What Are Bicycle Cleat Fixing Bolts Used For?

Bicycle Cleat Fixing Bolts are used for structural and machine joints that must be tightened to a controlled preload. They are manufactured to Trade series (bicycle cleat bolts), 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

Structural and machine joints that must be tightened to a controlled preload

Governing standard

Trade series (bicycle cleat bolts)

Thread size range

M5 to M5

Category

Bolts

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



Application guide for Bicycle Cleat Fixing Bolts to Trade series (bicycle cleat bolts). The core duty of the type is structural and machine joints that must be tightened to a controlled preload. The typical industries, the how-to-specify checklist, assembly practice and the exclusion cases are set out below. Stocked across roughly M5 to M5, they cover light-duty and instrument-scale work.

Typical Applications for Bicycle Cleat Fixing Bolts

The most common settings where these are specified:

Cycling footwear: M5 cleat screws attach road and two-bolt cleats to the shoe plate.

Bike fitting: Length follows the cleat, washer and shoe-stack thickness.

Service shops: 4 mm hex sets support controlled cleat replacement.

Performance cycling: Provisional torque is followed from the cleat and shoe instruction.

Product catalog

Related Bicycle Bolts products



(https://engineeringhardware.com/product/metal-oem-hot-dip-galvanized-l-j-type-7-type-concrete-foundation-anchor-bolt/)

Foundation & Anchor Bolts

Metal OEM Hot-DIP Galvanized L/J Type/7 Type Concrete Foundation Anchor Bolt (https://engineeringhardware.com/product/metal-oem-hot-dip-galvanized-l-j-type-7-type-concrete-foundation-anchor-bolt/)

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

US$0.83 – 2.39 MOQ 100 pieces



(https://engineeringhardware.com/product/carbon-steel-zinc-plated-4-8-foundation-heavy-duty-anchor-bolt-concrete/)

Foundation & Anchor Bolts

Carbon Steel Zinc Plated 4.8 Foundation Heavy-Duty Anchor Bolt Concrete (https://engineeringhardware.com/product/carbon-steel-zinc-plated-4-8-foundation-heavy-duty-anchor-bolt-concrete/)

Bonded Anchor Bolt · ANSI, BSW, DIN, GB, GOST

US$1.20 – 11.88 MOQ 1,000 pieces



(https://engineeringhardware.com/product/zinc-plated-galvanized-hdg-stainless-steel-j-u-shaped-anchor-bolt-for-strut-channel/)

Foundation & Anchor Bolts

Zinc Plated Galvanized/HDG/Stainless Steel J/U Shaped Anchor Bolt for Strut Channel (https://engineeringhardware.com/product/zinc-plated-galvanized-hdg-stainless-steel-j-u-shaped-anchor-bolt-for-strut-channel/)

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

US$0.12 – 1.04 MOQ 1,000 pieces



(https://engineeringhardware.com/product/heavy-duty-anchor-bolt-for-reliable-dog-rigging-solutions/)

Foundation & Anchor Bolts

Heavy-Duty Anchor Bolt for Reliable Dog Rigging Solutions
(https://engineeringhardware.com/product/heavy-duty-anchor-bolt-for-reliable-dog-rigging-solutions/)(https://engineeringhardware.com/product/heavy-duty-anchor-bolt-for-reliable-dog-rigging-solutions/)

Fasteners · Metal

US$0.60 – 36.00 MOQ 5,000 pieces



(https://engineeringhardware.com/product/carbon-steel-high-strength-l-shaped-anchor-bolt-foundation-bolts-with-nuts-and-washer/)

Foundation & Anchor Bolts

Carbon Steel High Strength L-Shaped Anchor Bolt Foundation Bolts with Nuts and Washer (https://engineeringhardware.com/product/carbon-steel-high-strength-l-shaped-anchor-bolt-foundation-bolts-with-nuts-and-washer/)

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

US$0.12 – 0.36 MOQ 10,000 pieces



(https://engineeringhardware.com/product/304-stainless-steel-rear-expanded-bottom-mechanical-anchor-bolt-single-tube-double/)

Foundation & Anchor Bolts

304 Stainless Steel Rear Expanded Bottom Mechanical Anchor Bolt Single Tube Double Tube Expansion Screws Rear Cut Heavy Duty Anchor Bolt M8-M16 (https://engineeringhardware.com/product/304-stainless-steel-rear-expanded-bottom-mechanical-anchor-bolt-single-tube-double/)

Round Head · DIN, ANSI, GB, JIS, BSW, GOST

US$0.012 MOQ 100 pieces

View all Foundation & Anchor Bolts → (https://engineeringhardware.com/fastener-products/anchors-construction-fixings/foundation-anchor-bolts/)

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

How to Specify Bicycle Cleat Fixing Bolts for Your Application

Size: Match the nominal size to the mating thread or hole. This product spans M5–M5; check the full table below for the exact dimensions of each size.

Strength class: Choose the property class (e.g. 8.8, 10.9, 12.9 or A2/A4 stainless) for the load and environment, and tighten to the matching torque so the joint relies on preload, not friction.

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 (bicycle cleat bolts). Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Installation & Assembly Practice

Tighten to the torque for the size and property class with a calibrated wrench — the joint is held by preload, not by the thread friction alone.

