



Safety & Quality:
Our Tradition, Our Priority

Since 1982



About Kanooz

Trusted Partner in Industrial Services

Kanooz is a premier industrial services provider specializing in Mechanical Maintenance, Chemical Cleaning, Catalyst Replacement, and Tank Maintenance. With decades of experience, we have successfully executed several shutdowns, turnarounds, and maintenance projects for leading refineries, petrochemical, mining plants, and industrial facilities.

At Kanooz, safety is not just a priority; it is our tradition. We are committed to delivering high-quality, safe, and efficient solutions to meet the dynamic needs of the industry. Our skilled workforce, cutting-edge technology, and adherence to international safety standards make us the trusted partner for critical maintenance and turnaround services.



MISSION

To deliver world-class industrial services with an unwavering commitment to safety, quality, and innovation, ensuring operational excellence for our clients.



VISION

To be the leading service provider of industrial maintenance and turnaround solutions in the region, setting new benchmarks in safety, quality, efficiency, and reliability.

LIST OF INDUSTRIAL SERVICES

SPECIALISED MAINTENANCE SERVICES

TURNAROUND SERVICES

MICRO BLASTING & NANO COATING

DECOKING & SMART PIGGING

AUTOMATIC TANK CLEANING SYSTEM (ATC)

CATALYST REPLACEMENT & REACTOR REPAIRS

DECONTAMINATION SERVICE

CRYSTAL CLEANING FOR AIR FIN COOLERS

INDUSTRIAL CHEMICAL CLEANING

FLARE TIP MAINTENANCE

PIPELINE PIGGING & SCRAPPING

HEAT EXCHANGER MAINTENANCE

HEAT EXCHANGER RETUBING

COLUMNS & VESSELS MAINTENANCE

HYDROJETTING & HYDROMILLING

LUBE OIL FLUSHING, FILTRATION & DEHYDRATION

NITROGEN SERVICES, DRYING, PURGING & COOLING

HEAVY EQUIPMENT REPLACEMENTS & RIGGING

TANK MAINTENANCE

TANK FABRICATION & ERECTION

BLASTING & PAINTING

PIPELINE FABRICATION & ERECTION

WASTE MANAGEMENT SERVICE

DRY BULK & WET VACUUMING, SUPERSUCKERS

DIVING & UNDERWATER MAINTENANCE

HIGH VOLUME DEWATERING

HYDRAULIC BOLT TORQUEING SERVICES

PRE-COMMISSIONING SERVICES

FRESH CATALYST LOADING

CHEMICAL CLEANING AND PASSIVATION

COOLING WATER SYSTEM PASSIVATION

HIGH VELOCITY LUBE OIL FLUSHING

INTERNAL FIXING OF COLUMN & VESSELS

STEAM BLOWING

PIPELINE FLUSHING & PIGGING

HYDROJETTING AND HYDROMILLING

BLASTING AND PAINTING

HYDRO TEST OF TANKS & PIPELINES

EQUIPMENT RENTAL

NITROGEN SERVICES

SERVICES OFFERED



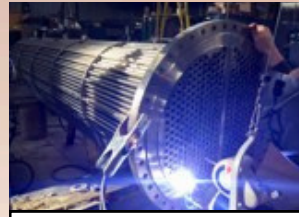
TURNAROUNDS & INSPECTIONS



MICRO BLASTING & NANO COATING



HEAT EXCHANGER RETUBING



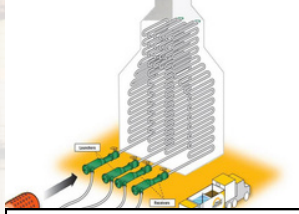
HEAT EXCHANGER MANUFACTURING



BUNDLE PULLING



DECOKING & DESCALING



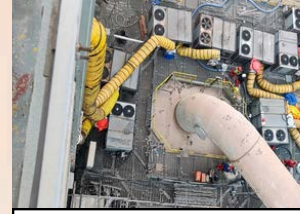
SMART PIGGING / INSPECTION



CATALYST HANDLING SERVICES



TUBULAR REACTOR SERVICES



INDUSTRIAL COOLING SERVICES



FLARE REPLACEMENT / REPAIR



HYDROJETTING & HYDROBLASTING



WASTE MANAGEMENT



AUTOMATIC TANK CLEANING (ATC)



TANKS & VESSELS MAINTENANCE



EQUIPMENTAL RENTAL



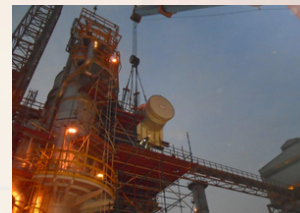
CHEM CLEANING & DECONTAM



PIPELINE FABRICATION / ERECTION



REVAMPS AND RETROFITS



RIGGING & HEAVY LIFTING



BOLT TORQUING & TENSIONING



LUBE OIL FLUSHING & FILTRATION



PROFESSIONAL MANPOWER SUPPLY



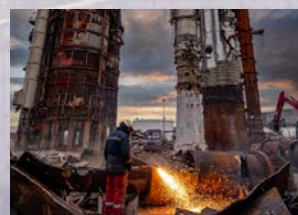
NITROGEN PURGING



CRYSTAL CLEANING FOR AIR FINS



PICKLING AND PASSIVATION



INDUSTRIAL DEMOLITION

PLANT TURNAROUND AND MAINTENANCE SERVICES

Kanooz offers planning and execution of maintenance activities during the plant shutdowns and Turnarounds Projects.

Scope Includes:

- Heat Exchanger Maintenance, Bundle Pulling Overhauling, etc.
- Column Cleaning, repair and revamping, Replacement of Trays/ Internals Etc.
- Vessels opening, cleaning, inspection, repair and modifications
- Removal and installation of valves for servicing
- Pipelines maintenance, repair and modification
- Tank decommissioning, cleaning & maintenance including bottom, shell and roof plate change and repairs
- Chemical Cleaning, Process decontamination, Lube Oil flushing etc
- Blinding and De-blinding of equipment and systems
- Cleaning, repairs and modifications of Furnaces, Reactors, Reformers, Etc.
- Catalyst Replacements, Tubular Reactor services under inert and normal atmosphere.
- Replacement of Heavy Equipment & Heavy Lifting
- Unloading, Cleaning and Reloading of Column Packing
- Blasting & Coating of equipment, structure and pipelines
- Hydraulic Torquing & Tensioning



Our approach to turnaround management envisages pre-engineering essentials such as scheduling, estimating, planning, task force orientation, etc., and thus to help our customers to minimize the costly downtime. These also help differentiate critical and non-critical tasks, enhancing overall accuracy for achieving completion targets.

Heavy Static Equipment Replacement:

Kanooz has executed several static equipment replacements that include lifting and replacement of Columns, quench towers, vessels, cyclones, exchangers, and fin fan coolers, etc. for mainstream industries in the Kingdom.

Heat Exchanger Maintenance:

Kanooz is involved in heat exchanger maintenance works that include blinding, opening, bundle pulling, cleaning, hydro testing, repairs, retubing, torquing / tensioning and box up of shell & tube exchangers, condensers and maintenance of fin fans etc.

Column Internal Works and Modifications:

Kanooz is involved in major column, tower, and vessel maintenance works and carried out critical column internal installation and repair, modification works through turnaround and long-term contract for mainstream industries.

RESOURCES

Manpower

- Maintenance Engineers
- Planning Engineers
- QA /QC Engineers
- Safety Supervisors & Safety Officers
- Staff Supervisor
- Foreman
- Mechanical Technicians
- Pipe Fitters
- Certified Riggers Level 1,2, 3
- Certified Welders
- Electricians
- Instrument Technicians

Equipments

- Cranes
- Bundle Pullers Torque
- Hydro jetting machines
- Air Compressors
- DGs (Diesel Generators)
- Tower Lights
- Working Tools
- Rigging Tools & Tackles
- Special Tools & equipment
- Hydro- Testing equipment & accessories
- Safety Devices
- Repair Equip & Tools



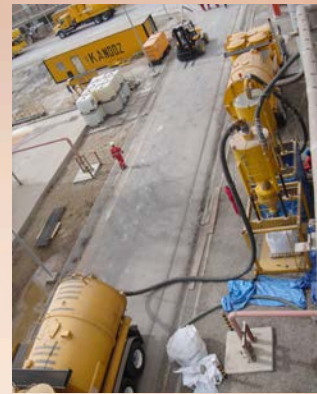
CATALYST HANDLING SERVICES

Kanooz offers specialized catalyst handling services to refineries, petrochemical, and chemical industries. Our highly experienced crew with advanced Lloyd's certified life support system, communication and handling systems can carry out turnkey catalyst change out operations, repairs and modifications for catalytic reactors, vessels, etc. on a blind to de-blind basis.

With a combination of advanced equipment, a well-experienced and highly trained team, Kanooz provides safe & effective job performance.

Scope Includes:

- Confined space and Inert / Toxic entry operations
- Unloading of Catalyst under Inert / Toxic atmosphere
- Screening of Catalyst under continuous nitrogen purging
- Mixing and gravity separation of Catalyst-inert mixer for Catofin catalyst
- Loading by conventional and Licensed Loading Technologies
- Repairs, modifications and welding of Reactors & Vessels
- Video Inspection of Internals and documentation



Specialized Reformer Catalyst Replacement:

Kanooz crews are specialized in confined space entry and catalyst handling under nitrogen (inert) atmosphere, offering full-scope primary and secondary reformer catalyst replacement using multiple proven loading techniques.

