



SHARTECH for Electromechanics Insulation & Maintenance

www.shartech.com.sa





01 About US

SHARTECH is a trusted leader in electromechanical installation and maintenance services in Saudi Arabia. Founded with a mission to provide top-quality, reliable, and efficient services, we specialize in HVAC installation and maintenance, electromechanical insulation, reactive repair services, rewinding, AC ductwork installation, and bearing maintenance. Our clients span industries from manufacturing and commercial operations to residential buildings, and we pride ourselves on helping them achieve safe, energy-efficient, and high-performing systems. With a commitment to excellence, we deliver practical, tailored solutions backed by technical expertise and industry knowledge.

02 Mission

Our mission is to deliver reliable, innovative, and efficient electromechanical solutions that ensure the safety, durability, and performance of our clients' systems. We are dedicated to providing exceptional service, skilled craftsmanship, and tailored solutions that meet the unique needs of each project.



03 Vision

To be the leading provider of high-quality electromechanical installation and maintenance solutions in Saudi Arabia, setting the standard for excellence in HVAC installation, repair, and maintenance.



A close-up photograph of hands placing white puzzle pieces onto a rustic, weathered wooden surface. The puzzle pieces are interlocking, and the hands are positioned to fit them together. The background is slightly blurred, focusing attention on the hands and the puzzle pieces.

04 Our Team

SHARTECH's strength lies in its team of dedicated professionals, including engineers, technicians, and support staff who bring a wealth of experience and specialized skills to every project. Each member of our team undergoes rigorous training to stay current with industry standards, safety protocols, and technological advancements. Our team's expertise, combined with their commitment to excellence and client satisfaction, enables us to deliver reliable, efficient, and innovative solutions tailored to the unique needs of each project.

05 Values



QUALITY

We adhere to the highest standards in every aspect of our work, from initial assessments to final inspections, ensuring clients receive services that meet or exceed expectations.



SAFETY

We prioritize the safety of our team, clients, and the public, implementing strict safety protocols and maintaining an accident-free work environment.



INTEGRITY

We conduct business transparently and honestly, building long-lasting relationships based on trust and mutual respect with our clients and partners.



CUSTOMER-CENTRICITY

Our clients are at the core of our business, and we are dedicated to delivering solutions that solve their unique challenges and add value to their operations.



INNOVATION

SHARTECH continuously adopts the latest technologies and methodologies to stay at the forefront of industry advancements, providing clients with the most efficient and up-to-date solutions.



SUSTAINABILITY

We are committed to promoting sustainable practices, both in our operations and in the solutions we deliver, contributing to a healthier environment for future generations.

06 Why Choose SHARTECH?



EXPERTISE & EXPERIENCE

With a highly qualified team and years of industry experience, SHARTECH offers unmatched technical knowledge and a deep understanding of client needs.



COMMITMENT TO EXCELLENCE

SHARTECH's unwavering commitment to quality and safety drives us to adhere to the highest industry standards, providing peace of mind to our clients.



RELIABILITY AND RESPONSIVENESS

We understand the critical nature of our clients' operations, and our team is ready to respond swiftly to any issue, minimizing downtime and ensuring operational continuity.



CUSTOMIZED SOLUTIONS

Recognizing that each project has unique requirements, we design tailored solutions that align with our clients' goals and address specific challenges.

