

AIR POLLUTION CONTROL

Electrostatic Precipitator

Spares Supply & Services

Spares, components, electrical systems, controls, retrofit, troubleshooting, optimisation and technical consultancy for electrostatic precipitators already in service.



OUR POSITION

We support the ESP you already own.

Aeon Tech Solutions is not a general trading house. Our work starts from the equipment: the field arrangement, the electrode profile, the rapping arrangement, the gas conditions and the emission limit the plant has to hold.

Mechanical Spares

01



Collecting Electrodes

Collecting plates and complete field sets, made to the profile and length of the installed ESP.



Discharge Electrodes

Discharge electrodes and frames, manufactured to the corona-generating geometry and mounting arrangement of the installed field.



ESP Internals

Rapping hammers, shafts, arms, anvils, frames, gas distribution components and internal hardware.

Electricals & Controls

02

Power supply and control are where the largest performance gains usually sit. Obsolete controllers and ageing TR sets limit the field voltage an ESP can actually hold.



HV TR Sets & Controls

Single phase, three phase and high frequency transformer rectifier sets, with their control cabinets and controllers.



MIGI Coils & Controls

Magnetic impulse gravity impact rapping coils and the control equipment that sequences them.



HV Insulators

Support insulators, shaft insulators and HV bushings, including replacements for discontinued profiles.

Engineering Services

03

ESP Inspection

Fields, electrodes, rapping, hoppers and insulators, with a written condition record.

Performance Assessment

Field electricals, gas conditions and collection behaviour against the expected duty.

Troubleshooting

Tripping fields, low secondary voltage, rapping failures, flashover and control faults.

Optimisation

Tuning of energisation, rapping cycles and operating parameters to recover efficiency.

Maintenance Support

Supervision during shutdowns, component replacement and re-commissioning.

Technical Consultancy

Specification review, spares standardisation, retrofit-versus-replacement advice.

Retrofit & Upgradation

04

Replacing an ESP is rarely the first answer. In most cases the casing and structure are sound and the limitation sits in the internals, the power supply or the control philosophy.

01	Control system retrofit	Current-generation control in place of obsolete controllers, keeping sound TR sets.
02	Power supply upgrade	High frequency or three-phase supply in place of single-phase energisation.
03	Internals replacement	Field-by-field electrode replacement with corrected alignment and suspension.
04	Rapping modernisation	Arrangement and cycle revisions where the dust layer is not releasing cleanly.

Send us the drawing or the nameplate photograph.

Existing specifications, old quotations, equipment photographs and datasheets are all we usually need to start work on an ESP enquiry.

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