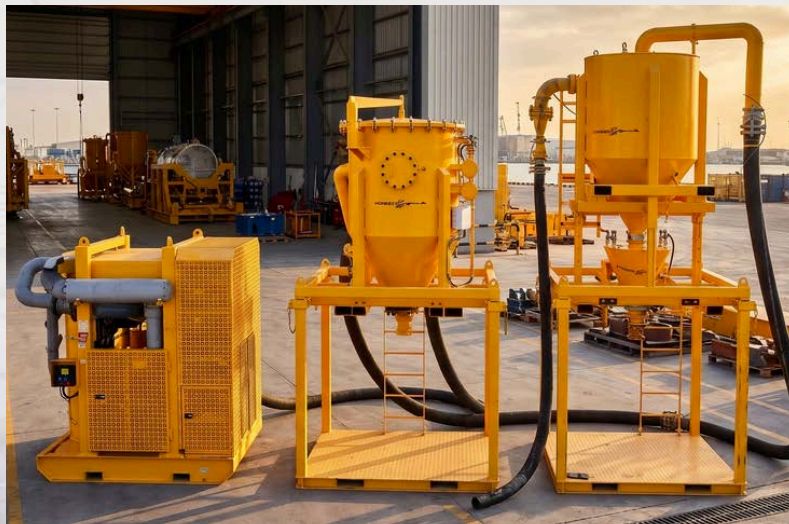
- Primary Reformer Catalyst Replacement — sock loading, cylinder loading, and spring (dense) loading methods
- Secondary Reformer Catalyst Replacement

Our Major Services Cover Reactors & Equipment Including:

- Ammonia Converters — Methanol Converters, Synthesis Loop Vessels
- Hydrocracker Multi-bed Reactors
- High Temperature Shift (HTS) & Low Temperature Shift (LTS) Reactors
- Reformer Reactors
- SAP (Sulphuric Acid Plant) Converter Catalyst
- Hydrogenation Reactors
- Methanators
- Dryers
- Cold Boxes
- Tubular Reactors

Major activities include:

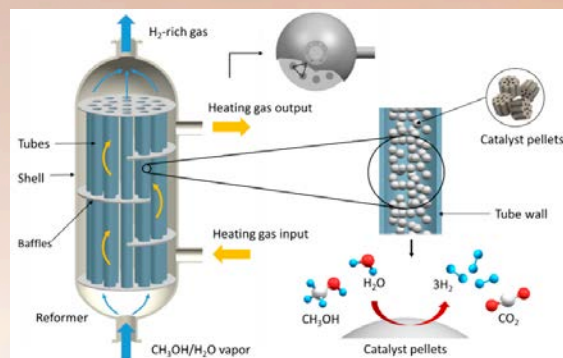
- Pyrophoric catalyst handling under Inert/nitrogen atmosphere
- Screening and loading under inert atmosphere
- Catalyst loading by conventional/by licensed dense loading techniques, Internal repairs, modifications of reactors
- Mixing and gravity separation during the Catofin catalyst replacements
- Tubular reactor catalyst changes out
- Uniform density loading and tube external cleaning for reformers



TUBULAR REACTOR SERVICES

Kanooz provides specialized tubular reactor services in collaboration with TIME Service Germany, supporting refineries, petrochemical plants, chemical units, and shutdown/turnaround projects. Our service covers the complete tubular reactor catalyst change-out cycle, from safe unloading of spent catalyst to tube cleaning, precision reloading, and final pressure loss measurement.

Tubular reactors require careful tube-wise handling to maintain uniform catalyst distribution, avoid flow restrictions, and support reliable reactor performance after start-up. With advanced equipment, trained manpower, and strong local execution support, Kanooz helps clients reduce downtime and complete critical reactor maintenance safely and efficiently.



UNLOADING

We provide safe, fast, and efficient catalyst removal using advanced techniques:

- **Vacuuming:** Quick removal with minimal catalyst breakage
- **Air Lancing:**
 - o Suitable for up to **36,000 tubes**
 - o Tube ID: **25–50 mm** | Length: **up to 15 m**
 - o Dust-free operation with no internal buildup
- **Fish Taping:** Ideal for small diameter tubes (<25 mm)
- **Mechanical Drilling:** Removal of blocked catalyst deposits

Ensures complete unloading with minimal tube damage and faster turnaround



CLEANING

Advanced cleaning technologies to restore tube condition:

- **Brush Cleaning:** Gentle removal of residual deposits
- **Grid / Granulate Blasting:**
 - o Effective for corrosion issues
 - o Suitable for EO, Acrylic Acid, Aniline, MA plants
- **Foam Pig Cleaning:** With/without abrasive material
- **High-Pressure Cleaning:** Final dust removal

Protects tube integrity and prepares for optimal reloading.

LOADING

Precision loading for maximum reactor performance:

- **Belt Conveyors:** Loading of **8 tubes in parallel**
- **Vibration Machines:** Loading of **10 tubes in parallel**
- **Multihead Combination Weigher:**
 - o Weight range: **30–2000 g** (± 1 g accuracy)
 - o Up to **50–55 cycles/min**
 - o Eliminates packaging waste
- **Insert Loading Technology:**
 - o Achieves **2–3% higher volume utilization**
 - o Ensures consistent catalyst height in each tube

Uniform loading ensures optimized deltaP and catalyst efficiency

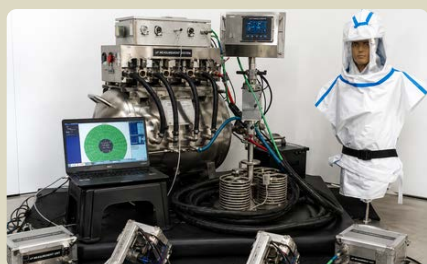


PRESSURE LOSS (ΔP) MEASUREMENT

Ensuring reactor performance reliability:

- Pre- and post-loading **deltaP measurement**
- Uniformity check across all tubes
- Variation maintained **within <5%**
- Multi-channel systems for **fast and accurate results**

Guarantees uniform flow and consistent reactor performance



TUBE & EXCHANGER RESTORATION SERVICES

We are associated with CURRAN INTERNATIONAL (USA) in Saudi Arabia to introduce and promote an advanced cutting-edge technology - Micro Blasting & Nano Coating, and Tube Liners service for Refineries, Petrochemical, Power Generation, Oil & Gas processing Industries. We provide innovative solutions for efficient and reliable operations of Heat Exchangers.

Each of these technologies addresses a specific challenge in heat exchanger maintenance. It avoids frequent clogging of tubes, thereby reducing cleaning requirements of tubes, plugging of tubes, and retubing of bundle. This increases the operating life of heat exchangers and reduces the maintenance cost considerably. The special service is provided mainly on-site during Turnarounds and can also be provided during routine maintenance jobs.

Benefits of Micro Blasting & Nano Coating for Exchangers:

- Reduce fouling
- Precipitate scaling
- Mitigate corrosion and velocity erosion
- Reduces the frequency of routine exchanger maintenance
- Extends the useful life of exchangers
- Reduces head pressure
- Energy savings support Energy Exchanger initiatives



Micro Blasting & Nano Coating applicable for various service:

- Cooling water applications where temperatures are below 400F (204°C)
- Process and crude fouling applications at temps higher than 400F (204°C)
- Reformer Feed Effluent
- 150 Hydrotreater
- Desalter Effluent coolers
- FCC Butanize
- Reactor feed effluent
- Crude Food Prahut
- OD coating on low film
- Sulphur Exchanger
- Air Fin coolers

Tube ID Liners – A Smart Alternative to Plugging & Retubing:

We install custom alloy tube ID liners that restore thinning, pitted, or through-wall tubes — extending heat exchanger and fin fan life without the cost and downtime of retubing or replacement.

Benefits:

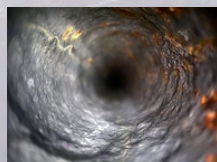
- Mitigates plugging and restores lost operational volume
- Available in custom alloys — stainless steel, duplex, Inconel, CuNi, C276 and beyond
- Thin-wall liners (0.028"–0.035") preserve flow velocities and thermal performance
- On-site installation using proprietary sizing, hydraulic & mechanical expansion methods
- Significant cost savings versus unit replacement — clients report \$500,000+ saved by lining instead of retubing
- Ideal for shell & tube exchangers, fin fans, condensers and other tubular equipment

Curran Clean – Dry Abrasive Tube ID Cleaning:

A specialized dry grit-blasting process that cleans the full length of the tube ID, removing scale and deposits without water or rework — leaving tubes clean, dry, and ready for accurate inspection.

