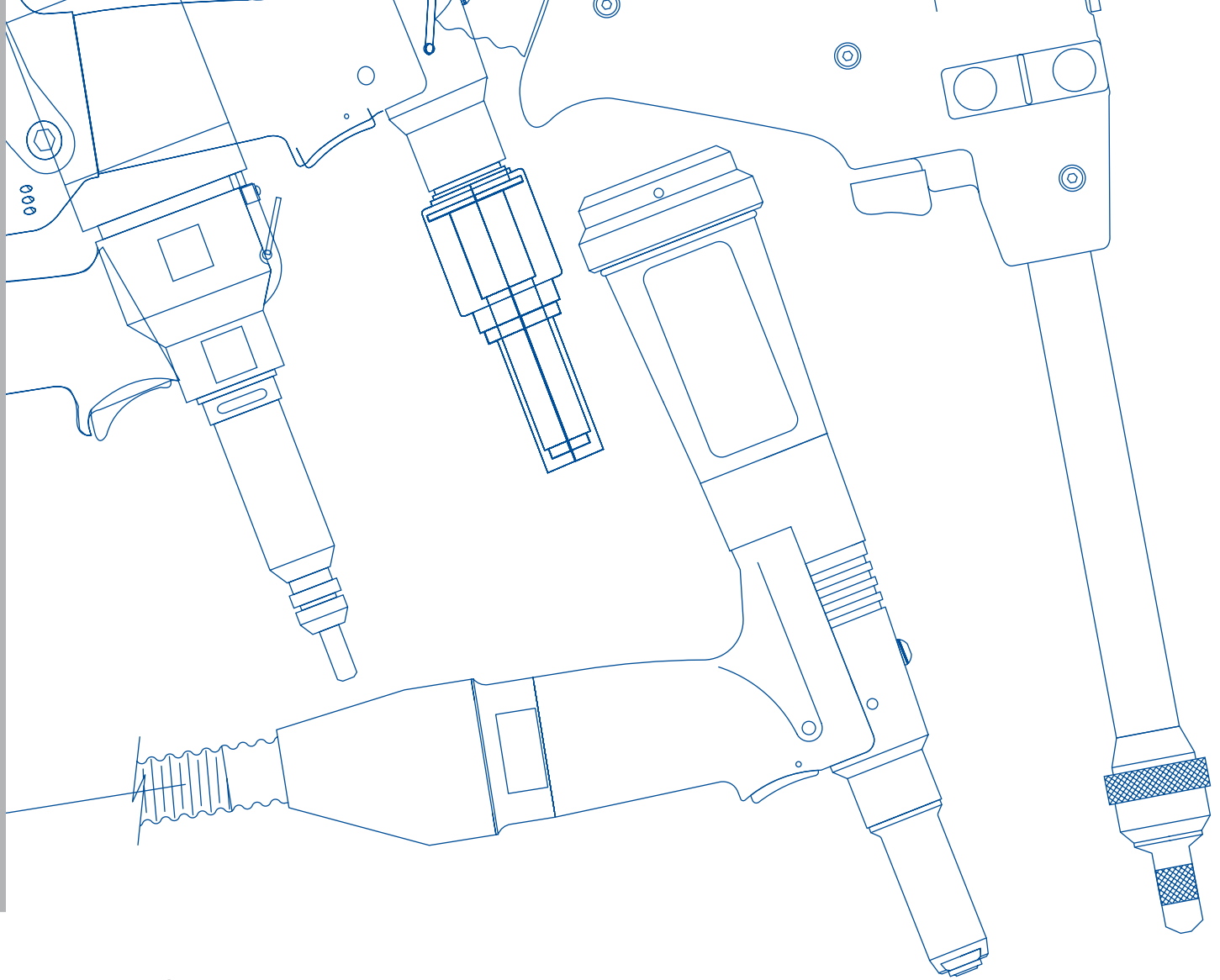




Blind Fastening Systems





Profile and Mission

The new Avdel® organisation and mindset is a forward thinking innovative company with history and experience dating back over 70 years. A key part of this approach is developing committed and capable people who can leverage our experience in the market and drive the business forward in today's challenging environment.

The aim is to have a better understanding of our customers' needs and wants while developing strong business partnerships that lead to hand-in-hand growth and success.

Quality, Innovation and Expertise are the 'buzz words' in the organisation and we aim to deliver all three as part of our total solution philosophy. To achieve this we are going to great lengths to continuously improve our levels of customer service, on-time delivery and quality performance and procedures.

In parallel to our continuous improvement approach, greater levels of resource and dedication are now focused on identifying new and improved products for our customers. We are committed to developing new fastening solutions and bringing them to market faster by utilising the wealth of experience in our personnel and maximising output and profitability for our customers.

Avdel® will be the preferred supplier of innovative engineered fastening solutions, maximising value for our customers.

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Company Profile

The Avdel® History – 75 years of leadership and innovation

The Avdel® brand name dates back over 70 years. The name is derived from 'Aviation Developments', the company's original name when it was founded in 1936 to manufacture a unique range of Speed fasteners for the burgeoning aviation industry.

By the 1950's the company was focusing on providing new value added assembly solutions, this „systems” approach created greater optimisation and provided customers with a single source for dependable fasteners and installation equipment.

In 1961 the company was renamed „Avdel®“ and substantial growth throughout the next two decades saw it become one of the world's largest manufacturers of blind fasteners and installation tools. Expansion of the Avdel® group was most significant in the 60's, 70's and 80's with several new facilities established in Europe, USA and the Asia Pacific region whilst a network of authorised distributors and concessionaires in over forty countries helped to ensure a truly Global reach.

