

Zygology

BCT Product

Information Sheet

FASTENING & ASSEMBLY SOLUTIONS

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Bulge Control Technology, (BCT) is a new and unique design of rivet nut that is changing the face of the fastening industry. Rivet nuts are by no means a new concept but BCT's patented design removes the limitations that prevent standard rivet nuts from being used in a variety of common application settings.

BCT is a completely new development in rivet nut design and production. By introducing a predetermined collapse point a number of performance enhancements are made possible. These include:

Multi-grip capability. For example:

M5 from 0.5 - 5.0 M8 from 1.0 - 8.0
M6 from 0.5 - 6.0 M10 from 1.2 - 10.0
M12 from 1.2 - 12.0

All as standard. Other extended grips are available to special order

BCT rivet nuts provide exceptional thread strength, easily meeting the specified torque loads for both grade 10.9 and 12.9 bolts and therefore offering a viable alternative to other fastening methods such as weld nuts.

This added strength also means that where blind access is restricted, a shorter bodied BCT can be installed which still achieves grade 8.8 to 10.9 thread strength.

BCT technology ensures the bulb forms behind the sheet no matter how thick or what it is made of, it is possible to sandwich dissimilar materials together

Materials which are normally totally unsuited for use with rivet nuts are easily accommodated. This means that for the first time it is possible to easily put a strong metal thread into materials such as glass fibre, all plastics, carbon composites, honeycomb materials, wood and wood based composites such as MDF

BCT can work in applications which are impossible for normal rivet nuts to cope with. Bridging air gaps for example as in tubes and box sections, or other difficult assemblies are easily possible with BCT

A feature of BCT is that it actually clamps the joint between the head and it's oversized rear sheet bulb. This not only pulls the joint together but also supports the application sheet material and therefore reduces the potential of sheet failure i.e. the rivet nut pulling through the material it is set into, a common failure mode when using standard rivet nuts in thin sheet material.