Utilization:

- Specialized tools deliver up to 2x the velocity of air and grit versus conventional methods
- Produces clean, dry tubes verified by borescope — no rework required
- Improves IRIS inspection sensitivity to small pits and defects
- Delivers cleaner RFT/ECT channel signals for greater fill factor, faster inspections, and more accurate wall-loss data
- Removes scale that hydroblasting leaves behind, preventing false thin-wall readings



INDUSTRIAL DEMOLITION & DECOMMISSIONING

Kanooz, in association with KMS Middle East / Koole, offers comprehensive industrial demolition and decommissioning services across onshore and offshore sectors. With over 40 years of combined international experience, our partnership delivers complex, high-risk projects safely, efficiently, and in full regulatory compliance across industrial, maritime, and operational environments.

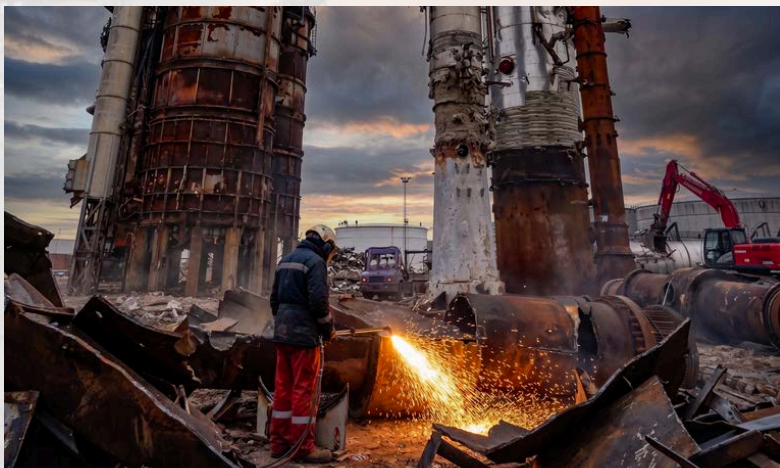
Offshore & Marine:

- Offshore Platform Decommissioning
- Maritime Demolition Services
- Wreck Removal & Salvage
- Emergency Response Services



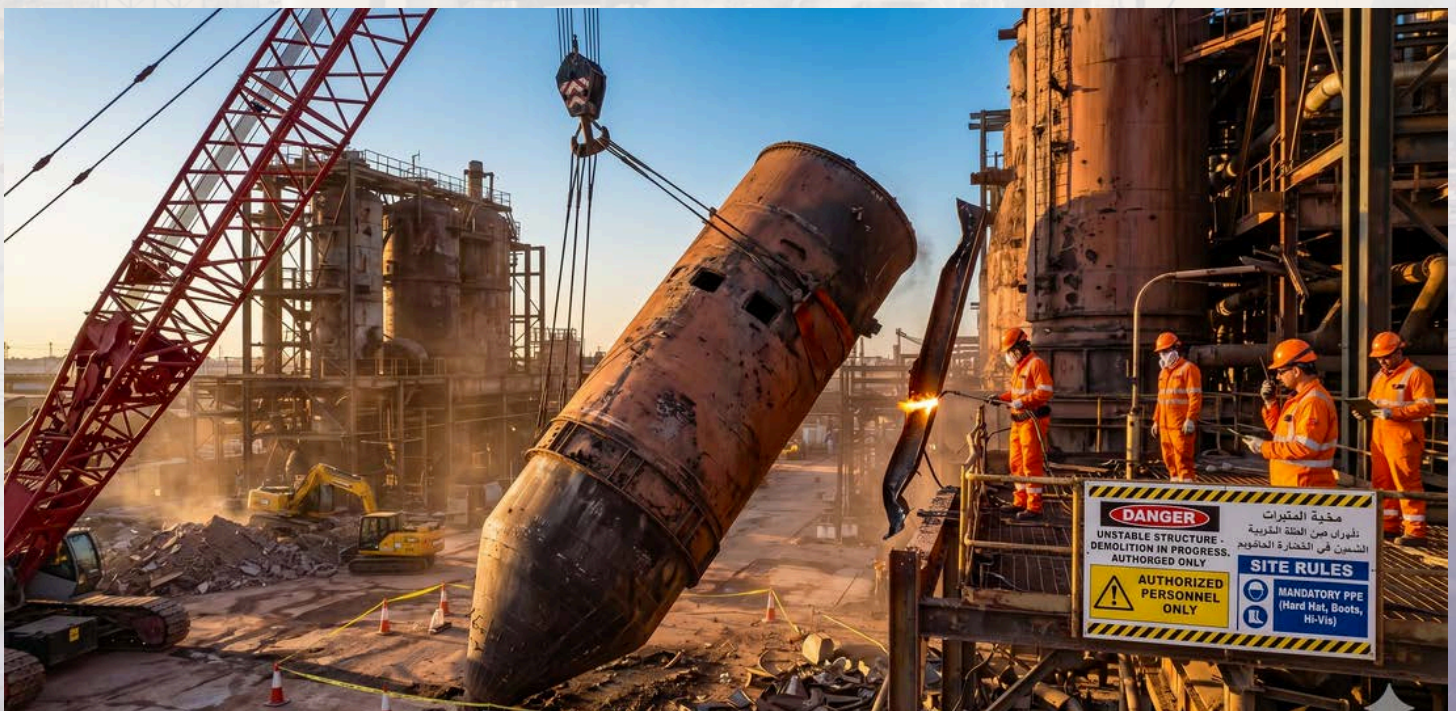
Onshore & Industrial:

- Industrial Demolition of Live & Shutdown Plants
- Decommissioning of Process Facilities
- Industrial Cleaning & Decontamination
- Hazardous Material & Asbestos Removal



Specialized Capabilities:

- Advanced Cutting & Controlled Demolition Techniques
- Dry Ice Cleaning Technology
- Industrial Spill Response & Environmental Cleanup
- Soil Remediation & Pollution Control
- 24/7 Emergency Response Capability



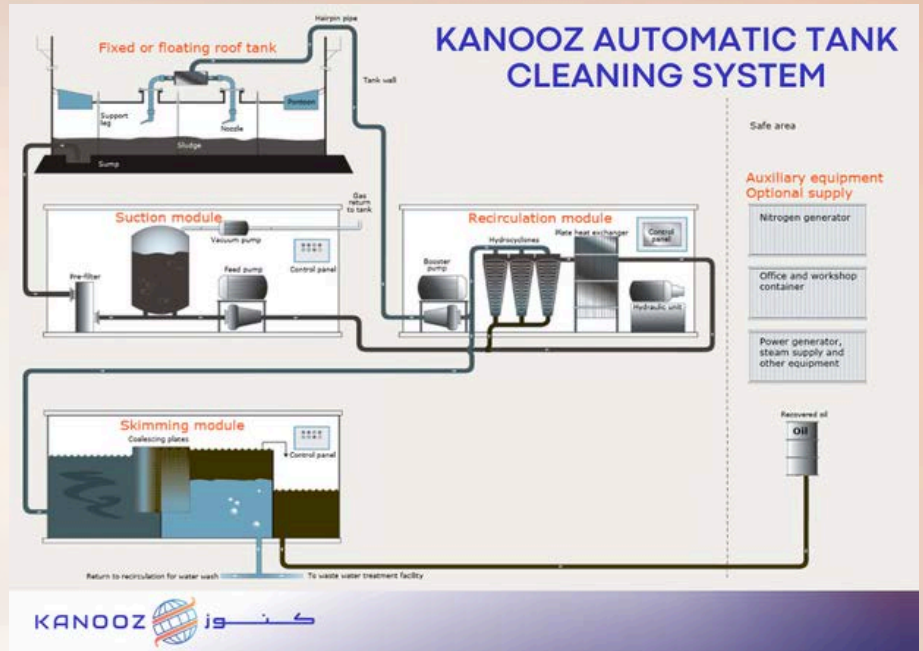
⚠ DANGER ⚠
مخافة المقبرات
UNSTABLE STRUCTURE -
DEMOLITION IN PROGRESS.
الشؤون في الخسارة الحادوية
AUTHORIZED ONLY
SITE RULES
MANDATORY PPE
(Hard Hat, Boots,
Hi-Viz)

AUTOMATIC TANK CLEANING (ATC)

Our Automatic Tank Cleaning (ATC) system is approved by Saudi Aramco as a Best Practice (SABP-001). It offers significant advantages in safety, efficiency, and cost-effectiveness in compared to manual tank cleaning.

Key Benefits of ATC:

- **Enhanced Safety:** Eliminates confined space entry, reducing safety hazards.
- **Environmental Sustainability:** Minimizes waste disposal and transportation costs.
- **Oil Recovery:** Achieves up to 98% oil recovery from sludge, reducing costs.
- **Time Efficiency:** Cleans tanks 70-80% faster than manual methods.
- **Reduced Manpower:** Decreases manpower requirements by 80-90%, further improving safety.

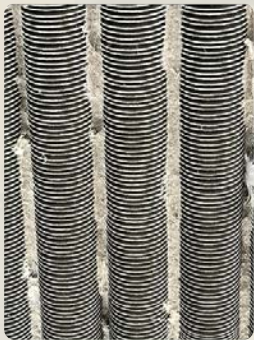


CRYSTAL CLEANING FOR AIR FIN COOLERS

Kanooz offers Crystal Clean, an advanced cleaning solution for Air Fin Coolers, designed to improve performance without process disruption. This service is delivered in collaboration with Indus, utilizing a dry, mechanical cleaning method that removes internal and external fouling without damaging aluminum fins or requiring unit shutdown.