In May 1994 the group was acquired by Textron Inc. and renamed „Avdel Textron“, the group became part of Textron Fastening Systems, an alliance of Textron owned fastening companies. Under TFS, Avdel® benefited from improved processes and lean manufacturing techniques driven by Six Sigma whilst also developing a better knowledge and understanding of the automotive industry demands and requirements.

In 2006 Textron Fastening Systems was sold to Platinum Equity, renamed Acument Global Technologies, and reorganized into several market and regionally-focused units. Within this group of companies, the Avdel® organisation was relaunched in its own right with greater autonomy over all business activities, investments, and strategies.

In 2010 the Acument Global Technologies businesses Avdel® and Global Electronics & Commercial (“GEC”) were purchased by funds advised by CVC Asia Pacific Limited (“CVC”), Standard Chartered Private Equity Limited (“SCPEL”) through an indirectly owned company to be renamed Infastech Limited. Both businesses are now grouped under the new brand – Infastech™.

Today Avdel® supplies solutions to many of the world's leading companies, in industry sectors as diverse as automotive, electronics, construction and appliance. Avdel® engineers continue to work hand in hand to develop innovative solutions to ensure that our customers are always able to meet the demands of an ever changing world.

A Brief History of Avdel® Brands

1930	1940's	1950's	1960's	1970's	1980's	1990's	2000's
Chobert®	Pip	Avdel® Jo-bolt	Avdelok® Avex® Avlug® Cherrymate Drive Rivet Grovit® N Rivet Nutsert® Q Rivet 720 tool 722 tool 741 series 734 series 7150 series GH 702 GH 703 GH 780 G28 Pro 404	Avtainer® Briv® Hexsert® Klamp-Tite® MBC MAS Monobolt® T Rivet 7271 tool 7490 series	Autosert® Avseal® Avsert® Avinox® Bulbex® Hemlok® Hydra® Jo-lok Maxlok® M.F. System Rivmatic® Rivscrew® SR Q Rivet Supersert® T-Lok® TLR® 7640 tool 7610 tool	Aluminium Inserts Avdel® SR Avibulb® Avtainer® SP Avtronic® Avimat® Eurosert® Genesis® Interlock® Nutsert SQ® Stavex® 753 MK II tool 742 tool Workstations	Avbolt® Avibulb® XT Avinox® XT Avseal® II Avdelok® LD Double Flush Chobert® Genesis® nG range High Strength Hexsert® Rivscrew® PL TX2000® Versa-Nut® 7287 tool

Avdel® at a glance

Avdel® is a global organisation offering expertise and know-how at a local level:

- Global manufacturing facilities
- Service and logistics in five continents
- Quality levels for the most demanding industries
- Fully trained applications engineers

Company headquarters:	Welwyn Garden City, UK
Production facilities:	Warrington, UK; Stanfield, USA; manufacturing through other Infastech™ facilities
Heat treatment & metal finishing facility:	Warrington, UK
Sales Offices:	Canada, USA, UK, Spain, France, Germany and Italy
Distribution and Logistic Centres:	Canada, USA, Netherlands, and Italy
	The Avdel® sites are complimented by the Infastech™ global distribution network.
	Other important geographies covered through a worldwide network of concessionaires.
Global customers at:	Industrial, Electronics, Domestic Appliances, Automotive, Transportation, Construction

Worldwide Sales & Logistics – Your partner where you need it most ...



... supporting a wide variety of customer logistics requirements.

Company Profile

Innovative Solutions

In recent years the market trend towards new materials used in assemblies such as composites, high-strength thin gauge steels, and die-cast magnesium has presented new challenges to fastener manufacturers. Avdel® has been at the forefront of new product development to meet these new market requirements during which time fasteners such as Versa-Nut® threaded inserts, Maxlok® lockbolts, Rivscrew® PL, Klamp-Tite®, Bulbex®, and Avinox® rivets have all been developed as fastening solutions for the changing market.

Double Flush Chobert®



The Double Flush Chobert® rivet is a Speed Fastening® rivet with countersunk head for use in exceptionally thin sheet materials. It is placed into sheets that have countersunk bores on both sides. After installation, the placed rivet forms a flush fastening on both the front and rear of the application.

Avibulb® XT & Avinox® XT



High performance structural breakstem fasteners with excellent bulbing tail formation, featuring a wide grip range.

Rivscrew® PL



A proprietary Speed Fastening® System, combines the speed of rivet placement with the removability of a screw.

Avseal® II



The new range of Avseal® II blind sealing plugs are unique in the efficient sealing performance they provide in low and high pressure hole sealing applications.

Genesis® nG Range



The new range of high performance, lightweight hydro-pneumatic handtools for breakstem rivets.

Versa-Nut®



The blind insert from Avdel® doubles the grip range of soft materials, thin wall plastics and composites, while providing new levels of joint clamp and pullout resistance with fewer fasteners.

Large Diameter Avdelok®



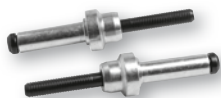
These lockbolts are heavy duty, two piece fasteners designed to provide exceptional high strength, secure assembly. Quick and simple to place yet lasting for years, they are the ideal solution where spot welding is not practical or possible.

High Strength Hexsert®



The strongest material to eliminate cross threading. High strength Hexsert® provides clamp force comparable to weld nuts and clinch nuts in high torque applications.

