

The
AutoLog[®]
Family
presents



AutoLog[®] Success Story



We've got it under control
Sophisticated Control Technology

Tadzhikistan Aluminium Plant, Russia



FF-AUTOMATION OY



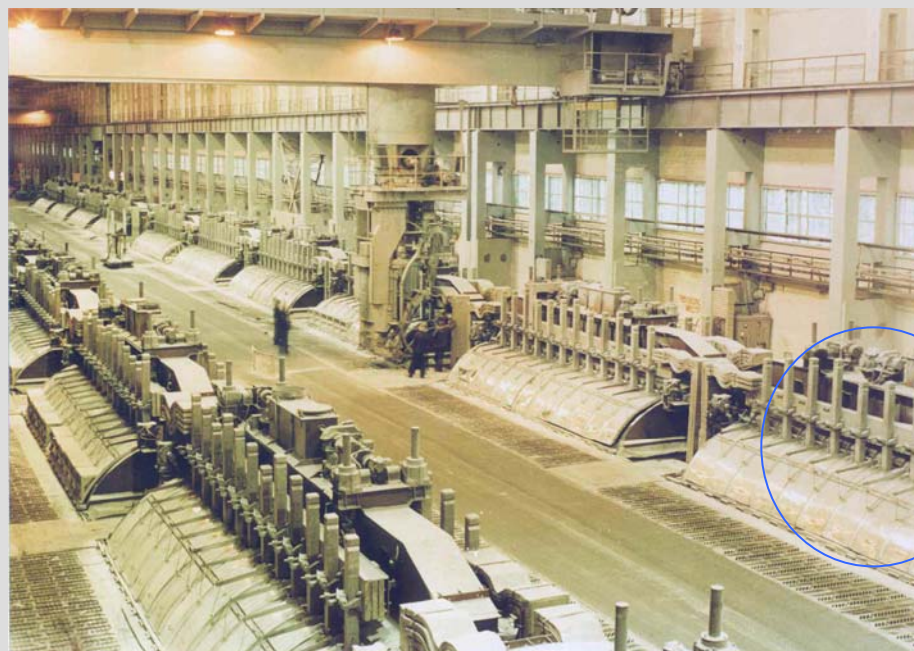
Aluminium Plant

- Established: 1975.
- Number of workers: 15.000 persons.
- The basic activity: production of aluminium and articles from it.
- Productive capacity: 340 thousand tons of aluminium annually.

Project description

The Tadas Ltd. Aluminium Plant in Tadzhikistan uses AutoLog® Control Technology in a pot control system comprising about 10,000 I/O points.

The project was carried out with FF-AUTOMATION Oy's System Integrator in St. Petersburg VAMI- Institut



POT

The potlines

AutoLog® 32 and AutoLog® 2000S Series PLCs are monitoring the electrolyse process and controlling the anodies. One PLC is monitoring and controlling two aluminium smelting pots. Electrolyse current is 330 kVA. The supplied control system increases the productivity and decreases the disadvantages of the anode effect.

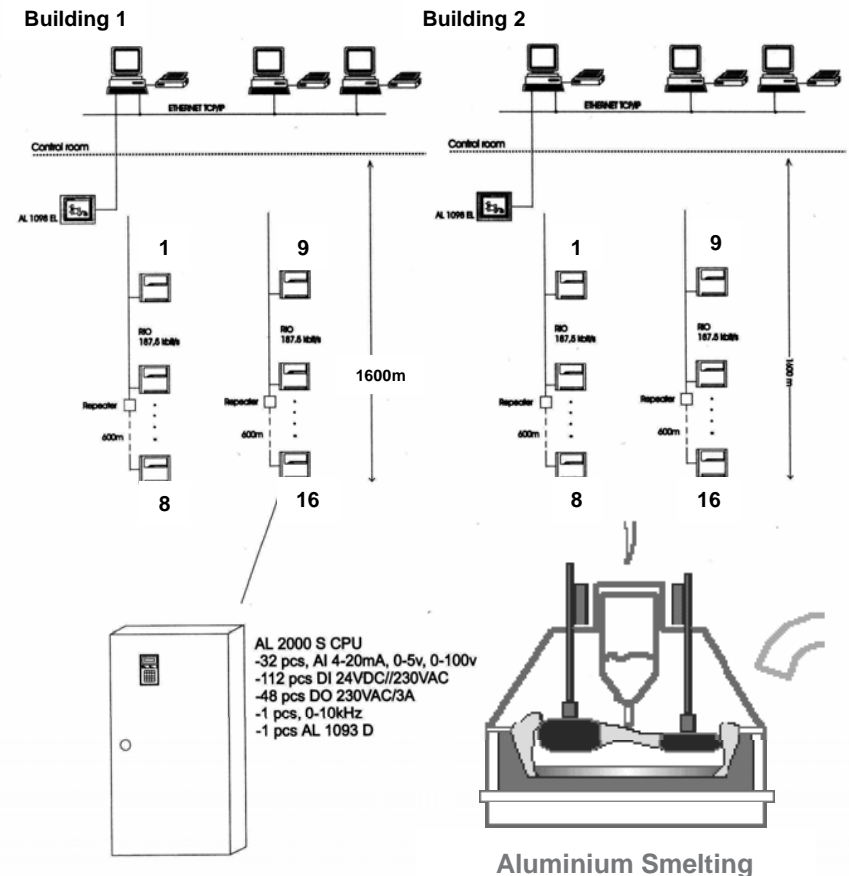


Controlling needs

AutoLog® control system has many sections of the process. Automation system is controlling:

- controls the raw material feeding,
- estimates the birth of the anode effect,
- controls the electrodes,
- control room and local control,
- etc.

Tadzhikistan Aluminium Plant Layout





Used equipment

AutoLog® automation system has equipped with AutoLog® 32- ja 2000S -type of automation devices. System I/O count is + 10.000. Fieldbus is MODBUS RTU, and in upper level Ethernet.



AutoLog® 32 and 2000S

The pot controller's measurement range is 0-5V and the anode effect detection measurement range is 0 – 100V.



For more information
about FF-Automation and
the AutoLog® range of
control products and
automation solutions,
please open

www.ff-automation.com



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