

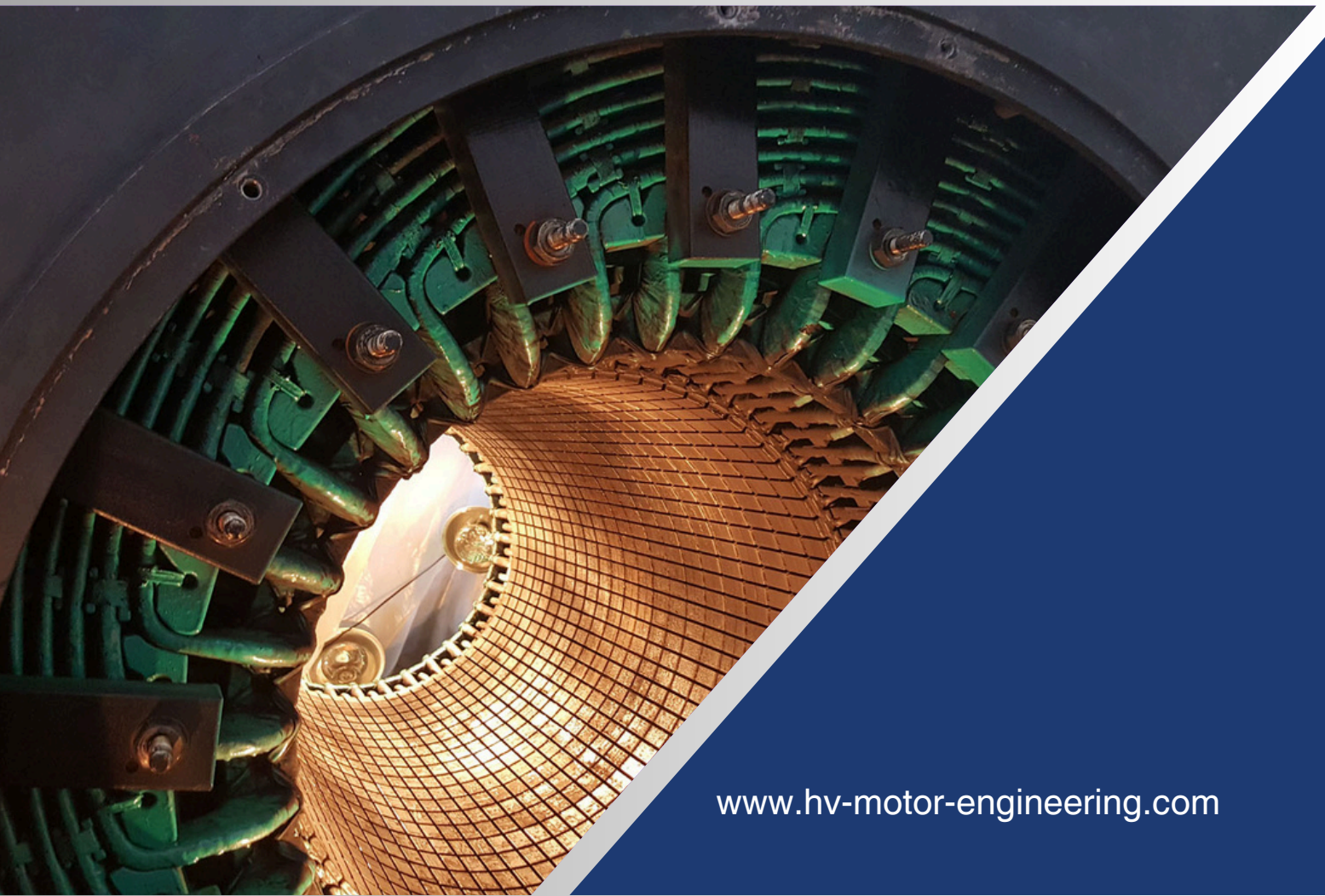


HV Motor  
Engineering Works  
Sdn Bhd

2024

# HV Motor Engineering Works Sdn Bhd

COMPANY PROFILE



[www.hv-motor-engineering.com](http://www.hv-motor-engineering.com)

# TABLE OF CONTENTS

1

Company Overview

2

Core Services

3

Certifications and Licenses

4

Workshop Gallery

5

Diamond Coil Showcase

6

Past Projects and Experience



# Company Overview

H.V. Motor Engineering specializes in the repair, maintenance, and servicing of high-voltage electric motors, transformers, alternators, and related equipment. Established in Malaysia, we cater to industries such as oil & gas, power generation, petrochemicals, maritime, and manufacturing. Our expertise lies in high-tension motor rewinding, transformer overhauls, and supplying high-quality diamond coils for electric motors.

We are equipped with state-of-the-art facilities and a skilled technical team capable of managing projects up to RM1.5 million. Our commitment to precision, reliability, and efficiency ensures minimal downtime for our clients' critical equipment.