Avbolt®



The Avbolt® structural blind fastener is a high strength, tamper resistant, blind steel fastener designed for use in heavy duty structural applications such as construction, container, railway and mining.

Engineering and Manufacturing Excellence

The Avdel® group can support customer assembly requirements from the earliest stages of new product design by combining the latest engineering and design techniques with our 75 years of market experience. Drawing on the expertise of our Engineers and the advanced testing capabilities of our facilities, laboratories and workshops, Avdel® has the aptitude to employ cutting edge Finite Element Analysis and modern design techniques to develop the right solution for our customers. Our own plating site Avdel Metal Finishing offers high quality finishing capabilities like electroplating, heat treatment, lubrication and cleaning to external customers as well.

Value-Added Services

A variety of customised fastening solutions and tailored services are available to fully support our customers' manufacturing requirements and maximize their productivity. From application engineering and Finite Element Analysis to product training and Marketing support, our value-added services are an integral part of the Avdel® product offering.

Supply Chain Management Services

Electronic Data Interchange (EDI)

EDI is used to receive and transmit orders, releases and advance shipping notices, to increase efficiency in your procurement process.

your inventory and material handling activities. We can also deliver on „Just In Time“ basis to meet your requirements and utilise bar coding to speed your receiving process and improve inventory control.

Global Warehousing and Distribution

With global warehousing and distribution located in 5 continents we can offer we can store your fasteners close to your manufacturing operations until you need them, to reduce

Fastener Consolidations

Our review of your existing part numbers can result in recommendations for consolidating similar parts. This in turn allows larger volume purchases, which will reduce fastening costs.

Applications

Avdel fasteners are used in the world's:

- Fastest cars
- Most sophisticated networks
- Heaviest vehicles
- Most powerful engines
- Largest solar power plants



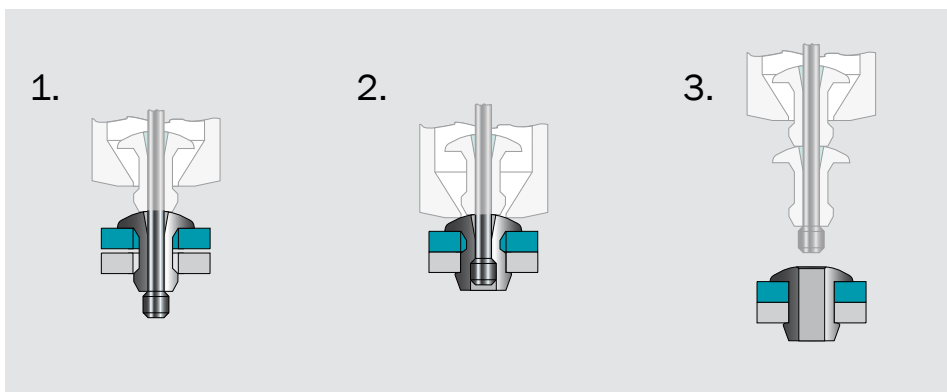


Benefits of assembly

Avdel speed fastening systems provide rapid and reliable assembly of metals, plastics, composites and passive electronic components. The fasteners are either magazine-fed or fed via a vibrating bowl to a wide choice of installation equipment. At the end of each assembly cycle, the next fastener is automatically delivered to the nose of the tool ready to repeat the assembly process. Speed fastening offers many benefits over conventional mechanical assembly systems, including:

- High speed, blind sided assembly
- Consistent clamp and grip
- Good vibration resistance
- Highly controlled assembly
- Short cycle times
- Elimination of over-torquing

Typical placing sequence



1. The mandrel with pre-loaded fastener is located in the hole.

2. Tool activation pulls the mandrel through the fastener, expanding it within the hole to provide high clamp and secure joints.

3. At the end of the installation cycle, the next fastener is automatically delivered to the nose of the tool, ready to repeat the assembly process.

Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

There are many assembly situations where Avdel speed fasteners provide the ideal fastening solution, including:

- Aluminium die-cast boxes
- Car bumpers and doors
- DIN connectors and heatsinks to PCB's
- Domestic appliances
- Electrical engineering
- Lighting equipment
- PCB's to chassis assemblies
- Switchgear
- Telecommunications equipment

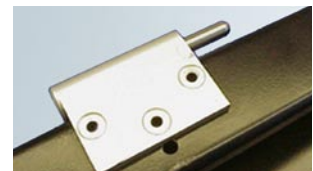
Window hinge



Alloy tube with nylon bush



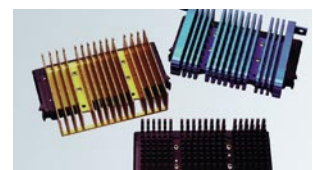
Computer rack glass door hinge



Vacuum pump for diesel engines



Heatsinks to processor cartridges



Range Overview

Briv®



Bulbed tail
Large headform
High clamp and shear

Rivscrew®



Threaded fastener
Removable with hex key
and reusable
Fastens into materials up to
Vickers hardness 105 Hv5

Chobert®



Internal tapered bore
Controlled clamp
High shear
Ideal for soft and brittle
materials

Double Flush Chobert®



Designed for thin sheet materials
Flush surface on both sides of
the joint
Reduces excess space require-
ments within the chassis

Grovit®



Designed for blind hole
applications
Annular grooves on body
For use in wood, plastics
fibreglass and aluminium

Avtronic®



Attaches DIN 41612 connectors
and other components to PCBs
Annular grooves on body

