

شركة هيلكس إنجينيرينج سولوشنز



CR # 7054613364

CORPORATE PROFILE · EDITION 2026

# Engineering Industrial Reliability. Manufacturing the Future.

Premium industrial engineering solutions for manufacturing, energy, infrastructure, and industrial sectors across Saudi Arabia and the GCC.

OIL & GAS

PETROCHEMICAL

POWER

MARINE

MINING

INDUSTRIAL

INDUSTRIAL IoT

CONSTRUCTION

TRADING

Industrial Area No. 2, Dammam · Kingdom of Saudi Arabia

Engineering precision. Delivering trust.

## CEO'S MESSAGE رسالة الرئيس التنفيذي

# Our commitment to you

Industry is no longer built — it is engineered, instrumented, and optimized in real time. At Helix, we operate at that intersection. We deliver the precision, the data, and the discipline our clients need to compete in Saudi Arabia's new industrial era along with global prosperity. Every project we accept is a promise: that we will arrive prepared, build to standard, and leave systems running better than we found them. That promise is signed below.

## BUSINESS PHILOSOPHY

*“Engineering solutions should deliver measurable business value, operational excellence, and sustainable growth.”*

**Eng. Asaad Fakharuddin · Founder & CEO**

Industrial Area No. 2, Dammam · Kingdom of Saudi Arabia

*Engineering precision. Delivering trust.*

# Reliability, delivered to you

Helix Engineering Solutions Co. is a Saudi-based precision engineering and industrial solutions provider, serving energy, petrochemical and heavy-industry clients across the Kingdom and beyond. We combine advanced manufacturing, engineering expertise and Industry 4.0 technology to deliver components and turnkey solutions that meet the highest standards of quality, safety and reliability.

**KSA**

SAUDI ENGINEERING  
COMPANY

**7**

CORE BUSINESS  
DIVISIONS

**4.0**

INDUSTRY 4.0  
READY

**6**

INDUSTRIES  
SERVED



## Our mandate

To be your first-call partner for precision manufacturing and industrial engineering in the GCC — engineering measurable reliability into every component we deliver.

*Proudly based in Saudi Arabia. Committed to the world.*

*Saudi-based · Industrial manufacturing · Industry 4.0 ready.*

## — EXECUTIVE SNAPSHOT

# Helix at a glance



### Who We Are

A Saudi-based precision engineering and industrial solutions company serving heavy industry across the Kingdom and the GCC.



### What We Do

Manufacturing, reverse engineering, industrial IoT, contracting, maintenance, trading and energy — seven divisions, one partner.



### Industries

Oil & gas, petrochemical, power, marine, mining and heavy industry.



### Core Strengths

Precision manufacturing, Industry 4.0 readiness and certified, approved quality.



### Coverage

Headquartered in Industrial Area No. 2, Dammam — serving the Eastern Province and beyond.



### Our Vision

To be the GCC's most trusted partner in precision engineering and advanced manufacturing.

## Your partner in the Kingdom

Helix Engineering Solutions Co. was founded to bring world-class precision manufacturing and integrated industrial engineering to the Kingdom of Saudi Arabia. From our facility in Dammam's Industrial Area No. 2, we support the region's most critical sectors with CNC machining, reverse engineering, fabrication and full-service technical support.

Backed by advanced equipment, certified processes and a skilled engineering team, we keep your operations running with confidence — on spec, on time, every time.



### Headquarters

Industrial Area No. 2, Dammam, KSA



### Core Capability

Precision CNC machining & fabrication



### Standards

ISO 9001:2015 · Aramco / SABIC approved

## — COMPANY TIMELINE

# Our journey **so far**

From a new Saudi engineering company to an Industry 4.0 manufacturer — building capability and credibility year on year.



### **Founded**

Helix established in Dammam to bring precision manufacturing in-Kingdom.



### **Manufacturing**

CNC machining and fabrication capability brought online.



### **Industrial IoT**

IIoT, automation and digital engineering division launched.



### **Regional Expansion**

Scaling delivery and reach across the GCC.

**2030**



### **Smart Manufacturing**

Fully digital factory aligned with Saudi Vision 2030.

## Direction & principles



### VISION

To be the GCC's most trusted partner in precision engineering and advanced manufacturing, contracting & industrial trading — powering industrial & infrastructure progress across the Kingdom and beyond.



### MISSION

To deliver precision-engineered components and integrated solutions that exceed expectations in quality, safety and on-time performance — every project, every time.

