ÖZGÜR MOTOR & GENERATÖR

www.ozgurbobinaj.com.tr



Our History

Our company has started its activities in year 1989 under the name of "Ozgur Bobinaj" to carry out winding, maintenance and repair works of industrial electric motors.

On 21th of May 2014, our company has changed its named as "ÖZGÜR MOTOR AND GENERATOR INDUSTRY AND TRADE LTD. TITLE."

When we started our activities in Istanbul-Kartal, our company workshop size was 40 m2. Day after day it has been expanded and has reached 1000 m2 by using its own capital and continuing investments.

It has the most modern and state of the art test equipment in Turkey with the investment of test equipment we use in its field service works and in our business.

Once our company decided to establish its own modern facility in 2011, we bought four acres of land in Dilovasi-Köseler village and our new facility with 3660 m2 / 104 ton crane capacity field plan has been completed. Decision to start foundation and construction process had been taken in year 2013 and its basic operation started as of 12.02.2014.

Our company started its activities in its new facility in year 2016.

With this investment, the service of our company will be the rightful pride, as largest and most qualified operation in the sector of Turkey, to our valued customers in every sector of our country.

Since 1989

"AS OZGUR MOTOR VE GENERATOR WE HAVE ACCEPTED OURSELVES AS YOUR PARTNER"

Our Quality

Our company, with ISO 9001, ISO 14001 and OHSAS 18001 certificates, is doing its job in a high-quality level and we consider about environment and job security.

Customer needs and satisfactions are constantly changing targets.

That is why we always work hard to improve ourselves and to increase our quality level every day.

Our Mission

To carry out maintenance and repair of industrial rotating electric machines with high quality services with honesty, high qualified staff, high capacity field facilities, modern machine park, technological test equipment and to add value to the sector with innovative solutions.



Our Vision

To serve maintenance, winding, repair activities of every power and brand of electric motors, generators, dry type transformers and the field services in this area to every sector of our industry without sacrificing honesty and with focus on high quality and cost on, to continue our quality and technology investments without any breaks, to acquire trained and experienced craftsmen and engineers, to be with our customers in all their needs and continuous training.





EQUIPMENTS

As **Ozgur Motor and Generator**, we continuously improve our processes to increase customer satisfaction, as well as our employees and our suppliers. We follow developments in the world with our innovation understanding and increase our service quality.



Borescopes, vibration analyzer, DC micro ohmmeter, megger, Hi-Pot Surge, shaft current meter, ammeter, voltmeter, thermal camera, laser thermometer, laser coupling adjuster, laser pulley adjustment device, dry ice cleaning device, flag test device, pole direction detection device, internal diameter micrometer set, outer diameter micrometer set, coil winding machine, field grinding machine, lathe, field balancing kit, ovality measuring device, strobe, balancing machine, torque boosters, torque wrenches, RSO measuring instrument.

OUR FACILITIES IN OUR ORGANIZATION

AC MOTOR STATOR / ROTOR WINDING, REPAIR AND MAINTENANCE:

We carry out the winding, repair and maintenance of all kind and brand of electric motors at AC Low Voltage (400 - 690 Volts) level and Medium Voltage (6.3 - 10,5 kV) levels in a high quality by adhering to the original values. We are able to apply F class and H class insulations to motor windings.



DC MOTOR ARMATURE / INDUCTOR WINDING, REPAIR AND MAINTENANCE:

We replace, repair and maintenance coils of every brand and power size of DC electric motors in a high quality by adhering to the original values. We apply windings of flat wire and round wire as F class and H class insulations. We have activities at all kind of electric motors operating in different application fields such as rolling mill motors, traction motors, extruders and mixer motors.



We replace, repair and maintenance every brand and size of Generators in a high quality by adhering to the original values. We apply windings as F class and H class insulations. We are actively present in many application areas of generators such as HEPP, GPP, COGENERATION, MARINE, THERMAL PPs and GAS Fired PPs.