Avsert®



Threaded stand-off pillars for
PCBs
Internally threaded bore
Many stand-off heights

Avlug®



Solderable terminal posts
for PCBs
Roled/knurlled shank

Installation Equipment

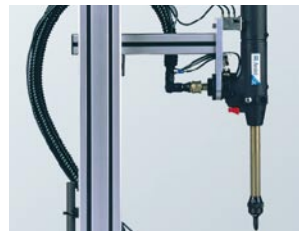
7537



753



7535 Fixed arm workstation



7535 Pantograph workstation



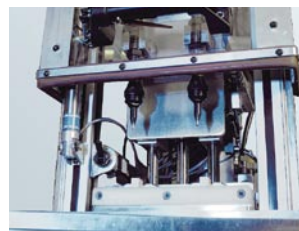
23 placing heads to assemble a
computer chassis



70510 Underbench workstation



Twin head fixed pitch workstation



Customised systems



Breakstem Systems

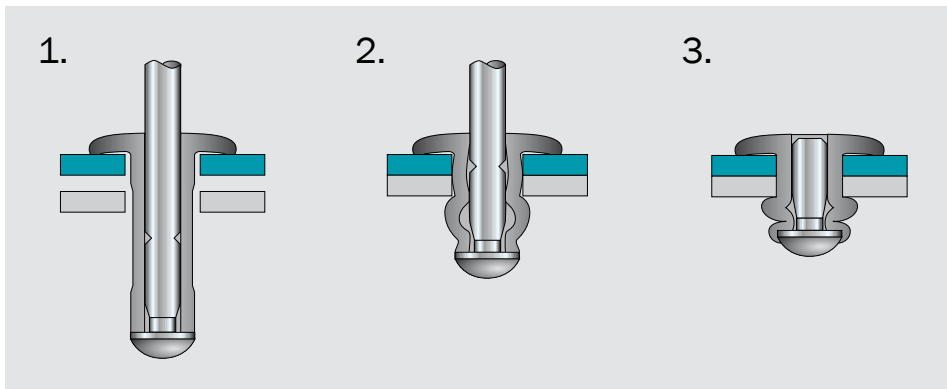


Benefits of assembly

Avdel breakstem fasteners and installation tools are a premier fastening system offering multi-grip performance, consistent and reliable installation and high speed, high performance assembly. Used in all manufacturing industries throughout the world, there is an Avdel breakstem fastener and installation tool to suit virtually every assembly requirement. Key user benefits include:

- Blind sided assembly
- Multi-grip performance
- Complete hole fill
- High speed assembly
- Good clamp and vibration resistance
- Consistent high performance
- Positive stem retention
- Extensive product choice

Typical placing sequence



1. The fastener is located on the tool nose piece and inserted into the prepared hole in the workpiece.
2. On activating the tool, the fastener pulls the materials together and expands to fill the hole.
3. At a pre-determined load, the fastener stem breaks flush with the fastener head, leaving a locked stem.

Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

Below are just a few examples of applications where Avdel breakstem fasteners provide the ideal fastening solution but the choice is virtually limitless.

- Automotive components
- Boats and caravans
- Building and construction
- Cabinets and enclosures
- Commercial vehicles
- Domestic appliances
- Electrical components
- Garage doors
- Heating and ventilation
- Railway rolling stock
- Reefer cool containers
- Storage and warehousing

Domestic heating systems



Passenger air bag



Sliding luggage cover



Garage doors



Wood application



Speaker systems



Range Overview

Avex®



Multi-grip capability
Good hole fill
Retained stem
Large blind side bearing area

Stavex®



Multi-grip capability
Good hole fill
Retained stem
Large blind side bearing area

Avibulb®



High shear and tensile strength
Retained stem
Large blind side bearing area

Avinox®



High shear and tensile strength
High corrosion resistance
Retained stem
Large blind side bearing area

Bulbex®



Split tail formation for thin sheet and low strength materials
Multi-grip capability
Retained stem

T-Lok®



'Peel-type' tail formation for joining wood to metal
Wide grip range
Retained stem

Avdelmate®



Two piece fastener
Extra wide grip range
Large bearing area against both sides of the application
Excellent hole fill

Klamp-Tite® (non-structural)



Split tail formation for thin sheet and low strength materials
Multi-grip capability
Good clamp up

N Rivet/BD Series



Low cost standard rivet
Wide range of materials and sizes
Quick installation
Increased stem retention

Avdel® SR



Fully sealed fasteners
Good hole fill
Retained stem
Wide range of materials and sizes

Earth Tab Rivet



Cost effective earthing point
Paint piercing capability
Twin tabs allow one or two connections

Avex® Splined



Steel splines for electrical continuity in earthing applications
Multi-grip capability

Installation Equipment

nG1



nG2



nG2-S



nG3



nG4



Breakstem Systems

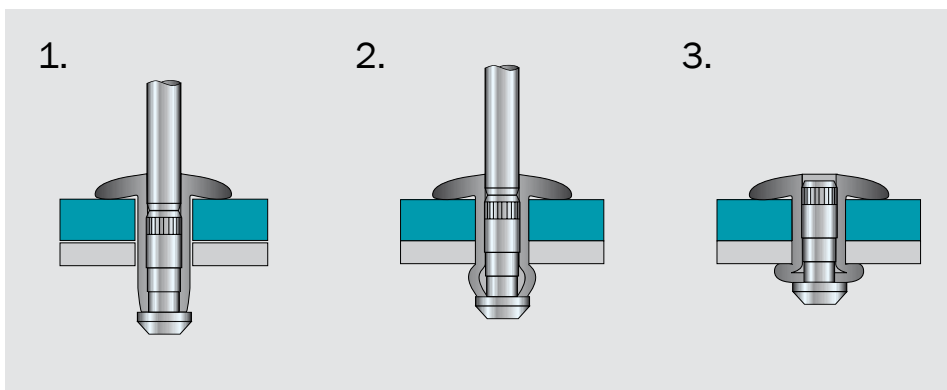


Benefits of assembly

Avdel structural breakstem systems are designed for rapid, blind sided assembly in load-bearing structural applications, where high shear and tensile strength is required. Key user benefits include:

