

# **KIRTANLAL**

## **ENGINEERING COMPONENTS**

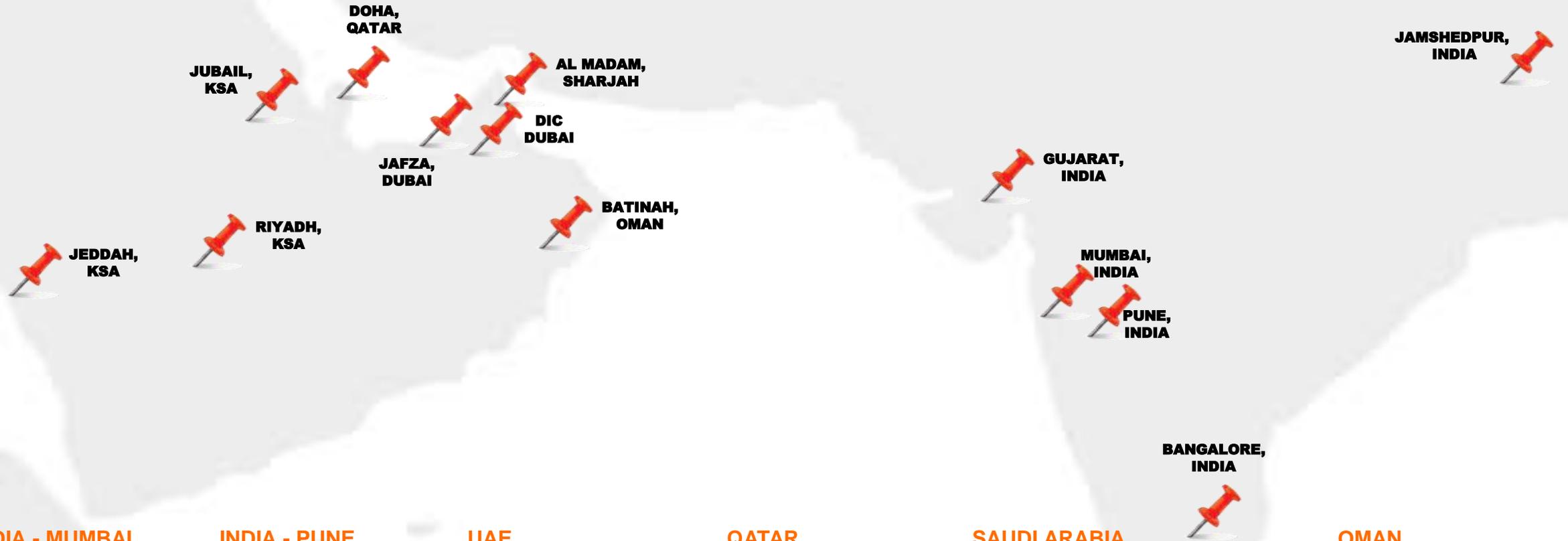
(Formerly known as Sankalp Engineering & Services Pvt. Ltd)



# Kirtanlal Engineering Private Limited

(Formerly known as Sankalp Engineering & Services Pvt. Ltd)





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## *Kirtanlal Business Group*

- ✓ Kirtanlal Engineering Pvt. Ltd.- **India**
  - ✓ Kirtanlal Scaffolding & Formwork Pvt Ltd – **India**
  - ✓ Kirtanlal Steel Pvt Ltd – **India**
  - ✓ Kirtanlal Metal Products & Co. LLC – **Oman**
  - ✓ KAS Trading Scaffolding & Leasing WLL - **Qatar**
  - ✓ Kirtanlal Americas LLC – **USA**
  - ✓ Al Zahra Scaffolding TR Sole Proprietorship LLC –**UAE**
  - ✓ Kirtanlal International DMCC – **UAE**
  - ✓ Pipeline Solutions Steel Trading LLC – **UAE**
  - ✓ Kirtanlal International FZE – **UAE**
  - ✓ Venus International Venture Ltd (FZE) – **UAE**
- Kirtanlal Group of Companies has over 5 decades of Experience in providing solutions to the Energy, Construction & Engineering Sectors, throughout India, Middle East, Europe, Africa, Canada ,North America & many Other countries .
  - Under the Leadership of our visionary Chairman Mr. Jiten Kirtanlal Shah, all Group companies pride themselves on having a Zero-Tolerance approach to all elements of Safety, Quality and Services.