SLIP RING ROTOR WINDING:

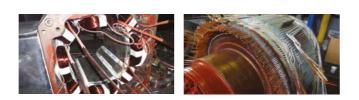
We replace, repair and maintenance the coils of rotor windings of electric motors at medium voltage and low voltage levels in a high quality by adhering to their original values. We apply F class and H class insulations in windings.

CAST RESIN TRANSFORMER WINDING:

The winding of your dry type transformers of all brands and power. We do it by adhering to original values. Flat wire, round wire. We apply the windings as F class and H class.

MAGNETIC STIRRER WINDING, REPAIR AND MAINTENANCE:

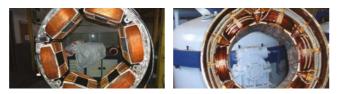
We replace, repair and maintenance windings of every brand and size of magnetic stirrer in a high quality by adhering to the original values. Ergolines and concast brands are two sample work references that we have successfully done.











SQUIRREL CAGE ROTOR WINDING:

We replace, repair and maintenance squirrel cage rotor windings of every brand and size of AC electric motors in high quality by adhering to the original values. After copper or aluminum bars in molds prepared according to groove measurements are thrown into the grooves, the winding is completed by welding to the short circuit rings with silver or aluminum weldings.

CORE MANUFACTURING AND REPAIR:

One by one its insulations are renovated and it is repaired by magnetic current is circulated and the nerve which is detected by the thermal camera is distributed. In the case of intense damage, with equivalent quality sheets of the core is again formed by cutting at the original scale with laser cutting. We make this kind of repairs and fabrication in our facility for the stator and rotor core.

METAL BED REPAIR AND BED GRINDING:

We do sliding bed shaft locating grinding of your motor and generator, white metal casting, bed manufacturing from basic, felt manufacturing works in a guaranteed way.

ROTOR MILL MANUFACTURING:

According to the original shaft material analysis we are manufacturing new shaft from cracked-controlled shaft material which will be suitable as original or high quality. After the old shaft is dismantled and removed, the shaft is pivoted by hot processing with appropriate tolerances. After installation of the new shaft, appropriate tolerances are given by places of insertion are turned.

LATHE OF ROTOR / ARMATURE AND BALANCING:

We are making the rotor balancing and turning of collectors and sliprings with Professional machines. We also do turning operations with our out-of-bed slip-ring systems and our mobile turning equipment in field.

SLIP RING AND COLLECTOR PRODUCTION:

Slip rings and collectors are manufactured by processing casted material from bronze material at the calculated values with lathe and milling. Insulation materials are made by using mica and glass materials by us.



















Our Facility

Is planned and projected according to the objectives of our activities, designed suitable with our productive and technical work.

The capacity of all off-buildings and in-building equipment is kept high enough to provide maintenance and repair of large size engines and generators.

The location of our facility is chosen as in Dilovası Mermerciler Sanayi Sitesi due to proximity to the North Anatolian highway to provide easy fast access to all areas.

Our crane capacity:

Working area:

Closed warehouse area:

3-storey staff building:

4-storey management building:

Total closed area:

104 tonne 2068 m² 538 m² 386 m² 668 m² 3660 m²



Powerful Test Field Coil Manufacturing

100 m2 test area, 380 Volt, 6600 Volt AC and DC Motors and generators no-load running tests and load tests up to 250 kW are carried out in our test area. We carry out the tests of all motors and generators at rated voltage and rated speed with 1650kVA test generator, its transformers and 500kW network input power. 3 x 3.5 meters and 2 x 2 meters platforms were built on a separate foundation independent of the building foundation to prevent vibrations.

Electric motors are connected to these platforms to perform rotation tests rigidly and load tests up to certain strengths and rotation tests of the generators are carried out. Power output tests and load tests up to certain strengths are carried out by rotating the generators. Since our energy is in pure sine mode, it allows the generators and motors to be tested in their design rates. All test values are monitored on PLC controlled screen.

