

# Klinger Aerospace



“Aerospace demands the most innovative, technically advanced and highest quality products and we’re delighted to be a major supplier to the industry.”

Alan Bates, MD, Klinger UK

# Innovative Manufacturing Solutions



# Industry Expertise

By 2013, the global aerospace and defence market is forecast to have a value of \$910 billion.

As a leading supplier to some of the major players within the industry, Klinger UK has invested heavily in the skills, technology and research needed to make us a world leader in the field.

Klinger UK is a long standing manufacturer and approved supplier of sealing products to the civil aerospace, defence aerospace, marine and energy sectors, with clients including Rolls-Royce, Goodrich, GE Aviation and BAE Systems.

In order to successfully service these sectors, Klinger operates an Aerospace Series Quality Management System that is assessed by BSI to meet the requirements of BS EN 9100. In addition, Klinger is assessed and registered to ISO 9001 for the manufacture and supply of sealing and mechanical products to the oil & gas, chemical and petrochemical industry sectors, where our customer portfolio includes Shell, BP, Ineos and SABIC.



aerospace  
sector  
certification  
scheme

BS EN 9100:2003, ISO 9001:2008  
Certificate no: FM 10571

Klinger has supported the aerospace industry with state-of-the-art sealing materials and cutting technology since 1995.





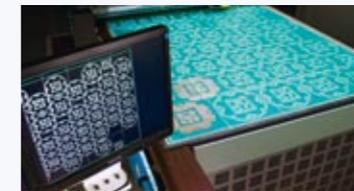
# Klinger Facilities

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**In addition to using advanced technology manufacturing equipment, our aerospace and defence team works in close liaison with our clients to ensure their supply requirements are met to the highest standards achievable.**

Our high precision Waterjet Profile Cutting Facility produces both non-metallic and metallic components. Software controlled Waterjet tilting jet technology allows the production of taper free components. The cutting kerf angle normally found with Waterjet profiling is moved completely into the scrap zone, producing 90 degree cut edges. Waterjet cutting does not produce heat affected zones or structural material changes in the cut edge and is distortion free.

Our Knife Cutting Facility features a robust CNC machine, utilising drag or oscillating knife cutting techniques combined with automatic hole punching, for high accuracy conversion of gaskets from sheet material. Flexible vacuum control and optical projection of cutting plans create the highest quality products.



**Images:**  
Klinger Waterjet and  
Knife Cutting machines

# Klinger Quality

As international market leaders our investment in precision metrology systems, operated by skilled engineers, has been vital in meeting the stringent quality specifications of the global aerospace industry.

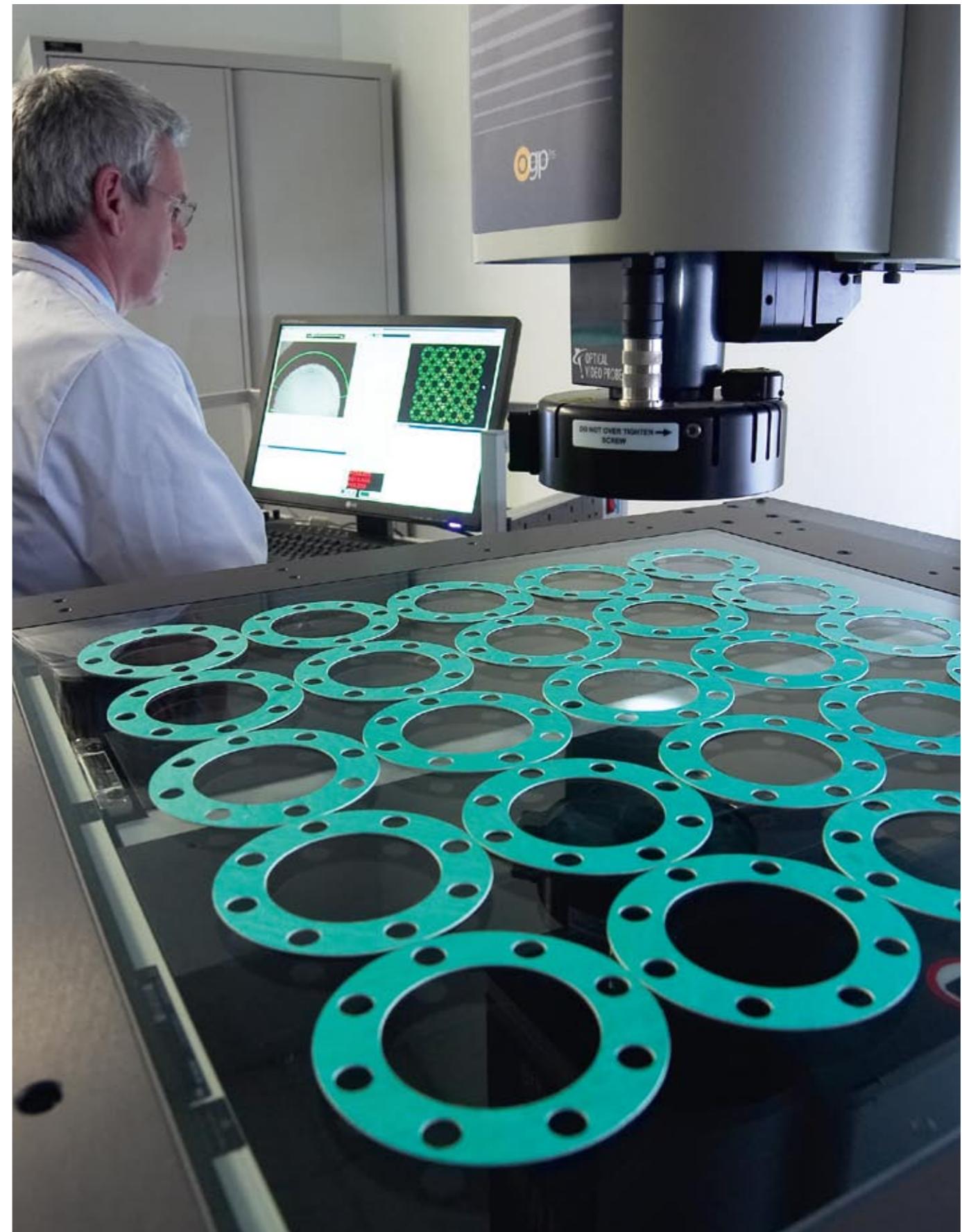
Our Optical Measuring Machine is a non-contact measuring device utilising video camera technology. Non-contact measuring methods provide control of measure points and avoid the distortion of surfaces caused by contact, retaining integrity and eliminating subjectivity. Klinger utilises the equipment to provide First Article product information that is used to perfect the production process.

Through in-built software technology, we are able to produce accurate results by programming measurement routines to shapes, or by comparison to computer aided drawing of true geometries.

Using statistical process control programs and report generation software, Klinger can manage, analyse and report inspection data from the Optical Measuring facility. First Article report generation is performed automatically from the collated data.



Images:  
Klinger precision cutting  
and dimensional control



# Klinger Worldwide

The Klinger Group is one of the world's leading developers, manufacturers and distributors of quality sealing products.

Founded in 1886, the company has pioneered gasket technology and now supplies over two thousand customers across 40 countries.

In addition to the aerospace and defence industry, we serve some of the foremost international companies in oil and gas production, power generation, food and pharmaceutical manufacturing.



Reliability, integrity  
and innovation – the  
values underpinning  
the Klinger Group.

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**Find out more**

For more information on our  
range of products and services  
please visit [www.klingeruk.co.uk](http://www.klingeruk.co.uk)

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