Motors

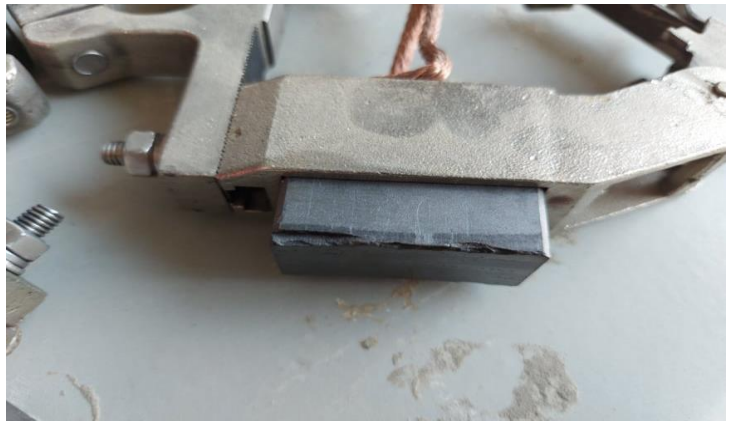
Supply, Service, Repair, Upgrading

Motors | Services

- Internal inspection with endoscope to evaluate the motor condition.
- External inspection to evaluate the following possibilities
  - Possible water leakages from coolers
  - Possible oil leakages from bearings
  - Verify the anchoring onto the skid
- Inspection to evaluate the power cables into the main terminal box
- Electrical checks
- Check of the auxiliaries (space heaters, PT100, etc.);
- Measurement of the insulation resistance of the rotor and stator of excitation parts – matching with the original values
- Check of the diodes and varistors
- Measurement of the stator: insulation resistance, ohmic resistance, PI index – matching with the original values

Motors | Services

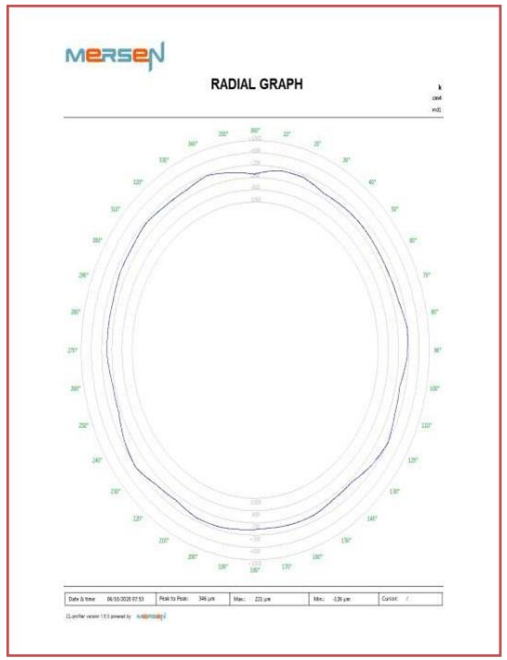
- **On–Site services for DC & Slip Ring Motors:**
  - Brush Holder spring pressure
  - Surface roughness
  - Slip ring roundness
  - Diagnostic and Recommendations
  - Overall check for the brush system condition and brush current density
  - On site repair of slip ring and DC commutator roundness.
  - Restore the slip ring and DC commutator roughness values.
  - Vibration analysis for LV, MV and DC motors and all rotating equipment's.
  - LASER alignment for LV and MV motors.
  - On site dynamic balancing for the rotating parts.