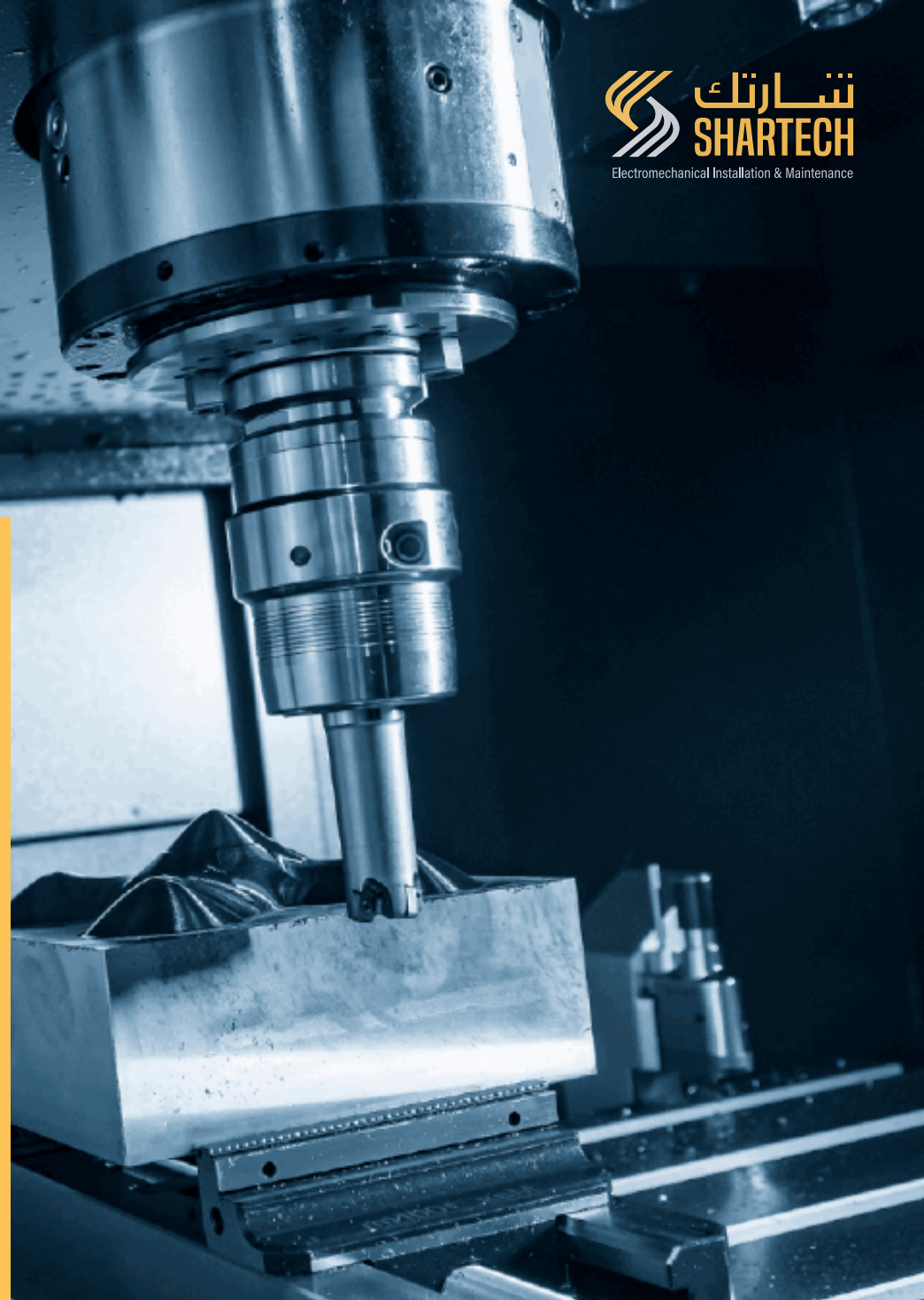


STATE-OF-THE-ART TOOLS AND EQUIPMENT

Our investment in the latest machinery and technology allows us to deliver efficient, precise, and high-quality work.

07 Sthartech's Advanced Machinery

At SharTech, we are committed to ensuring the highest levels of precision, safety, and efficiency in maintaining and overhauling critical machinery and generators. To achieve this, we utilize advanced tools and machinery, eliminating the need for manual installation methods such as hammering or human intervention, which can cause damage to sensitive equipment.



08 Sthartech's Advanced Machinery

7.1

Justification for Using Advanced Machines

The use of advanced machinery at Shartech is driven by our dedication to delivering precise, efficient, and damage-free solutions for our clients' critical equipment. The following points highlight why these machines are indispensable.

7.2

Prevention of Equipment Damage

Manual installation methods, such as hammering or excessive human intervention, can cause irreparable damage to sensitive components, leading to costly repairs or replacements.

Advanced machines like the Bearing Heater ensure even and controlled heating, preventing misfits or stress damage during bearing installation.

7.3

Enhanced Precision

Tools like the Lathe Machine and Drilling and Milling Machines enable us to meet exact specifications, ensuring components are machined or reshaped with unparalleled accuracy, which is critical for seamless operation.

7.4

Increased Efficiency

The use of machines eliminates time-consuming manual processes, allowing us to perform maintenance and repairs more quickly and effectively. For example, the Dynamic Balancing Machine ensures optimal performance of rotating components by reducing vibrations in minimal time.

08 Sthartech's Advanced Machinery

7.5

Improved Safety

Manual installation methods carry inherent risks to both equipment and personnel. Advanced machines provide a safer alternative by automating critical processes, reducing the likelihood of accidents.

7.6

Prolonged Equipment Lifespan

By using precise and controlled methods, we extend the lifespan of machinery and components. Proper balancing, machining, and installation reduce wear and tear, enhancing overall durability and reliability.

