




ESNAD INTERNATIONAL FOR MODERN

TECHNOLOGY & CONTRACTING

**‘YOUR PARTNER FOR
INNOVATION’**

When you are searching for professionalism integrated with history of success and cleverness then ESNAD will be definitely your perfect selection.

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COMPANY BACKGROUND

ESNAD International for Modern Technology and Contracting brings the latest technical solutions, cutting-edge products and advanced services that enable companies across various industrial sectors to fulfill their objectives and establish a market leading position.

ESNAD draws on its longstanding track record, expert team and robust partnerships with major international industry specialists to meet, if not exceed, client expectations.

By consistently delivering high quality, cost-effective offerings - both standard and customized - paired with exceptional after-sales services, ESNAD supports clients in reducing operating costs, while enhancing overall performance.

BUSINESS SECTORS

ESNAD caters to the requirements of numerous industries through its diversified, world-class products and services, which are sourced from innovative and reputable principals worldwide.

Industries include:

OIL & GAS

CEMENT

**MINING &
MINERALS**

METALS
IRON, STEEL & ALUMINUM

**REFINERIES &
PETROCHEMICALS**

**DESALINATION
PLANTS**

**WATER AND
WASTE TREATMENT**

**PORTS &
AIRPORTS**

**POWER GENERATION,
TRANSMISSION & DISTRIBUTION**

**FOOD, GRAINS &
BEVERAGES**

**SCHOOLS, UNIVERSITIES &
EDUCATIONAL INSTITUTES**

POWER TRANSMISSION

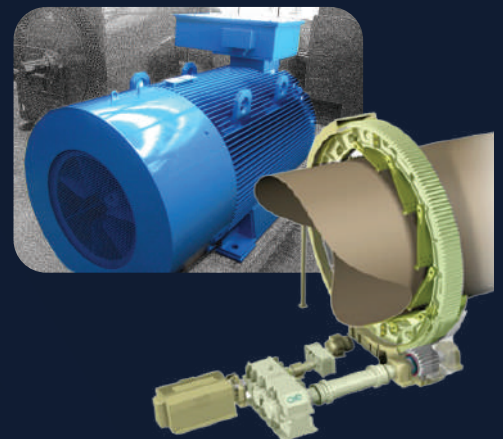
- ⦿ Electrical motors up to 35 MW (Squirrel cage induction, Slip ring, Traction, DC). Geared motors up to 160 kW (Helical, Bevel helical, In parallel, Worm helical).
- ⦿ Industrial Gear boxes up to 5 MW for all applications (Cement & raw mills, Kilns, Conveyor belts, Agitators)
- ⦿ Girth gears
- ⦿ Couplings
- ⦿ V-belts
- ⦿ Pulleys
- ⦿ Chains
- ⦿ Chains sprockets
- ⦿ Conveyor chains and accessories
- ⦿ Kiln and dryer accessories (Riding tires, Thrust rollers, Carrying roller support, and Bearing housings)



DRIVE SYSTEMS

ESNAD offers complete drive systems customized to meet customers' requirements.

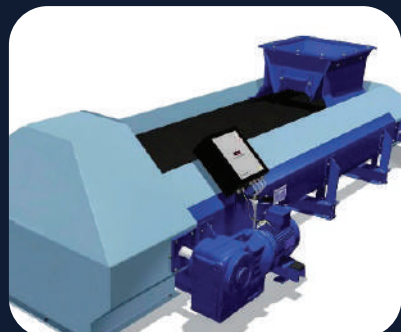
- ⦿ Electrical motors
- ⦿ Standard and tailormade gearboxes
- ⦿ Kiln support system: Girth gear, tires and rollers



INSTRUMENTATION AND CONTROL SYSTEMS

Also, the instrumentation group can supply complete systems;

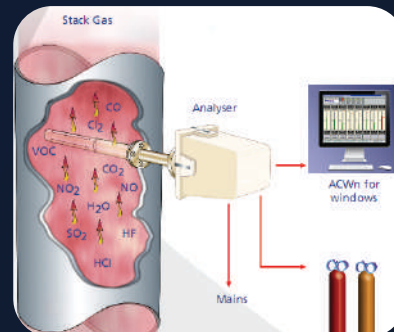
- ⊗ Weighing Systems
- ⊗ Sampling Systems
- ⊗ Continuous Emission Monitoring Systems (CEMS)
- ⊗ Closed-circuit television camera (CCTV)
- ⊗ Full Control Systems
- ⊗ PLC (Programmable Logic Controller)
- ⊗ SCADA (supervisory control and data acquisition)
- ⊗ HMI (Human Machine Interface)
- ⊗ DAHS (Data acquisition & handling system)