- Blind sided assembly
- High shear and tensile strength
- Multi-grip performance
- Complete hole fill
- High speed assembly
- Good clamp and vibration resistance
- Consistent high performance
- Positive stem retention
- Extensive product choice

Typical placing sequence



1. The fastener is located on the tool nose piece and inserted into the prepared hole in the workpiece.

2. On activating the tool, the fastener pulls the materials together and expands to fill the hole.

3. At a pre-determined load, the fastener stem breaks flush with the fastener head, leaving a locked stem.

Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

Below are just a few examples of applications where Avdel breakstem fasteners provide the ideal fastening solution but the choice is virtually limitless.

- Agricultural equipment
- Automotive assemblies and components
- Boats and caravans
- Building and construction
- Cabinets and enclosures
- Commercial vehicle bodies
- Domestic appliances
- Heating and ventilation
- Pallets and racking
- Roofing and cladding
- Railway rolling stock
- Reefer cool and dry freight containers

Product cooler



Column tail lifts



Car seat base



Step ladder



Vehicle panel



Range Overview

Avibulb® XT &
Avinox® XT



Multi-grip capacity
High residual clamp load
Good blind side footprint and bulb formation
Avibulb® XT = steel
Avinox® XT = stainless steel

Hemlok®



Very high shear and tensile strength
Large blind side bearing area
Interference lock via splined stem

Monobolt®



Multi-grip capability
Fully sealed fastener
Visible lock
Excellent hole fill
Mechanically locked stem
Good sheet take-up performance

Interlock®



Multi-grip capability
Fully sealed fastener
Excellent hole fill
Mechanically locked stem
Good sheet take-up performance

Q Rivet



Interference lock via a splined stem
Stem plugs entire shell length
Weatherproof

Klamp-Tite® (structural)



Split tail formation for thin sheet and low strength materials
Multi-grip capability
Good clamp up
Mechanically locked stem
Visible lock

T Rivet



'Peel-type' tail formation
High shear and tensile strength
High clamp up
Visible lock

Lockbolt for blind sided assembly

Avbolt®



Use on blind sided application
High residual clamp force
High tensile and shear strength
Speed of installation
Vibration resistance
High grip capability

Avseal® II Sealing Plug

Avseal® II Sealing Plug



For both low-pressure and high-pressure hole sealing applications
High leak resistance
Exceptional hole fill
Efficient stem locking device
Wide choice of installation tools

Applications

Engine blocks, transmissions, cylinders, brakes, gear box, pneumatic systems, hydraulic blocks, compressors, pumps

Installation Equipment

nG2-S



nG3



nG4



7287



Lockbolt Systems

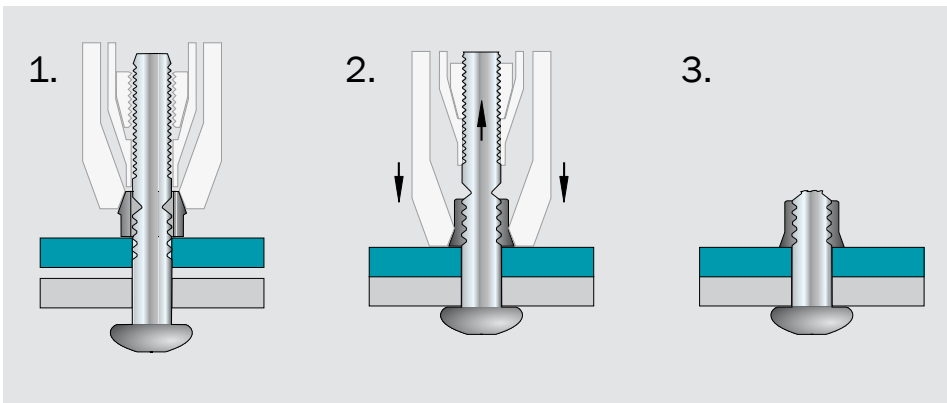


Benefits of assembly

Avdel two piece lockbolt systems are designed for high strength assembly. Quick and simple to place, they provide tamper-proof joints and are the ideal solution where spot welding is not practical or not possible. They are widely used in demanding engineering industries such as vehicle body building, railways, construction and containers. Key user benefits include:

- High speed assembly
- High shear and tensile strength
- Consistent high clamp
- Excellent vibration resistance
- Tamper-proof joints
- Quick and simple to install

Typical placing sequence



1. The fastener bolt is located in the hole and the collar placed over the stem. The tool is then located onto the stem.

2. Tool activation pulls the materials together and swages the collar into the grooves of the pin.

3. At a pre-determined load, the stem breaks flush with the top of the collar.

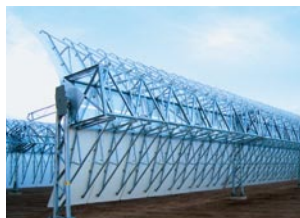
Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

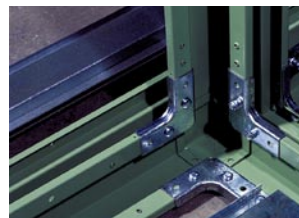
Below are just a few examples of applications where Avdel lockbolts provide the ideal fastening solution.

