What Are Adhesive-Mount Nuts Used For?

Adhesive-Mount Nuts are used for adding a threaded mounting point to a finished surface without drilling through it. They are manufactured to Trade series (adhesive-backed mounting nuts), and the choice of size, property class and finish is driven by the load in the joint and the environment it sits in.

Primary duty

Adding a threaded mounting point to a finished surface without drilling through it

Governing standard

Trade series (adhesive-backed mounting nuts)

Screw size range

M4 / M5 / M6 / M8 / M10 / M12 to M4 / M5 / M6 / M8 / M10 / M12

Category

Nuts

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



Application guide for Adhesive-Mount Nuts to Trade series (adhesive-backed mounting nuts). The core duty of the type is adding a threaded mounting point to a finished surface without drilling through it. The typical industries, the how-to-specify checklist, assembly practice and the exclusion cases are set out below. Stocked across roughly 4 to 4, they cover light-duty and instrument-scale work.

Typical Applications for Adhesive-Mount Nuts

The most common settings where these are specified:

Vehicle bodywork: Adhesive-backed nuts add mounting threads where drilling the finished panel is undesirable.

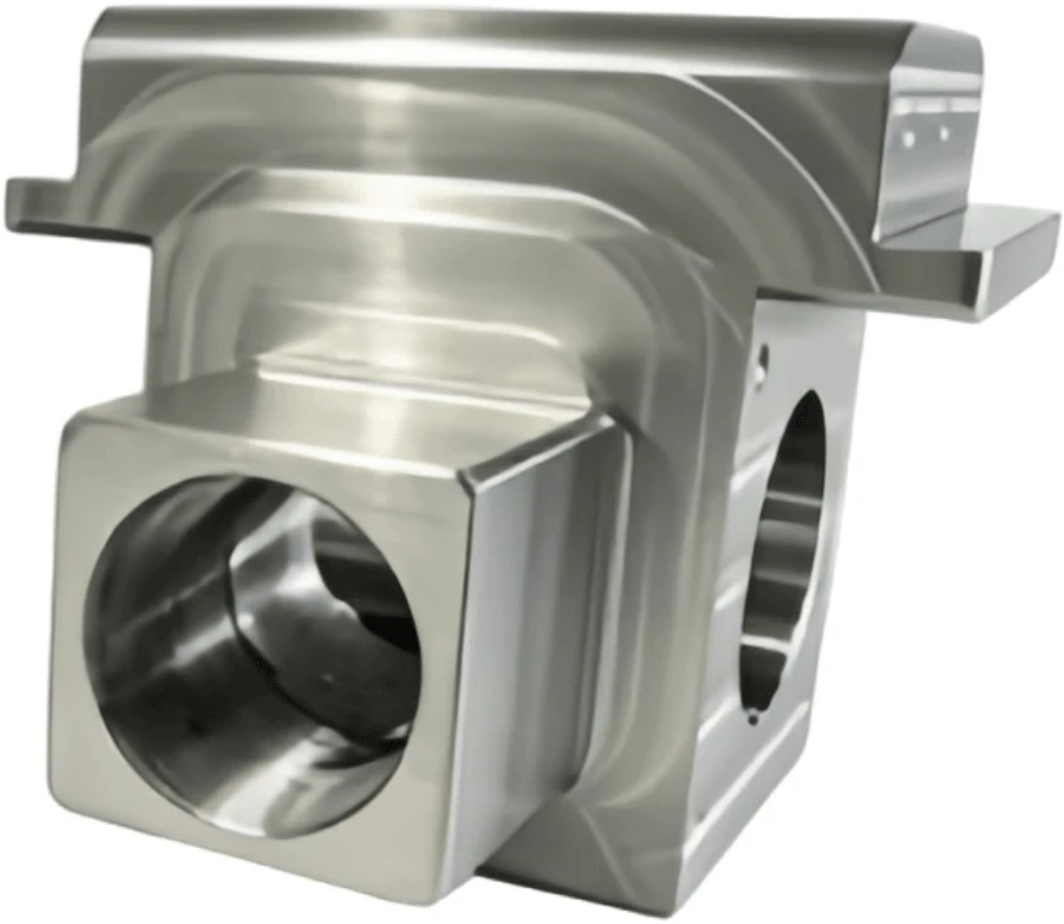
Signs and displays: Low-profile stainless bases bond behind a visible face.