# MISSION AND VISION



Our mission is to be an industry leader in satisfying the needs of our customers by utilizing proven techniques that allow for the efficient execution of projects with commitment to continual improvement in quality.



This commitment to meet customer requirements shall be exercised through the control of all activities allowing for the economic use of resources and minimizing the possibility of non-conformity, with the support of our qualified management and technical teams.

# Key Highlights

- ✓ **Plant Setup:** Our facility covers an expansive area of 30,000 square meters (7.5 Acres).
- ✓ **Advanced Equipment:** We operate 1 Ton, 1.5 Ton, 3 Ton and 5 Ton hammers, supported by billet induction heaters to enhance efficiency.
- ✓ **Machining Facility:** We have a comprehensive in-house machining setup with over 60 CNC/VMC/HMC/Turn Mill machines.
- ✓ **Integrated Services:** All your needs met under one roof with Forging, Heat Treatment, Finish Machining, Coating, and Testing Facilities.
- ✓ **Quality Standards:** Our entire facility adheres to the highest international standards, with in-house testing facilities.
- ✓ **Certifications and Accreditations:** We are ISO 9001, EMS-14001, ISO 45001, IATF 16949, and API 5CT certified.
- ✓ **Strategic Location:** Our facility is strategically located near international sea-ports and airports, approximately 85 miles away.
- ✓ **Global Reach:** We serve customers across Asia, the Middle East, Europe, and Latin America.
- ✓ **Business Operations:** Our operations are streamlined through SAP, ensuring optimal efficiency and accuracy.

# Accreditations

Sr.No	Certification	Scope	Sector	Certificate Registration No	Certificate Date	Validity	Certification Agency
1	IATF 16949:2017	Manufacturing of Forged and Machined Components	Automotive	T-11958/0	17.09.2024	16.09.2027	Quality Austria Central Asia (QACA)
2	ISO 9001:2015	Manufacturing of Forged and Machined Components	Common	Q-26061/0	17.09.2024	16.09.2027	Quality Austria Central Asia (QACA)
3	ISO 14001:2015	Manufacturing of Forged and Machined Components	Common	U-04445/0	10.09.2024	5.08.2027	Quality Austria Central Asia (QACA)
4	ISO 45001:2018	Manufacturing of Forged and Machined Components	Common	OHS-01330/0	10.09.2024	5.08.2027	Quality Austria Central Asia (QACA)
5	API-5CT	Manufacturing of Coupling and PUP Joints	Oil & Gas	5CT-1176	16.12.2024	18.10.2025	American Petroleum Institute
6	PED	Manufacturing of Forged Components for Aerospace, Automotive, Oil & Gas	-	-	-	-	Under Process

# Accreditations- Certificates



API -  
5CT



ISO 45001:2018



IATF  
16949:2016



ISO  
14001:2015



ISO 9001:2015

# Business Models

## **RFQ Based Business Model**

Volume dependent pricing based on current Raw Material and logistics costs

## **Long Term Supply Agreements**

Pricing based on indexing on RM, Logistics and Inflation

## **Just In Time Model**

Consignment Stock – maintain mutually agreed stocks at appropriate locations with time bound stock liquidation agreements

## **Processing Model**

Processing costs for proprietary grades and connections

# Manufacturing Facility



## OPEN DIE FORGING

- ✓ Utilizing a 5-ton hammer
- ✓ Capable of handling single pieces weighing up to 1500 kg

## CLOSED DIE FORGING

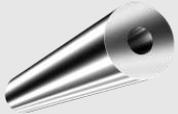
- ✓ Operated by a total of 3 hammers: 1-ton, 1.5-ton, and 3-ton capacities
- ✓ Our 5-ton open die hammer provides a versatile combination of closed die and open die capabilities.
- ✓ Can accommodate single pieces weighing up to 120 kg