### CORE VALUES



Integrity



Quality



Safety



Innovation



Partnership

## — YOUR CHALLENGES

# The challenges **you** face



### Unplanned Downtime

Every hour a critical asset is down costs you production. On-site machining and rapid response get you running again fast.



### Obsolete or Unavailable Parts

When spares are discontinued or imported on long lead times, we reverse-engineer and remanufacture them to exact spec.



### Too Many Vendors

Coordinating many suppliers adds cost and risk. One accountable partner covers design, supply, machining and installation.



### Long Procurement Lead Times

Waiting on overseas supply stalls projects. In-Kingdom manufacturing and local stock-holding shorten your delivery.



### Ageing, Disconnected Assets

Legacy equipment hides performance losses. Industrial IoT and predictive maintenance turn your plant data into uptime.



### Cost & Compliance Pressure

Rising cost and tighter standards squeeze margins. Certified processes and energy efficiency protect both.

# Why operators **choose Helix**



## Reduced Downtime

On-site machining and rapid response that keep critical assets running and cut costly stoppages.



## Guaranteed Quality

ISO 9001:2015 processes with Aramco, SABIC & MODON approvals — right the first time.



## Faster Delivery

Disciplined planning and in-house manufacturing that meet demanding project schedules.



## Longer Equipment Life

Reverse engineering and precision restoration that extend the life of critical equipment.



## Digital Manufacturing

Smart manufacturing, automation and digital traceability built into every job.



## One Engineering Partner

Design, supply, machining, installation and support delivered under one roof.

# One partner for **every need**



## Precision Manufacturing

CNC & conventional machining, grinding & component manufacturing.



## Reverse Engineering

3D scanning, CAD/CAM, fabrication & obsolete-part recreation.



## Industrial IoT & Automation

CNC retrofit, PLC/SCADA controls & smart-factory automation.



## Industrial Projects & Contracting

Structural & mechanical fabrication, welding & EPC delivery.



## Facilities Maintenance

Shutdown, on-site machining, MRO & asset reliability.



## Industrial Trading

OEM spares, bearings, valves, pumps & technical procurement.



## Energy Efficiency Solutions

Optimization for lower cost & emissions.

# Precision Manufacturing

When a critical part is out of tolerance or unavailable, production stops. We machine high-tolerance components, OEM and obsolete spares from exotic alloys, forgings and castings — so your equipment runs to spec and stays in service.

Every part is produced under a controlled, ISO 9001-aligned process and verified through in-house metrology before it leaves our Dammam facility.



## CNC Machining

3-, 4- & 5-axis milling, turning, boring, drilling & threading; high-speed machining.



## Conventional & Heavy

Lathe turning, jig & line boring; shaft, roller & flange machining.



## Finishing & QA

Surface & internal grinding, reaming; CMM & first-article inspection to 0.01 mm.

# Reverse Engineering

When a part is obsolete or the OEM lead time runs to months, you can't wait. We 3D-scan, model and metallurgically analyze the original, then re-engineer it for better life and availability.

Ideal for imported equipment and discontinued spares, our process shortens lead times and reduces dependence on original-equipment supply chains.



## Digital Engineering

3D laser scanning, CAD/CAM modeling, reverse design & manufacturing drawings.



## Analysis

Material identification, tolerancing, failure analysis & design validation.



## Consultancy

Feasibility studies, value engineering, FMEA & root-cause analysis.

# Industrial IoT and Automation

When ageing assets run blind, losses hide in the data. We add smart sensing, CNC retrofit and PLC/SCADA automation that turn your plant data into real-time insight and control.

The result is higher throughput, fewer unplanned stoppages and measurable gains in energy and asset efficiency.



## Retrofit & Controls

Controller & servo upgrades (Fanuc, Siemens, Mitsubishi); PLC, SCADA & HMI.



## Smart Factory

IIoT connectivity, OEE & production monitoring, digital twin & dashboards.



## Value

Predictive maintenance, higher throughput & real-time optimization.

# Industrial Projects **and Contracting**

When a build spans structural, piping and mechanical scopes, juggling vendors adds risk. We deliver turnkey fabrication and EPC-style projects from engineering through commissioning — one accountable partner.

A single accountable partner covers safety, schedule and quality, reducing interfaces and risk on critical industrial builds.



## **Fabrication**

Structural steel, platforms, pipe spools, skids, tanks & sheet metal.