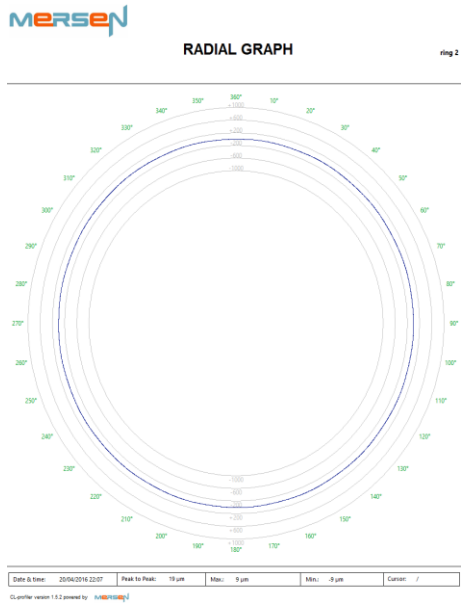


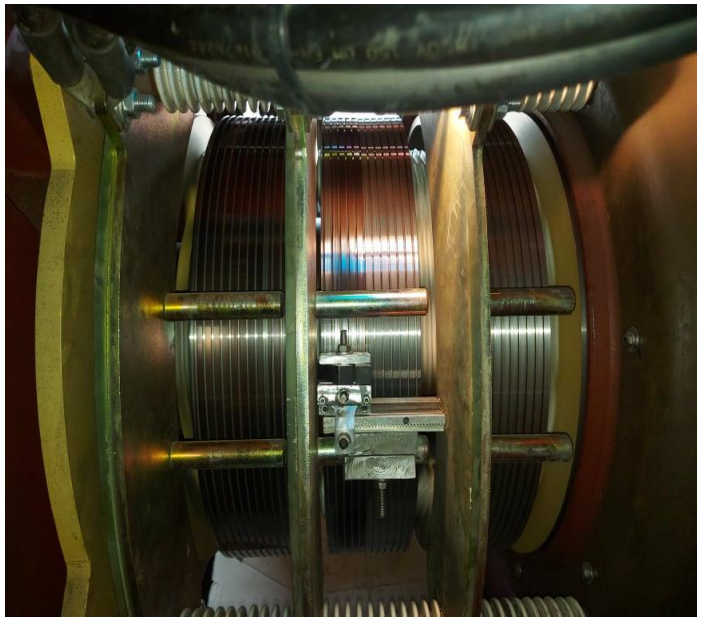
Ref. Example | ARABIAN CEMENT CO.

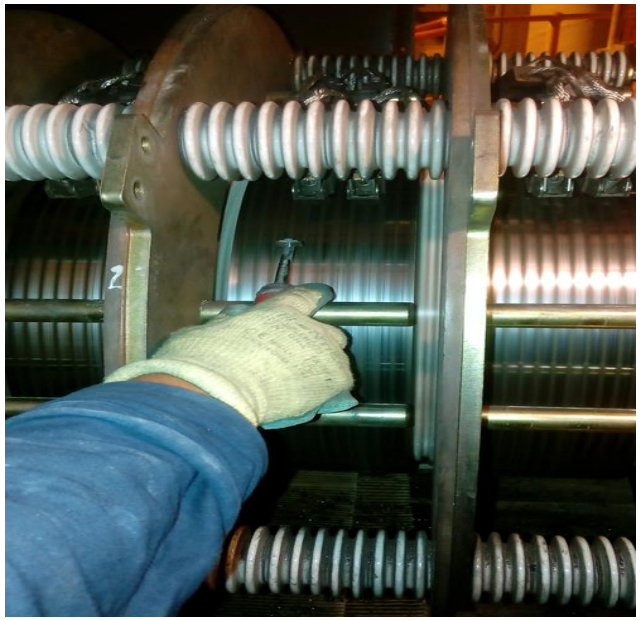
- **Sample for On–Site services for DC & Slip Ring Motors:**

  - **Arabian Cement Plant Run-out & Skimming 25 slip ring motors from 150-8000 KW motors, Oct. 2020**