## TOTAL PRODUCTION CAPACITY

- |                                  |   |                   |
|----------------------------------|---|-------------------|
| ✓ Closed Die Production Capacity | - | 7,200 Tons/Annum  |
| ✓ Open Die Production Capacity   | - | 4,800 Tons/Annum  |
|                                  | - | 2,400 Tons /Annum |

# Product Range - Capability

## OPEN DIE FORGING

Sr No	Product	Forging Type	Dimension	Weighting Upto
1		<b>Shafts , Round &amp; Hollow Bars</b>	Min OD - 80 MM Max OD - 430 MM Length - Upto 2000 MM	1500 Kg
2		<b>Step and Flange Shafts</b>	Min OD - 80 MM Max OD - 430 MM Length - Upto 2000 MM	1500 Kg
3		<b>Discs, Gear Blanks &amp; Wheels</b>	Min OD & THK - 80 MM Max OD - 650 MM THK - Upto 300 MM	800 kg
4		<b>Rings / Hollow Gears</b>	Min OD & THK - 200 MM Max OD - 650 MM THK - Upto 300 MM ID Punch - Upto 250 MM	800 kg
5		<b>Blocks &amp; Flats</b>	Min THK - 80 MM Max Width - 450 MM Max Length - Upto 2000 MM	1500 Kg
6		<b>Rings</b>	Min OD - 200 MM Max OD - 600 MM	1500 Kg

# Cutting Facility



## Cutting Machine

<b>Total Machines</b>	5 nos.
<b>Control</b>	Auto
<b>Make</b>	Indo Tech
<b>Specification</b>	Dia 600 mm
<b>Accuracy</b>	0.5 mm Taper max



## Cutting Machine

<b>Total Machines</b>	3 nos.
<b>Control</b>	Auto
<b>Make</b>	Capston / Everising
<b>Specification</b>	Dia 150 mm - 2 Machine, CAPSTON Dia 100 mm - 1 Machine, EVERISING
<b>Accuracy</b>	0.2 mm Taper max

# Heat Treatment

Batch Furnace	Continuous Furnace	Measurement and Control Systems
<p><b>Capacity – 10 Ton</b></p> <p>Processes</p> <ul style="list-style-type: none"> <li>✓ Normalizing</li> <li>✓ Annealing</li> <li>✓ ISO- Annealing</li> <li>✓ Solution Annealing</li> <li>✓ Stress Reliving</li> <li>✓ Hardening And Tampering</li> </ul> <p><b>Quenching Media</b></p> <ul style="list-style-type: none"> <li>❖ Oil</li> <li>❖ Water</li> <li>❖ Polymer</li> </ul>	<p><b>Capacity – 600Kg / Hour</b></p> <p><b>Processes</b></p> <ul style="list-style-type: none"> <li>✓ Normalizing</li> <li>✓ ISO- Annealing</li> <li>✓ Solution Annealing</li> <li>✓ Hardening And Tampering</li> </ul> <p><b>Quenching Media</b></p> <ul style="list-style-type: none"> <li>❖ Oil</li> <li>❖ Water</li> <li>❖ Polymer</li> </ul>	<p><b>Aligned with API 6A and AMS 2750E standards through calibration</b></p> <ul style="list-style-type: none"> <li>✓ Heat Treatment Chart Recorders</li> <li>✓ Chino Data Loggers</li> <li>✓ K- Type Thermo-couples</li> </ul> 

# State-Of-The-Art-Machining Facility

Machine Type	QTY	Capacity
<b>CNC Turning Centre</b> Make : Hyundai, Doosan, Hwacheon, DMG, Protec	<b>43 Nos</b>	Dia 20 MM - 500 MM Length 100 MM - 1500 MM
<b>Vertical Milling Centre</b> Make : Doosan, Kitamura, BFW	<b>06 Nos</b>	510 X 430 X 500 mm & 1125 X 565 X 571 mm
<b>Horizontal Machining Centre</b> Make : Hyundai,	<b>01 No</b>	<b>4 axis with Bed Size</b> <b>950 X 825 X 760 MM</b>
<b>CNC VTL</b> Make : Premier	<b>01 No</b>	<b>Dia 700 MM</b>
<b>Turn Mill Center</b> Make : DMG Mori	<b>02 Nos</b>	<b>Dia 20 MM - 500 MM</b> <b>5 Axis Machine</b>
<b>CMM Machine</b>		FOR dimensional measurement and quality control -- <b>Make-</b> Accurate --



