



Dear customer,

Complex geometries, ultra-high vacuum compatible connections checked for leaks? Then REUTER TECHNOLOGIE is your partner of choice. Use the long-standing experience of our welding experts and certified employees for your sophisticated projects and UHV components.

Vacuum and ultra-high vacuum compatible components require extremely precise weldseams and firmly bonded joints with the lowest possible degree of distortion of the work piece. We offer joining technologies optimised to suit particular components and guarantee the tightness of the seams.

Laser welding – for complex geometries and minimal thermal distortion

HIGH PRECISION WELDSEAMS



Employing our material-friendly laser welding method we offer a joining technology that meets the highest standards with regard to vacuum components. Thanks to low heat influx the work pieces are not deformed during the welding process, leading to substantially improved quality. Moreover, joining is enabled in places hard to access and welding complex geometries is made easier. We realise all weldseam geometries such as butt joints, overlap seams and fillet welds. [More...](#)

In our work we do not only rely on our machinery but also on permanent training of our staff. In this manner we can guarantee a permanently high level of reproducible precision that can be applied to stainless steel, aluminium and copper.



REUTER TECHNOLOGIE: Your Contact for Sophisticated Welding.

SECURELY TIGHT



Cooling systems, accumulators, vacuum chambers... they all need to be tight in order to function properly. Whether prototype or serial production: REUTER TECHNOLOGIE gives you the guarantee that your component is tight and without leaks. For this we apply helium leak detection using integral and local vacuum methods.

Testing clean room compatible components for vacuum tightness is carried out in a clean room. Depending on the specification of the components a testing area under clean room conditions of ISO Class 7 is available.

Beside our high quality equipment, the qualification of our employees is of eminent importance to us. Every member of staff needs to provide proof of at least five years of experience in the field of tightness testing before being permitted to carry out tests at his own responsibility. [More...](#)

For your components to be securely tight, make use of our experience and our high-tech equipment.

TIG welding for UHV compatible joints

PRECISION TO THE SMALLEST DETAIL

Also in classical TIG welding, where high processing security and very good weldseam quality can be achieved, we have optimised our offerings for you. TIG welding is applied in situations entailing especially high standards regarding the quality and properties of the weldseam. [More...](#)



We can process sophisticated welding of vacuum and ultra-high vacuum components with high quality weldseams without grooves or start and end craters. As the demands to craftsmanship can be very high, only our specialised welding staff will carry out such tasks.

Our joining technology meets the highest precision standards. We are looking forward to your welding assignment!

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