7.7

Cost-Effectiveness

Minimizing damage and downtime through advanced machinery leads to significant cost savings for clients, as repairs are more accurate and maintenance is completed efficiently.

7.8

Quality Assurance Post-Maintenance

After the maintenance stage, we employ advanced testing measures to ensure the machinery meets industry standards. This includes testing vibration levels, temperature regulation, and rotation speed to verify optimal performance.

These tests are conducted by computer, ensuring consistent and precise evaluation. Any adjustments needed are made to maintain adherence to the highest quality standards.

08 Tools & Machines

- 6.1 Lathe Machine
- 6.2 Dynamic Balancing Machines
- 6.3 Milling Machine
- 6.4 Bearing Heater

8.1

Lathe Machine

The lathe machine is a cutting-edge tool essential for precision operations like cutting, drilling, and shaping, ensuring components meet exact specifications for high-performance equipment. At SharTech, we utilize state-of-the-art, high-quality machinery to deliver unmatched accuracy and reliability in maintaining and renewing critical parts like shafts, couplings, and spindles, vital for HVAC systems and industrial machinery.

Our advanced technology enables us to provide fast, efficient, and cost-effective solutions, extending equipment lifespan, minimizing downtime, and reducing material waste. Partnering with SharTech ensures access to innovative techniques and precision engineering, making us a trusted leader in exceptional maintenance and renewal solutions.



08 Tools & Machines

- 6.1 Lathe Machine
- 6.2 Dynamic Balancing Machines
- 6.3 Milling Machine
- 6.4 Bearing Heater

8.2

Dynamic Balancing Machines

Dynamic Balancing Machines ensure the precision balancing of rotating parts, reducing vibrations, noise, and wear for smoother and more efficient machinery operation.

At Shartech, we proudly own one of the few Dynamic Balancing Machines available in Saudi Arabia, with none currently located in Medina, making us uniquely positioned to offer this exclusive service.

These machines enhance equipment performance, durability, and energy efficiency, ensuring cost-effective and reliable operations for our clients.

Shartech's investment in this rare technology reflects our commitment to delivering exceptional precision and innovation in electromechanical maintenance solutions.



08 Tools & Machines

- 6.1 Lathe Machine
- 6.2 Dynamic Balancing Machines
- 6.3 **Milling Machine**
- 6.4 Bearing Heater

8.3

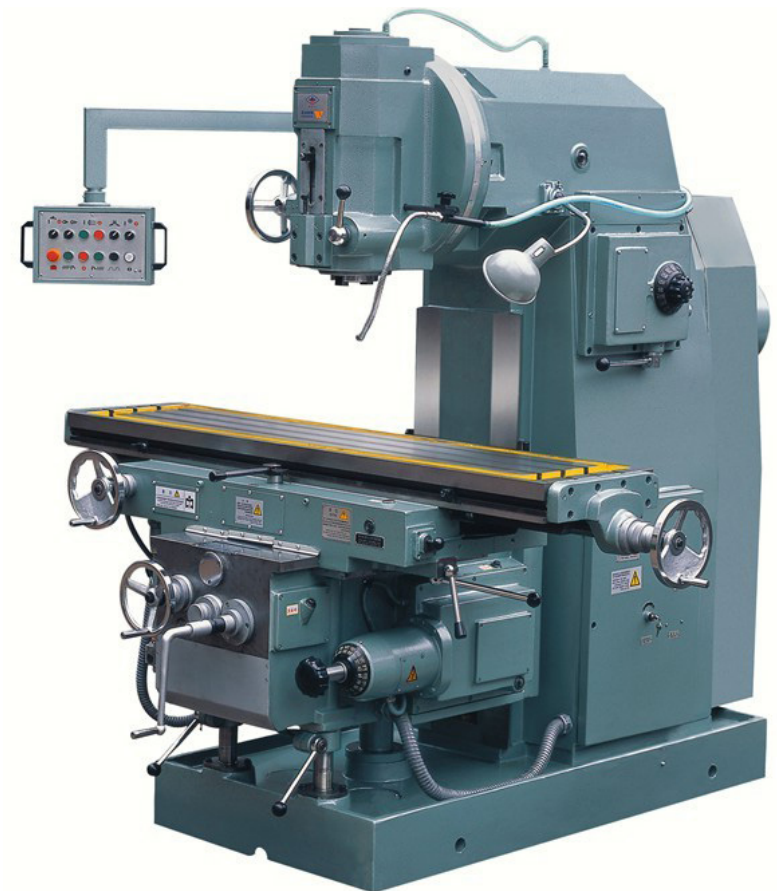
Milling Machine

Drilling and Milling Machines combine drilling and milling operations in one versatile tool, enabling precision machining for creating holes, grooves, and slots.