Key Features:

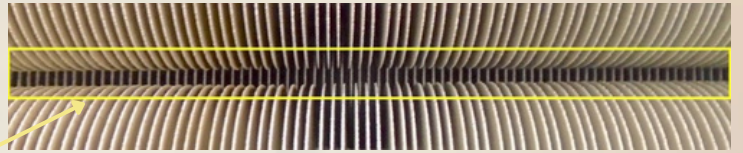
- **Online Cleaning:** Carried out with process in operation—no need to stop induced-draft fans.
- **Non-Invasive:** No scaffolding or shutdown required; performed from platforms under the fans.
- **Damage-Free:** No acids, no fin bending, no surface degradation.
- **High Effectiveness:** Removes fouling from both external fin surfaces and inner tube layers.
- **Environmentally Friendly:** Fouling and cleaning crystals pulverize into fine dust carried away by wind, with minimal fall-down.



Before

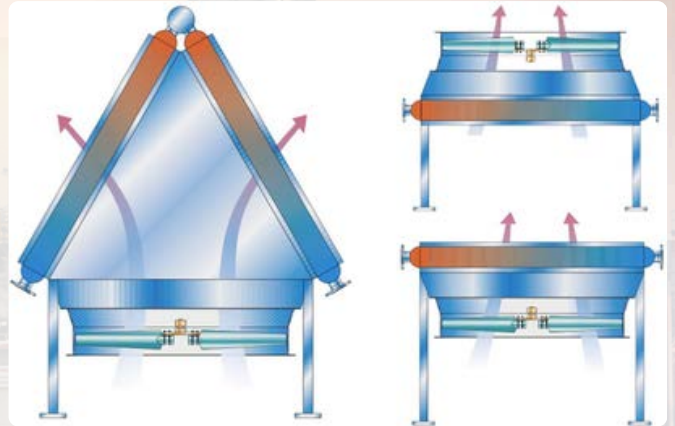


After



How Crystal Clean Works:

- Fluidised mineral crystals are injected with 4-6 bar of compressed air
- Friable crystals undergo fragmentation upon impact
- Both crystals & fouling are pulverized into a fine dust
- Infinite number of collisions lifts away fouling without damaging the aluminum fins.
- The process lifts away contamination via countless micro-collisions, preserving the fin structure.



Proven Benefits:

- Restores thermal efficiency and airflow.
- Prevents >10% production losses due to fouling.
- Suitable for all types of air-cooled heat exchangers.



PIPELINE FABRICATION, ERECTION & VALVE REPLACEMENT

Kanooz provides pipeline fabrication, field erection, valve replacement, testing, flushing, pigging, drying, blasting, painting, and maintenance support for industrial projects.

Services Supplied:

- Prefabrication
- Field installation and erection
- Hydrotesting and NDT
- Flushing, pigging and drying
- Blasting and painting
- Fabrication, replacement and erection during T&I / maintenance works

Manpower Supplied:

- Piping engineers
- Supervisors
- QA/QC supervisors
- Certified welders
- Safety supervisors
- Fitters

Equipment Supplied:

- Cutting and welding equipment
- Erection tools
- Handling equipment
- Lifting and pulling devices
- Flushing equipment
- Blasting and painting equipment
- Cold cutting units



INDUSTRIAL COOLING SERVICES

Provide Industrial cooling services i.e Dehumidification temperature control and ventilation solutions to Refineries, Petrochemical, Chemical, Fertilizer, Power, Ship Building & Paint industry. It includes supply of condensing unit, chiller unit, rooftop units, dehumidifiers, blowers, flexible ducts, cables, panels comprising the HVAC package.

Our package can be designed in range of 50T to 3000T, 40-80 Relative Humidity, temperature 18°C – 75°C, depending on your requirement. Comfortable working condition ranges from 20°C to 23°C temperature & relative humidity of 40 to 60.

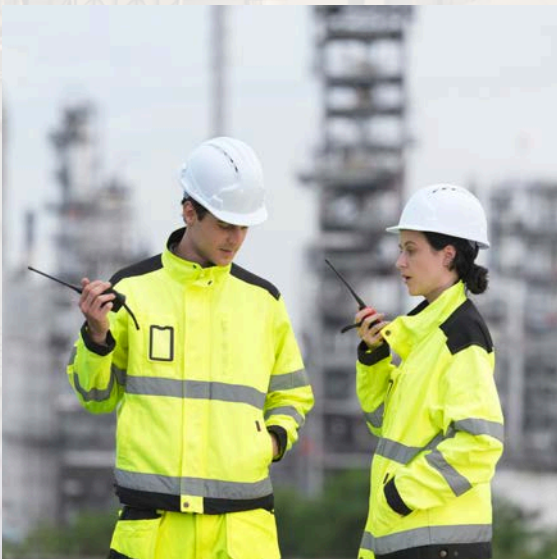
This service is required in Shutdowns/TA's, Projects during catalyst removal, man entry in confined space, quick reactor cool down, Heavy hot work inside columns vessels or reactors thereby maintaining the temperature & relative humidity for comfortable working conditions.



PROFESSIONAL MANPOWER SUPPLY

Kanooz provides a comprehensive range of certified professionals for turnaround, shutdown, and ongoing maintenance operations, including:

- Maintenance Engineers — experienced in static equipment, mechanical systems, and plant maintenance
- Planning Engineers — skilled in scheduling, pre-engineering, and turnaround coordination
- QA/QC Engineers — ensuring compliance with international quality standards
- Safety Supervisors & Safety Officers — enforcing HSE requirements on-site
- Staff Supervisors & Foremen — managing crew performance and daily execution
- Mechanical Technicians — handling equipment maintenance and repairs
- Pipe Fitters — for piping fabrication, erection, and modification works
- Certified Riggers (Level 1, 2 & 3) — qualified for safe lifting and rigging operations
- Certified Welders — proficient in structural and process piping welding
- Electricians — for electrical maintenance and installation works
- Instrument Technicians — for instrumentation, loop checking, and commissioning support



CHEMICAL DECONTAMINATION SERVICES

Kanooz provides turnkey Process Decontamination that renders systems gas-free, hydrocarbon-free, and pyrophoric-free in hours—accelerating safe mechanical entry during turnarounds.

Core Technology:

- **Vapour-Phase & Circulation Chemistries** – water-based, biodegradable formulations that simultaneously de-oil and neutralise LEL, benzene, H₂S, and pyrophoric iron.
- **Solvent-Assist Option** – dissolves heavy organic binders in severely fouled equipment; solvent is fully re-processable in the refinery stream.

Application Modes

- Vapour-Phase®, Boil-Out, Circulation, Combination, Dry-Gas Dispersion
- Columns, towers, vessels, heat-exchangers, reactors, and associated piping loops



Engineered Execution

- Embedded planners conduct pre-shutdown walk-downs, develop injection paths, and generate detailed procedures, drawings, and safety matrices.
- Operator training, tagged injection / drain points, and execution kick-off ensure flawless field delivery.

Environmental & Safety Advantages

- Chemistries maintain effluent pH 6.5 – 8.0, COD < 600 ppm, and ammonia < 5 ppm, minimising wastewater impact and aligning with Kanooz's ISO 14001 commitments.
- Rapid contaminant removal shortens confined-space exposure, supporting Kanooz's zero-harm safety culture.



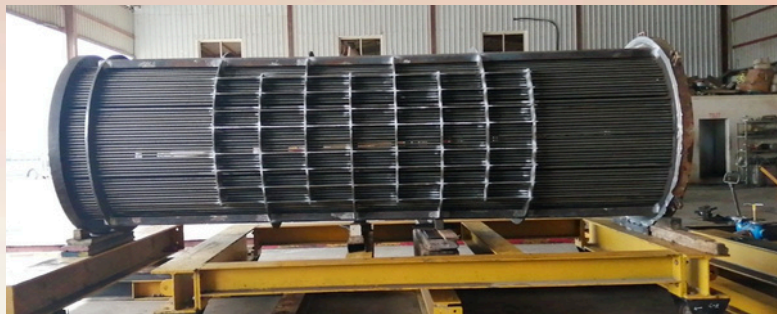
Typical Results

Parameter	After Treatment*
LEL	0 ppm
Benzene	0 ppm
H ₂ S / Mercaptans	0 ppm
FeS	Neutralised
Safe-entry readiness	8 – 12 h

*Verified during recent refinery deployments

HEAT EXCHANGER RETUBING & REFURBISHMENT

We offer a complete range of on-site and off-site heat exchanger retubing services including supply of spare for all types of heat exchangers & condensers. Being ASME 'U' and NBIC 'R' certified company, Kanooz provides comprehensive refurbishment and related certification on any task as applicable.



Being one of the Turnaround services companies in the region, Kanooz provides a complete range of heat exchanger maintenance solutions that include:

Retubing:

- Tubes pulling on-site and off-site
- Tube sheet cleaning, repair & preparation
- Inspection of the tube sheet
- Skelton Assembly
- Tube insertion & Sizing
- Hydraulic tube expansion & Seal welding
- Welding
- Tube testing & Third-party certification
- ASME-U and National Board 'Stamp' certifications

Overhauling:

- Blinding & De-blinding
- Opening & Box up
- Bundle extraction/Pulling
- Tube & Shell repair Tube
- Bundle Cleaning
- Exchanger tubes and shell test
- Internal & External coating
- Inspection services

Spare Parts Supply:

- All types of tubes
- Tube Sheet
- Baffle Plates
- Floating Head
- Tie rods
- Sliding Bar
- Seal Strip
- Spacers

Kanooz is involved in major heat exchanger maintenance & retubing contracts with refineries, chemical and other related industries through long-term contracts and regularly carries out retubing heat exchanger refurbishing works for major industry players during turnarounds, as well as shop repairs.