Our Coil Manufacturing

In a working area of 80 m2, with modern forming machine and heating machines, we manufacture our MV, LV and DC coils in our own facilities in a high quality.

Modern Varnish System

It is a fully automated and modern varnishing system with pressure spraying in 6x6x5.5 meters and immersion varnishing system, filter ventilation systems, 2000 It vacuum varnish tank volume and PLC control.

Large Drying Oven

It is the most powerful and capacity drying oven in our sector with 6 x 6 x 5.5 meters measuring 70 ton electric transport vehicle. It performs a quality drying process by making a homogeneous heat distribution with 4 fan systems.

All temperature and time control are monitored by PID controller and PLC, and provides an error-free application.



HEPP – Hydro Electrical Power Plants

EXPERTISE, MAINTENANCE AND REPAIR SERVICES OF HYDRO ELECTRICAL POWER PLANT GENERATORS ARE IN OUR MAIN ACTIVITIES.



Our field failure detection field service is winding damage occured at 19 MVA generators due to water cooler puncture.



Our turnkey maintenance and repair work with 1400 KW Hydrogen generator Workshop and field service.

2 units 6050 kVA HEPP generator workshop maintenance (HEPP generator maintenance flooding and merged in mud)



Our field slip ring turning/lathe operation and restorative repairs operation at 11880 kVA 10000 Volt 428,6 rpm DOLMEL brand generator.









BERG

ENERGY







GPP - Geothermal Power Plant

ARE IN OUR MAIN ACTIVITIES.









GEOTHERMAL POWER PLANT GENERATORS EXPERTISE, MAINTENANCE AND REPAIR SERVICES IN OUR COMPANY



LEROY-SOMER **KATO ENGINEERING**

Cogeneration and Trigeneration Systems

COGENERATION AND TRIGENERATION SYSTEM GENERATORS EXPERTISE. MAINTENANCE AND REPAIR SERVICES IN OUR COMPANY ARE IN OUR MAIN ACTIVITIES.



1165 KW Cogeneration generator field turnkey maintenance work.

2500 kVA Cogeneration generator field bearing replacement work.





Our 2500 KVA Cogeneration generator workshop maintenance and new shaft manufacturing and field commissioning work. (KAZAKHISTAN)















Marine Generators and Motors

IN OUR MAIN ACTIVITIES.



Our 735 kW DC pump motor, workshop and field service maintenance and repair work.









MARINE GENERATORS AND MOTORS EXPERTISE, MAINTENANCE AND REPAIR SERVICES IN OUR COMPANY ARE



Our 200 kW marine generator workshop maintenance work.







OUR SPECIAL WORKS AS PER BUSINESS FIELD

Traction Motors and Cer Motors

TRACTION AC AND DC MOTOR AND GENERATORS IN TRANSPORTATION SECTOR EXPERTISE, MAINTENANCE AND **REPAIR SERVICES IN OUR COMPANY ARE IN OUR MAIN ACTIVITIES.**







150 kW AC traction motor stator winding work.



128 kW DC traction motor stator winding work.





70 kW traction AC generator maintenance work.











Cement and Mining Sector

TURNKEY FIELD AND WORKSHOP MAINTENANCE / REPAIR SERVICES ARE IN OUR MAIN ACTIVITIES.

- · Cooling fan motors,
- Farin, coal, cooling electro filter / bag filter fan motors,
- · Coal transport compressor motors,
- Primer air fans / blower motors,
- Farn feed / clinker transport lines motors,
- · Clinker cooler car engines,



















- The raw mill main drive motor,

- Cement mill main drive motor,
- Coal mill main drive motor,
- Cooling tower water motor,
- Farline transport line motors,
- Cement transportation line motors,
- Coal transport line motors

























Iron and Steel Sector

IRON STEEL ROLLING MOTORS TURNKEY FIELD AND WORKSHOP MAINTENANCE AND REPAIR SERVICES ARE IN **OUR MAIN ACTIVITIES.**



700 kW DC roller motor maintenance.



