

# Grundfos Titanium pumps

## ► Titanium - breaking new ground

The Space Shuttle has taken titanium into space. Grundfos has brought it back to earth again to take advantage of a material that far outstrips the metals commonly used today. Cost-wise, titanium is now a fully viable option in industrial applications where long-term reliability in aggressive environments is crucial. Titanium is the metal of choice for use in the harshest and most corrosive environments on earth.

### Titanium makes the difference

If you work with highly aggressive industrial liquids or harsh seawater environments, you almost certainly have to deal with the challenges of corrosion in pump components, and the downtime, maintenance burdens and costs this brings.

No other structural metal can match titanium in its resistance to corrosive attack by saline solutions, including sea water. And titanium is virtually unaffected by most oxidising acids and industrial chlorine solutions.

### Ideal for tough jobs

CR Titanium pumps are an outstanding element in the well-proven Grundfos CR range of pumps. In Grundfos CRT pumps, all the components that can come in contact with the pumped liquid are made of titanium.

Grundfos CRT pumps are therefore ideal for use in installations subjected to corrosive attack, such as desalination plants, marine and offshore applications, chemical plants and swimming facilities.



## What makes CRT pumps special?

### The titanium advantage

Titanium is unique among metals in being able to withstand attack by chlorides and oxidizing liquids due to a highly stable oxide film that completely protects the surface against corrosion. This makes Grundfos CRT pumps fully resistant to solutions of the chlorites, hypochlorites, chlorates and chlorine dioxide used in the pulp and paper industry, and for disinfection purposes. Grundfos CRT pumps are also fully resistant to oxidising metallic chlorides, such as  $\text{FeCl}_3$ ,  $\text{NiCl}_2$  or  $\text{CuCl}_2$ , used in water treatment, the electronics industry, metal refining or plating.

### Flexible solutions

The Grundfos CRT range is an integral part of a comprehensive series of pump solutions developed for use in industrial applications. Each pump type is available with a range of different specifications and accessories to meet your precise needs.

### Grundfos - a world-wide supplier

Grundfos offers an efficient world-wide service network. Experienced service technicians and all necessary spare parts are available at short notice in all corners of the world.