- Agricultural equipment
- Automotive assemblies and components
- Building and construction
- Cabinets and enclosures
- Commercial vehicle bodies
- Domestic appliances
- Fencing
- Railway rolling stock
- Reefer cool and dry freight containers

Solar power plants



Heating system



Commercial vehicles



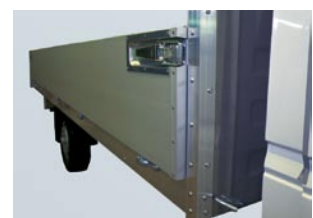
Solar power plants (detail)



Fan bearing arm



Commercial vehicles



Range Overview

Avdelok®



High shear strength
High controlled clamp

Large diameter Avdelok® LD



Exceptional shear and tensile strength
Sizes from 12.7 mm (1/2") to 25.4 mm (1")

Maxlok®



Wide grip range
High shear strength

Avtainer®



High shear strength
Joins composite panels to metal
Leak resistant
High speed installation

Lockbolt for blind sided assembly

Avbolt®



Use on blind sided application
High residual clamp force
High tensile and shear strength
Speed of installation
Vibration resistance
High grip capability

Installation Equipment

722



nG4



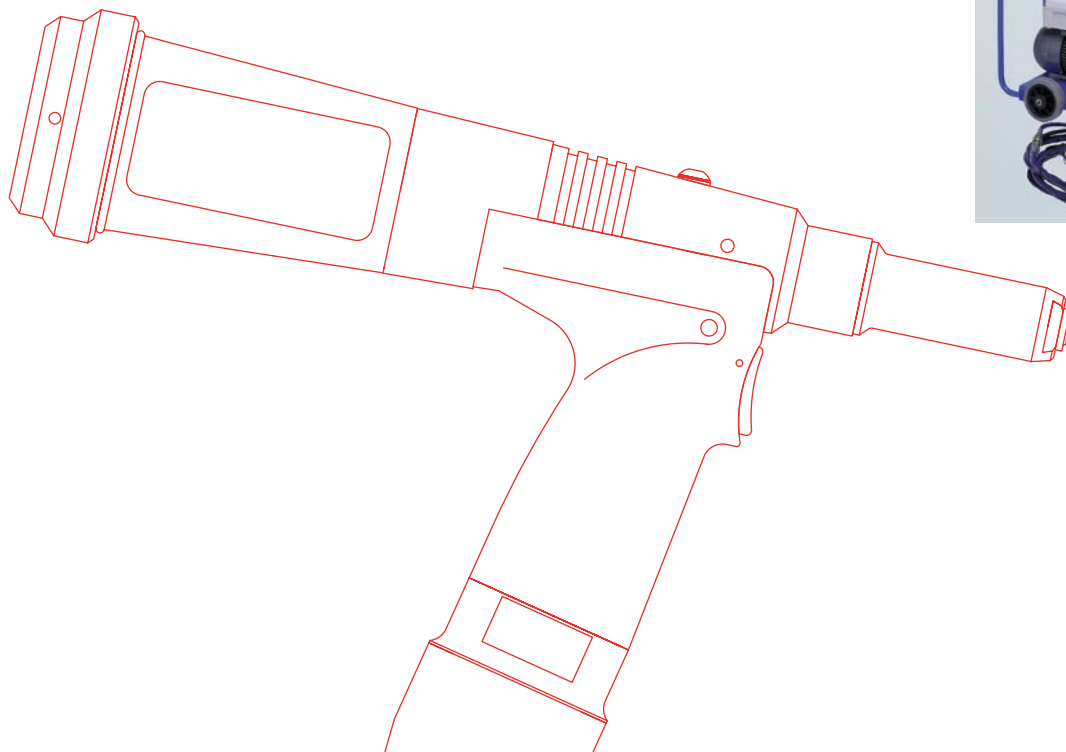
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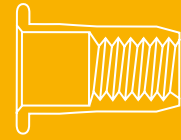
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734



Blind Threaded Inserts



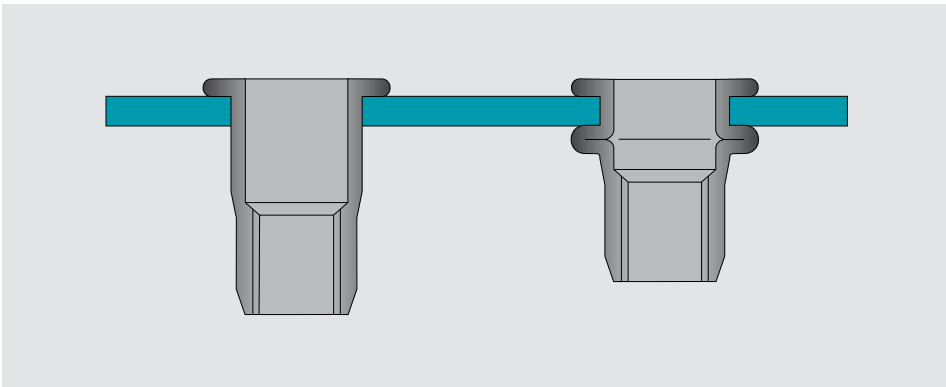
Benefits of assembly

Avdel threaded inserts and installation tools provide a quick, reliable and low cost system of inserting high quality, load bearing threads. The inserts offer many benefits over weld nuts, self-tapping screws, pressed inserts and nuts & bolts.