Magnetic stirrer winding.

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Manufacture of roller motor collectors.



















HABA





SITE AND WORKSHOP REPAIR AND MAINTENANCE WORKS OF EXTRUDERS AND MIXER ELECTRIC MOTORS ARE AMONG OUR MAIN BUSINESS ACTIVITIES.





1500 Hp DC mixer motor maintenance.





KOCAER



ASSAN ALUMINYUM

ERDEMİR



ISDEMIR



KAPTAN DEMİR CELİK

ENDÜSTRİ ve TİCARET A.Ş.

KROMAN

ÇELİK SANAYİİ A.Ş.





Rubber, Plastic, Packaging Sector



1500 Hp DC mixer motor maintenance.



Field periodic measurements.

OUR SPECIAL WORKS AS PER BUSINESS FIELD

Irrigation and Purification Sector

HORIZONTAL AND VERTICAL PUMP MOTORS, SUBMERSIBLE PUMPS, PURIFICATION MOTORS AND GENERATORS FIELD AND WORKSHOP MAINTENANCE AND REPAIR SERVICES ARE IN OUR MAIN ACTIVITIES.



1475 kW Pump motor rotor core manufacture and rewinding.





Tuzla purification 4360 kW Generator field maintenance.



ISKI 1000 kW Pump motor maintenance and repair.





Compressor and Blower Motors

COMPRESSOR AND BLOWER MOTOR WINDINGS AND MAINTENANCE SERVICES IN COMPLIANCE WITH THE WORKING CONDITIONS ARE IN OUR MAIN ACTIVITIES.



Shifting bed replacement and laser coupler adjustment of 2500 kW Atlas Copco compressor motor.





181 kW Atlas Copco compressor Siemens brand motor winding, double lobe rotor winding.









250 kW Atlas Copco compressor motor winding.











Our Site Service Works

WE PERFORM ALL KIND OF MAINTENANCE AND REPAIR WORKS AT SITE IN ACCORDANCE WITH FACILITIES BY USING OUR SITE SERVICE STAFF AND VEHICLE.

SITE FAILURE DETECTION (Expertise)

Our work on fault diagnosis in your electric motors and generators at site with high accuracy solution guarantee with our equipped service vehicle, our modern site test and expert devices and our expert field team.



CHANGING ROLLER BEARINGS AT SITE

Replacement roller bearings of electric motors / generators and fan bearings at site are done on turnkey basis with our skilled staff and our fully equipped service vehicle.

- Dismantling of motors/ generators from its place,
- Disassembly of old roller bearings,
- · Controlling the bearings by measuring with precision micrometers,
- Installation of new roller bearings with induction heating system,
- Installation of the motor / generator and adjustment of the laser coupling,

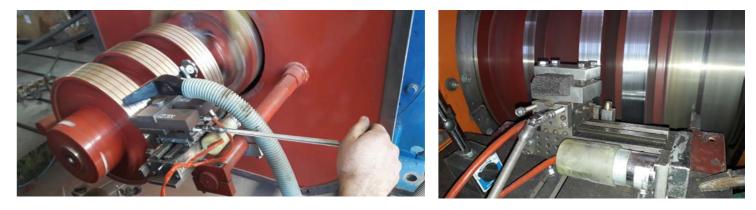




SLIP RING / COLLECTOR GRINDING ON THE FIELD

field.

- Dismantling of the bracelet,
- Installation of your grinding machine,



WINDING CLEANING AND BAKING ON FIELD

We provide services within the scope of Motor / Generator winding cleaning, drying with our mobile oven, full and semiconductor renewal, magnetic strip change and varnishing operations in the field.







We provide turning service by stoning/ grinding motor / generator bracelet (sliprings) and DC motor collectors on

Cleaning and commissioning after grinding/stoning

Since 1989, Your partner in Turkey

ÖZGÜR MOTOR & GENERATÖR

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