Electrical enclosures: Threaded pads mount brackets without access behind the panel.

Retrofit fabrication: Round or rectangular bases fit different available bond areas.

Product catalog

Related Adhesive-Mount Nuts products



(https://engineeringhardware.com/product/custom-special-nut-direct-manufacturer-cnc-machining/)

Hex & Other Standard Nuts

Custom Special Nut, Direct Manufacturer, CNC Machining
(https://engineeringhardware.com/product/custom-special-nut-direct-manufacturer-cnc-machining/)(https://engineeringhardware.com/product/custom-special-nut-direct-manufacturer-cnc-machining/)

Material Customization Available · Custom Sizes Available

US$3.60 – 36.00 MOQ 1 piece



(https://engineeringhardware.com/product/ductile-cast-iron-scaffolding-prop-nut-with-handle-two-ears/)

Hex & Other Standard Nuts

Ductile Cast Iron Scaffolding Prop Nut with Handle (Two Ears)
(https://engineeringhardware.com/product/ductile-cast-iron-scaffolding-prop-nut-with-handle-two-ears/)(https://engineeringhardware.com/product/ductile-cast-iron-scaffolding-prop-nut-with-handle-two-ears/)

Stand · Galvanized

US$0.60 – 0.96 MOQ 1,000 pieces



(https://engineeringhardware.com/product/black-bulge-acorn-m20-m22-hex-tall-lug-nut/)

Hex & Other Standard Nuts

Black Bulge Acorn M20 M22 Hex Tall Lug Nut
(https://engineeringhardware.com/product/black-bulge-acorn-m20-m22-hex-tall-lug-nut/)(https://engineeringhardware.com/product/black-bulge-acorn-m20-m22-hex-tall-lug-nut/)

Hexagon Head · DIN, ANSI, GB, JIS, GOST, BSW, ISO Uni

US$1,740 – 1,860MOQ 3 tons



(https://engineeringhardware.com/product/pcb-board-spacer-support-column-motherboard-patch-tinned-nut/)

Hex & Other Standard Nuts

PCB Board Spacer Support Column Motherboard Patch Tinned Nut
(https://engineeringhardware.com/product/pcb-board-spacer-support-column-motherboard-patch-tinned-nut/)(https://engineeringhardware.com/product/pcb-board-spacer-support-column-motherboard-patch-tinned-nut/)

Round Head · Carbon Steel

US$0.11 – 0.24 MOQ 1,000 pieces



(https://engineeringhardware.com/product/startnow-laser-mirror-mount-fix-nut-m27-m28-removable-fixing-brass-nut-for-co2-laser/)

Hex & Other Standard Nuts

Startnow Laser Mirror Mount Fix Nut M27 M28 Removable Fixing Brass Nut for CO2 Laser Lens Mount
(https://engineeringhardware.com/product/startnow-laser-mirror-mount-fix-nut-m27-m28-removable-fixing-brass-nut-for-co2-laser/)

Laser Source · Brass

US$3.00MOQ 5 pieces



(https://engineeringhardware.com/product/dierct-selling-factory-nut-shell-activated-carbon-for-catalytic-carrier/)

Hex & Other Standard Nuts

Dierct Selling Factory Nut Shell Activated Carbon for Catalytic Carrier
(https://engineeringhardware.com/product/dierct-selling-factory-nut-shell-activated-carbon-for-catalytic-carrier/)(https://engineeringhardware.com/product/dierct-selling-factory-nut-shell-activated-carbon-for-catalytic-carrier/)

7440-44-0 · C

US$1,020 – 2,184 MOQ 1 ton

View all Hex & Other Standard Nuts →
(https://engineeringhardware.com/fastener-products/nuts/hex-other-standard-nuts/)

Full product catalog (https://engineeringhardware.com/products/)

How to Specify Adhesive-Mount Nuts for Your Application

Size: Match the nominal size to the mating thread or hole. This product spans 4–4; check the full table below for the exact dimensions of each size.

Locking & grade: Match the strength grade to the bolt, and choose a locking style (nyloc, all-metal, serrated flange) if the joint sees vibration.

Environment: For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.