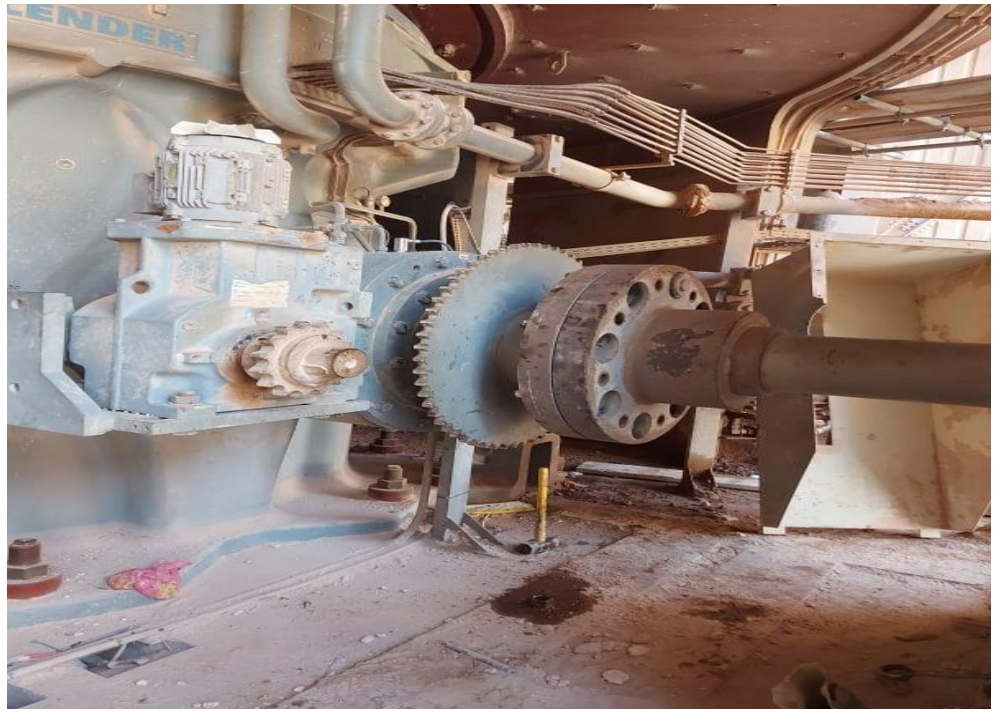


Ref. Example | Al-Rashed CEMENT CO.

- **Sample for On–Site vibration analysis for Slip Ring MV Motors:**

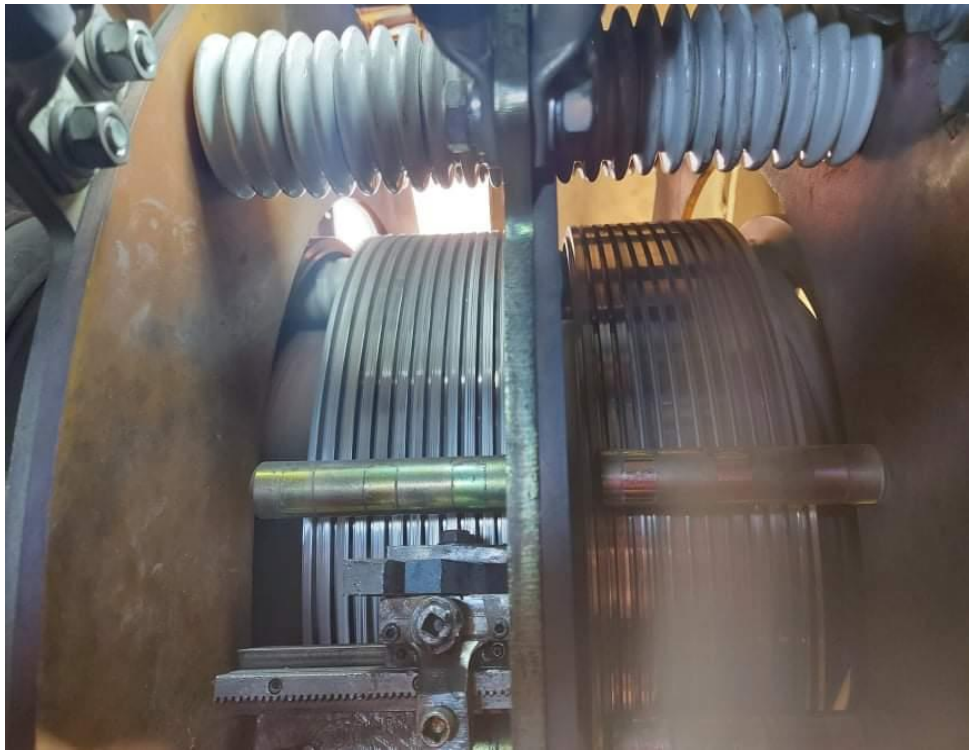
  Al-Rashed Cement Co Vibration Analysis for Slip Ring motors 2100 kW QTY:2, Oct. 2020

الراشد للأسمنت
AlRashed Cement



Ref. Example | Riyadh CEMENT CO.

