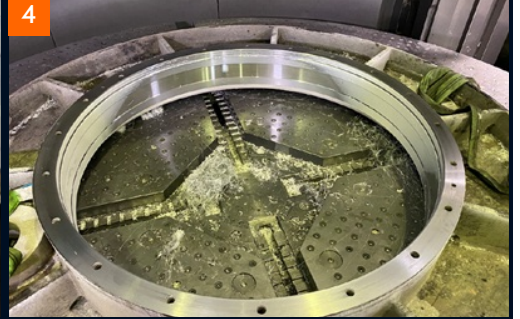
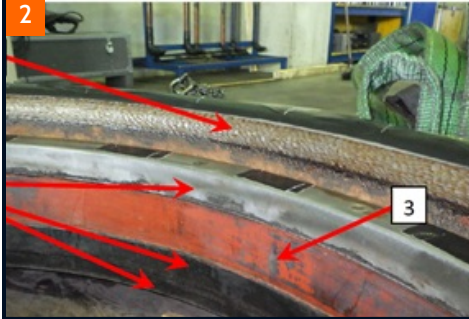


# BELZONA 1331 REBUILDS TURBINE COVER IN THE HYDRO POWER INDUSTRY

ID: 8543



## PROBLEM

The turbine cover became oval due to welding work on the outer circumference. The fits on the inside diameter also warped. Since these surfaces already had their finished diameter, they should be built up with Belzona and then machined to the finished size.

## APPLICATION SITUATION

An International Hydro Power client needed Belzona to rebuild an area of a turbine cover.

## APPLICATION METHOD

Blasted to 110 µm roughness according to Testex with blasting agent Sintox 0.2-1.4 and corundum F14 (mixed 2: 1) Cleaned and degreased surfaces Build up the surfaces with the first layer of Belzona 1331 - target layer thickness 1000 µm Build up the mating surfaces with a second layer of Belzona 1331 after approx. 3 hours - target layer thickness 1000 µm Build up the mating surfaces with a third layer of Belzona 1331 after approx. 3 hours - target layer thickness 1000 µm in accordance with Belzona System Leaflet VPF\_13

## BELZONA FACTS

The client had already used welding as a procedure which had failed and became oval on the outer circumference.

## INDUSTRY

Power

## LOCATION

Austria

## APPLICATION DATE

March 2021

## PRODUCTS

Belzona 1331

## SUBSTRATE

Steel

## PHOTOS

Image 1: Turbine Cover

Image 2: Identifying the issues 1: Worn ring (traces of erosion from the water) 2: Mating surfaces were coated in 3 layers 3: The undercut was coated in a single layer

Image 3: The lid after applying the first coat of Belzona 1331

Image 4: Completed application after being machined.

For more examples of Belzona Know-How in Action, please visit [khia.belzona.com](http://khia.belzona.com)

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[www.belzona.com](http://www.belzona.com)

