



CENTRIFUGAL PUMP SOLUTIONS FOR HYDROGEN

Green Hydrogen Production for the Energy Transition

A large, semi-transparent "H₂" is centered on the right side of the image. The background is a vibrant green with a bokeh effect of light spots. On the left, there are several realistic, glowing bubbles of varying sizes, some of which appear to be merging or interacting, symbolizing hydrogen production or storage.

H₂

distinctive vision

PUMPS TO KEEP ELECTROLYSIS SYSTEMS COOL AND HYDROGEN FLOWING

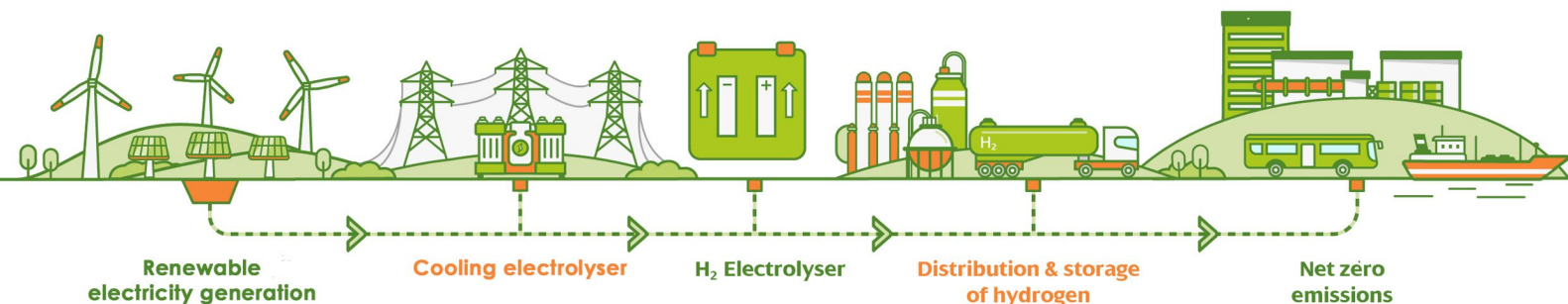


Developing renewable energy sources together

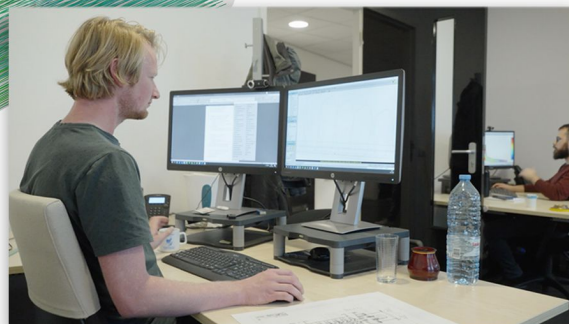
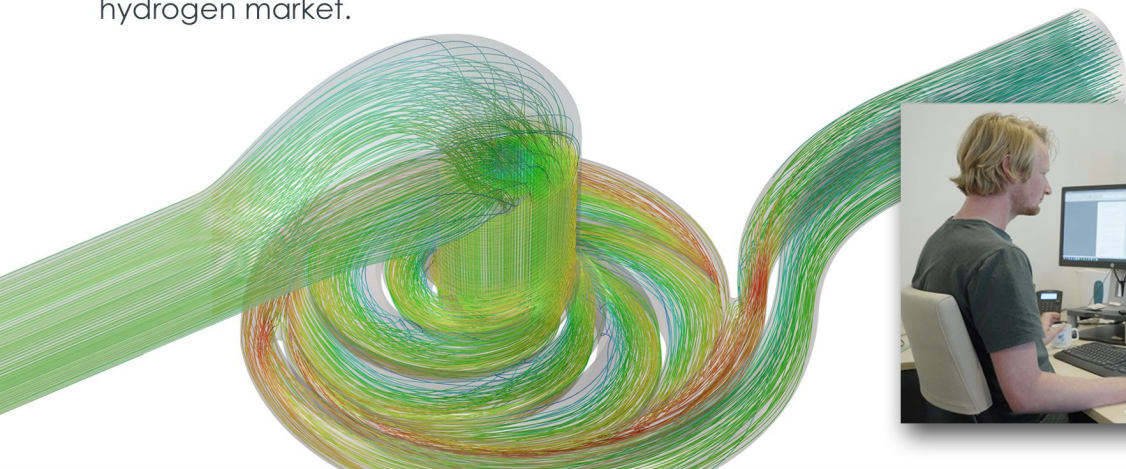
The expansion of renewable energy sources enables industrial companies to meet their sustainability targets and also ensures access to clean and affordable, reliable energy. Globally, there is an increasing focus on new energies that have minimal impact on the environment. Governments and global organisations alike are introducing stricter regulations in an effort to reduce emissions that contribute to the greenhouse gases (GHG) that warm the atmosphere and cause climate change.