WEIGHING SYSTEMS



SCADA SYSTEMS



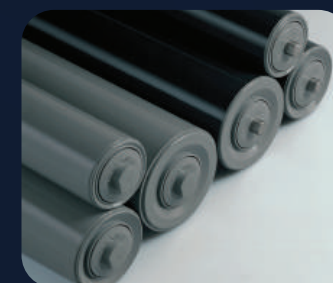
**CONTINUOUS EMISSION
MONITORING (CEMS)**

MATERIAL HANDLING

Material handling systems and equipment are used in transporting and storing materials that are required to be moved frequently between specific points.

This group includes:

- ⊗ Belt conveyors (Abrasion Resistant, Heat Resistant, Oil & Grease Resistant, Fire Resistant, Chevron, Side Wall, Steel Cord, Pipe Conveyor)
- ⊗ Screw conveyors
- ⊗ Bucket elevators
- ⊗ rollers and idlers
- ⊗ Belt pressing machines and repair materials (adhesives)
- ⊗ Overhead crane
- ⊗ Hydraulic & mechanical grabs
- ⊗ Table top chains



MATERIAL HANDLING SYSTEMS

- ⊗ Complete mechanical conveying systems, comprising:
 - ⊗ Bucket elevators
 - ⊗ Belt conveyors
 - ⊗ Pan conveyors
- ⊗ Complete pneumatic conveying systems
- ⊗ Storage systems and silos
- ⊗ Loading and unloading systems



THERMAL

The thermal group contains wide range of products related to heat control.

Main products fall within the following categories:

● Insulation & Lining Products:

- Refractory Material(Bricks & castables)
- Insulation Material
- Rubber Lining
- Coating
- Fireproofing

● Heat Transfer Products:

- Heat Exchangers (Plate heat exchanger, Shell & tube heat exchanger, air cooled heat exchanger,....etc.)
- Cooling Tower

● Heating Source Products (Burners, Heat Tracing, Tracer & Flares).

● Heating and Cooling Systems (Kilns and Dryers, Furnaces & Incinerators, Coolers, Boilers, Chillers).

● Special Fabricated Products (Pressure Vessels & Reactors)

● Pneumatic & Ventilation (Fans & Impellers, Blowers)

● Compressors, Packaging, & Dryers (Air Compressors, Gas Compressor, Packaged Compression System, Air Dryers, Nitrogen Generators)

FLOW

ESNAD offers wide range of flow equipment such as:

- Valves (All types; manual & actuated operating)
- Pumps (All types; bare shaft, motorized)
- Expansion joints (All types)
- Hoses (All types)
- Strainers
- Steam traps
- Fittings
- Actuators



MATERIALS

Materials group consists mainly of steel products together with different materials like (Stainless Steel, Carbon Steel, Alloy Steel, Tool Steel, Tin plated, CORTEN, HARDOX, Duplex, Cast Iron, Ductile Iron, Nickel Alloys, Copper Alloys, Brass, Aluminum alloys, HDPE, FRP, GRE, PVC, PP, Others) in addition to the latest innovation in metallurgical science.

Materials group can provide wide range of equipment such as:

● Mill Internals and Spares

- Shell Lining
- Complete Diaphragms & Diaphragm plates (Slotted & Backside plates)
- Water injection systems.
- Fastening items for ball mill.
- Spares for raw mill & ball mill.
- Grinding media.

● Casting

- Collar grate plates
- Crusher hammers
- Special casted parts (e.g.: nose ring)
- Railway spares (Brake shoes, Fish plates, Wheels, clips...)

● Flat Materials

- Plates
- Strips and Coils
- Tinplate Sheets

● Structural Materials

- Profiles, Beams
- Angles
- Bars and rods

● Fabricated Items

- Tanks
- Chequered plates
- Gratings

● Packing Materials

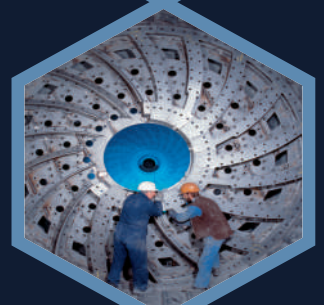
- Jumbo bags
- PE, PP bags

● Consumables

● Welding electrodes

● Fasteners

● Wires and Ropes (Wires, Ropes (Wire ropes, mooring hawsers, fiber ropes, strands (Prestressed))



ELECTRICAL

ESNAD serves all industries and power utilities by offering the best Electrical Power generation, transmission and distribution Solutions.

