

Kwikbolt™

The Single Sided Temporary Fastener



 **MADE IN
BRITAIN**



world class aerospace fasteners



The Single Sided Temporary Fastener

OVERVIEW

Kwikbolt is a revolutionary new single sided fastener (SSF) 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

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Part Code	A nominal mm (inch)	n
1032-H2	7.94 (0.313)	
1232-H2	9.53 (0.375)	
1432-H2	11.15 (0.438)	
1632-H2	12.70 (0.500)	
1832-H2	14.24 (0.563)	
2032-H2	15.90 (0.625)	
2432-H2	19.05 (0.750)	

Standard

Our original solution is a 1/2 inch thread (countersink) distributed correctly.

Kwik-Bolt

Our H-100 is an expensive itself to Kwik-Bolt.

Kwikbolt | Hurricane

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	A nominal mm (inch)	B mm (inch)	C mm (inch)	D1 min mm (inch)	Grip Range mm (inch) in 10mm (0.393) steps	Clamping Force Range N (lbf)	No of Cycles
Hurricane I Kwikbolt							
1032-H2	7.94 (0.313)	Varies depending on grip range requested by customer	15.00 (0.590) to 19.00 (0.748)	15.00 (0.590)	1mm (0.039) to 150mm (5.905)	2,000 (450) - 4,000 (900)	500
1232-H2	9.53 (0.375)			19.00 (0.748)	1mm (0.039) to 150mm (5.905)	3,000 (675) - 6,000 (1,350)	500
1432-H2	11.15 (0.438)			22.00 (0.866)	1mm (0.039) to 150mm (5.905)	4,000 (900) - 8,000 (1,800)	500
1632-H2	12.70 (0.500)			24.00 (0.945)	1mm (0.039) to 150mm (5.905)	5,000 (1,125) - 10,000 (2,250)	500
1832-H2	14.24 (0.563)			27.00 (1.063)	1mm (0.039) to 150mm (5.905)	5,000 (1,125) - 10,000 (2,250)	500
2032-H2	15.90 (0.625)			30.00 (1.181)	1mm (0.039) to 150mm (5.905)	7,000 (1,600) - 14,000 (3,200)	500
2432-H2	19.05 (0.750)			38.00 (1.496)	1mm (0.039) to 150mm (5.905)	9,000 (2,025) - 18,000 (4,050)	500
3232-H2	25.40 (1.000)			48.00 (1.889)	1mm (0.039) to 150mm (5.905)	12,000 (2,700) - 24,000 (5,400)	500
Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush					Grip Length Increments 10mm		

A close-up photograph of two silver-colored metal pens or pencils standing vertically. The pen on the left is slightly taller and has a small, dark, rectangular mark or scratch near its base. The pen on the right is shorter and has a small, dark, rectangular mark or scratch near its base. Both pens have a textured, ribbed section near the base. The background is a soft, out-of-focus light yellow and white.



speed



performance



strength

Part Code	A nominal mm (inch)	B mm (inch)	C mm (inch)	D1 min mm (inch)	Grip Range - L4 mm (inch) in 15mm (0.590) steps Grip Range - L6 mm (inch) in 6mm (0.236) steps	Clamping Force Range - L4 N (lbf)	Clamping Force Range - L6 N (lbf)	No of Cycles
Lightning Long - L4 and Short - L6 Kwikbolt								
0532-L4/L6	3.96 (0.156)	Varies depending on grip range requested by customer	3.50 (0.137) to 4.50 (0.177)	7.00 (0.275)	1mm (0.039) to 150mm (5.905)	890 (200) - 1,780 (400)	890 (200) - 2,669 (600)	500
0632-L4/L6	4.76 (0.188)			9.00 (0.354)	1mm (0.039) to 150mm (5.905)	1,112 (250) - 2,224 (500)	1,112 (250) - 3,336 (750)	500
0832-L4/L6	6.35 (0.250)			12.00 (0.472)	1mm (0.039) to 150mm (5.905)	1,334 (300) - 2,669 (600)	1,334 (300) - 4,000 (900)	500
1032-L4/L6	7.94 (0.313)			15.00 (0.590)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	1,779 (400) - 5,338 (1,200)	500
1232-L4/L6	9.53 (0.375)			19.00 (0.748)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	1,779 (400) - 5,338 (1,200)	500
1432-L4/L6	11.15 (0.438)			22.00 (0.866)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	1,779 (400) - 5,338 (1,200)	500
1632-L4/L6	12.70 (0.500)			24.00 (0.945)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	1,779 (400) - 5,338 (1,200)	500
1832-L4/L6	14.24 (0.563)			27.00 (1.063)	1mm (0.039) to 150mm (5.905)	2,224 (500) - 4,448 (1,000)	2,224 (500) - 6,672 (1,500)	500
2032-L4/L6	15.90 (0.625)			30.00 (1.181)	1mm (0.039) to 150mm (5.905)	2,224 (500) - 4,448 (1,000)	2,224 (500) - 6,672 (1,500)	500
2432-L4/L6	19.05 (0.750)			38.00 (1.496)	1mm (0.039) to 150mm (5.905)	2,669 (600) - 5,338 (1,200)	2,669 (600) - 8,000 (1,800)	500
3232-L4/L6	25.40 (1.000)	48.00 (1.889)	1mm (0.039) to 150mm (5.905)	2,669 (600) - 5,338 (1,200)	2,669 (600) - 8,000 (1,800)	500		
Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush						Grip Length Increments Long 15mm	Short 6mm	