At Shartech, these machines are vital for fabricating and maintaining complex components like HVAC units, industrial bearings, and engine parts with high accuracy.

They offer cost and space efficiency, rapid prototyping, and precise part fabrication, ensuring quick and reliable maintenance solutions.

By leveraging these machines, Shartech delivers efficient, high-quality services, extending equipment lifespan and setting us apart as a leader in electromechanical maintenance.



08 Tools & Machines

- 6.1 Lathe Machine
- 6.2 Dynamic Balancing Machines
- 6.3 Milling Machine
- 6.4 **Bearing Heater**

8.4

Bearing Heater

A Bearing Heater is a specialized tool that safely and evenly heats bearings for precise, damage-free installation, ensuring a proper fit and extending bearing and shaft life.

At SharTech, we offer exclusive Bearing Heater services, which are not available in Al-Madinah and are rarely found across Saudi Arabia, setting us apart in the region.

This advanced technology enhances efficiency, safety, and reliability, supporting damage-free installations and reducing downtime for industrial clients.

SharTech's investment in this rare equipment reinforces our commitment to delivering precision and excellence in electromechanical maintenance solutions.



09 Our Services

- 9.1 Electromechanical Installation and Maintenance
- 9.2 HVAC Installation and Maintenance
- 9.3 Reactive Action and Emergency Repairs
- 9.4 Repair and Rewinding Services
- 9.5 AC Ductwork Services
- 9.6 Bearings Installation and Maintenance

Additional Services Support

- 9.7 Collection of Machines and Engines from Clients
- 9.8 Delivery of Machines and Engines Back to Clients After Maintenance
- 9.9 Provision of Detailed Maintenance Reports for All Serviced Equipment
- 9.10 Preventive Maintenance and Repair Services for Machines and Engines
- 9.11 Supply of Various Spare Parts

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9.1 Electromechanical Installation and Maintenance

Providing advanced insulation solutions to optimize the energy efficiency, safety, and longevity of mechanical and electrical systems. Our installation services cater to various applications, reducing thermal loss and protecting components against external conditions.

Scheduled maintenance programs designed to prevent equipment failure and ensure operational efficiency.



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9.2

HVAC Installation and Maintenance

Comprehensive HVAC installation services, including customized system design, installation, and testing to suit specific client needs and site conditions.

Preventative and corrective maintenance for HVAC systems, with regular inspections, performance checks, and cleaning to optimize efficiency, air quality, and lifespan.



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9.3

Reactive Action and Emergency Repairs

Immediate response services to manage urgent repairs, helping clients minimize downtime and restore systems to peak performance.

SHARTECH's rapid-response team is equipped to handle unexpected system issues, from electrical failures to mechanical malfunctions.



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9.4

Repair and Rewinding Services

Specialized repair and rewinding services for motors and other rotating machinery, aimed at restoring functionality and maximizing equipment life. Our team performs thorough diagnostics and utilizes high-precision techniques to achieve the best results.



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9.5 AC Ductwork Services

Custom AC ductwork design, installation, and maintenance services to enhance airflow, energy efficiency, and indoor air quality.

Our team is skilled in implementing ductwork solutions that align with building codes and client requirements, ensuring optimal system performance.