# Core Services

1. High-Voltage Motor Repairs and Rewinding
  - Expertise in repairing and rewinding high-tension motors to extend operational life and minimize downtime.
  
2. Transformer Repair and Maintenance
  - Comprehensive services for the repair, rewinding, and servicing of transformers to maintain efficiency and safety.
  
3. Alternator and Generator Services
  - Repair, maintenance, and overhauls for alternators and generators to ensure optimal performance and reliability.
  
4. Diamond Coil Supply
  - Manufacturing and supplying high-quality diamond coils for use in electric motors, ensuring durability and efficiency.
  
6. On-Site Servicing and Repair
  - Flexible on-site repair and maintenance services for clients who require minimal disruption to operations.

# Certifications and Licenses

1. CIDB (Construction Industry Development Board) Malaysia
  - Registered under Grade 3 for mechanical and electrical services, demonstrating compliance with industry standards.
  
2. ST (Suruhanjaya Tenaga - Energy Commission)
  - Registered under Class C, demonstrating eligibility for energy-related projects.
  
3. TNB (Tenaga Nasional Berhad)
  - Registered and recognized for providing services and solutions for TNB projects.
  
4. MOF (Ministry of Finance) Registration
  - Approved vendor for government-related tenders and projects.
  
5. Suruhanjaya Syarikat Malaysia (SSM)
  - Valid Business registration under Malaysia's Companies Commission.

# Gallery of our Workshop

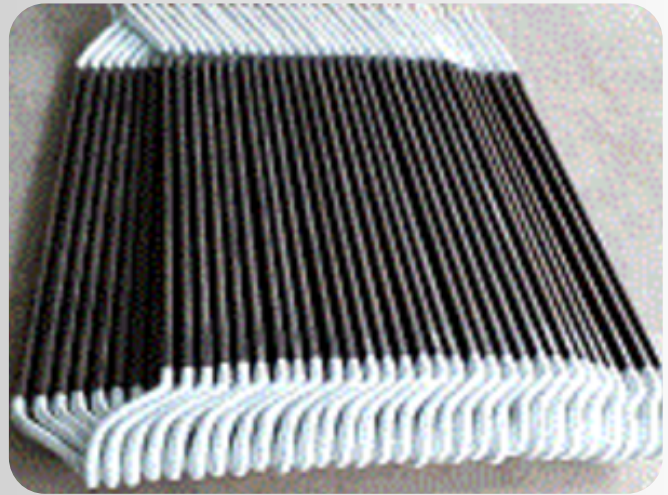
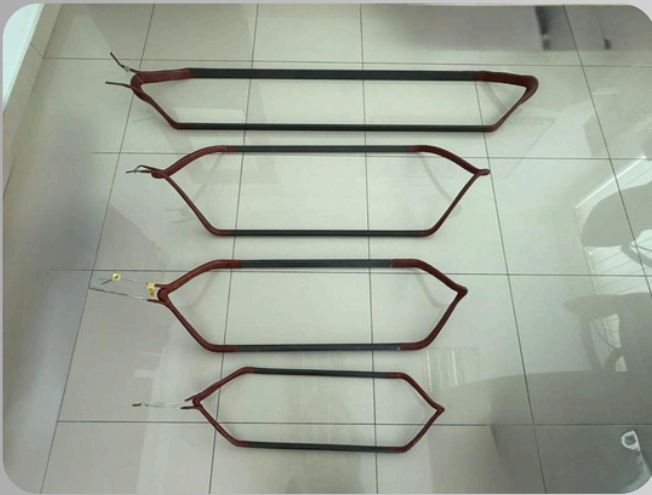


H.V Motor Engineering operates from a 1-acre state-of-the-art facility designed to deliver top-tier electrical services for high-voltage equipment. Our comprehensive capabilities include:

- **Dedicated Workspaces:** Optimized for repairing and rewinding high-voltage AC/DC motors, alternators, transformers, and lifting magnets.
- **Advanced Equipment:** Featuring dynamic balancing machines and laser alignment tools to ensure precision and reliability.
- **Onsite Services:** Offering onsite overhauling and rewinding for quicker turnaround times, minimizing disruption to your operations.

With ample space and cutting-edge tools, we are equipped to handle projects of varying complexity, ensuring quality results for every client.

# Diamond Coils Showcase



## DIAMOND COILS BY HVME

### WHY CHOOSE HVME?

- UNMATCHED EXPERTISE: OVER DECADES OF EXPERIENCE IN MANUFACTURING HIGH-QUALITY DIAMOND COILS.
- CUSTOM SOLUTIONS: TAILORED TO MEET YOUR MOTOR'S UNIQUE SPECIFICATIONS.
- RELIABLE TESTING: COMPLIANT WITH IEEE AND BS EN STANDARDS.

