



GEOHERMAL FIELD APPLICATIONS

# Technologies & Solutions



bimaks



# HYDRAULIC AND ELECTRIC PULL UP MOTORS

- Diesel or Electric Power Engine (2 models)
- Variable displacement hydraulic pump minimizes continuous load on the engine.
- Planet Type high torque reducer.
- 0-25 rpm rotation speed can be adjusted.
- 0-3000 meters deep well operations can be easily handled.



## GEOHERMAL SCALE AND CORROSION INHIBITORS

- Bimaks Chemicals provides engineering and chemical solutions to run plants more efficiently. Our scale and corrosion inhibitors and technical services for cooling systems and geothermal brine and steam systems keep clean against mineral scaling, microbiological growth and corrosion.
- Our sustainable development strategy is our driving force to develop new treatment technologies. We have been working to develop productivity and profitability of our customers by improving performance and quality of products and reducing operational costs.
- Bimaks Chemicals's new generation corrosion and scale control programs provide solutions to make operations better to the plants. We have been working to develop productivity and profitability of our customers by improving performance and quality of products and reducing operational costs.



## INHIBITOR DOSING SYSTEMS

Inhibitor Dosing System is designed as a chemical feed control system which automatically adjusts the feed rate of the scaling inhibitor to the downhole geothermal production wells. The system is constituted from a hardware and a software unit with a frequency controller and chemical flow measuring unit.

# On-screen and SCADA Display Features;

- Inhibitor Dosing Rate (ppm value)
- Metering pump trend graphics
- Well-site inhibitor tank level
- Alarms history records
- Instant alarms
- Metering pump electrical motor speed (rpm)
- Production well flow rate (t/h)
- Total inhibitor amount consumption in each well (kgs)



## SAMPLING SEPERATORS

Steam condensed cooling water in triple or double flash Geothermal Power Plants should be chemically treated against deposition, microbiological growth and corrosion. Our chemical dosing systems can inject chemicals to the cooling tower accurately. Well known brand dosing pumps, controlling equipments and electrical connection devices are used in our systems.



## WATER SOFTENING AND REVERSE OSMOSIS UNITS

Inhibitor dilution unit is a programmable unit and all stages will be controlled with a Programmable Logic Controller (PLC) and an HMI touch screen operator panel.

Automatic programmable mixing unit will provide accuracy of dilution amount and safer than the manual operation. Softened Water or Demineralized Water can be used for dilution of the chemical.

Binary plants pump lubrication systems and Inhibitor Dilution systems need softened or demineralized water. Our automatic PLC controlled softener units and Reverse Osmosis Systems can provide continuous softened water to the systems.

2 to 50 m<sup>3</sup>/h softened Water or Reverse Osmosis Systems are available.





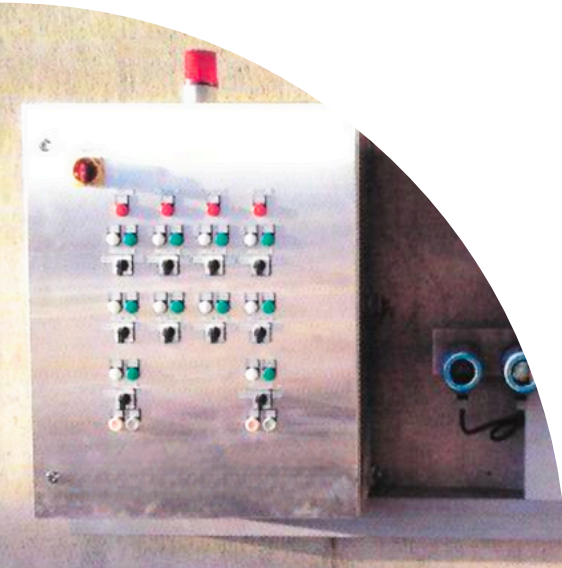
# LUBRICATORS, BLOWOUT PREVENTERS, SINKER BARS, INJECTION HEADS

- No need a tower for supporting.
- Tighten and release the stuffing box. packing from ground level.
- 3,5" Outer diameter 7 mm wall thickness hardened steel case lubricator.
- Lead or Tungsten filled Sinker Bars.
- Incoloy 625, 825 or Monel Injection Heads.



## COOLING TOWER CHEMICAL DOSING SYSTEMS

Steam condensed cooling water in triple or double flash Geothermal Power Plants should be chemically treated against deposition, microbiological growth and corrosion. Our chemical dosing systems can inject chemicals to the cooling tower accurately. Well known brand dosing pumps, controlling equipments and electrical connection devices are used in our systems.



Bimaks provides a technically superior, cost-effective chemical treatment program for the all scope of works within cooling systems. We fully support our customers with;

- New formulation cooling tower biocides, bio-dispersants and corrosion inhibitors
- On-site technical services
- Laboratory support
- Trouble-shooting assistance
- Customer staff training

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