09 Our Services

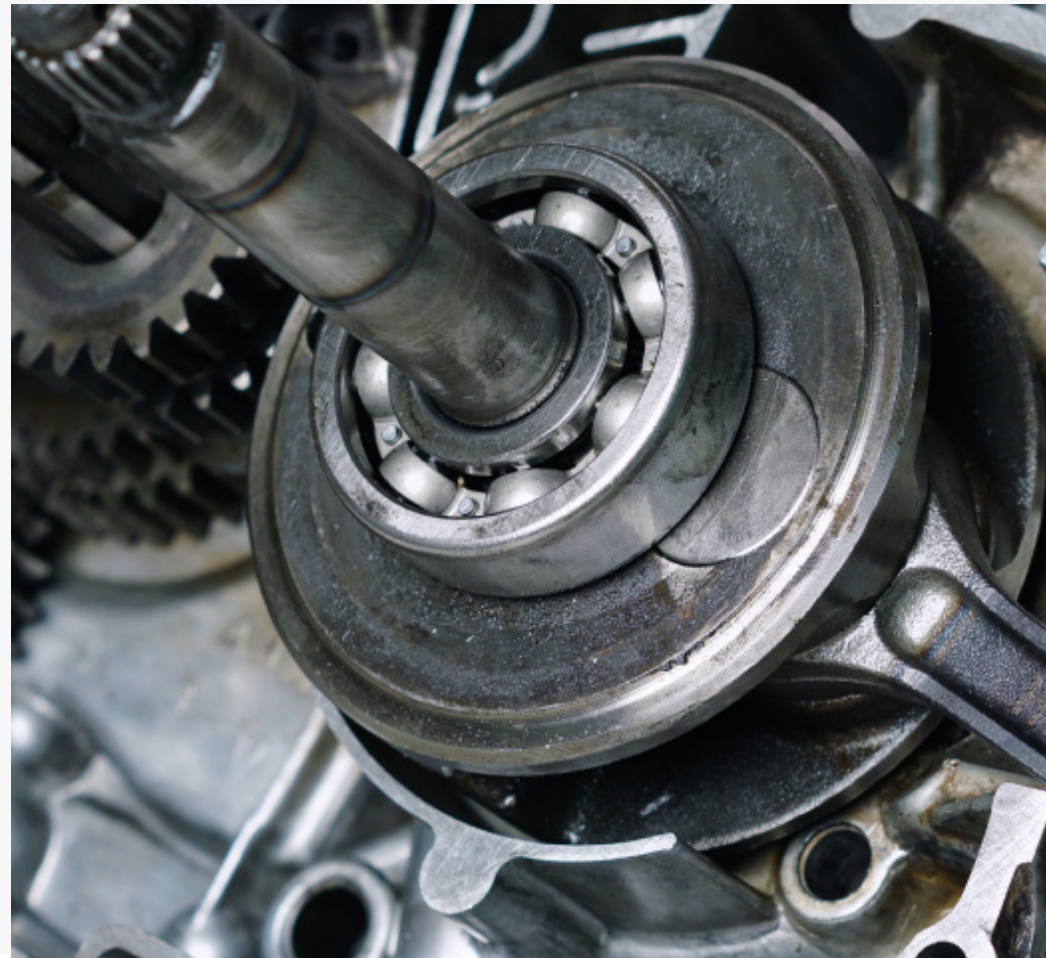
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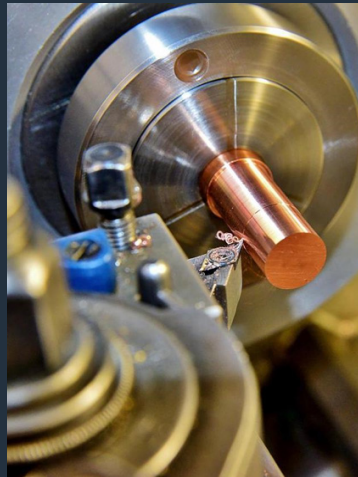
Bearings Installation and Maintenance

Precision installation and maintenance of bearings to reduce machinery wear and increase reliability, focusing on both cost savings and operational performance.

SHARTECH's specialists ensure correct alignment, lubrication, and inspection of bearings, extending equipment service life.



