

KwikboltTM

The Single Sided Temporary Fastener



 **MADE IN
BRITAIN**



world class aerospace fasteners

KwikboltTM

The Single Sided Temporary Fastener

OVERVIEW

Kwikbolt is a revolutionary new single sided slave fastener (SSSF) that are used blind, designed and manufactured for the tight tolerance and high performance requirements within the aerospace and defence industry. Originally designed for Europe's largest aerospace company, Kwikbolt's aerospace fasteners product range has been developed to provide a complete single-sided temporary fastener solution for use in multiple industries. Using modern technology and materials from our international patented designs, Kwikbolt delivers a temporary fastener range available on a global scale.

We are at the cutting edge of fastener technology; our blind bolt fasteners allow customers to benefit from temporary fasteners that are reusable. Our high performance product range reduces labour activity and improves the quality of the assembly processes while providing doweling and clamping from a single side.



speed



performance



strength

PRODUCTS

Standard Range

Our off-the-shelf, standard product range provides single-sided temporary fastener solutions from 3.96mm (5/32 inch) to 25.4mm (1" inch) via lengths of 3.175mm (1/8 inch) to 152.4mm (6 inch). All of our products are available in both fully-flush (countersunk) and protruding head and can be ordered direct from us or via our distribution network. All of our products provide doweling and clamping to ensure correct placement and maximum hold.

Hurricane | Kwikbolt

Our Hurricane design is focused on high load, larger hole size applications and uses an expanding petal design to enlarge on the blind size of a structure and pull back on itself to provide clamping. As the petal moves through a ground cylinder, our Hurricane Kwikbolt keeps holes true and provides a high clamp and shear performance.

| Part Code | Head Types | Hole Diameter inch | Hole Diameter mm | Min Grip mm | Max Grip mm | Clamping Force N (lbf) | No of Cycles |
|--|--------------|--------------------|------------------|-------------|-------------|-------------------------------|--------------|
| Hurricane Kwikbolt | | | | | | | |
| 1032-DXH2 | FP - SP - SF | 5/16 | 7.94 | 1 | 150 | 2000 (450) | 500 |
| 1232-DXH2 | FP - SP - SF | 3/8 | 9.53 | 1 | 150 | 3000 (675) | 500 |
| 1432-DXH2 | FP - SP - SF | 7/16 | 11.1 | 1 | 150 | 4000 (900) | 500 |
| 1632-DXH2 | FP - SP - SF | 1/2 | 12.7 | 1 | 150 | 5000 (1125) | 500 |
| 2032-DXH2 | FP - SP - SF | 5/8 | 15.9 | 1 | 150 | 7000 (1600) | 500 |
| 2432-DXH2 | FP - SP - SF | 3/4 | 19.05 | 1 | 150 | 9000 (2025) | 500 |
| 3232-DXH2 | FP - SP - SF | 1 | 25.4 | 1 | 150 | 12000 (2700) | 500 |
| Head Types FP = Flat Protruding SP = Countersunk Protruding SF Countersunk = Flush | | | | | | Grip Length Increments 10mm | |

Lightning | Kwikbolt

Our Lightning design is focused on high load, smaller hole size applications and uses an expanding leg design to enlarge on the blind size of a structure and pull back over the main body to provide clamping. As the legs move over a ground cylinder, our Lightning Kwikbolt keeps holes true and provides a high clamp and sheer performance.



| Part Code | Head Types | Hole Diameter inch | Hole Diameter mm | Min Grip mm | Max Grip mm | Clamping Force N (lbf) | No of Cycles |
|---|--------------|-----------------------|---------------------|-------------------|-------------------|---------------------------|-----------------|
| Lightning Kwikbolt | | | | | | | |
| 0532-DXL4 | FP - SP - SF | 5/32 | 3.96 | 1 | 150 | 1112 (250) | 500 |
| 0632-DXL4 | FP - SP - SF | 3/16 | 4.76 | 1 | 150 | 1334 (300) | 500 |
| 0832-DXL4 | FP - SP - SF | 1/4 | 6.35 | 1 | 150 | 1334 (300) | 500 |
| 1032-DXL4 | FP - SP - SF | 5/16 | 7.94 | 1 | 150 | 1779 (400) | 500 |
| 1232-DXL4 | FP - SP - SF | 3/8 | 9.53 | 1 | 150 | 1779 (400) | 500 |
| Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush Grip Length Increments 15mm | | | | | | | |



speed



performance



strength



Storm | Kwikbolt

Our Storm design is focused on wet applications that require high load, smaller hole size applications and uses a clean and clamp process via an expanding leg design to enlarge on the blind size of a structure and pull back over the main body to provide clamping. As the legs move over a ground cylinder, our Storm Kwikbolt keeps holes true, clean and provides a high clamp and shear performance.