# Machining Facility



5 Axis Turn mill

<b>Total Machines</b>	2 nos.
<b>Control</b>	Seimens
<b>Make</b>	DMG Mori
<b>Specification</b>	5 axis machines with chuck size Dia 305 mm & Length 450mm
<b>Accuracy</b>	0.01 mm



Vertical Milling Centre

<b>Total Machines</b>	6 nos
<b>Control</b>	Fanuc.
<b>Make</b>	Doosan, Kitamura, BFW, Sabre,
<b>Specification</b>	3 axis machines with bed size 1125 X 565 X 571 mm
<b>Accuracy</b>	0.025 mm



**Turning Centre**

<b>Total Machines</b>	43 nos.
<b>Control</b>	Seimens, Fanuc,
<b>Make</b>	Doosan, Puma
<b>Specification</b>	2 axis machines with chuck Dia 500 mm
<b>Accuracy</b>	0.025 mm



**Horizontal Machining Centre**

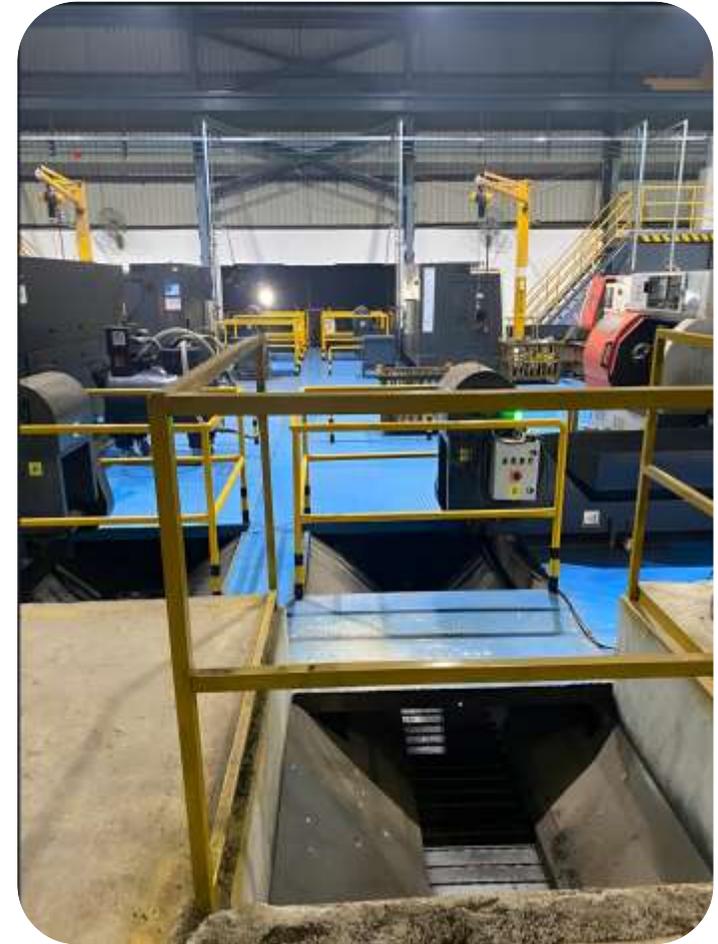
<b>Total Machines</b>	1 nos.
<b>Control</b>	Fanuc,
<b>Make</b>	Hyundai
<b>Specification</b>	4 axis machines with Bed Size 950 X 825 X 760 MM
<b>Accuracy</b>	0.025 mm

## Automated Chip Management System implemented in our finished machine shop

Our Automated Chip Management System transports metal chips from their source to the disposal yard, guaranteeing the safety of our personnel by eliminating manual intervention.

Here are several significant advantages.