Kanooz is equipped with the entire range of heat exchanger retubing and overhauling equipment that includes:

- Complete range of Tube pullers, cutters, installation tools, hydraulic tube expanders, welding accessories, tube cleaning & facing tools, etc.
- Kanooz has a team of experts in the field of exchanger tube refurbishing and tube bundle manufacturing with extensive experience that helps us complete the project with a high degree of quality and within the schedule time. Kanooz has carried out several retubing works for major refineries in the recent past, including supply of spare parts.
- We provide job-specific procedures, inspection & test plans, Planning, on-site technical assistance, and execution of retubing package efficiently and to return the equipment to the designed performance.



CHEMICAL CLEANING & DECONTAMINATION SERVICES

We offer a broad range of chemical cleaning services during pre & post-operational or maintenance in the plant, namely boilers, cracking furnaces, steam systems, pipelines, vessels, exchangers, process equipment, etc.

Our strength in engineered cleaning techniques and vast maintenance experience together can provide an excellent cleaning service to its customers. Kanooz has carried out several chemical cleaning jobs in the past with SABIC, SWCC, ARAMCO, and SCECO for boilers, heat exchangers, piping, etc.



Foam Cleaning:

The foam cleaning system is the ideal method for cleaning of process vessels, fin-tube exchangers, surface condensers, high-pressure steam turbines, etc., because of its maximum solvent-to-surface exposure to reach the entire surface without air/gas locks or gaps.

Decontamination Services:

Kanooz had entered a business alliance with approved chemistry from globally renowned companies to render a comprehensive process decontamination service for Oil & Gas Industries.

Being a leading specialized decontamination chemical manufacturer and service provider, we had carried out several projects in Saudi Arabia. Our strength is in proven chemistries, engineering & supervision, associated with safety, quality and maintenance experience, provide a world-class cleaning support to its customers.

Our approach to a safe and quality cleaning process, entrusted by following the steps:

- Choosing the right chemistry depending on metallurgy, scales preservation schedules
- Choosing the right equipment like pumps, temporary piping, fittings, etc. Depending on circuit flow, flow restriction, pressure drops, velocities, and other parameters
- Choosing reliable laboratory monitoring facilities for right control by monitoring parameters during cleaning for proven results



Lube Oil Filtration: Online / Offline Filtration:

Kanooz offers online & offline filtration and EHC system flushing and high velocity lube oil flushing using state of the art filtration and high flow pumps. The high flow filtration system filters the oil to meet or exceed new oil cleanliness specifications. The system is designed to remove particulate contamination from a wide variety of oils, and it is typically equipped with high-efficiency 2.5 microns filter elements from pleated micro glass media rated beta (c) ≥ 200 per ISO 4572 meaning that 99.5% of all particles larger than 2.5 microns are removed from the lube oil of rotating equipment such as turbines & compressors.



Our units are capable of filtering oil to particle count as low as NAS 3 specification. The benefits of using this unit are:

- No need of equipment shutdown. It will save your production loss due to unit shutdown.
- Reuse of old oil with new oil cleanliness specification.

Moisture Removal by Vacuum Dehydration:

The moisture or water contamination has major effects in lubrication systems and leads to costly breakdown issues. The moisture contamination of lube oil leads mainly to the following detrimental effects, such as: corrosion of metal surface, accelerated abrasive water, accelerated fatigue, additive precipitation, fluid oxidation, Viscosity variation, and reduced lubricity. Our vacuum dehydration equipment is one of the most efficient at removing water as it can remove all three types of water contamination (Free water, emulsified water, and dissolved water)

- Remove free, emulsified and dissolved water by vacuum distillation & mass transfer.
- Achieve overall content as low as 20ppm.
- Remove entrained air, and dissolved gases by vacuum distillation.
- Achieve particle counts as low as ISO 14/12/9 cleanliness level.



Varnish Removal System (VRS):

Varnish deposits in lube oil systems cause stiction, overheating, and premature failure of critical rotating equipment. Kanooz's Varnish Removal System operates in a continuous kidney-loop configuration — removing both soluble and suspended varnish without equipment shutdown.

- Reduces varnish potential (MPC) from critical to normal levels within 2–4 weeks
- Achieves ISO cleanliness as low as ISO 14/12/11
- Prevents varnish plating on servo valves, bearings and control surfaces
- Applicable to gas turbines, compressors, EHC and hydraulic oil systems
- No production loss — runs online alongside equipment



Equipment Specification:

Pump Flow	1000 To 2000 GPM
Discharge	6 Bar
Drive	Electric
Filtration	12 Element Cartridge Filters
Unit Heater	120kw
Particle Monitor	Inline Laser Particle Counter

High Velocity Oil Flushing:

High Velocity Lube Oil flushing is the circulation of lube at a rate of three or more times the normal flow rate of the system pump. This rate of flow causes the fluid to become a scrubbing medium based on molecular implosion through high frictional forces, thus removing adhered contaminants from the piping walls and transports them to the filtration points downstream.



NITROGEN SERVICES

Kanooz offers comprehensive liquid and gaseous nitrogen services for the oil & gas industry with state of the art on-site high-pressure liquid nitrogen vaporizers and on-site PSA nitrogen generation systems. The services include purging, pressure testing, cooling, drying of plant systems during shutdowns and commissioning.



Liquid Nitrogen Vaporizers

Our high-pressure, high-flow nitrogen vaporizers can deliver gaseous nitrogen on-site at a temperature range of 20°C to 50°C at 10000psi pressure at the rate 3000cfm (180000 scfh). This high flow, high pressure equipment allows us to handle cooling of catalytic reactors, process systems, purging of process loops, inert & high-pressure testing of process equipment and pipelines faster than the conventional methods and facilitate the displacement of hazardous chemicals from pipelines and pigging of pipelines etc.



The Nitrogen Services Include:

- Pipeline Purging, Drying & Preservation
- Reactor Cooling, Purging
- Pressure Testing Up To 10000 Psi
- Hazardous Chemical Scavenging
- Pipeline Pigging
- Decommissioning Of Process Loops
- Process Equipment Blanketing
- On-Site Nitrogen Generation (PSA)



On-Site PSA Nitrogen Generation

In addition to our liquid nitrogen vaporizer fleet, Kanooz now offers on-site nitrogen generation using the Kanooz (PSA) Nitrogen Generator — producing nitrogen directly from atmospheric air, eliminating dependency on liquid nitrogen supply and transport.

Key Specifications:

- Capacity: 300 Nm³/h
- Containerized in 20ft container — mobile and site-deployable
- Fully automated operation: auto start/stop based on demand
- Continuous purity and pressure monitoring via HMI panel
- Operating temperature range: +5°C to +45°C
- Power supply: 110–240V PLC / 400V compressor

Advantages over conventional liquid nitrogen supply:

- Continuous on-site production — no resupply logistics
- Ideal for long-duration operations, turnarounds, and remote locations
- Lower cost-per-Nm³ for sustained nitrogen demand applications



DECOKING & SMART PIGGING SERVICES

Kanooz is equipped with 03 nos. of double-pumping high-flow machines, integrated with a common header delivery system, and supported by trained and experienced technicians to carry out decoking, descaling, and smart pigging / inline inspection services for pipelines and furnace heater tubes.

Our comprehensive Decoking and Descaling services for fired heater tubes and pipelines are facilitated with specially designed pigs and driving equipment for oil & gas industries. Kanooz has invested in decoking equipment and accessories to cater to the requirements in the industry and successfully built its state-of-the-art equipment and organized a reliable team to carry out any decoking & descaling services.

We successfully carried out decoking of many heaters for ARAMCO, BAPCO, and SABIC affiliates across gulf region. Our existing long form contract with esteemed clients testify to our decoking and smart pigging service.

Decoking, pipeline pigging capabilities, SMART pig inspection specialties, and the use of an efficient common header delivery system play a vital role in ensuring reliable and efficient furnace and heater operations.



Equipment Specification:

Flow	180000 SCFH (3000 SCFM)
Pumping Rate	32 GPM LN2
Max Pressure	10000 PSI GN2
Temperature	72 F GN2
Nitrogen Tank	3000 Gallons
Main Drive	550 HP Diesel
Trailer	42 FT Triple Axle
Vaporizer	Non-Fired

Equipment & Accessories:

Double Pumper Unit	3x2000 GPM
Launchers/Receivers	4" To 24"
Poly Pigs	2" To 24"
Foam Pigs	2" To 24"
Decoking Pigs	2" To 12"
Pumps	600 M ³ /HR



ENGINEERING & PROJECT MANAGEMENT SERVICES

Kanooz offers engineering, planning, pre-fabrication, and erection of plant systems for modification and maintenance projects, which include off site/on-site prefabrications, site erection activities, and heavy equipment replacement works, etc. during turnarounds & unit shutdowns/modifications. Kanooz has carried out several modification, repair and replacement work in the past for SABIC, ARAMCO and other mainstream industries in the Kingdom on a turnkey basis.