| Part Code | Head Types | Hole Diameter inch | Hole Diameter mm | Min Grip mm | Max Grip mm | Clamping Force N (lbf) | No of Cycles |
|--|--------------|-----------------------|---------------------|-------------------|-------------------|-------------------------------|-----------------|
| Storm Kwikbolt | | | | | | | |
| 0532-DXS1 | FP - SP - SF | 5/32 | 3.96 | 1 | 150 | 1112 (250) | 500 |
| 0632-DXS1 | FP - SP - SF | 3/16 | 4.76 | 1 | 150 | 1334 (300) | 500 |
| 0832-DXS1 | FP - SP - SF | 1/4 | 6.35 | 1 | 150 | 1334 (300) | 500 |
| 1032-DXS1 | FP - SP - SF | 5/16 | 7.94 | 1 | 150 | 1779 (400) | 500 |
| 1232-DXS1 | FP - SP - SF | 3/8 | 9.53 | 1 | 150 | 1779 (400) | 500 |
| Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush | | | | | | Grip Length Increments 15mm | |

Thunder | Kwikbolt

Our Thunder design is focused on applications that require small blind side clearance and delivers high load, larger hole size applications and uses a driven bar design to engage clamping and drive the legs into the head and pull back on itself to provide clamping. As the bar moves through a ground collet, our Thunder Kwikbolt keeps holes true and provides a high clamp and sheer performance.

| Part Code | Head Types | Hole Diameter inch | Hole Diameter mm | Min Grip mm | Max Grip mm | Clamping Force N (lbf) | No of Cycles |
|---|------------|--------------------|------------------|-------------|-------------|------------------------|--------------|
| Thunder Kwikbolt | | | | | | | |
| 0532-DXT1 | FP - SP | 5/32 | 3.96 | 1 | 150 | 3250 (730) | 500 |
| 0632-DXT1 | FP - SP | 3/16 | 4.76 | 1 | 150 | 4250 (955) | 500 |
| 0832-DXT1 | FP - SP | 1/4 | 6.35 | 1 | 150 | 5250 (1180) | 500 |
| 1032-DXT1 | FP - SP | 5/16 | 7.94 | 1 | 150 | 6250 (1400) | 500 |
| 1232-DXT1 | FP - SP | 3/8 | 9.53 | 1 | 150 | 7250 (1630) | 500 |
| Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush Grip Length Increments 10 - 200mm | | | | | | | |



speed



performance



strength

Bespoke | Kwikbolt

We also provide a bespoke temporary blind fastener service to businesses with more specific requirements. We will design, manufacture, test and supply bespoke products, which undergo a stringent trial and evaluation process to ensure that the design meets all of our customers' business challenges with the minimum number of versions. Once approved, this bespoke product is produced in volume to provide the build line with our fastener technology solution.

Our bespoke service can be requested via email and one of our engineers will contact you to discuss your requirements and start the process.

The type of information we need is:

- Diameter of holes
- Holes tolerance
- Lengths of doweling required (min / max)
- Grip ranges (min / max)
- Clamp load requirements
- Head configuration
- Materials being clamped / dowelled
- Estimated quantities needed
- Estimated delivery date

Your new design will then be with you in 4 weeks for an engineering review.





QUALITY

Kwikbolt products meet a wide range of both international and aerospace-specific quality standards. Due to the high level of cycle use (up to 500 times), our products are manufactured to meet these duration requirements as well as the high load, high shear and clamping force. Every Kwikbolt fastener is tested before the product is shipped from our facilities in the UK. This includes mechanical and performance testing as well as a retained sample from each manufacturing batch.

Kwikbolt design and manufacture within an ISO9001:2015 and an EN BS9100 environment. This framework ensures that we deliver high-performance products that can be used immediately, on time.



ACCESSORIES

At Kwikbolt we provide a complete fastening solution to customers and thus we have a full range of accessories to support the installation and removal of all of our fasteners. Each piece of equipment has been designed and modified to ensure the optimum performance of our Kwikbolts and to provide the quickest installation, removal and maintenance.

Installation / Removal Tools

Our nut runners are set with the torque requirements for the correct installation and removal of your Kwikbolts, along with the interface for the head configuration and driver type.



Tooling Interface

To ensure that each nut runner integrates correctly with all of the Kwikbolt sizes, we have created a range of interfaces.



Kwikbolt Trolley

The easiest way to store Kwikbolts and all the accessories is in a Kwikbolt trolley. We provide them in 1, 2 or 3 layer combinations depending on the amount of equipment and application.



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For more information, to arrange a visit or request a quote, please contact the team.

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