- Automated Chip Handling
- Enhanced Safety Measures
- Streamlined Operations
- Integrated Monitoring and Control
- Environmentally Friendly
- Increased Productivity
- Cost Savings
- Scalability and Adaptability
- Continuous Improvement
- Compliance and Reporting



# Surface Coating



**Painting Line**



**Phosphating Line**

- ✓ Automated Phosphating Line with Conveyor Systems
- ✓ Automated Painting Line with Integrated Banding and Stenciling Process
- ✓ Low Stress Vibratory Marking for Traceability
- ✓ MPI Machines for Crack Detection
- ✓ Stand-Off Test for Couplings
- ✓ Hydrostatic Testing for Pup Joints

## PRODUCTION CAPACITY

✓ **Total Production Capacity:**  
2 Million Numbers/Annum

### Tubing Couplings

✓ **Production Capacity:**  
1 Million Numbers/Annum

### Casing Couplings

✓ **Production Capacity:**  
0.8 Million Numbers/Annum

# Products - Closed Die Forging

## AUTO COMPONENTS



**Crank Shaft**



**Saddle**



**Yoke**



**Flange Shaft**



**Knuckle Arm**



**Steering Knuckle Arm**

## O&G COMPONENTS



**Shell Body**



**Wing Nut**



**Valve Body**



**Bracket**



**Disc**



**Choke Valve Body**

## RAILWAY AND TRANSMISSIONS COMPONENTS



**Planet Carrier**



**Bell Joint**



**Transmission Shaft**



**Ring Gear**



**Flange Gear**



**Other SEGMENTS**

# Products - Open Die Forging



**BLOCK**



**GEAR / DISCS**



**POT DIE FORGING**



**STEP Shafts**



**FORGE RINGS**



**STEP HOLLOW SHAFT**



**Spool / Tubing Head**



**FORGED / ROUND BARS**



**FORGED HOLLOW BARS**



**FORGD HOLLOW GEARS**



**PISTON ROD**

# Machined Components



Railway- Side Wheel  
Hub



BALL With Stem



Choke Valve Body



Transmission Shaft



Adaptor Flange



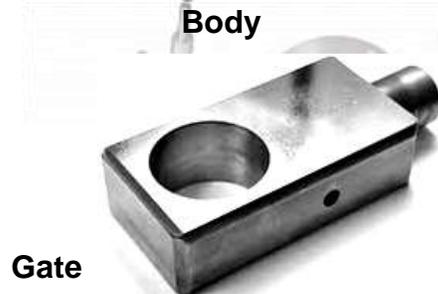
Spool



Body



HUB



Gate



Gears



Well Head  
Components

# Sources of Raw Materials and Grades Expertise

Sourcing high-quality raw materials is crucial for delivering top-notch products to our customers. We prioritize obtaining raw materials from reputable steel mills such as **Steel Authority of India Ltd (SAIL), Jindal Saw Ltd, Mahindra Sanyo, Saarloha, Mukand Ltd, Aarti Steel, Jai Laxmi, Baotou Steel, JST, and others.**

Types of Material	Grades
<b>Carbon and low alloy steel</b>	ASTM A36 , S235JR, AISI 1018, S355J2G4, C35, C15, C40 C45,EN 9, AISI 1045, ASTM A514, AISI 1020, ASTM A709, St52-3
<b>Alloy Steel</b>	4130, , 4140, 4340, EN 19, EN 24 , 52100 , 42CrMo4 , 40Cr, 4750 , 5160 , 34CrNiMo6 ,30CrNiMo8, 36CrNiMo4 , 40NiCrMo7,
<b>Case Hardening Steel</b>	16MnCr5,20MnCr5, 8620,8630 25CrMo4,, 15NiCr13,,17Cr3,18CrNiMo7-6, 31CrMo12, AISI 4615 ,AISI 4620,AISI 4320 AISI 9310,AISI 5120
<b>Stainless, Duplex and Super Duplex Steel</b>	AISI 304, 316/316L, 321, 310 , 410 , 420, Duplex 2202, 2304 ,2205, 2507, 2101 ,UNS 32205, 32750, 32760, 32506,32507

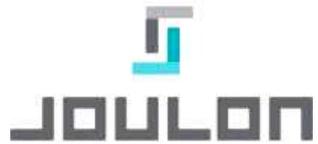
**We specialize in sourcing customized materials tailored to meet our customers' specific material specifications.**