09 Additional Services Support (ASP)



9.7

Collection of
Machines and
Engines from
Clients

9.8

Delivery of Machines
and Engines Back to
Clients After
Maintenance

9.9

Provision of Detailed
Maintenance Reports
for All Serviced
Equipment

9.10

Preventive
Maintenance and
Repair Services for
Machines and
Engines

9.11

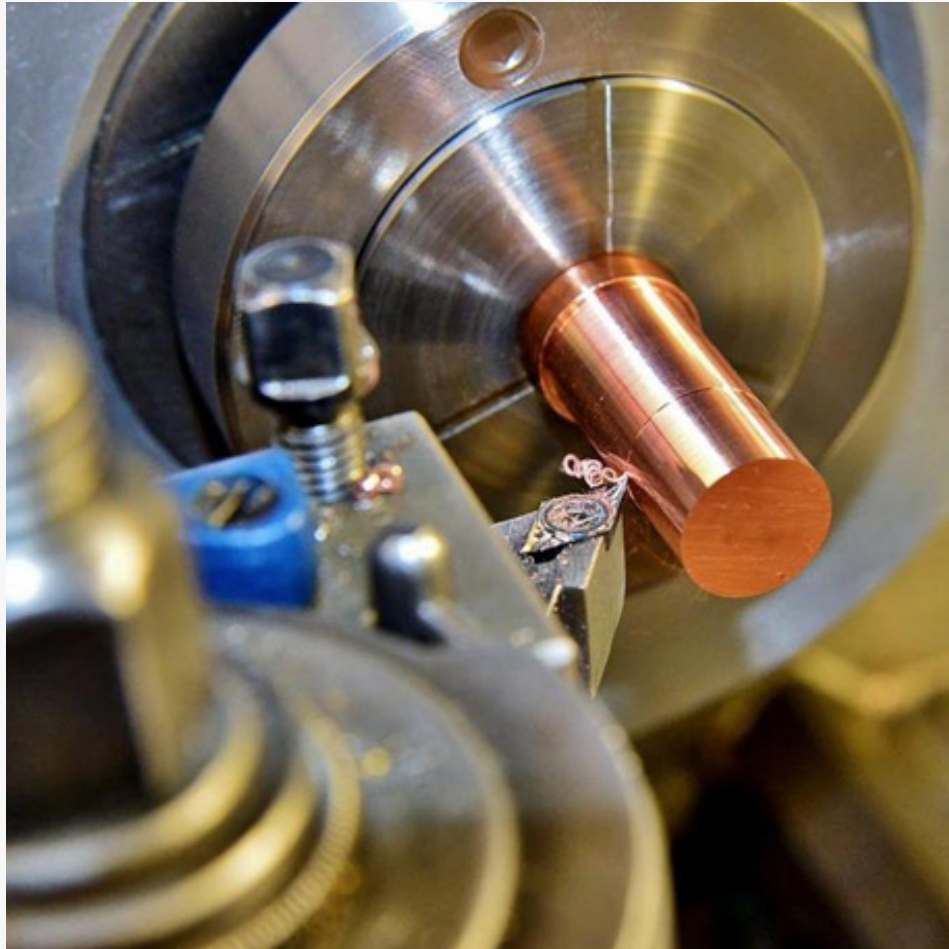
Supply of Various
Spare Parts

- 9.7 Collection of Machines and Engines from Clients
- 9.8 Delivery of Machines and Engines Back to Clients After Maintenance
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9.7

Collection of Machines and Engines from Clients

Shartech ensures a convenient and efficient collection process, picking up equipment directly from clients' locations. This saves clients the hassle of transporting heavy or complex machinery.



9.8

Delivery of Machines and Engines Back to Clients After Maintenance

After completing maintenance or repair, Shartech delivers the equipment back to clients, ensuring it's ready for immediate use. The delivery process is managed with care, focusing on timeliness and safe handling.

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9.9

Provision of Detailed Maintenance Reports for All Serviced Equipment

SharTech provides a detailed maintenance report for every piece of equipment serviced. These reports include information on performed repairs, replaced parts, future maintenance

recommendations, and any observations on equipment condition, helping clients keep thorough records of their machinery's health.



9.10

Preventive Maintenance and Repair Services for Machines and Engines

SharTech specializes in comprehensive preventive maintenance and repair services designed to enhance the efficiency, performance, and longevity of your machines and engines. Our expert team conducts regular inspections, diagnostics, and repairs tailored to each client's specific needs, ensuring optimal operation and minimizing the risk of unexpected breakdowns.

A key aspect of our service offering is our on-site visits, where our skilled technicians personally visit clients' facilities—factories, production plants, industrial buildings, and other operational environments—to assess equipment performance, identify potential risks, and understand maintenance goals. These visits are integral to our approach,

as they allow us to gain a deep understanding of the client's unique operational requirements and conditions. During these visits, our team performs the following:

- Comprehensive Site Assessment
- Customized Maintenance Plans
- Troubleshooting and Diagnostics
- Real-time Monitoring and Reporting
- Preventive Action for Critical Equipment
- Long-Term Maintenance Strategy

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Our technicians assess the overall condition of machines, engines, and related systems to ensure they align with safety, operational, and performance standards.

We work closely with clients to evaluate their existing maintenance strategies and provide tailored recommendations. Whether the focus is on preventative measures, routine maintenance schedules, or specific machine overhauls, we ensure the plan aligns with the client's operational goals and budget.

By being physically present on-site, we can troubleshoot equipment issues in real time, conduct detailed diagnostics, and recommend or implement immediate fixes. This hands-on approach helps identify issues that may not be visible through remote diagnostics alone.

Our team monitors equipment performance and operational patterns during the visit, compiling comprehensive reports on equipment health, areas of concern, and actionable steps. These reports include recommendations for future maintenance and replacements of worn-out parts, helping clients prevent unexpected failures.

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9.10.5

PREVENTIVE ACTION FOR CRITICAL EQUIPMENT

By assessing operational patterns and identifying recurring issues, we create customized preventive maintenance schedules for each piece of equipment. This reduces downtime and extends the life of machines and engines, preventing costly repairs and improving productivity.



