



Large amounts of water are moved within hydro-civil engineering. Its diverse facilities, such as lock- and flood gates, bascule bridges, all designed to last for decades, must therefore be adapted especially to the respective requirements. Consequently, innovative and resilient machine elements are required, as a failure would cause great damage.



DEVA is considered a pioneer for tailor-made, maintenance-free sliding bearings for the most difficult tribological tasks. In this broad field of application, hydro civil engineering has been the top priority for more than 50 years. DEVA high-performance materials have proven their reliability in more than 4,000 applications worldwide – for example in thrust bearings for lock gates, in sliding bearings for chains or roller guides, and in spherical bearings for hydraulic cylinders.

The quick and easy installation of bondura® bolts makes it easy to use. Whether installed in new devices or for maintenance and repair jobs – bondura® bolts increase the security of a bolt connection while at the same time preventing new wear and tear under the toughest conditions.

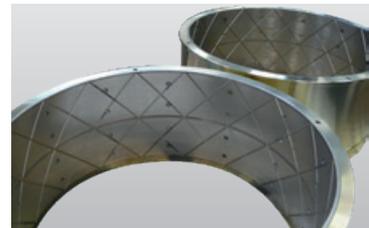
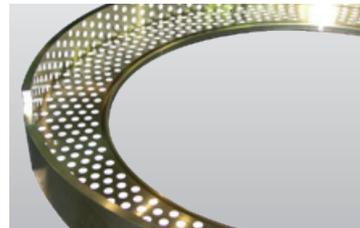
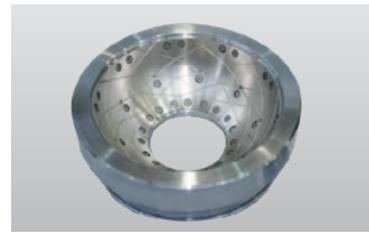
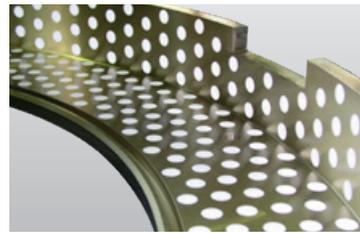


Dutec Kunststofftechnik provides custom-made parts made from high-end polymers such as PTFE, POM, PA6 or PE. Ultra-high molecular PE-1000 (UHMW) for instance is – due to its excellent properties in terms of shock load and abrasion resistance – often used in lock gates as bumper or sealing strip in lock gates.



## WORLD CLASS BEARING TECHNOLOGY

DEVA high-performance materials are convincing where other bearing types reach their limits: DEVA is the pioneer of tailor-made maintenance-free sliding bearing solutions for the most difficult tribological tasks. In 1936, DEVA developed the first material based on powder metallurgy with solid lubricants. Since then, DEVA bearings are proving their performance every day in many industrial applications. Whenever it counts: under water, at freezing temperatures or at extreme heat. DEVA is the first choice worldwide for maintenance-free, self-lubricating plain bearings that have to meet the highest requirements.



**bondura**<sup>®</sup>  
technology

## SUPERIOR CONNECTIONS FOR INCREASED CUSTOMER VALUE



The principle of the bondura<sup>®</sup> pivot pin technology is both brilliant and simple. The pin itself is tapered on both ends. In the standard configuration, a set of conical sleeves and corresponding end plates are mounted on each side. Tightened with a defined torque, clearance to the support is eliminated and the pin is safely secured with 360° contact surface. With bondura<sup>®</sup> pivot pin technology, possible ovality and inaccuracies caused by wear and tear gets compensated. Future wear is simply eliminated.



Präzision aus Kunststoff

## SERVICE PROVIDER IN PLASTIC MACHINING

As a specialist, dutec Kunststofftechnik machines a wide range of engineered polymers. Using “state-of-the-art” CNC-technology, precise turned and milled parts are manufactured according to individual customer drawings, from individual tailor-made parts to small series up to serial production.





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