# Facilities For Testing



Equipment Name	Make
<b>Metrological Lab</b>	
CMM	Spectra
Surface Roughness Tester	Carl Zeiss
Profile Projector	Opto Scan
<b>Metallurgical Lab</b>	
Spectrometer	Leco
Micro Tester	Carl Zeiss
Universal Tensile Machine	Fine Spavy
Charpy Impact Testing	Fasne Test
Rockwell Hardness (Digital)	Balancing Instruments
Rockwell Hardness (Analog)	Meta Test
Brinell Harness Tester (3 M/c.)	Fine testing
Rad Check Meter	Nucleonix

## Esteemed Clientele



# Plant Upgrade & Capital Expenditure Ongoing Projects

We are excited to share ongoing projects aimed at enhancing plant efficiency, sustainability, and production capabilities while minimizing environmental impact

Category	Project Name	Details	Timeline
Energy Regeneration Initiatives	Solar Power Project	1 MWh solar power generation project under process	Ongoing
	JLD Water Saving Project	Water conservation project in progress	Ongoing
Upgradation Projects	Civil Walkway Construction	Construction of new walkways for safety and accessibility	Ongoing
	New Spectrometer for Material Testing	New spectrometer to enhance material testing precision	FY 2025
	Manipulator for Material Handling in Forging	Installation of manipulator system for material handling	FY 2025
	ODF Material Heating Furnace Upgradation (8T/Day Output)	Upgrading furnace capacity to 8T per day	FY 2025
	New Automatic Brinell Bed Type Hardness Testing Machine	New automatic Brinell hardness testing machine	FY 2025

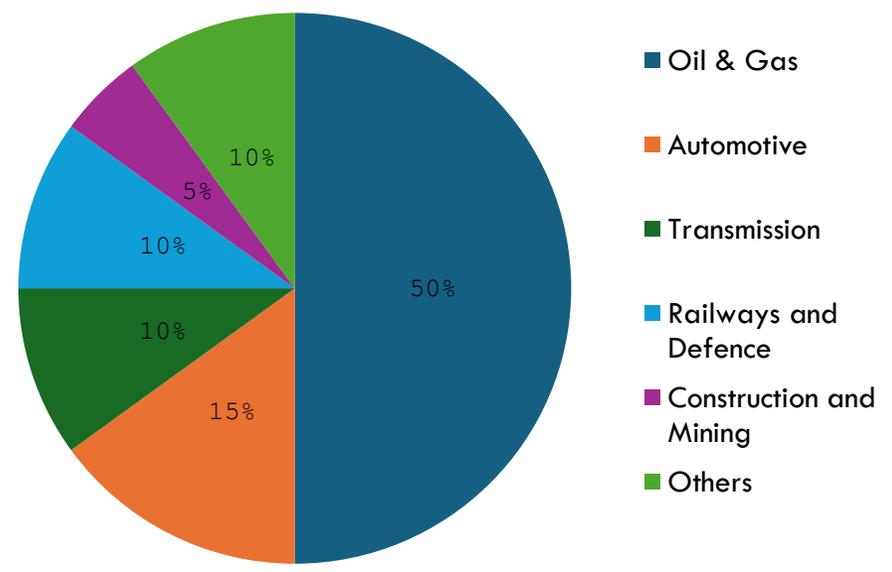
# Plant Upgrade & Capital Expenditure Ongoing Projects

Category	Project Name	Details	Timeline
<b>Capacity Enhancement Projects</b>	New Batch Type Furnace for Heat Treatment with SCADA	New furnace for heat treatment with SCADA and auto charge	FY 2025
	New 1600 T Hydraulic Press with Trimming Press & Induction Heater	Installation of 1600 T press setup with trimming press	FY 2026
	New Continuous Heat Treatment Furnace (1T/Hour Capacity)	Continuous heat treatment furnace for 1T per hour capacity	FY 2026

# Global Customer Presence



## Market Served



□ INDIA | UAE | USA

**We STRIVE TO MEET YOUR UNIQUE NEEDS AND BECOME YOUR PREFERRED COLLABORATOR.**



## **Contact us:**

### **INDIA**

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*Thank You*