9.10.6

LONG-TERM MAINTENANCE STRATEGY

Based on the insights gained during our visits, we help clients develop long-term maintenance strategies that align with their business objectives. This includes adjusting maintenance schedules, integrating newer technologies, and planning for upgrades and replacements.



Our approach goes beyond just fixing problems—it's about building a strong partnership with our clients to ensure their equipment remains in peak condition. Shartech's team of trained professionals is committed to delivering exceptional service and ensuring that the right maintenance actions are taken at the right time, reducing the risk of unplanned downtime and improving overall operational efficiency.



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9.11

Supply of Various Spare Parts

Shartech maintains an inventory of high-quality spare parts, including essential items like bearings, belts, filters, seals, and more. This allows for quick replacement of faulty components and minimizes equipment downtime for clients.

Premium Bearings from Renowned Manufacturers

At SHARTECH, we prioritize quality and reliability in every product we supply. To ensure the best performance and longevity for our clients' machinery, we procure bearings only from globally recognized manufacturers known for their excellence in engineering and durability. Our inventory includes:

SKF Bearings

Renowned for their innovative design and consistent quality, SKF bearings are the benchmark in the industry, offering unparalleled reliability and performance.

SKF

KOYO Bearings

Trusted for their precision and robust construction, KOYO bearings cater to diverse industrial applications with a focus on dependability.

Koyo

NTN Bearings

A global leader in the bearing industry, NTN is celebrated for their advanced technology and stringent quality standards.

NTN

NSK Bearings

With a reputation for excellence, NSK bearings are engineered to deliver superior performance and extended service life.

NSK

09 ASP

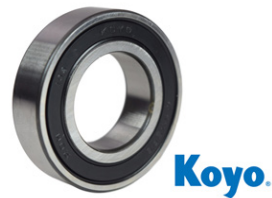
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SKF