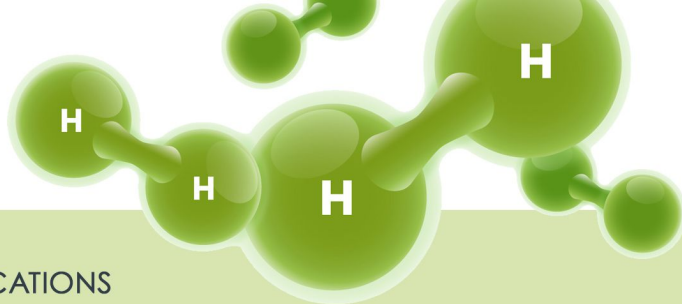
In addition, companies of all sizes and in every industry are taking more steps to minimise or eliminate their carbon footprints and use resources more efficiently. This development increases the urgency to develop alternative energy sources and environmentally friendly industrial facilities. One of these options is so-called "green" hydrogen, which is produced as an industrial fuel using electricity from solar and wind sources. A development that, among other things, will encounter new design challenges due to upscaling.

Green Hydrogen



In addition to the extensive range of pumps, Rodelta is a good sounding board for developers in the Green Hydrogen field because of our in-house design team. This team has extensive knowledge and years of experience in the energy market with regard to hydraulic and mechanical solutions. Rodelta is used to dealing with stringent requirements and therefore fit for purpose products. Our pump experts are ready to support with your challenges in the hydrogen market.





QUALITY PUMPS FOR HYDROGEN APPLICATIONS

Rodelta is fully prepared to support the transition to green hydrogen with:

- ROMAK[®] - MAGDRIVE, sealless process pumps
- HZC(M)[®] - MAGDRIVE API 685 (OH2)API 610) Horizontal
- ETL (M)[®] - MAGDRIVE API 685 (OH5)API 610) Vertical

Pumps with low life cycle costs in green hydrogen and green ammonia applications, Rodelta pumps can operate reliably and leak-free in distribution and storage systems.

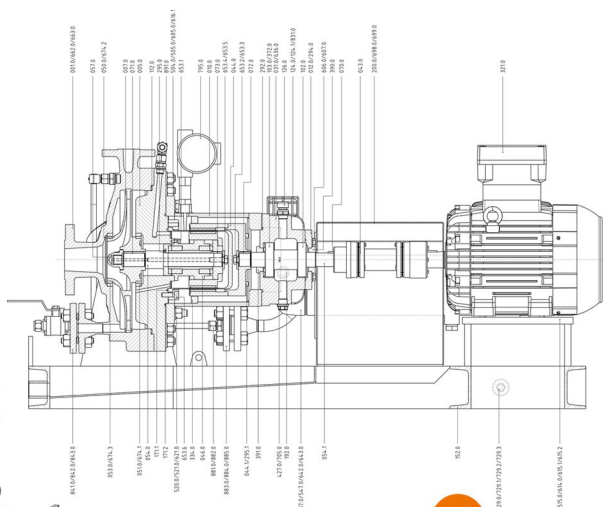
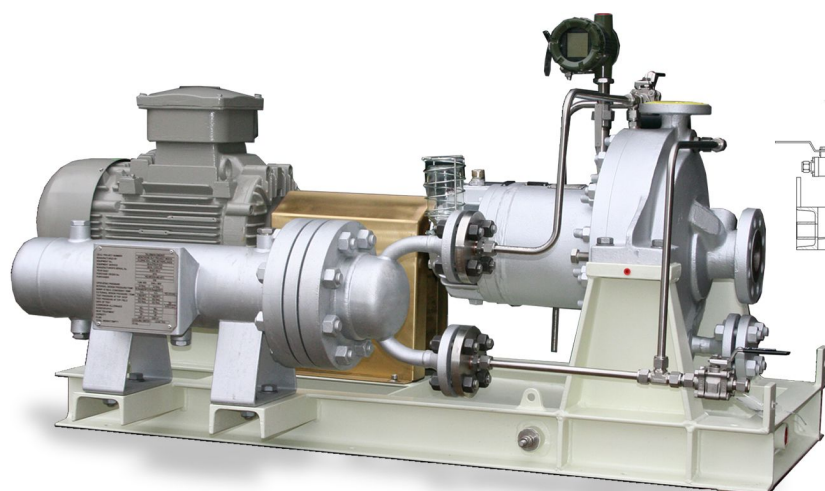
ROMAK[®] - MAGDRIVE Chemical Norm pumps



