|-------------------------------|---|
| <b>Reactors:</b>              | <b>Custom-built for specific reactions and processes</b>              |
| <b>High-Pressure Vessels:</b> | <b>Engineered for extreme conditions and applications</b>             |
| <b>Heat Exchangers:</b>       | <b>Designed for efficient temperature control and energy transfer</b> |
| <b>Columns:</b>               | <b>Tailored for precise separation and processing</b>                 |
| <b>Proprietary Equipment:</b> | <b>Custom-designed to meet client-specific needs</b>                  |

## REVAMPING & DEBOTTLENECKING

1. Audit of the plant
2. Feasibility studies based on the audit done
3. Firm solution based on studies for the modification and revamp of existing plants
4. Suggestion on operational improvements if required
5. Capacity increase/de-bottlenecking
6. Optimization of energy consumption
7. Upgrading of the process control system

## ENGINEERING SERVICES

1. Basic Engineering Package: Developing PFDs, P&IDs, equipment sizing, and more
2. Modular Configuration: Considering space, process, maintenance, HSE, and transportability
3. Layout Design: Structural, piping, electrical, and instrumentation layouts
4. Prefabrication and Assembly: Structural and piping assembly
5. Procurement: Sourcing static equipment and materials
6. Manufacturing: Producing equipment and modules
7. Installation: Equipment, piping, instrumentation, and electrical installation
8. Factory Acceptance Test: Ensuring quality and functionality



# "Innovation That Moves the World Forward"



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