

Circular pump production with minimum impact on the environment

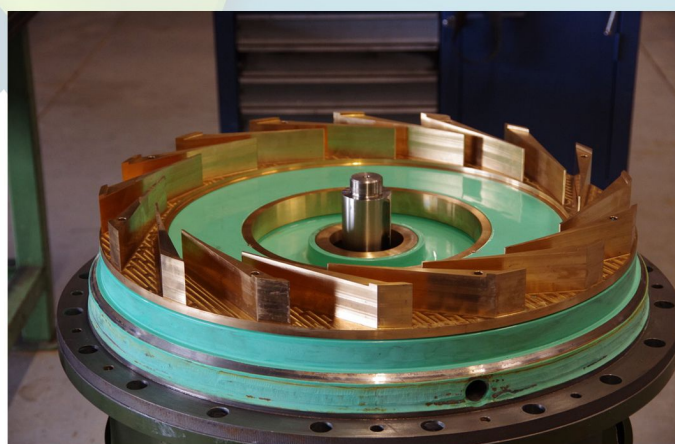
Co2

Customer explores sustainability opportunities and saves the environment

These days sustainability is gaining more and more ground regarding important evaluation factor for any investment. Although many people often do not comprehend the exact meaning of sustainability and also what type possibilities we have to be sustainable. Our attitude has been changed to replacing products "encouraged by our consumer society" in such a manner that we cannot imagine how we reused our products in the past. Refurbishment of products used to be standard practice. For instance our furniture passed from generation to generation. This was done to save cost, but could only be realized if quality of the product was the key design factor. During the following decades price decreased due to upcoming markets in the cost saving countries. Without realizing this led to a consumer market with less reuse of product and therefore less need of quality. With the knowledge we have today, we might took another path in the past. Good news that it is not too late. The knowledge and experience we have now will lead to better decisions for the near future. At Rodelta we had several reasons to keep quality as foundation for our pumps, hence the pumps we sold in the last decades are suitable for refurbishment. From this position we are happy to inform that one of the leading companies in the drinkingwater industry is using this advantage in the area of sustainable business operations.

At Rodelta a project executed to convert pumps that have served their purpose for 26 years. The pump is completely dismantled and the wear parts such as shaft sleeves and gland sleeves are replaced.

One might say that overhauling a pump is nothing new. Basically this is correct, however this is not just overhauling a pump. These pumps are being refurbished by replacing the hydraulic heart of the pump; the impeller/diffuser combination. The pump will be suitable for a new duty and will be located in a new pumping station. All engineering to make for this project is done entirely in-house by the Rodelta's hydraulic team, using design techniques developed over the years. Leading to improved performance further increasing the pump's overall efficiency.

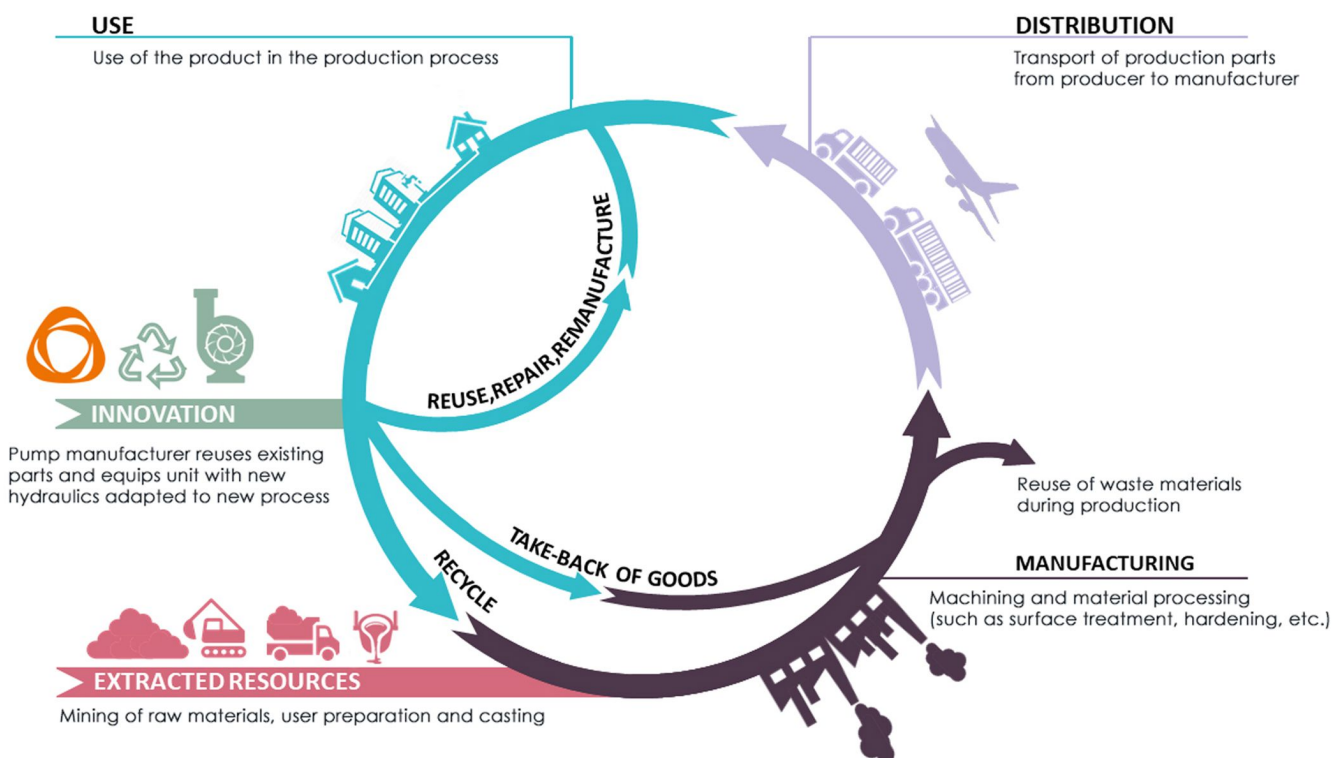


Recycled LS pump with parts that have been in operation for 26 years in a production environment



As a result, the pumps are ready for the next 26 years of operation, with minimum impact on the environment. Reason is that all casting parts are reused. This means that the mining of the raw materials and the production of the casting in the foundry does not have to take place. ■ Also the machining of these parts is no longer needed, ■ which will contribute to lower energy consumption. All processes with a large impact on CO2 footprint are no longer necessary. In addition, many of these processes take place in low-wage countries, where the transport of the parts is also a burden on the environment. ■

At Rodelta, we are pleased with this development. Not only us, but also our clients see that investing in quality and well thought-out products pays off. And now even contribute to cost savings and the path towards an ever-growing circular economy.



The above picture shows that a large part of the components of the circular pump do not run through the colour circle with ■ ■ ■ These processes actually emit significant amounts of CO2. The majority now follows the small circle ■ which results in a significant reduction of CO2.