- * ROMAK pumps are used for handling various types of Clear / Clean chemical liquids without any suspended particles from various process industries
- * ROMAK pump is Magnetic Drive Pump comprising permanent magnets. Pump dimensions are fully confirming to ISO 2858/DIN EN 22858 and technically meeting requirements of ISO 5199.
- * Sealless pump.

HZC(M)[®] - MAGDRIVE API 685 (OH2)API 610 - Horizontal

- * The design of HZC(M) complies with the 12th edition of the American Petroleum Institute (API) standard 'Centrifugal Pumps For General Refinery Services', also known as API 610/ ISO13709.
- * HZC(M) the Magnetic Drive part are comprising Permanent magnets, according API 685.
- * Sealless pump.

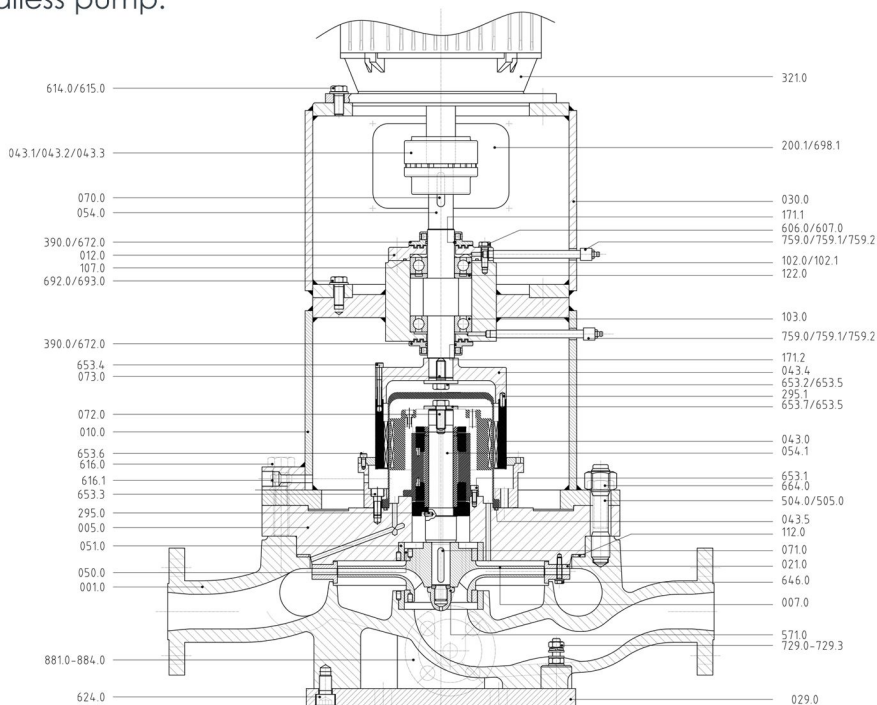


RODELTA[®]

ETL(M) ® - MAGDRIVE API 685 (OH5)API 610 - Vertical



- * The design of ETL(M) complies with the 12th edition of the American Petroleum Institute (API) standard 'Centrifugal Pumps For General Refinery Services', also known as API 610/ ISO13709.
- * HZC(M) the Magnetic Drive part are comprising permanent magnets. according API 685.
- * Sealless pump.



Rodelta has a range of pump solutions for cooling and rinsing the electrolyser, among other things. These pumps can be supplied in various materials. It is also possible to produce client-specific versions. For more information, please contact us via info@rodelta or via our website www.rodelta.com.

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