

# WHAT WE DO

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**DRINKING WATER  
TREATMENT**

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**SWIMMINGPOOL WATER  
TREATMENT**

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**WATER TREATMENT  
IN INDUSTRY**

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# OUR CLIENTS

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More than **1500 references** in more than **40 countries**



Municipal swimmingpools  
Water parks  
SPA resorts  
Hotels



Alloy industry  
Oil industry  
Power plants

Water treatment plants  
Waste water treatment plants



Beverage & food industry  
Pharmaceutical industry  
Metal industry







## Drinking water treatment plant

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### Project requirement

Disinfection of drinking water

### Solution

Automatic dosing and measurement of Chlorine Gas with additional Safety system and neutralisation

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## DESCRIPTION

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The system allows remote monitoring for control and service diagnostics.

- Dosing of chemicals (gas chlorine, liquid chlorine, pH correctors, flocculants)
- Measurement and regulation equipment for chlorine, pH, Redox, temperature and flow control
- Filtration
- Monitoring and control of the complete system by remote SCADA automation
- Safety technology for chlorine handling (chlorine gas leak detector,...)

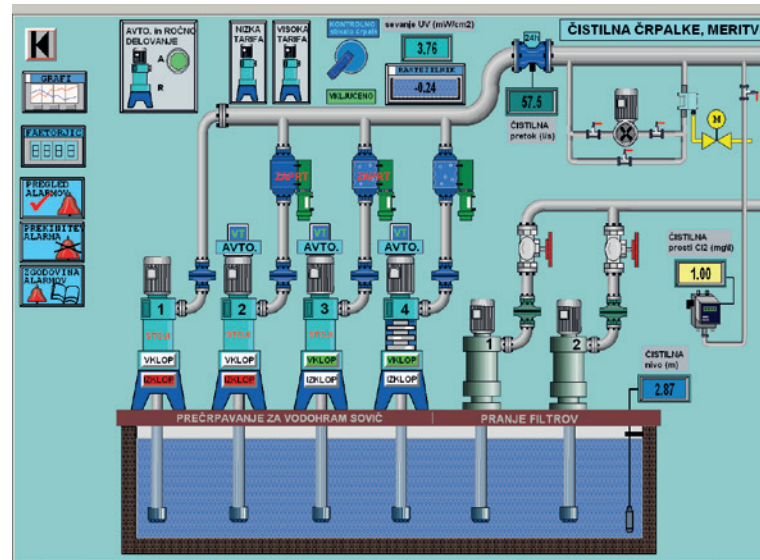
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### PRODUCTS USED:

- Vacuum regulators
  - Ejectors
  - Analysers pH and Cl<sub>2</sub>
  - Control valves
  - Shut off Safety system and neutralisation
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## Swimming pool water treatment

### Project requirement

Equipment that is connected by control technology, in order to enable effective management and control

### Solution

Automation of the complete swimming pool system, enabled by modern measuring, regulation and control equipment.





## DESCRIPTION

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Pool water is treated with different filtration systems, measurement and regulation systems for measuring and regulation of pool parameters, and dosing systems.

All the swimming pool system information is displayed in the SCADA graphic, with the possibility of connecting to the web and set alerts to cell phones.

The system allows remote monitoring, for control and service diagnostics.

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## Water treatment in industry - mobile unit

### Project requirement

Design of mobile, independent dosing unit for water disinfection

### Solution

Special Automatic Chlorine Gas dosing equipment



## DESCRIPTION

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This custom made solution is very practical in following situations:

- Industrial plants with no possibility of installation in the existing facility.
- Natural disasters, where quick response for water disinfection is essential to prevent any spread of contaminated water
- Remote areas with no access to electrical power.

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### PRODUCTS USED:

Tant liquid generator  
Chemical tanks  
Dosing pumps  
Transport pumps  
Measuring units  
Control unit  
Filters

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## Cooling water- slime and algae removal

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### Project requirement

Control the slime and algae in water

### Solution

Automatic Chlorine Gas dosing  
equipment with safety system and  
neutralisation

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## DESCRIPTION

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While water is constantly circulating through cooling towers and heat exchangers in closed loop, chlorination is required to control the slime and algae in water. Induction is made in water tower basin and measurement is made in hot return line before the tower.

### PRODUCTS USED:

- Vacuum regulators
- Ejectors
- Analysers pH and Cl<sub>2</sub>
- Control valves
- Evaporators
- Shut off safety system and neutralisation







## Aluminium Recycling using chlorine

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### Project requirement

Removal of hydrogen and magnesium from the aluminium

### Solution

Special Automatic Chlorine Gas feed equipment

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## DESCRIPTION

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Chlorine is used in the removal of hydrogen and magnesium from the aluminium. Chlorine gas feed is under pressure in combination of inert gases. Impurities that were not removed with pre heating process is later removed with chlorine.

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### PRODUCTS USED:

- Pressure regulators
  - Injection pieces
  - Flow meters
  - Control valves
  - Evaporators
  - Shut off and neutralisation Safety system
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## Elimination of Cyanide compounds with Chlorine

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### Project requirement

Elimination of cyanide wastes in metal finishing operations

### Solution

Special Automatic Chlorine Gas dosing system with neutralisation

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## DESCRIPTION

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Cyanide wastes are extremely toxic even in small quantities; therefore, cyanide must be reduced to carbon dioxide and nitrogen before discharging to waste water collection system. Thus we prevent any impair at the biological process of waste water treatment plants. Our solution is made in two stages, first is oxidation with chlorine and second is adding the caustic soda to maintain the pH levels.

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### PRODUCTS USED:

- Vacuum regulators
  - Ejectors
  - Analysers pH and Cl<sub>2</sub>
  - Control valves
  - Shut off and neutralisation Safety system
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