



STAR INNOVATION CO.

Engineering Excellence & Solutions



BUSINESS COMPANY PROFILE



VISION رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



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ABOUT US

Star Innovation is a premier multidisciplinary engineering firm delivering end-to-end industrial solutions across the Middle East and India. We specialize in high-precision services for sectors including Oil & Gas, Petrochemicals, Power Generation, and Manufacturing. With a focus on technical excellence and safety, we empower our clients to optimize efficiency and maintain regulatory compliance.

WHY US?

-  Based in Dammam's An Nada District, providing rapid-response engineering across the Eastern Province.
-  From mechanical piping to complex Information Technology deployments, our solutions are unified.
-  Our 24/7 maintenance support ensures your operations never experience downtime. We represent the "Star" standard in Saudi servicing.



OUR VISION:

To set the global benchmark in engineering innovation and client-centric industrial execution.



OUR MISSION:

To drive sustainable growth for our partners through customized, value-driven consulting and technical services.



COOLING TOWERS

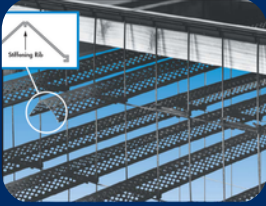


➤ Comprehensive solutions for industrial cooling systems to ensure maximum thermal efficiency and extended equipment lifespan.

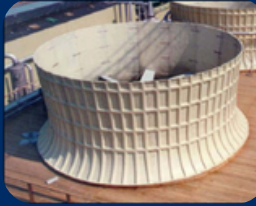
- Supply of Cooling Towers internal spares (like PVC Film Fills, PVC V-Bar, PP Grid Fills, PP Trickle Fills, Drift Eliminators, Nozzles, SS Grid, etc.) & mechanical spares (like Gearbox & it's spares, Drive Shaft & it's spares, FRP Fan Assembly, Aluminium Fan Assembly, etc.).
- Annual Maintenance Contact (AMC)
- Renovation and modernization of existing cooling towers (cross, counter, natural draft-hyperbolic towers) including civil, mechanical, structural & thermal part.
- Retrofitting & Up-gradation beyond original design capacity.
- Emergency repairs & servicing with required spares supply.
- Preparation and submission of reports – includes prediction / comparison of present performance of cooling tower with respect to its original design conditions, root cause for deviation, probable remedies to improve performance, techno-commercial budgetary proposal to carry out proposed modifications.



COOLING TOWER'S COMPONENTS / SPARES



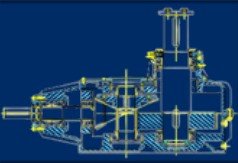
PVC V-Bar



FRP Fan Cylinder



Drift Eliminator



Gear Reducer



FRP Structure



Tower Motor



GRP / FRP Grid

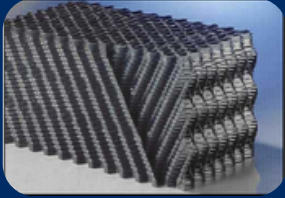


Nozzles

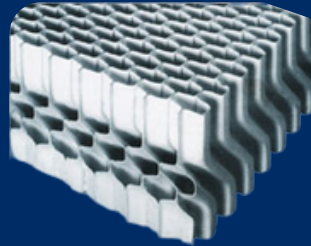


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PVC Film Fills



PVC Cellular Type Drift Eliminator

DESIGN & ENGINEERING

- (a) Experienced team to work with you through design, budgeting, planning, and installation, commissioning & testing.
- (b) Custom design for any application.
- (c) Custom cell sizes to fit existing basin.
- (d) Fill selection to suit your application.
- Supply, erection & commissioning of new Cooling Towers (FRP Package & Industrial Cooling Tower in Counter Flow & Cross Flow option. MOC : RCC, Timber, Pultruded FRP, Steel, RCC cum Steel)
- Performance / status testing of cooling tower as per CTI ATC 105 procedures to establish cooling tower performance / capability.
- Thermal, mechanical, structural audits of cooling tower.