GENERATION:

Our Generation products includes (But not limited to) the following:

- ⦿ Turbine Control System.
- ⦿ Online Monitoring System.
- ⦿ Exciter Machine.
- ⦿ Excitation Control System.
- ⦿ Synchronization Panels.
- ⦿ DC Systems (Rectifiers, Inverters, & Batteries).
- ⦿ Steam Turbine Generator.
- ⦿ Gas Turbine Generator.
- ⦿ Bearings, Fan blades, RTD, & wedges repair& replacement.
- ⦿ Generator Services.
- ⦿ Protection Relays.
- ⦿ IPB, Segregated & Non-Segregated Phase Bus Ducts.
- ⦿ Generator Circuit Breaker & Switchgear.
- ⦿ Generator set up Transformers (GSU) Unit Transfer Equipment (UTE).
- ⦿ Turbine & Generator spare parts



ELECTRICAL

TRANSMISSION PRODUCTS & SERVICES:

- Substation Protection.
- Circuit Breakers & Switchgears.
- Step Down Transformers.
- DC Systems (Batteries & UPS's).
- Transducers.
- Emergency Restoration Towers.
- Consulting, Engineering, Design, Project Management & Inspection / Preventive Maintenance Services Of Grounding Solutions, Lightning Protection, & Surge Suppression.



DISTRIBUTION PRODUCTS & SERVICES:

- Distribution Transformers
- Instruments transformers
- Special Transformers (Isolating, Electric Arc Furnace, Converter, Rectifier, Shunt & Customized design Transformers).
- Overhead Line Equipment.
- Switchgears:
 - Low voltage switchgears.
 - Medium voltage switchgears.
 - High voltage switchgears.
 - Motor control center.
 - Prefabricated substations.
 - Ring Main Unit (RMU).
 - Compact Substations.
 - Customized Design.



DISTRIBUTION PRODUCTS & SERVICES:

- **MV & LV Products, including:**
 - SF6, Vacuum and Air circuit breakers for LV & MV Switchboards.
 - MCB's, MCCB's, Contactors & Fuses.
 - Protection Relays.
 - Sectionalizers & Reclosers.
 - Disconnectors and load break switches.
 - Measurements Transducers.
- **Remote Terminal Units (RTU).**
- **Cabling & Cable Services (Jointing, Terminations, etc.).**
- **Earthing & Lightning Protection.**
- **Three phase & Single Phase Energy Meters.**
- **DC Products, Including:**
 - Industrial UPS Systems.
 - Industrial Battery Chargers.
 - Industrial Inverters.
 - Industrial Batteries.
- **Power Improvement Products:**
 - Capacitors banks.
 - Power factor corrections.
 - AVR & Voltage stabilizers.



LABORATORY & EDUCATION

Laboratory equipment are related to educational (science and engineering), analytical studies, research & quality testing. We are capable of providing, installing, commissioning , training and providing after sales services.

Our Equipment & Systems can be used for:

Education:

- Universities (Science, engineering, medicine)
- Postgraduate & Research
- Schools
- Vocational training requirements

Industrial & quality control:

- Pilot plants
- Quality testing equipment
- Equipment for standardization institute
- Workshops



OUR PARTNERS

Drawing on a solid base of strategic partnerships with major industry players, ESNAD provides clients from multiple sectors with a myriad of quality products on par with international standards - to ensure turnkey projects are implemented, international expertise are transferred to the local market and comprehensive, end-to-end solutions are competently delivered.



ORIGIN:
AUSTRIA

PRODUCT RANGE:
Generator Overhaul, Maintenance & Repair
Rewinding/Repair of Motors



ORIGIN:
AUSTRIA

PRODUCT RANGE:
MV/HV Electric motors up to 35 MW.



ORIGIN:
USA

PRODUCT RANGE:
Filters & Mist Eliminators



ORIGIN:
AUSTRIA

PRODUCT RANGE:
Burners & Hot Gas Generators



ORIGIN:
USA

PRODUCT RANGE:
Batteries



ORIGIN:
BELGIUM/JAPAN

PRODUCT RANGE:
Cyclo Drive units & Geared Motors/
(Industrial & Cooling Towers Gear Boxes)



ORIGIN:
GERMANY
PRODUCT RANGE:
Grinding Solutions