

## BCT® TECHNOLOGY FROM BBA, PRODUCTS PROVIDED BY EFC INTERNATIONAL

### An Attachment Solution for Carbon Fiber Panels

Rivet-nuts manufactured by BBA with BCT® (*Bulge Control Technology*) are NOT standard rivet-nuts. This product is THE fastening solution for carbon fiber, fiberglass or ceramic sheet materials.



#### FEATURES & BENEFITS OF BCT

- ▶ Engineered design to prevent cracking or delamination of the carbon fiber panel
- ▶ Ultra-High Strength
- ▶ Precisely engineered and controlled collapse length and resulting compression load
- ▶ Large footprint for controlled load distribution



The unique design enables an engineered yield point on the body of the rivet-nut ensuring the bulge formation always begins beyond the panel and is drawn back onto the panel. Compression is achieved without radial expansion and thus eliminates stressing the edge of the hole. This ensures no force is applied to the side of the hole in the panel material, thereby preventing stress/cracks. BCT rivet nuts can be placed near to the edge of the panel without fear of inducing a crack in the panel.

The installation process of BCT rivet nuts can be fully process-monitored and controlled. Every installation produces a digital certificate that demonstrates the process achieved pre-determined force and stroke parameters. This ensures that the rivet nuts are installed correctly to achieve maximum performance and ensures the installation process can not apply excessive forces onto the joint, risking damage to the material. The tools are driven by electric motors and are therefore highly repeatable and are not subject to variations in air pressure and oil levels as that of traditional hydraulic / pneumatic tool systems.

BCT can be installed into areas that offer limited rear side clearance. For example, a M6 rivet nut needs only 8mm of rear side clearance prior to installation and only 5mm after installation. This is **perfect for use in thinner version of sandwich (composite) materials**, avoiding the need for a through hole. The bulge of the BCT product is strong enough to form by pushing away any material in the sandwich material.



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