Key user benefits include:

- Blind sided assembly
- Reliable and secure thread installation
- No damage to surface coatings
- Reduced rework and wastage
- Lower cost of installation
- Suitable for use in stamped or drilled holes
- Designed for automation

Typical placing sequence



The insert is threaded onto the drive screw of the installation tool and inserted into the prepared hole in the workpiece.

On activating the tool, the threaded insert is pulled towards the tool, forming the body wall radially outwards to clench tightly against the workpiece.

At a pre-determined torque, the drive screw of the tool reverses and is disengaged from the thread, leaving the insert securely in position.

Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

Below are just a few examples of applications where Avdel threaded inserts provide the ideal fastening solution.

- Adjustable feet/castors
- Automotive components
- Compressor units
- Computer chassis
- Door hinges
- Lawnmowers
- Lift cabins
- Number plates
- Radios
- Roof rack attachments
- Window frames

Suspension damper



Hydro formed cross beam



Handrail



Automotive crash structure



Washing machine



Range Overview

Splined Body – Eurosert®



Improves torque-to-turn resistance in softer materials such as aluminium when compared to plain body inserts.

Hexagonal Body – Hexsert®



Improves torque-to-turn in components via form lock when compared to round and splined inserts.

Square Body – Squaresert®



Improves torque-to-turn resistance in components via form lock due to even greater contact surface compared to round and splined inserts.

Versa-Nut®



Slotted body forms four legs when placed.
Extra large blind side bearing area.
For use in composites and plastics.

Large Flange



Provides a large load bearing surface to reinforce the hole and prevent push through.

Low Profile



Allows near flush installation and clamp up without the need to prepare special holes.

Countersunk – Nutsert®



Allows flush installation and secure clamp up.

Closed End – Nutsert®



Prevents the ingress of dirt and fluids into thread.

Customised Designs



We can design and manufacture threaded inserts with a wide variety of forms and finishes:

- Special surface coatings
- Varying grip ranges, flange dimensions and nut lengths
- Closed end and sealed inserts

Installation Equipment

74200



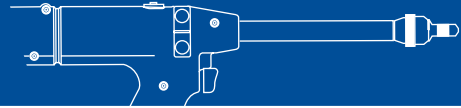
74201



74405



Automation Systems



Customised Assembly Solutions

From simple twin-headed modules to multi-headed, customised equipment, these systems can dramatically reduce assembly time and costs whilst improving consistency of placing.

Customised systems can be designed for virtually any application or assembly environment and process monitoring equipment or clamping modules can be easily integrated. The direction, type and number of assembly heads can all be customised. We have designed equipment with two heads to over eighty heads but the configurations are virtually limitless.

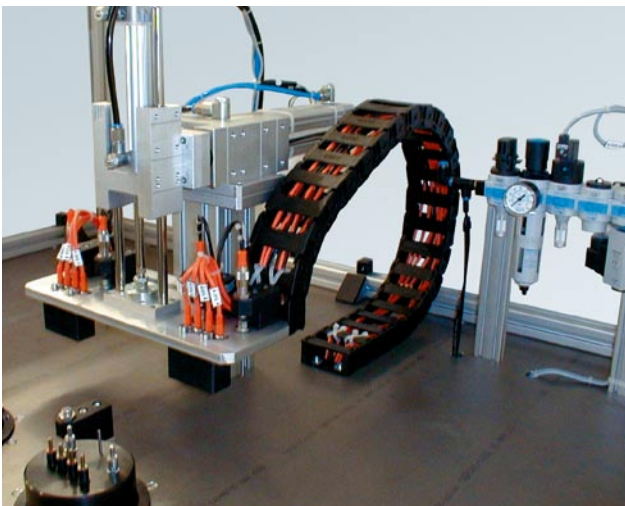
With assembly cycles as low as two seconds, these systems provide:

- High speed assembly
- Assembly of any configuration
- Fastening at any angle
- Synchronous fastener placement
- Highly controlled assembly
- Process flexibility
- Integration into assembly lines
- Improved product quality

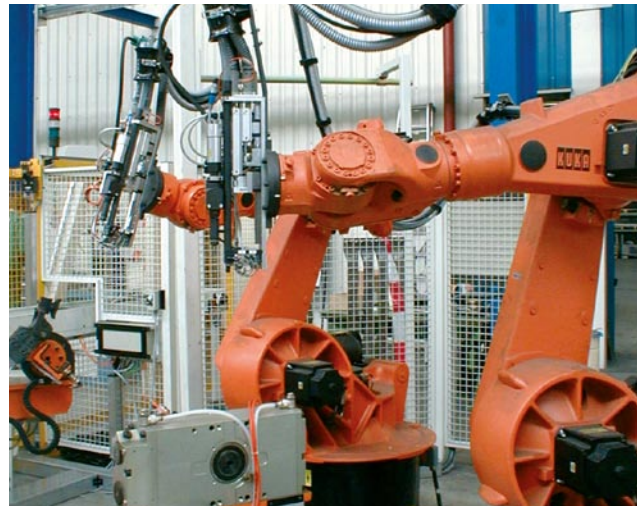
Together with the fasteners, these high precision tools create a high quality, reliable assembly system. The fasteners are placed accurately and consistently without the risk of over-torquing. An additional benefit of these systems are the practical jig points provided by the assembly heads.