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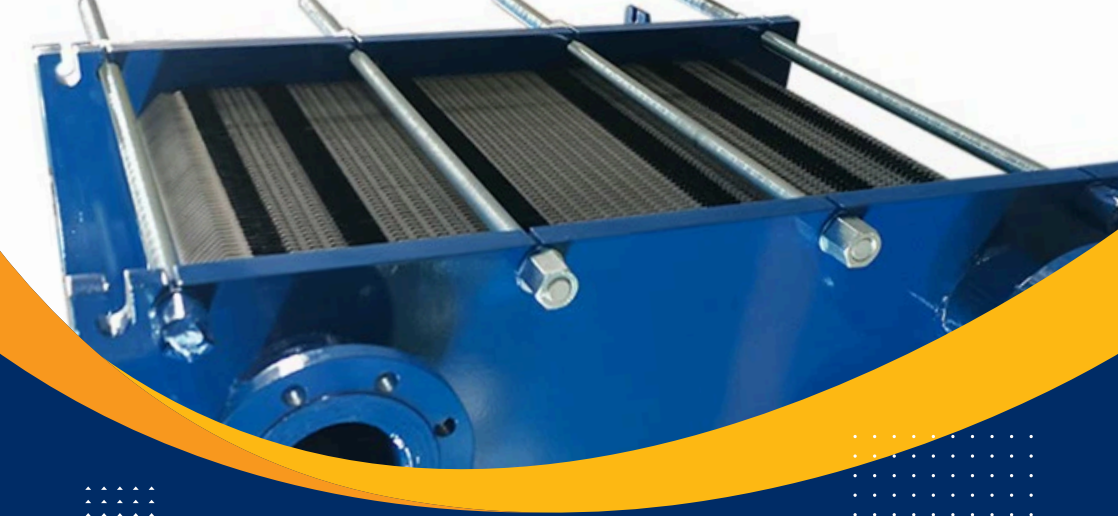


CHILLERS

➤ Providing reliable, heavy-duty cooling through advanced chiller technology, comprehensive maintenance, and expert overhauls.

- Installation and commissioning of New Chillers (Air Cooled, Water Cooled, Hybrid).
- Annual Maintenance Contracts (AMCs) for continuous reliability.
- Complete compressor overhauling and rewinding.
- Condenser tube cleaning and replacement.
- Advanced sensor repair, calibration, and control panel upgrades.

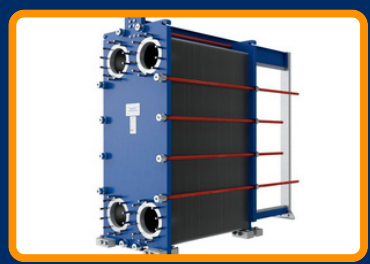
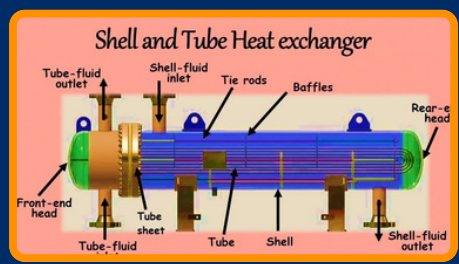




HEAT EXCHANGERS

➤ Optimizing process heat transfer efficiency through specialized supply, chemical cleaning, and mechanical refurbishment.

- Supply and installation of Plate (PHE) and Shell & Tube heat exchangers.
- High-pressure hydro-jetting and chemical flushing.
- Hydrostatic pressure testing and leak detection.
- Sourcing and replacement of OEM parts including gaskets and titanium/SS plates.
- Thermal performance assessments.