Standard: This product is supplied to Trade series (adhesive-backed mounting nuts). Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Installation & Assembly Practice

Run the nut down by hand before applying the wrench to catch cross-threading early.

Tighten the nut rather than the bolt head where access allows — the torque-to-preload relation is more consistent.

For locking styles, note that nyloc inserts are single-use in critical joints and lose grip above roughly 120 °C.

Common Selection Mistakes with Adhesive-Mount Nuts

Pairing a high-class bolt with a lower-class nut — the nut strips before the bolt reaches proof load; the nut class must meet or exceed the bolt class.

Using a plain nut with a spring washer in severe vibration instead of a prevailing-torque locking nut.

Re-using nyloc nuts in critical joints.

Where Adhesive-Mount Nuts Are Not the Right Choice

Not on their own — they need a matching bolt or stud — and a plain nut is not a substitute for a locking type under heavy vibration.

Custom manufacturing · Made to drawing

Need a adhesive-mount nuts outside the standard range?

Thread size is the obvious variable and rarely the interesting one — height for clearance, across-flats for the tool already in the cell, and the locking feature for the vibration actually present. Made by cold heading or tapping.

Minimum order from 2,000 pieces; samples within 7 days of drawing approval.

Custom nut manufacturing (https://engineeringhardware.com/custom/nuts/)

Send a drawing (https://engineeringhardware.com/custom/nuts/#rfq)

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Dimensioned line drawing of 4-40 / 6-32 / 1/4-20 / 5/16-18 / 3/8-16 Adhesive-Mount Nuts to Trade series (adhesive-backed mounting nuts). Side view and top view, drawn to the dimensions in the table below and redrawn for any size selected.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (Trade series (adhesive-backed mounting nuts))

Thread options	Base form	Round base diameter (mm)	Rectangular
4-40 / 6-32 / 1/4-20 / 5/16-18 / 3/8-16	round	23 or 38	
M4 / M5 / M6 / M8 / M10 / M12	rectangular		24×11.5 or 38

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

Do Adhesive-Mount Nuts need a locking feature?

If the joint sees vibration or cyclic load, use a locking style (nyloc, all-metal lock, or serrated flange) or a thread-locking adhesive. For static joints a standard nut tightened correctly is usually sufficient.

What material should Adhesive-Mount Nuts be for outdoor use?

For damp, coastal or chemical environments specify A4 (316) stainless or a suitably coated steel. For indoor or dry use, A2 (304) stainless or zinc-plated steel is normally adequate.

Are Adhesive-Mount Nuts made to a recognized standard?

Yes — they are manufactured to Trade series (adhesive-backed mounting nuts), so dimensions are interchangeable between suppliers when you quote the standard on your order.

What are Adhesive-Mount Nuts used for?

Adding a threaded mounting point to a finished surface without drilling through it. They are supplied to Trade series (adhesive-backed mounting nuts).

Can I get a quote for Adhesive-Mount Nuts in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: Adhesive-Mount Nuts — specifications & sizes (https://engineeringhardware.com/fastener/adhesive-mount-nuts/)

Adhesive-Mount Nuts Specification Guides

- **A4 stainless Adhesive-Mount Nuts (https://engineeringhardware.com/guide/material/a4-stainless-steel-adhesive-mount-nuts/)**

Related Fastener Applications

- **Aerospace Corner Self-Locking Nutplates applications (https://engineeringhardware.com/applications/aerospace-corner-self-locking-nutplates/)**
- **Aerospace Two-Lug Floating Self-Locking Nutplates applications (https://engineeringhardware.com/applications/aerospace-two-lug-floating-self-locking-nutplates/)**
- **All-Metal Hex Flange Lock Nuts applications (https://engineeringhardware.com/applications/all-metal-hex-flange-lock-nuts/)**
- **All-Metal Lock Nuts applications (https://engineeringhardware.com/applications/all-metal-lock-nuts/)**
- **All-Metal Prevailing Torque Hex Lock Nut (Type 1) — GB/T 6184 / ISO 7042 (Series 047) applications (https://engineeringhardware.com/applications/cad-svg-047-nylocnut/)**
- **Bearing Lock Nuts (KM Series) applications (https://engineeringhardware.com/applications/bearing-lock-nuts-km/)**