Part Code
0532-S1
0632-S1
0832-S1
1032-S1
1232-S1



speed



performance



strength

Part Code	A nominal mm (inch)	B mm (inch)	C mm (inch)	D1 min mm (inch)	Grip Range mm (inch) in 15mm (0.590) steps	Clamping Force Range N (lbf)	No of Cycles
Storm Kwikbolt							
0532-S1	3.96 (0.156)	Varies depending on grip range requested by customer	3.50 (0.137) to 4.50 (0.177)	7.00 (0.275)	1mm (0.039) to 150mm (5.905)	890 (200) - 1,780 (400)	500
0632-S1	4.76 (0.188)			9.00 (0.354)	1mm (0.039) to 150mm (5.905)	1,112 (250) - 2,224 (500)	500
0832-S1	6.35 (0.250)			12.00 (0.472)	1mm (0.039) to 150mm (5.905)	1,334 (300) - 2,669 (600)	500
1032-S1	7.94 (0.313)			15.00 (0.590)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	500
1232-S1	9.53 (0.375)			19.00 (0.748)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	500
1432-S1	11.15 (0.438)			22.00 (0.866)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	500
1632-S1	12.70 (0.500)			24.00 (0.945)	1mm (0.039) to 150mm (5.905)	1,779 (400) - 3,558 (800)	500
1832-S1	14.24 (0.563)			27.00 (1.063)	1mm (0.039) to 150mm (5.905)	2,224 (500) - 4,448 (1,000)	500
2032-S1	15.90 (0.625)			30.00 (1.181)	1mm (0.039) to 150mm (5.905)	2,224 (500) - 4,448 (1,000)	500
2432-S1	19.05 (0.750)			38.00 (1.496)	1mm (0.039) to 150mm (5.905)	2,669 (600) - 5,338 (1,200)	500
3232-S1	25.40 (1.000)	48.00 (1.889)	1mm (0.039) to 150mm (5.905)	2,669 (600) - 5,338 (1,200)	500		
Head Types FP = Flat Protruding SP = Countersunk Protruding SF = Countersunk Flush					Grip Length Increments 15mm		

Kwikbolt | Thunder

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	A nominal mm (inch)	B mm (inch)	C mm (inch)	D1 min mm (inch)	Grip Range mm (inch) in 1-150mm (0.039 – 5.90)	Clamping Force Range N (lbf)	No of Cycles
Thunder Kwikbolt							
0332-T2	2.20 (0.086)	Varies depending on grip range requested by customer	Varies depending on grip range requested by customer	7.00 (0.275)	1mm (0.039) to 150mm (5.905)	1,112(250) - 2,224 (500)	500
0432-T2	3.26 (0.128)			7.00 (0.275)	1mm (0.039) to 150mm (5.905)	1,779(400) - 3,558 (800)	500
0532-T2	3.96 (0.156)			7.00 (0.275)	1mm (0.039) to 150mm (5.905)	2,224(500) - 4,448 (1,000)	500
0632-T2	4.76 (0.188)			9.00 (0.354)	1mm (0.039) to 150mm (5.905)	2,670 (600) - 5,340 (1,200)	500
0832-T2	6.35 (0.250)			12.00 (0.472)	1mm (0.039) to 150mm (5.905)	2,670 (600) - 5,340 (1,200)	500
1032-T2	7.94 (0.313)			15.00 (0.590)	1mm (0.039) to 150mm (5.905)	4,000 (900) - 8,000 (1,800)	500
1232-T2	9.53 (0.375)			19.00 (0.748)	1mm (0.039) to 150mm (5.905)	4,000 (900) - 8,000 (1,800)	500
1432-T2	11.15 (0.438)			22.00 (0.866)	1mm (0.039) to 150mm (5.905)	5,250 (1,180) - 10,500 (2,360)	500
1632-T2	12.70 (0.500)			24.00 (0.945)	1mm (0.039) to 150mm (5.905)	5,250 (1,180) - 10,500 (2,360)	500
1832-L9	14.24 (0.563)			27.00 (1.063)	1mm (0.039) to 150mm (5.905)	6,250 (1,400) - 12,500 (2,800)	500
2032-L9	15.90 (0.625)			30.00 (1.181)	1mm (0.039) to 150mm (5.905)	7,250 (1,630) - 14,500 (3,260)	500
2432-L9	19.05 (0.750)			38.00 (1.496)	1mm (0.039) to 150mm (5.905)	7,250 (1,630) - 14,500 (3,260)	500
3232-L9	25.40 (1.000)			48.00 (1.889)	1mm (0.039) to 150mm (5.905)	8,000 (1,800) - 16,000 (3,600)	500

Head Types | FP = Flat Protruding | SP = Countersunk Protruding | SF = Countersunk Flush Grip Length Increments | 1-150mm



Kwikbolt | Kleko360

The Kleko360 product range covers the standard hole sizes and grip ranges that are found within the aerospace and defence market. Each product is identified by part marketing and colour coding and can coalesce with the standard cylindrical and hex body tooling interface, this means that Kleko360 is a line replaceable range to our customers' existing tooling set up on aerospace build lines.

These single sided temporary fasteners (SSTP) allow for doweling, clamping and installation all from one side. They provide a high load and standard 1 inch grip range for hole diameters from 4/32 inch (3.175mm) to 5/16 inch (7.94mm) and can be installed with existing tooling.

The benefits of the Kleko360 over the traditional Cleco and Wedgelock is that Kleko360 increases the clamping area, increases the clamping loads, reduces damage and provides doweling, while at the same time improving the quality and speed of your aerospace production line with a high load, high sheers fastener.

It is provided by Kwikbolt's subsidiary Kleko360 and all information can be found at www.kleko360.com





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 sheer 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.



KwikboltTM



The Single Sided Temporary Fastener

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

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speed



performance



strength