COST-EFFECTIVE PRODUCTION: HIGH QUALITY AT COMPETITIVE RATES.

### FEATURES:

- HIGH-QUALITY MATERIALS: MICA TAPE LAMINATES WITH SYNTHETIC EPOXIES/SILICONE RESINS FOR UP TO 11KV MOTORS.
- FLEXIBLE OPTIONS: HARD OR SOFT COILS, COMPATIBLE WITH VACUUM PRESSURE OR STANDARD VARNISH IMPREGNATION.
- CORONA DISCHARGE PROTECTION: USING ADVANCED TAPES (CONDUCTIVE/SEMI-CONDUCTIVE).
- CUSTOM DESIGNS: TAILORED INSULATION SYSTEMS (HOT PRESSED RESIN RICH, VPI, OR USER-SPECIFIC).

### TESTING PROCEDURES:

RESISTANCE, MEGGER, HIGH POTENTIAL AND INSULATION TESTS.

### WHY THIS MATTERS:

CLIENTS RECEIVE ASSURANCE OF COIL RELIABILITY AND COMPLIANCE WITH IEEE AND BS EN STANDARDS. TESTING RESULTS ARE TAILORED TO THE SPECIFIC REQUIREMENTS OF EACH COIL. THE REPORTS PROVIDE TRACEABILITY, ENSURING ACCOUNTABILITY AND CONSISTENT QUALITY.

# Past Project Experiences

1. Malaysia Smelting Corporation Berhad
  - Static balancing of fan blade (5 ft internal diameter, 11 ft impeller) for 360 kW motor
  - Year: 2020
2. Malaysia Steel Works (KL) Bhd
  - Marathon Slip Ring AC Motor (9 tons) for 1200 kW motor
  - Year: 2020
3. Nishio Rent All (M) Sdn Bhd
  - Dismantle & inspect motor for 220 kVA motor
  - Year: 2020
4. Southern Steel Berhad
  - Service & overhaul of 300 kW motor (armature coil, field coil)
  - Year: 2020
5. Mico Manufacturing Sdn Bhd
  - Dismantle & inspect 315 kW AC motor
  - Year: 2019
6. Negeri Sembilan Cement Industry Sdn Bhd
  - Enlarging fan shaft and fabricating a new collar for a 700 kW motor
  - Year: 2019
7. Pembinaan Indah P.I.E Sdn Bhd
  - Rewind, overhaul, and service of generator DG3B (9980 kVA) at Tawau Power Station
  - Year: 2019
8. BEWG (M) Sdn Bhd
  - Dismantle motor for 575 kW
  - Year: 2018
9. Syarikat Air Negeri Sembilan Sdn Bhd
  - Service 850 kW/6600V vertical HT motor
  - Year: 2018
10. Syarikat Air Negeri Sembilan Sdn Bhd
  - Repair & rewind motor (150 HP)
  - Year: 2018
11. Syarikat Air Negeri Sembilan Sdn Bhd
  - Service & repair 710 kW 6600V AC motor
  - Year: 2018
12. Lembaga Air Perak
  - Electrical maintenance (75 kW submersible pump)
  - Year: 2018



# Past Project Experiences

13. Lembaga Pertanian Kemubu (KADA)
  - Fabricate parts for mechanical seal & repair 400 kW motor
  - Year: 2018
14. Lembaga Pertanian Kemubu (KADA)
  - Rewind motor stator and repair submersible pump
  - Year: 2018
15. Lembaga Pertanian Kemubu (KADA)
  - Overhaul & repair works for 2 units of 300 kW submersible pumps
  - Year: 2017
16. Johor Port Berhad
  - Overhaul & repair works for:
    - 260 kW DC motor
    - 220 kW DC motors (2 units)
    - 110 kW DC motor
  - Year: 2017
17. Pelabuhan Tanjung Pelepas Sdn Bhd
  - Overhaul, repair & complete rewind for 134 HP DC motor
  - Year: 2017
18. Klang Hock Plastic Sdn Bhd
  - Overhaul, repair & rewind for 155 kW DC motor
  - Year: 2017
19. Negeri Sembilan Cement Industries Sdn Bhd
  - Rewind, overhaul & repair of:
    - 4200 kW 8-pole motor
    - 250 kW 3-phase AC motor
  - Year: 2016
20. PNSB Water Sdn Bhd
  - Overhaul & repair for:
    - 373 kW raw water motor
    - 90 kW raw water motor
  - Year: 2016
21. Syarikat Air Negeri Sembilan Sdn Bhd
  - Overhaul, rewind & repair 480 kW 3-phase motor
  - Year: 2016
22. CSC Steel Sdn Bhd
  - Overhaul & repair of 1250 HP DC motor
  - Year: 2016

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