## **Welding**

SMAW, GTAW, GMAW, FCAW & SAW; certified procedures, repair & overlay.



## **Assurance**

HSE-led execution with dimensional inspection & NDT coordination.

# Facilities Maintenance

When a shutdown window is tight, every hour counts. Our field teams deliver planned maintenance, on-site and portable machining and emergency repair to keep your critical assets running.

Structured planning and rapid mobilization compress downtime and protect production during the tightest operating windows.



## On-Site Machining

Portable milling, boring, line boring, flange facing & in-situ shaft work.



## Shutdown & STM

Planned shutdowns, turnarounds, MRO, emergency & offshore support.



## Reliability

Laser alignment, vibration analysis, balancing & predictive maintenance.

# Industrial Trading

When supply-chain gaps stall operations, you need parts you can trust. We source industrial equipment, spares and consumables from a qualified global network and manage logistics into the Kingdom.

Genuine parts, transparent lead times and local stock-holding keep your operations supplied without supply-chain surprises.



## Supply

OEM spares, bearings, power transmission, valves, pumps & instrumentation.



## Network

Qualified OEM & authorized-channel partners for automation & CNC spares.



## Logistics

Global technical sourcing, consolidated procurement & in-Kingdom stock.

# Energy Efficiency

When energy cost and emissions climb, your margins and compliance suffer. We audit utilities, rotating equipment and thermal systems to find measurable, sustainable savings.

Aligned with Vision 2030 sustainability goals, our solutions cut consumption and support cleaner, more efficient industrial operations.



## Assessment

Energy audits and utilities benchmarking.



## Optimization

Rotating equipment, steam and thermal efficiency.



## Impact

Lower cost, reduced emissions and Vision 2030 alignment.

## Trusted across **your industry**

From wellhead to plant floor, Helix supports the sectors that power the Kingdom's economy — delivering the precision and reliability critical operations depend on. We operate an integrated ecosystem where machining feeds construction, IoT instruments the result, trading secures the supply, and training compounds the capability. Each discipline strengthens the next.



**Oil & Gas**



**Petrochemical**



**Power**



**Marine**



**Mining**



**Industrial**

**Also serving** Refineries · LNG & Gas Processing · Renewable Energy · Water & Wastewater · Desalination · Chemical Processing · Fertilizer · Steel · Aluminium & Copper Smelters · Cement · Offshore & Shipbuilding · Ports & Terminals · Railways · Aerospace & Defence · Automotive · Food & Beverage · Pharmaceutical · Paper & Pulp · Sugar · Glass · Heavy Engineering · OEMs · EPC Contractors · Utilities · Infrastructure

# From your problem to a finished part



## Precision CNC Machining

3-, 4- & 5-axis turning, milling and grinding to tight tolerances.



## Reverse Engineering

3D scanning, CAD modeling and exact component replication.



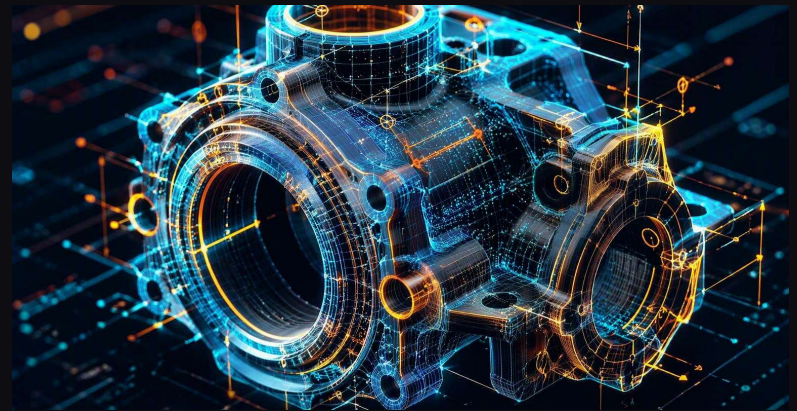
## Design & Analysis

Engineering design, simulation and manufacturing support.



## Metrology & Inspection

CMM inspection and full dimensional verification.



## Full-cycle engineering

We take a part from scan or drawing to a finished, inspected component — controlling design, machining and quality end to end.

# The capacity behind **your project**

## CORE EQUIPMENT

- 5-Axis CNC Machining Centers
- CNC Turning & Vertical Lathes
- Precision Grinding & Milling
- Structural & Piping Fabrication Bay
- Welding & Heat-Treatment Stations
- CMM Metrology & Inspection Lab

**5-Axis**

MACHINING

**±0.01mm**

TOLERANCE

**24/7**

CAPACITY



# How we de-risk **your project**

Every engagement follows a proven, five-stage process — built to de-risk delivery and guarantee quality from first consultation to long-term support.

