



Product Guide

The Clarendon product portfolio has been selected from a wide range of both Aerospace and Commercial products from some of the worlds leading manufacturers. The products listed are of the highest quality and are used in a wide range of demanding environments including Aerospace, Military and Marine, Industrial and Motorsport markets. Having been established for more than 23 years Clarendon has been a market leader in both service and quality offering unrivalled product solutions ensuring that the customer is firmly at the forefront of our focus.



Aerospace Bolts

We hold an extensive range of Aerospace bolts and screws in stock, our inventory includes American and European standards such as NAS, AS, MS, AN and metric LN and EN specifications. A wide range of lengths, diameters and specials are available including drilled fasteners, skin fasteners for airframe and motorsport applications as well as engine bolts made in many exotic alloys including high strength steel, Inconel, A286 and titanium.



Aerospace Nuts

As well as being official distributors for Alcoa "Kaynar/Simmonds", our stock profile also covers other leading manufacturers such as –

- Republic
- Paolo Astori
- Bristol Industries

All of these nuts are precision formed in both wrenchable and Anchornut format and offer tremendous versatility for design and functional requirements. Wrenching styles include hexagon and double hexagon. Hexagon nuts, also referred to as 6-point nuts, are available up to 160 KSI. Double hexagons, also known as 12-point, are available for 125 - 300 KSI applications in a variety of steels and plating.



Aerospace Rivets

A range of different head styles are available in steel and aluminium, manufactured under the approvals of ISO 9001:2000, CAA, BAE Systems, GKN Westland, Hawker-Raytheon Corporate Jets, Aero structures, Hamble and Britten Norman.



Structural Panel Fasteners

Live lock provide high-strength, quick operation and exceptionally high cycle life for use on high performance aircraft and motorsport as well as on electronic and avionic applications.

Key features –

- Low prevailing installation and removal torque required yet provides high anti vibration resistance
- Receptacles offer radial float: most versions can be replaced without removing rivets
- Positive stud nut retention
- Stud nut hold out feature available
- Locking element is totally encapsulated
- Total CRES (corrosion resistant) configurations available
- Nominal thread sizes range .1120-40 through .2500-28
- Metric alternatives available



1/4 Turn Fasteners

A wide range of quick-operating, high-performance turn fasteners in various lengths and head configurations are available for a number of applications. The labour saving range that is offered helps in reducing installation costs when tight assembly deadlines need to be met.

Key features –

- Max tensile strength 1330 N
- Small-size fastener for high tensile load
- Wide range of conventional stud assembly and receptacle designs



Keenserts

The Keenserts solid, one-piece design provides permanent threads in virtually any parent material with high resistance to torque-out and pull-out. For installation the Keensert fastener is threaded into a tapped hole, then the Kees are driven down into the external thread locking the insert or stud into place.

Normally these parts are used as permanent fixtures however should the need arise for them to be removed or replaced, then this is possible, even in the same hole.

Keensert Inserts & Studs are manufactured to the following Military and Aerospace (NAS) Specification numbers: MS51830, MS51831, MS51832, MS51833, MS51834, NAS1394, NAS1395 and are available in both metric and imperial thread sizes to suit a number of different applications.

- Easy install, high strength and high life cycle
- Significantly increases torque down and load capacity in weaker materials
- No special taps required
- No tangs to break off and remove



Adel Wiggins Hose Clamps

The Wiggins clamp has been developed to meet the exact specifications of the Aerospace Industry. Wiggins clamps combine lightness with strength, the qualities associated with alloys. Wiggins eliminates the necessity of heavy, untidy hoses and hose clips, which

in turn saves assembly time. The range has numerous diverse applications in Race, Rally, Military Vehicles, Aerospace, Marine and Industrial markets, bringing benefits of time savings, lightness, strength and flexibility.



