

## Webinar on sealing powertrain flanges

Henkel is holding a webinar on February 26 at 10:00 CET on how to seal powertrain flanges under the harshest conditions using liquid sealants from its Loctite brand for this challenging task.

Georg Schubert and Erwin Rauh will present an overview of the latest sealing product innovations, such as Henkel's polyacrylate range, which is highly resistant to aggressive transmission oils and gear lubes.

Additionally, the presentation will give design specifications for liquid sealants. To ensure the zero leak requirements are met, it is essential that the joints are designed in accordance with gasket-specific guidelines.

To register for the webinar, use the link below.

[www.henkel-adhesive.com/gasketing-webinar](http://www.henkel-adhesive.com/gasketing-webinar)



## New website launched by TR Fastenings

TR Fastenings says its new website has been designed to be the ultimate resource for engineers, designers and buyers, with improved navigation and functionality throughout.

With an annual output of over 50 billion components, TR supplies to a wide range of industries, from automotive, electronics, telecoms and domestic appliances to marine, audio, petrochemical and general industrial. The new website features an online catalogue of over 40,000 products for use in all sectors, from TR's own branded range of fasteners including Hank self-clinch fasteners and rivet bushes, self-locking nuts, inserts and screws for plastic, blind rivets and rivet nuts, plastic fasteners and cable management products to screws, nuts, washers and specially made parts.

Combining a new modern design with a powerful search tool it has never been easier to find the product required. Users can simply search for the product or product range required using any number of search terms and choose from a range of items available and related technical information.

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

# Extrusions aid historic WWII bomber project

The reconstruction of a Short Stirling Bomber aircraft used in World War 2 has been aided by a vital extrusion supplied by Sapa Profiles, helping to construct a forward fuselage section which incorporates the main crew stations in the plane

The extrusion supplied by Sapa, located at the bottom of the fuselage bomb bay, attaches to the bottom of the frame and is where the outer bomb doors are attached. The extrusion is an integral part of the bomb bay structure and acts as the main keel of the fuselage.

The project was launched in 1995 under the chairmanship of a former XV squadron navigator. The Stirling Project team is a group of volunteers, dependent on donations, aiming to construct a scale replica of the original front fuselage while also preserving rare drawings and aircraft components.

The Short Stirling Bomber was the first operational four-engine bomber to be used by The Royal Air Force. The aircraft was mothballed in 1946 due to design-limitations. Out of the 2,383 constructed, there are no surviving examples.

Sapa sales director Steve Nash comments "Although there is no volume associated with this project, I feel it is Sapa's



social responsibility to contribute to such projects, to recognise both the invaluable service, and in many cases, the lives given by the pilots and crews during World War Two."

Richard Doel of The Stirling Project comments "We were extremely pleased with the support offered by Sapa Profiles UK. Following invaluable expertise during the design stage, Sapa supplied the extrusion for the outer bomb bay keel structure, without which we could not proceed to the build stage."

[www.sapaprofiles.com/uk](http://www.sapaprofiles.com/uk)

# Motors drive safe 'jackup' operations in the North Sea

Reliability is key to ensuring the success of 'jackup' operations in the oil & gas industry. With this in mind, leading provider of offshore drilling units Paragon Offshore turned to WEG to replace the electric motors driving its B391 jackup rig in the North Sea. WEG supplied Paragon with 58 highly reliable and energy efficient W22 motors to ensure a smooth and safe jackup process even in aggressive marine environments.

A jackup rig is a type of self-elevating mobile platform consisting of a number of movable legs, which are designed to raise the hull over the surface of the sea. A buoyant hull transports the rig and all attached machinery to a desired location, where the legs are lowered and anchored to the sea bed and the hull is raised to the required elevation above the sea surface. Putting a jackup rig into place is an extremely

delicate operation and even minor jacking-system failures can lead to structural collapse. Thus, it is vital to ensure that the motors responsible for driving the rig's legs are highly reliable and able to withstand significant loads without any variations in current. This challenge adds to the aggressive environmental conditions in which jackup oil rigs like Paragon's B391 operate. With the most easily accessed oil fields becoming exhausted, offshore operators are now moving towards new fields – often in deeper waters and under higher temperatures and pressures – where essential equipment such as electric motors are put to the test.

In addition, with oil prices down to a minimum there is a need for offshore companies to operate as efficiently as possible and keep running costs down. So, it comes as no surprise that companies like Paragon are looking at replacing older equipment with sturdier, more energy efficient, reliable and durable equipment, which can ensure a long service life even in the most aggressive environmental conditions.

Yet, to bring costly downtimes to a minimum, ensuring quick replacement operations is also top of the agenda. With this in mind, when it came to replacing the motors driving the three 110 metre long jackup legs of its B391 rig – which is designed to reach drilling depths of 20,000 feet (6,000 metres) – Paragon decided to partner with WEG. Thanks to WEG's support, Paragon Offshore has now successfully placed the B391 rig in the North Sea off the Humberside's coast

[www.weg.net/uk](http://www.weg.net/uk)