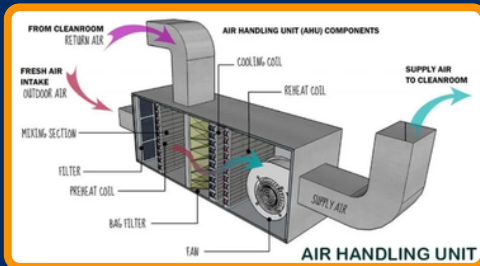




AIR WASHERS & FAHU

➤ Advanced Air Washing and Fresh Air Handling Units (FAHU) to maintain critical airflow, humidity, and indoor air quality standards.

- Replacement and upgrade of Cellulose cooling pads.
- Installation of high-efficiency mist eliminators.
- Integration of precise humidity control sensors.
- Complete unit structural refurbishment and anti-corrosion coating.
- Cooling coil maintenance, fin combing, and deep cleaning.





DUCTING

➤ Professional engineering, fabrication, and installation of complex industrial and commercial HVAC ducting systems.

- Custom GI, PI, and MS duct fabrication based on precise airflow dynamics.
- Installation of volume control dampers, VAVs, and fire dampers.
- Specialized facility thermal and acoustic insulation (cladding).
- Duct leakage testing and air balancing services.
- Extraction system setups for hazardous environments.





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INDUSTRIAL PIPING

➤ High-end, robust piping solutions engineered for chilled water networks, steam lines, and complex process fluid management.

- End-to-end piping system design, routing, and 3D modeling.
- Welding and fabrication for MS, SS, and specialized alloy pipes.
- Hydrostatic and pneumatic pressure testing.
- Precision installation of motorized valves, strainers, and actuators.
- Pipe wrapping, lagging, and underground pipe protection.





PROCESS SKIDS

➤ Prefabricated, self-contained modular units custom-packaged for specific industrial processing requirements.

- Custom engineering and structural design of modular frameworks.
- Fabrication of Fuel Gas, Oil Modular, and Chemical Injection Skids.
- Assembly of precision Metering and Pumping Skids.
- Factory Acceptance Testing (FAT) prior to site delivery.
- Plug-and-play site installation minimizing facility disruption.





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IT & AUTOMATION

➤ Deploying modern digital infrastructure and control systems to digitize, monitor, and optimize heavy industrial operations.

- Integrating smart IoT sensors for real-time equipment monitoring.
- PLC and SCADA system programming and panel building.
- Implementation of industrial automation to reduce manual oversight.
- Creation of digital data twins for facility management.
- Upgrading legacy systems to modern, cloud-connected interfaces.



MAINTENANCE

➤ Comprehensive civil, mechanical, and structural maintenance programs tailored for demanding industrial and commercial sectors.

- Scheduling and execution of routine preventive inspections.
- 24/7 dedicated emergency response teams for critical breakdowns.
- Structural refurbishment, painting, and anti-corrosion treatments for aging sites.
- Civil works related to equipment foundations and plant modifications.
- Vibration analysis and predictive maintenance reporting.





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MANPOWER & LOGISTICS

► Strategic provision of highly skilled technical personnel alongside seamless, end-to-end supply chain and logistics clearance.

- Supplying vetted Subject Matter Experts (SMEs), welders, and technicians.
- Heavy equipment lifting and rigging planning.
- International and domestic freight management for oversized industrial parts.
- Managing complex customs clearance documentation and compliance.
- On-site material handling and secure warehousing solutions.



LOGISTICS



LANDSCAPING & SAPPLINGS



➤ Professional landscaping services for industrial and commercial sectors, creating sustainable green zones with high-quality sapplings.

- Landscape design and site planning for large industrial premises.
- Supply of indigenous and ornamental sapplings for diverse climates.
- Automated and manual irrigation system design and maintenance.
- Scalping, soil preparation, and fertilization services.
- Routine landscape maintenance, pruning, and health monitoring.
- Creation of vertical gardens and decorative green partitions.





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Commercial
Registration Certificate



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