Assembly workstations

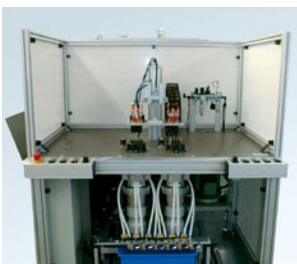
Multi-head assembly system for the assembly of restraining nets and luggage cover with breakstem rivets



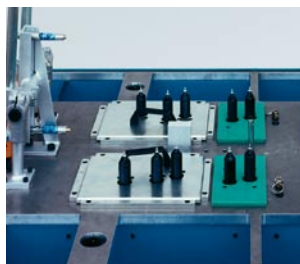
Autosert® modular placing head on robotic arms



Processing diagnostics provided by sensors at all stages of the assembly

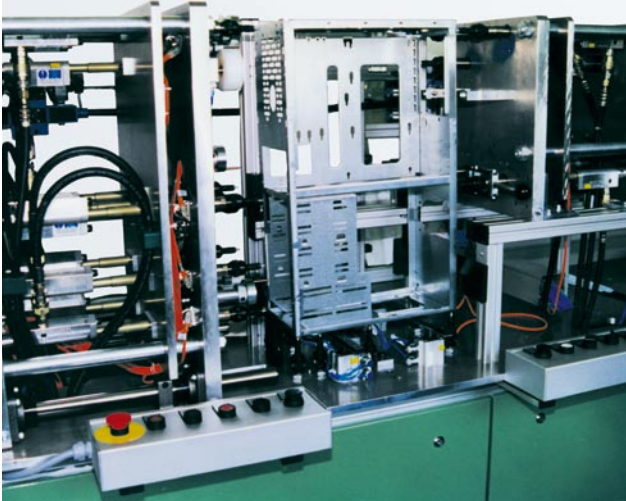


The assembly heads provide practical jig points

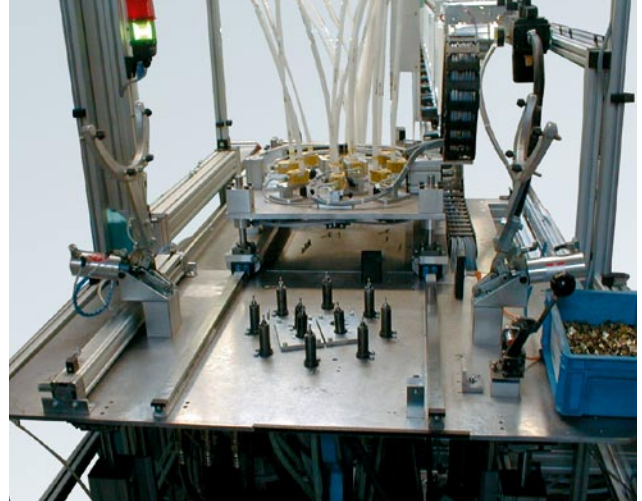


Assembly workstations

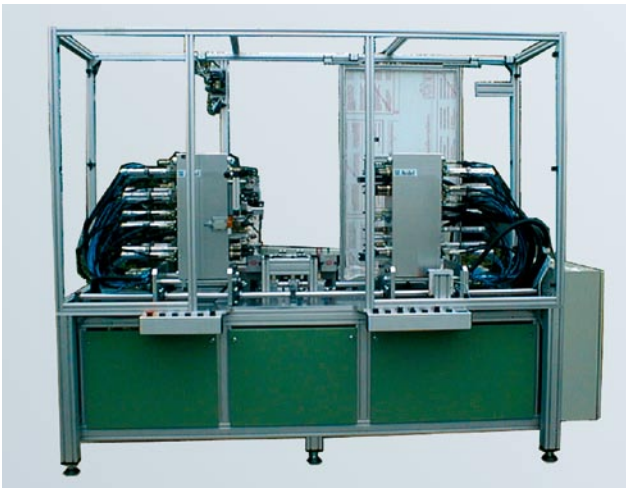
29 placing heads to assemble computer chassis with Speed Fastening® Systems



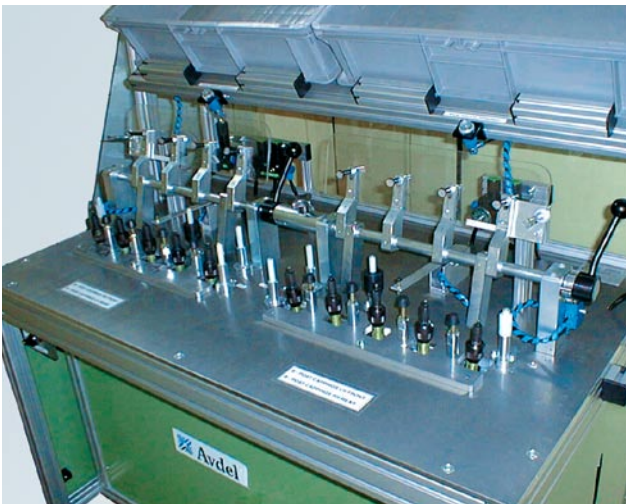
Assembly machine for laundry dryer places 12 breakstem rivets at the same time



Avimat® in modular design for quick and simple integration into assembly lines



10 placing heads to assemble automotive sealing strips



Autoload MK4 for automatic loading of Speed Fastening® handtools

Mini-MAS twin-head workstation



Holding your world together®

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