Cables Ties

Bringing you the TY-RAP™ and working alongside Thomas & Betts as a valued supplier partner has complemented the current product portfolio well by providing both Aerospace and Motorsport markets the ideal source for your cable management requirements. The

single most distinguishing feature is the stainless steel locking barb which is firmly anchored inside the tie head. Other products that are also in the Thomas & Betts range are cable mounts, adhesive backed mounts, P clamps and a selection of both high temperature Tefzel™ and stainless steel products that can operate in temperatures from -85°C to 542°C.



O-Rings

An extensive range of O-rings held in stock of commercial and Aerospace Grades of material. All sizes of BS 1806 imperial and BS 4518 metric as well as French and German standards are available from stock. All grades of material in Nitrile, Fluorocarbon (Viton®), Silicone, EPDM plus many specials of shore hardness.



Commercial Bolts – Unbrako®

Higher pressure and stresses in today's machines and equipment demands stronger, more reliable joints and fasteners to hold them together. We offer the highest quality commercial bolts available and are an official distributor for Unbrako®

Socket screws. As well as the preferred choice of Unbrako® our stock includes other non-standard sizes manufactured and tested to the highest quality levels, ensuring safer and superior fatigue strength that meets the most challenging commercial fastener demands.



Bonded Seals

The Bonded Seal was originally developed to replace copper and steel type washers to prevent any type of leakages

in high pressure environments. Available in a wide range of Rubbers including Viton and Nitrile as well as having the option of a number of different metal outer rings including –

- High strength steel
- Aluminium
- Stainless steel

Used in both commercial and Aerospace environments, our association with some of the worlds leading manufacturers brings you the perfect solution for all of your sealing requirements.



Wire Threaded Inserts

Wire threaded inserts are precision formed screw thread coils of predominately stainless steel wire having a diamond shaped cross section. When they are installed into pre-tapped holes, they provide permanent conventional 60° internal screw threads that accommodate any standard bolt or

screw. All sizes are available in metric and imperial as well as in various exotic materials, including Stainless Steel, Inconel, Nimonic and Titanium. All related tooling such as STI Taps, hand and power installation tools, gages and tang break-off tools are also available. Typical applications would include: Automotive, Communication, Aerospace, and the Defence industries.

Stockists for the following manufacturers –

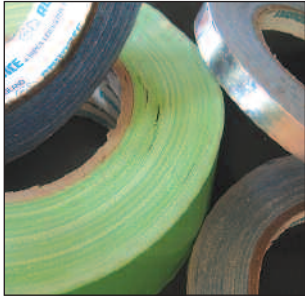
- Helicoil
- Armacoil
- Alcoa (Recoil)



Circlips

Distributors for both major manufacturers of Circlips –

- Cirteq
- Rotorclip



Tapes

Clarendon also offer a number of high performance tapes as part of our standard stock range including –

- 3M Helicopter Tape
- Tessa Race Tape
- Advance Cloth Tape
- Sheldahl Gold Tape

Customised Kitting

One of Clarendon's key strategic strengths is our bespoke kitting service. This service offers customers the ability to –

- Save time and money
- Control inventory to a minimum
- Supplier adopts responsibility to manage supply efficiently
- Streamlining of the manufacturing which ultimately maximises organisational efficiency

Some of the more common environments you would find the need for bespoke kitting would be –

- Engine assembly and rebuild
- Gearbox and transmission assembly and rebuild
- Car and Chassis assembly
- Aerospace Overhaul



Customer Services

Clarendon holds ISO9001:2000 and AS9120:2005 accreditation and maintains supplier approval for many of the world's leading manufacturers. Our main focus is driven by meeting the individual requirements of the customer with a dedicated sales force both internally and externally. An efficient, rapid response for enquiries and quotations is backed up by next day delivery from our extensive stock holding of over 5000 lines.

Key Supplier Partners

Alcoa	Trellebourg (Dowty)	Thomas & Betts
Unbrako	3M	Rotorclip
Cirteq	Adel Wiggins	Spirolox
Smalley	Southco	Sheldahl



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Suppliers of high performance electrical harness components including:

- Wire & Cable
- Heatshrink Tubing
- Moulded Parts
- Switches & Connectors

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INVESTOR IN PEOPLE