Our quality control department and QMS maintains the required range of welding certifications and other NDT testing works as per the project requirements. The full-fledged engineering & planning team takes care of project pre-engineering & planning including designing, drawings, monitoring and post project documentations such as as-built drawings, reports etc.

Scope Included:

Piping: Pre-fabrication, on-site dismantling, erection, modifications & repair, testing & flushing.

Equipment: Heavy equipment replacement, repair, modifications, heavy lift, Transportation & Internal Works.

Tanks & Vessels: Tank & Vessels decontamination, repair & modifications.

Project Engineering, planning & scheduling, pre-engineering, planning, QA/QC documentations, final drawings and reporting.

Misc. Works: Blasting, painting, insulation, scaffolding, and Refractory Work.



Piping:

Kanooz has executed several piping assignments such as pre-engineering, planning, procurement, pre-fabrication, testing, site erection, painting and pre-commissioning works for pipelines & systems for replacement and modification requirements. The project requirement also includes decommissioning/decontamination of plant systems, cleaning, cold cutting and in-site repair/modification works on blind-to-blind basis.

Equipment Replacement:

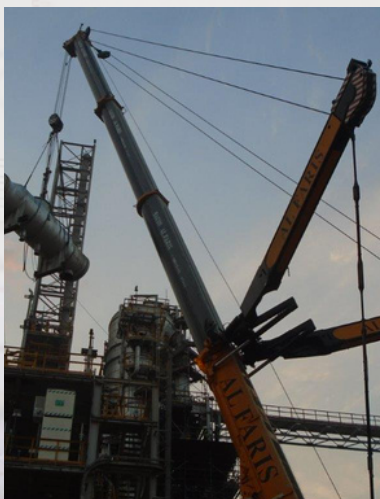
We are involved in the replacement of static equipment such as columns, vessels, reactors, chimney / stack, heat exchangers, etc. It included with supply & modification of internals, associated piping and insulation works. Kanooz has carried out several projects that demand a complete range of activities, including blinding, cleaning & decontamination, heavy lift & rigging for equipment replacement, internal modifications, packing & tray replacements, flushing & pre-commissioning works.

Our experienced rigging crew is capable of handling heavy equipment removal and re-erection works where difficult access locations are involved. We successfully carried out several equipment replacements works such as columns, vessels, and heat exchangers using cranes up to 1200 tons in the past.

Our overall safe handling and engineering approach envisages NDT testing and condition assessment of lifting hooks and structures, and preparing/providing the required additional lifting hooks / structural modifications with third-party certification to ensure the safe handling of the heavy lift works in the plant.

Tanks & Vessels

Our turnkey industrial tank decommissioning, cleaning, and maintenance services are recognized for its outstanding performance, safety record, and over a decade of experience in specialized maintenance & cleaning of large above ground storage tanks of different service and types.



PRE-COMMISSIONING SERVICES

Kanooz offers a wide range of pre-commissioning cleaning & support services to refineries, Petro chemicals, Oil & Gas, water and power industries during pre-commissioning of plants.



Catalyst Loading: Screening, loading of fresh catalyst, molecular sieve beds, resin, packing, etc. during pre-commissioning under normal or inert atmosphere using proven dense loading or sock loading methods.



Chemical Cleaning & Passivation: Turnkey Chemical Cleaning and Passivation of boilers, exchangers, pipelines, cooling water system cleaning & passivation etc.



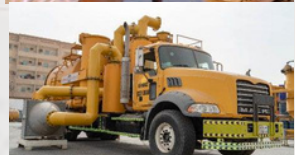
High Velocity Lube Oil Flushing: High velocity oil flushing and filtration for turbines, compressors, lube oil systems to NAS 4 specification, including heating, thermal shocking, etc.



Columns & Vessels: Installation of internals, Tray fixing, modifications, packing, loading etc.



Pipeline flushing, cleaning & drying: Hydro-testing, water flushing, pigging & drying, Nitrogen Purging & preservation, high velocity flushing of pipeline, hydro milling/ hydro-blasting, air blowing.



Hydro milling / hydro jetting: Mill scale removal and passivation of prefabricated piping using high flow/high pressure jetting systems such as rotating hose device.



Blasting & Painting: Blasting & Painting for tanks, vessels, pipe & equipment.



Portable Steam Generation Units: Supply of steam generators up to 4 ton/hrs capacity suitable for steaming and heating. supply of de-mineralized water etc.

Vacuum Truck, Supersuckers Rental: Heavy-duty Super sucker, vacuum trucks for bulk material handling, sludge removal, chemical transport etc.

Hydraulic Bolt Torquing: Bolt torquing using hydraulic torque tools.

Equipment Rental: Air compressors up to 1600 cfm, Power generators up to 500KVA, Portable steam generators/boilers up to 4 Tons/hr, De-humidifiers, Air conditioners, Bundle extractors, handling equipment etc.

Nitrogen Services: On-site high-pressure liquid/gaseous nitrogen supply for purging, pressure testing (up to 10,000 psi), cooling, drying, and inerting of process systems and pipelines.

WASTE MANAGEMENT SERVICE

Our success in industrial support services begins with wide range of quality equipment and experienced crew. Having the biggest fleet of vacuum trucks in the Kingdom, allowing Kanooz to handle anything wet, dry sludge, or granules. Our custom-made super vacuum trucks are capable of handling heavy sludge to bulk dry material vacuuming.

Kanooz rich experience in waste management service to wide range of industries and equipped with wide range of equipment to handle virtually any Industrial vacuuming applications, including:

- Catalyst vacuuming
- Sludge Removal
- Powder Sucking
- Chemical Or Hazardous Material Handling
- Product Transfer

All our vacuum trucks are equipped with strong stainless-steel tanks with safety devices and capable of handling corrosive & inflammable fluids, designed to operate in potential hazardous atmospheres.

Special accessories are used for effective removal of materials of dust/powder nature under inert or normal conditions. The dry super suckers have special cooling & recycling loop to minimize nitrogen medium during the handling of pyrophoric materials safely and reduce the expense.



The Range of Vacuum Systems Includes:

- Heavy Duty Super Suckers – Trailers
- Super Suckers Trucks
- Standard Vacuum Trucks
- Dry Super Suckers – Truck & Trolley Mounted
- Cyclone hoppers & filter bag houses - Telescopic

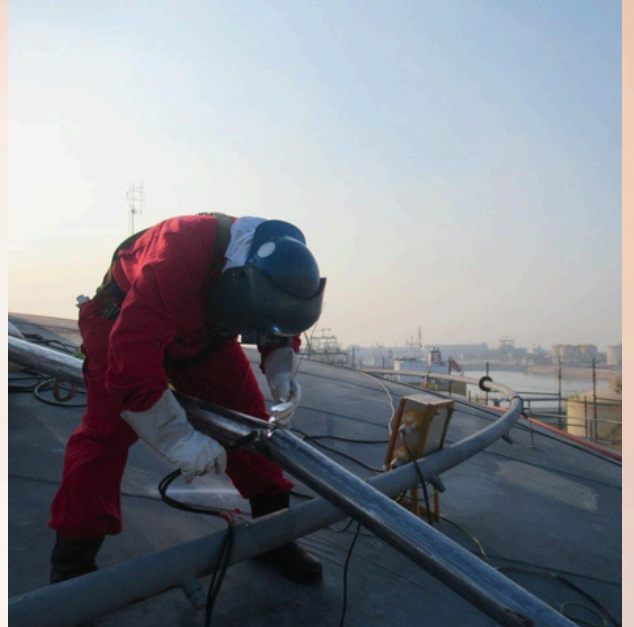


TANK & VESSEL MAINTENANCE & REPAIR SERVICES

Kanooz provides turnkey industrial tank decommissioning, cleaning, maintenance, and inspection services for large above-ground storage tanks. Our scope covers specialized maintenance and cleaning works for tanks in different service conditions, including Ammonia, VCM, and Acid storage tanks as per customized procedures.



Kanooz has successfully carried out critical tank decontamination, cleaning, maintenance and inspection as per customized procedures for Ammonia, VCM and Acid storage tanks.



Tank Maintenance & Cleaning Services Include:

- Positive isolation and repositioning of roof support legs on internal floating roof tanks while in service using breathing air apparatus.
- Removal and reconstruction of collapsed internal floating roofs.
- Product transfer using special pumping and vacuum systems.
- Sludge removal, disposal, decontamination, and degassing.
- Internal surface cleaning and inspection using UT, MFL, and colour video inspection techniques under normal or BA conditions.
- Floating roof seal change-outs.
- Repairs of bottom plates, roof plates, and floating roofs, including cold cutting.
- Blasting, painting, and coating works.
- Decommissioning and demolition of tanks.

Cleaning Services

Manual cleaning, sludge removal, disposal, decontamination, degassing, and product transfer using pumping and vacuum systems.

Inspection Services

Internal surface inspection using UT, MFL, and colour video inspection techniques.

Hot Works Services

Welding, floor replacement, bottom plate repairs, roof plate repairs, and floating roof repair works.