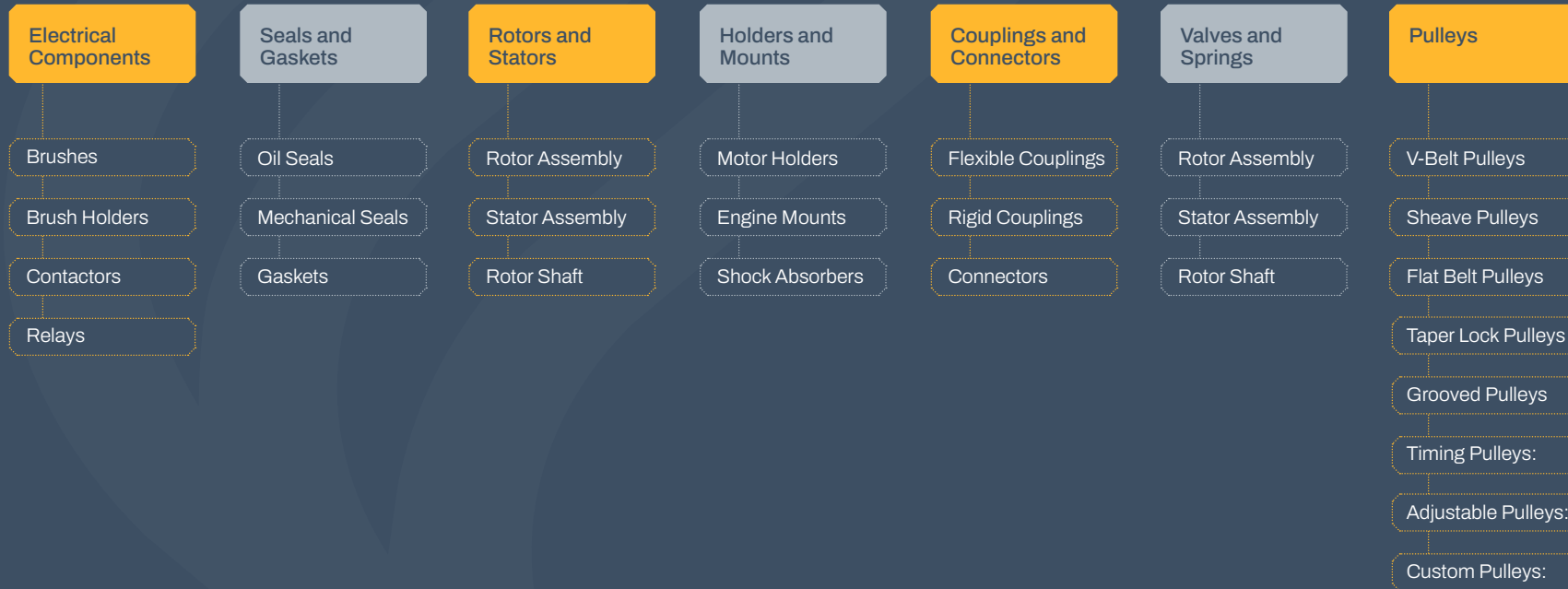
Koyo

NTN

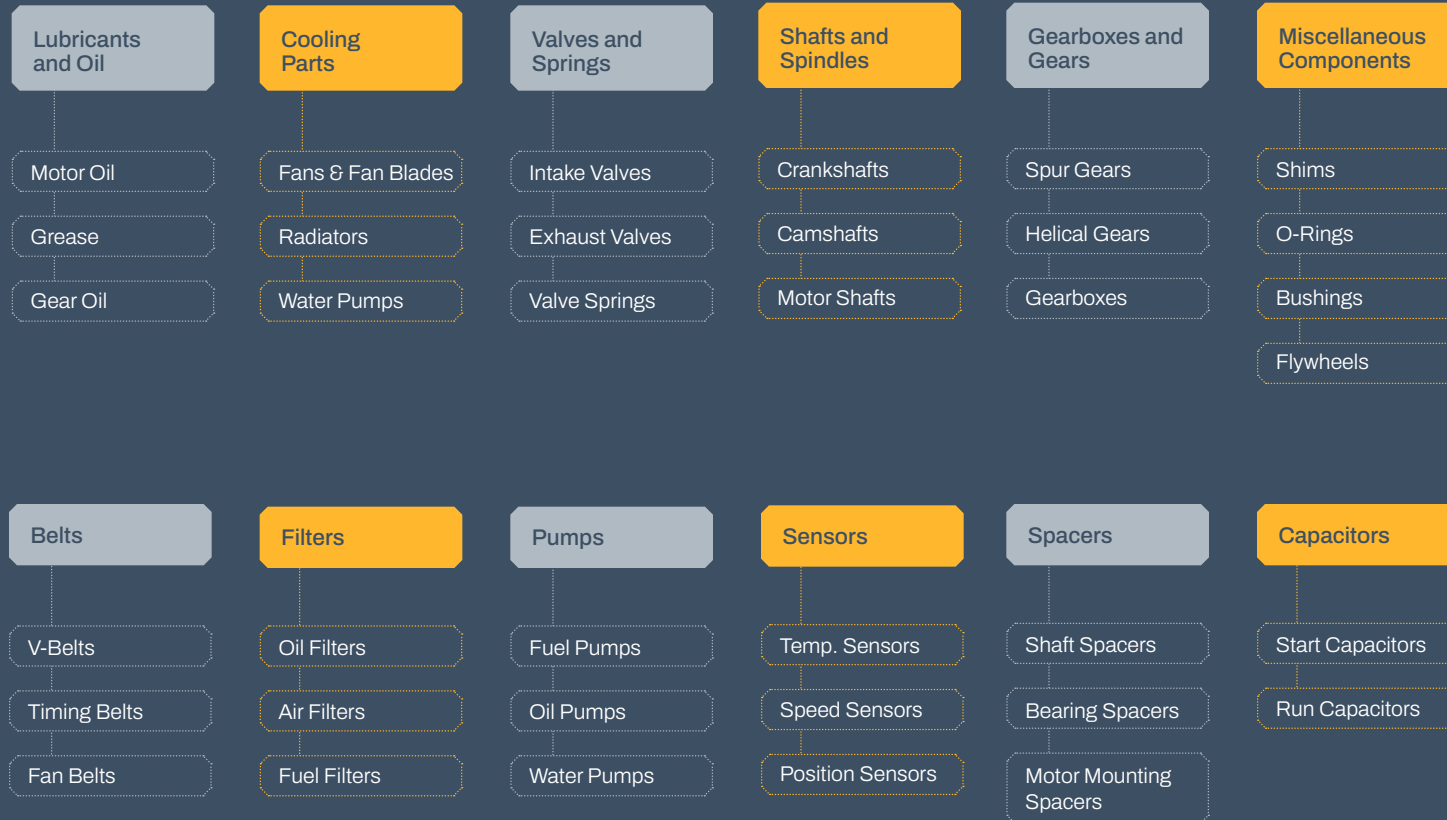
NSK



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Contact Us

For more information on our services or to discuss how SHARTECH can meet your electromechanical installation and maintenance needs, please contact us:

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