Avdel Threaded Inserts

A quick, reliable low cost way to insert high quality load bearing threads into weak or thin gauge materials.

**START**

- Do you require an insert for soft / brittle materials?
  - No
  - Yes
    - Does the hole have to be round?
      - No
        - Plain Body
          - Do you require a higher torque to turn resistance in softer metals?
            - No
            - Yes
              - Low Profile
                - Do you require a large head bearing surface to reinforce the hole?
                  - No
                    - Open End
                      - 9658 Thin Sheet Nutsert® Steel
                      - 9468 Thin Sheet Nutsert® Stainless Steel
                      - 39002 Eurosert® Stainless Steel
                      - GM17 Thin Sheet Nutsert® Aluminium
                      - FW96 Thin Sheet Nutsert® Aluminium CSK
                    - Closed End
                      - FS38 Thin Sheet Nutsert® Steel
                      - GM57 Thin Sheet Nutsert® Aluminium CSK
          - Yes
            - Large Flange
              - Do you require a closed end to prevent ingress of dirt and fluids?
                - No
                  - Open End
                    - FW78 Thin Sheet Nutsert® Aluminium
                    - GM68 Thin Sheet Nutsert® Aluminium
                - Yes
                  - Closed End
                    - FS58 Thin Sheet Nutsert® Steel
                    - GM68 Thin Sheet Nutsert® Aluminium

- Yes
  - Splined Body
    - Do you require a large head bearing surface to reinforce the hole?
      - No
        - Low Profile
          - 39006 Eurosert® Steel
          - 9408 Eurosert® Steel
          - DKS DK Insert Steel
          - DKA DK Insert Aluminium
        - Large Flange
          - Closed End
            - DLS DL Insert Steel
            - DLA DL Insert Aluminium
          - Open End
            - GM57 Thin Sheet Nutsert® Aluminium CSK

This selection guide is designed to help show you which inserts may be the most suitable for your application. An Avdel Applications Engineer is available to answer any questions you may have. This guide does not include the full range of Avdel products and for more information on specialist products please see the appropriate brochure or our website www.avdel-global.com. Our design department is able to create variations on all our products to suit your individual needs quickly and efficiently.

**Materials:** The material types have been colour coded throughout the guides to help you select the right insert. The selection of the material depends on the application requirements, e.g. corrosion resistance, strength, temperature, electrical conductivity.

**Finishes:** Avdel can offer special finishes for your application on all Avdel fasteners. For more information please contact an Avdel Representative.

www.avdel-global.com
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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

Range Overview

<table>
<thead>
<tr>
<th>Insert Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>Splined Body – Eurosert®</td>
<td>Improves torque-to-turn resistance in softer materials such as aluminium when compared to plain body inserts.</td>
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<tr>
<td>Hexagonal Body – Hexsert®</td>
<td>Improves torque-to-turn in components via form lock when compared to round and splined inserts.</td>
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<tr>
<td>Square Body – Squaresert®</td>
<td>Improves torque-to-turn resistance in components via form lock due to even greater contact surface compared to round and splined inserts.</td>
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<tr>
<td>Versa-Nut®</td>
<td>Slotted body forms four legs when placed. Extra large blind side bearing area. For use in composites and plastics.</td>
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<tr>
<td>Supersert®</td>
<td>Can be used in thick materials including blind holes. Mechanical locking mechanism.</td>
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<tr>
<td>Large Flange</td>
<td>Provides a large load bearing surface to reinforce the hole and prevent push through.</td>
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<tr>
<td>Low Profile</td>
<td>Allows near flush installation and clamp up without the need to prepare special holes.</td>
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<tr>
<td>Countersunk – Nutsert®</td>
<td>Allows flush installation and secure clamp up.</td>
</tr>
<tr>
<td>Closed End – Nutsert®</td>
<td>Prevents the ingress of dirt and fluids into thread.</td>
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<tr>
<td>Customised Designs</td>
<td>We can design and manufacture threaded inserts with a wide variety of forms and finishes:</td>
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<td></td>
<td>• Special surface coatings</td>
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<td></td>
<td>• Varying grip ranges, flange dimensions and nut lengths</td>
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<td></td>
<td>• Closed end and sealed inserts</td>
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Avdel also offers threaded fasteners for use in Avdel threaded inserts.