- **Sample for On–Site repair for Slip Ring Motor:**
  - Riyadh Cement Co. Oct. 2021. (3 motors, each 6 MW)



Ref. Example | Riyadh CEMENT CO.

- **Sample for On–Site service for Slip Ring Motor:**
  - Riyadh Cement Co., May 2021 (4 motors, each 8 MW motor)

Ref. Example | Qassim CEMENT CO.

- **Sample for rewinding and mechanical repair of Slip Ring Motor:**
  - Qassim Cement Co. Oct. 2021 (1500 KW 13.8 KV MV motor rotor)

Ref. Example | ARABIAN CEMENT CO.

- **Sample for workshop services for MV Motors:**

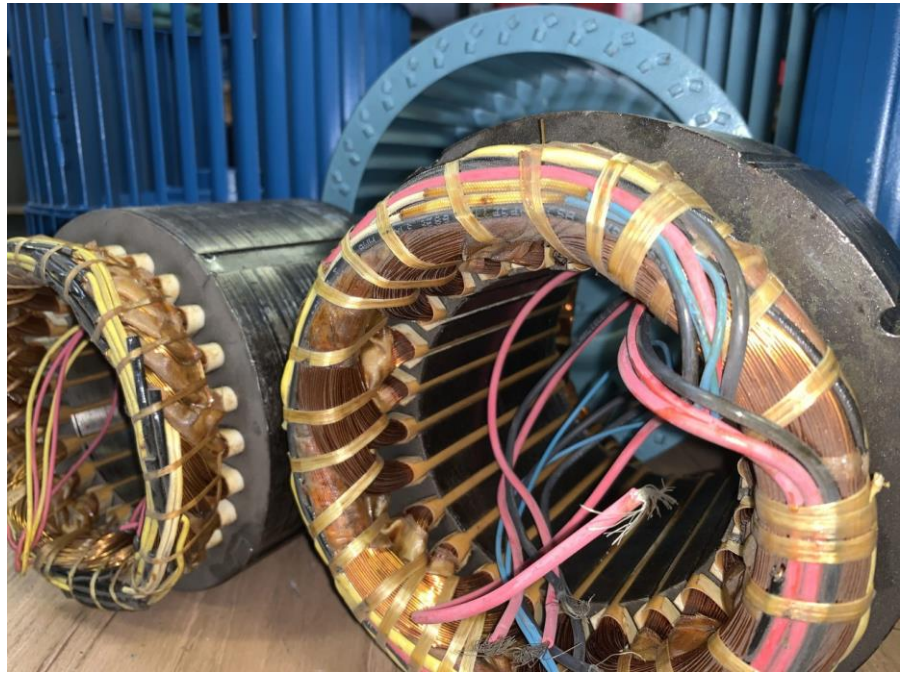
Arabian Cement Plant Repair & Overhauling for 300 KW 6600V motor, June. 2021

اسمنت العربية
Arabian Cement

Ref. Example | Riyadh CEMENT CO.

- **Sample for workshop service for LV AC Motors:**
  - Riyadh Cement Co Rewinding & overhauling for AC motors 6.3kW to 230kW QTY:17

شركة الاسمنت الابيض السعودي
SAUDI WHITE CEMENT CO.



Ref. Example | TABUK CEMENT CO.

- **Sample for workshop services for LV Motors:**

  - **Tabuk Cement Plant Rewinding & overhauling for AC motors 22kW to 230kW QTY:8, Jan. 2021**

Ref. Example | TABUK CEMENT CO.

- **Sample for workshop services for LV Motors:**

  - **Tabuk Cement Plant REWINDING & OVERHAULING OF SLIP RING MOTORS 200kW QTY:1, Jun. 2020**