Blast & Paint Services

Manual blasting, painting, and coating works with required access support.

Decommissioning Services

Tank decommissioning, demolition, and de-installation support.

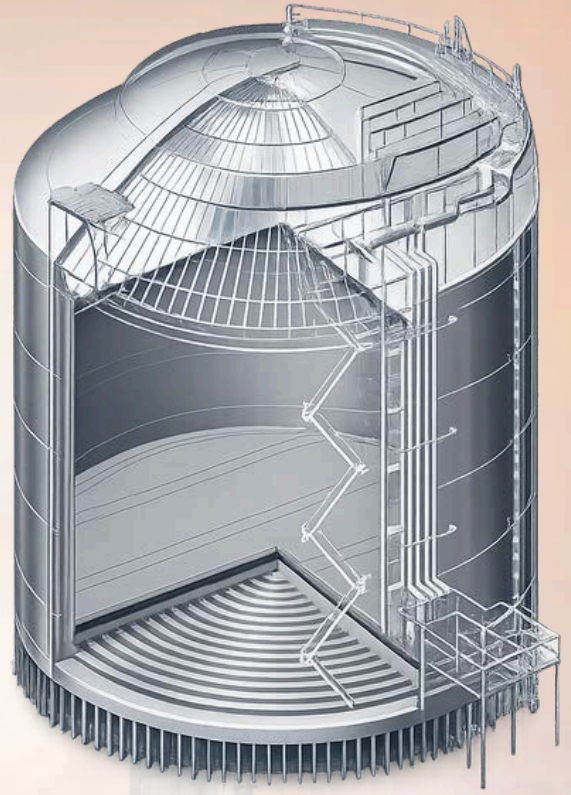


TECHNICAL FABRICATION

From drawings, BOQ and sketches to controlled shop fabrication, finishing and delivery. Kanooz Contracting Company LLC supports contractors and industrial clients who need a dependable fabrication partner capable of converting RFQ documents, MTO/BOQ data, site components or modification requirements into practical fabricated items.

Design & Build Services

- **Steel Structures**
Frames, beams, columns, bracing, pipe racks, platforms, equipment supports and miscellaneous structural steel.
- **Access Systems**
Platforms, stairs, ladders, monkey ladders, cage ladders, handrails, walkways and maintenance access structures.
- **Piping Skids**
Piping skids, utility skids, modular base frames, valve assemblies, flanged piping and support frames.
- **Tanks & Vessels**
Fleet tanks, vacuum tanks, cylindrical tank works, nozzle/support fabrication and vessel repair support.
- **Plate Works**
Embedded plates, base plates, brackets, gussets, saddles, guards, supports and custom plate assemblies.
- **Oilfield Items**
Rig and drilling support frames, guards, equipment bases, oilfield accessories and repair fabrication.



BOLT TORQUING & TENSIONING

Kanooz provides hydraulic bolt torquing and tensioning as part of its on-site mechanical and joint-integrity services. Every joint is tightened to calculated values using calibrated hydraulic tools and trained technicians — replacing manual guesswork with repeatable, documented, controlled load, so connections seal first time and carry their design load safely.

Two Controlled Methods

Hydraulic Torquing

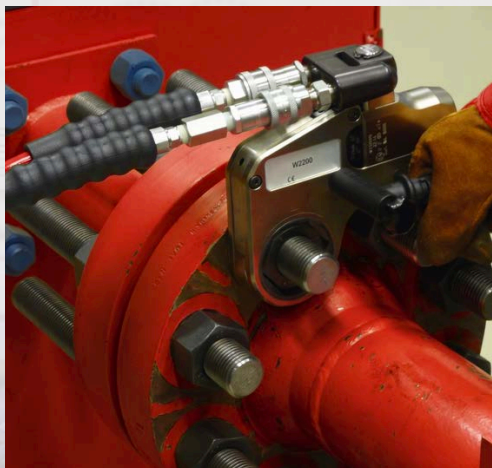
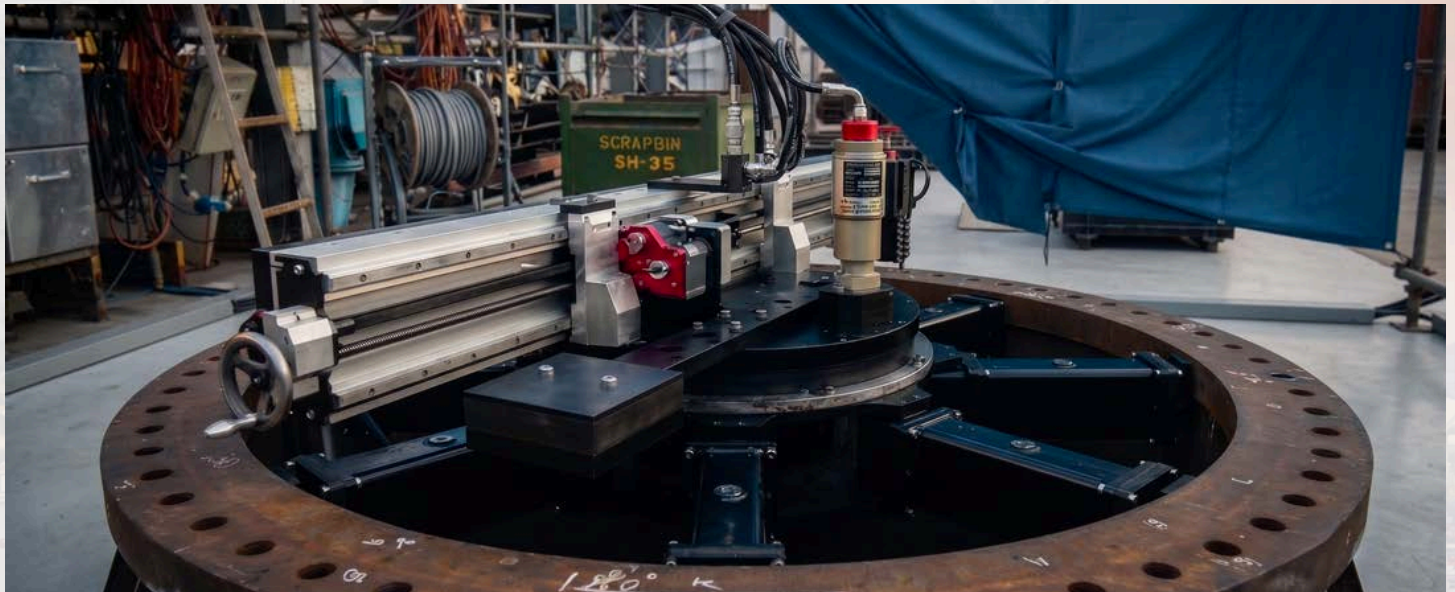
Calibrated rotational force via hydraulic torque wrenches to a precise, pre-calculated torque value — repeatable across a wide range of bolt sizes.

Hydraulic Tensioning

Direct axial load applied to all studs at once via hydraulic tensioners — even, pre-set tension around the whole joint. Ideal for large and critical connections.

Scope Includes:

- Controlled torquing & tensioning to calculated values
- Flange joint make-up (box-up) and break-out
- Bolt-load & torque-value calculation and procedures
- Recording & documentation of applied loads
- Release of seized and corroded bolting
- Joint Integrity Management (JIM) / flange management



HIGH PRESSURE WATERJETTING

High velocity water jets can produce incredible performance in industrial cleaning and allied activities like cutting, surface preparation etc. Kanooz puts the power of water energy to work for you in many ways as heat exchanger tube cleaning, pipe cleaning, vessel & tank cleaning etc.



We offer a broad range of water jet cleaning services, with the skill and experience it takes to deliver them reliably. Our custom-designed nozzles and tools - combined with our fleet of truck-mounted/containerized diesel-driven high-pressure pumps - enable us to give you unmatched speed, effectiveness, and safe cleaning.

Scope Includes:

- Heat Exchanger Tube Cleaning
- Bundle Cleaning
- Tank, Vessel, Column Cleaning
- Pipeline Cleaning
- Surface Preparation, Cold Cutting
- Marine Growth Removal
- Sludge Removal
- Block Line Cleaning
- Decoking
- Floor Cleaning
- Jetting Under Inert Atmosphere Wearing Gas Suits & Special Life Support System



Hydro-jetting Accessories:

- Flex Lancing & Rigid lancing
- External Bundle Blaster
- Multi lancing TLE
- 3D Tank cleaning heads
- Hot water jetting systems
- Spin jet guns
- Rotating cleaning heads, nozzles
- Cold cutting/window cutting

Our specialist jetting crew is well trained to carry out Hydrojetting under inert or toxic conditions using advanced Breathing Air systems for special cleaning requirements.

Our highly experienced team can plan & handle any size of cleaning requirement for heat exchanger bundles, vessels, columns, pipelines, surface preparation, marine growth removal, etc., quickly and safely.

Rotary Hose Device (RHD)

RHD is a revolutionary, internal pipe cleaning system with specially designed cleaning nozzles. The hose is rotated as it passes through the pipe while the cleaning nozzle remains forced against the pipe wall to improve cleaning compared to conventional pipe cleaning techniques. The system operates with high-flow, high-pressure pumps and is capable of cleaning tough or solidly blocked or scaled tubes.