**01**



## Consult & Scope

Requirements, feasibility and technical review.

**02**



## Engineer & Design

CAD modeling, analysis and process planning.

**03**



## Manufacture

Precision machining, fabrication and assembly.

**04**



## Quality & Test

CMM inspection and full compliance checks.

**05**



## Deliver & Support

On-time delivery, install and maintenance.

## Quality you **can trust**

Quality and safety are engineered into every process. Our management systems are independently certified and approved by the Kingdom's leading operators.



**Uncompromising Quality**



**Safety & Sustainability**



**On-Time Delivery**



**Customer Success**

### **CERTIFICATIONS & APPROVALS**

**ISO 9001:2015**

**ASME**

**API**

**SASO**

**ICV**

**Saudi Aramco**

**MODON**

**SABIC**

# Smarter uptime **for your plant**



## Industrial IoT

Connected assets with real-time monitoring and control.



## Automation & Robotics

Automated cells for consistent, high-throughput output.



## Digital Twin

Virtual models that mirror and optimize physical assets.



## Predictive Maintenance

Data-driven servicing that prevents costly downtime.



## Digital Traceability

Full data trail from raw material to finished part.



## Energy Optimization

Analytics that cut energy use and emissions.

## Proven results for **clients like you**

### OIL & GAS

#### Reverse-Engineered Critical Components

Replicated and machined obsolete equipment parts, restoring plant uptime.

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*Restored uptime · reduced OEM dependency*

### PETROCHEMICAL

#### On-Site Precision Machining

In-situ machining during turnaround, cutting shutdown duration.

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*Shorter shutdown · protected production*

### INDUSTRIAL

#### Fabrication of Industrial Structures

Structural and piping fabrication for a major capital project.

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*On-schedule single-partner delivery*

*Representative engagements. Client names and verified metrics available on request.*

## You're in **good company**

We are proud to serve and be an approved partner to the Kingdom's foremost energy and industrial organizations.

**Saudi Aramco**

**SABIC**

**Ma'aden**

**SATORP**

**Saudi Energy & NWC**

**DIRIYAH GATE**

**NEOM**

**TARSHID**

*Logos shown as names for reference; add approved partner marks in the highlighted placeholders.*

# Why clients **choose Helix**



## Single Partner

Others coordinate multiple vendors. Helix delivers design, machining, supply and support in one.



## Reverse Engineering

Others wait on long OEM procurement. Helix re-engineers obsolete parts to cut lead time.



## Predictive Maintenance

Others react to breakdowns. Helix predicts and prevents them with IIoT monitoring.



## IIoT Integration

Others rely on manual operation. Helix connects assets for real-time optimization.



## Certified & Approved

Others claim quality. Helix proves it — ISO, Aramco, SABIC & MODON approved.



## Faster Turnaround

Others quote long lead times. Helix mobilizes fast, even for urgent work.

# Engineering the future of Saudi industry

Aligned with Vision 2030, Helix is investing in advanced manufacturing, automation and local capability — building an industrial base that competes globally and delivers value in-Kingdom.



## Localization

Growing in-Kingdom content & ICV impact.



## Industry 4.0

Smart, automated, data-driven production.



## Sustainability

Efficient, lower-emission operations.

THE HELIX ADVANTAGE · OUTCOMES

We don't sell effort. We deliver measurable industrial performance.

**-38%**

**Unplanned Downtime**

Predictive maintenance & IIoT monitoring.

**+22%**

**Throughput Gain**

Automation & line optimisation.

**99.6%**

**Asset Availability**

Lifecycle support & rapid response.

**1.7×**

**Extended Asset Life**

Restoration & reverse engineering.

Before Helix vs With Helix

■ WITH HELIX ■ BEFORE

Equipment Reliability



Operational Uptime



Energy Efficiency



Maintenance Cost



**The next industrial era will be measured  
in precision, data, and uptime.**

*We are already engineering it.*

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– [www.helix.com.sa](http://www.helix.com.sa)

# Let's build **what's next**

Partner with Helix for precision manufacturing, reverse engineering, industrial IoT, construction & maintenance and trading you can rely on.

*Engineering precision. Delivering trust.*



## GET IN TOUCH



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