Features Of RHD:

- Working Pressures - Up To 40,000 Psi
- Maximum Range - 200 Gpm
- Maximum Cleaning Distance - 1500 Feet
- The Device Can Negotiate Bends In A Piping System
- Widely Accepted Pipe-cleaning Tool
- The Unit Works In Automatic Mode, Thereby Reducing The Cleaning Time When Compared To Manual Techniques
- Rotational Speed, Rotational Direction, Pressure, And Flow Are All Remotely And Independently Controllable



FLARE TIP MAINTENANCE

Fixed Type Flare:

Kanooz offers a complete set of Flare Tip replacement and inspection services to the oil & gas industries. The activities include planning, preparation and execution of flare tip replacement, Repair, Molecular seal drum repairs, and inspection works etc. on a turnkey basis during turnarounds/shutdowns.

Kanooz's highly experienced rigging team with high elevation work experience assisted by high altitude safe work procedures allow us to handle the flare maintenance works safely & successfully. We involve IRATA certified rope access inspection & repair team to assist the replacement & inspection works to minimize the turnaround time and improve overall job performance.

Kanooz has successfully carried out flare tip replacement works for major industry players in the past that include flare tip removal & reinstallation, repair, inspection, insitu repair of molecular seal drum, instrumentation and electrical maintenance, replacement of ACWL signal lamps, inspection of flare risers & structure etc. during turnaround.



Teamed up Dacon Inspection Services Co. Singapore, a highly reputed organization providing high end inspection services using IRATA certified inspection engineers, Kanooz is able carry out inspection of high elevation structures & stacks using rope access method.

The rope access capabilities allow us to carry out inspection and repairs works on difficult access locations and especially on flare, stack, and risers etc. effectively without the use of scaffolding or heavy equipment. The team is capable of carrying out the inspection of piping, columns, vessels, supports, and other structures using various non- destructive testing (NDT) methods in a safe and timely manner.

Major Activities Include:

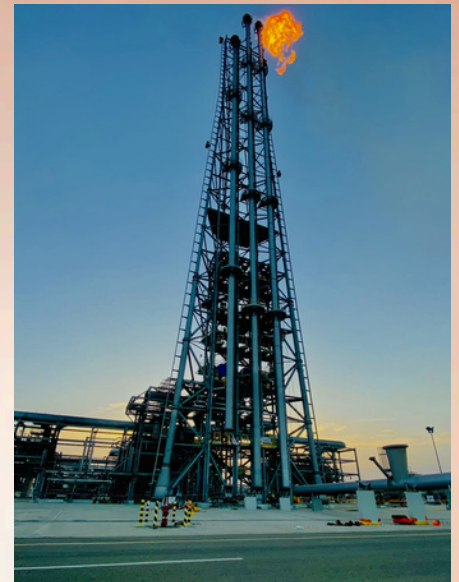
- Flare Tip Removal & Reinstallation
- Repair Of Flare Tips
- Repair Of Molecular Seal
- Riser & Structural Inspection Using Rope
- Access
- Insitu Repair Of Molecular Seal
- Electrical And Instrumentation Works
- Cabling And Loop Checking
- Aviation Signal Lamp Erection, Testing & Commissioning
- Supply Of Heavy Lift Cranes
- High Elevation Rigging
- Modification Of Support Structures
- Guy Wire Inspection



Demountable Type Flare:

Kanooz specializes in the safe and efficient maintenance of Demountable Derrick Type Flares. Our expertise ensures that all flare tip removal and installation works are handled with utmost precision using certified lifting methods. With a proven track record in executing complex flare system jobs, our team ensures minimal downtime and maximum safety compliance throughout the process.

All works are performed by experienced technicians using tested and certified equipment under stringent safety protocols. Our methodical approach includes the inspection, testing, and certification of lifting systems before starting the job, ensuring a smooth and risk-free maintenance cycle.



Major Activities Include:

- Load testing and certification of hoisting and canting winches before execution
- Demounting and mounting of Derrick-type flare tips using certified lifting equipment
- Flare tip repair and refurbishment as per inspection reports
- Inspection and maintenance of associated structures
- Electrical and instrumentation works
- Turnkey execution during shutdowns and turnarounds

DIVING & UNDERWATER MAINTENANCE SERVICES

Kanooz offers this specialized service to handle underwater cleaning and maintenance. For this purpose, we have specially trained divers, who are experienced to carry out underwater maintenance jobs, inspection, and underwater photography. The services also include underwater installation of piping & equipment, sluice gates, etc.

Underwater Services Highlights:

- Installation of piping & equipment
- Cleaning of seawater intake systems
- Online cleaning of seawater basin / pits
- Underwater video & photography
- Repair, dredging & sealing
- Installation of sacrificial anodes
- Marine growth removal, Cleaning using High-Pressure water jetting



SAFETY & TRAINING

At Kanooz, Safety is not by accident, it is our tradition. Since the beginning, Safety & Training have been a top priority in the company. Our strategy of no compromise on safety and proper training of our men gave us good mileage in gaining the confidence of our customers. Leaving nothing to chance, we believe it is essential that all our personnel adhere to strict safety guidelines and undergo extensive training. Every member of Kanooz operation undergoes frequent in- house safety awareness and refreshment programs that enable us to handle the jobs in the safest way. We believe that quality equipment and thorough training is very vital for continuous improvement. Our commitment to Safety and Training is reflected in our jobs and to consistently maintain improved work standards.

Kanooz has made investments in training its men to handle specialized activities. Our men are trained in their respective work categories to achieve high degree of safety & quality. Kanooz has subsequently developed its own training and safety programs to enhance our team's skills to serve customers better.

Safety plans & Analysis: Kanooz has derived its own safety plan & procedures to support different activities in the field and to carry out the work utmost safe. The purpose of this Safety plan is to set the general requirements and expectations for conducting the activities in a manner that assures Safety & health of all employees and protect the environment & equipment. These Safety plans are applicable to the complete.



KANOOZ كـنـوز

Three Years HSE Performance

DESCRIPTION	CODE	2023	2024	2025
Total Manhours Worked	TMW	6,591,852	5,753,672	5,580,716
Fatalities	FAT	0	0	0
Lost Workday Cases	LWVC	0	0	0
Restricted Workday Cases	RWC	0	0	0
Medical Treatment cases	MTC	0	0	0
First Aid Cases	FAC	0	0	2
Total Recordable Cases (Sum FAT, LWVC, RWC & MTC)	TRC	0	0	0
Fatal Accident Rate (per 10 ⁶ hours)	FAR	0	0	0
Lost Time Injury Frequency (per 10 ⁶ hours)	LTIF	0	0	0
Total Recordable Case Frequency (per 10 ⁶ hours)	TRCF	0	0	0

Prepare by:  Sanil K Vilson
MR

Review by:  Sadre Alam Khan
HOD – HSE

Approved by:  Vishay Dalshiy
Vice President - Projects

LW CFR
TRCFR
TRIFR
RW CSR

Lost Work Day Case Frequency Rate
Total Recordable Case Frequency
Total Recordable Injury Frequency Rate
Restricted Workday Cases Days Severity Rate





KANOOZ
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SERVICES AT A GLANCE

- TURNAROUND & SHUTDOWN SERVICES
- MICRO BLASTING & NANO COATING
- AUTOMATIC TANK CLEANING SYSTEM (ATC)
- DECOKING & SMART PIGGING
- INDUSTRIAL CHEMICAL CLEANING & DECONTAMINATION
- CATALYST REPLACEMENT & REACTOR REPAIRS
- DECONTAMINATION SERVICE
- CRYSTAL CLEANING FOR AIR FIN COOLERS
- FRESH CATALYST LOADING & UNLOADING
- TUBULAR REACTOR SERVICES
- PIPELINE PIGGING & SCRAPPING
- INDUSTRIAL DEMOLITION & DECOMMISSIONING
- PIPELINE FABRICATION, ERECTION & VALVE REPLACEMENT
- HEAT EXCHANGER MAINTENANCE
- HEAT EXCHANGER RETUBING
- COLUMNS & VESSELS MAINTENANCE
- DEMOUNTABLE FLARE MAINTENANCE
- HYDROJETTING & HYDROMILLING
- LUBE OIL FLUSHING, FILTRATION & DEHYDRATION
- NITROGEN SERVICES, DRYING, PURGING & COOLING
- HEAVY EQUIPMENT REPLACEMENTS & RIGGING
- TANK MAINTENANCE & REPAIR
- TANK FABRICATION & ERECTION
- TANK & VESSEL DESIGN & BUILD SERVICES
- INTERNAL FIXING OF COLUMN & VESSELS
- BLASTING & PAINTING
- FLARE TIP REPLACEMENT
- WASTE MANAGEMENT SERVICE
- DRY & WET VACUUMING SUPERSUCKERS
- DIVING & UNDERWATER MAINTENANCE
- HIGH VOLUME DEWATERING
- HYDRAULIC BOLT TORQUEING SERVICES
- COOLING WATER SYSTEM PASSIVATION
- INDUSTRIAL COOLING SERVICES
- STEAM BLOWING
- HYDRO TEST OF TANKS & PIPELINES
- EQUIPMENT RENTAL

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