Ensure at least one full thread projects beyond the nut after tightening, and never re-use a bolt that has been tightened into yield.

Under slotted or oversized holes, fit a hardened washer so the preload does not relax into the hole edge.

Common Selection Mistakes with Bicycle Cleat Fixing Bolts

Specifying class 12.9 "to be safe" in a corrosive environment — high classes are more sensitive to hydrogen embrittlement and stress corrosion; 8.8 hot-dip galvanized often outlasts them outdoors.

Choosing a length that puts the shear plane through the threaded portion when a plain shank (partially threaded bolt) was available.

Mixing stainless bolts with plated-steel nuts: the joint loses its corrosion logic and can gall or seize.

Where Bicycle Cleat Fixing Bolts Are Not the Right Choice

Not for permanent joints that will never be opened (a rivet or weld is cheaper), and not where the head must sit flush — use a countersunk screw instead.

Custom manufacturing · Made to drawing

Need a bicycle cleat fixing bolts outside the standard range?

Material and finish are usually what drives a special — a grade the standard part is not stocked in, or a coating chosen against a salt-spray figure instead of a default. Made by cold heading or hot forging.

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

Custom bolt manufacturing (https://engineeringhardware.com/custom/bolts/)

Send a drawing (https://engineeringhardware.com/custom/bolts/#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 M5 Bicycle Cleat Fixing Bolts to Trade series (bicycle cleat bolts). 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.

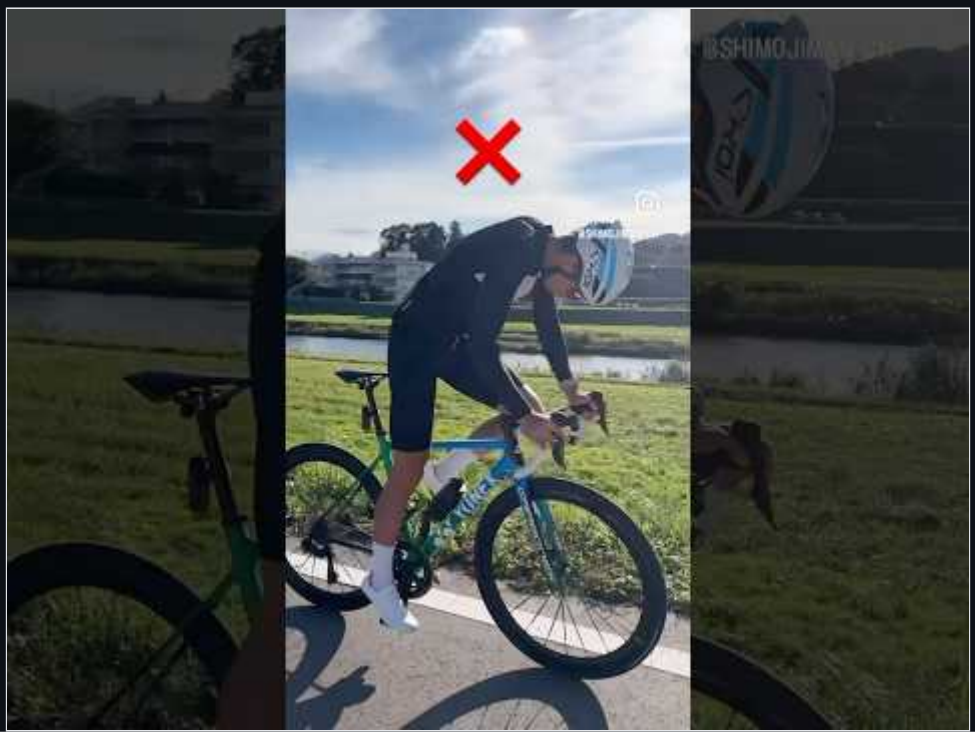
Request a Quote

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

Dimensions & Specifications (Trade series (bicycle cleat bolts))

Thread size	Length options (mm)	Drive	Typical cleat system	Provisional torque
M5	8 / 10 / 13.5	4 mm hex	road cleat hardware	
M5	about 12.5 example	4 mm hex	two-bolt cleat hardware	about 2.5 provisiona

Video: What Are Bicycle Cleat Fixing Bolts Used For? in use



► Watch video: https://www.youtube.com/watch?v=1uCl58cku3Y

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

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

What are Bicycle Cleat Fixing Bolts used for?

Structural and machine joints that must be tightened to a controlled preload. They are supplied to Trade series (bicycle cleat bolts).

Which industries use Bicycle Cleat Fixing Bolts?

They are commonly specified in service shops, performance cycling and cycling footwear, among other sectors.

How do I choose the right size of Bicycle Cleat Fixing Bolts?

Match the nominal size to the mating thread or hole. This product is available from M5 to M5; the full dimension table on this page lists each size.

How tight should Bicycle Cleat Fixing Bolts be torqued?

Tighten to the torque for the size and property class so the joint is held by bolt preload. The size pages and torque reference table give recommended values; use a calibrated torque wrench for anything structural.

Can I get a quote for Bicycle Cleat Fixing Bolts 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: Bicycle Cleat Fixing Bolts — specifications & sizes (https://engineeringhardware.com/fastener/bicycle-cleat-fixing-bolts/)

Bicycle Cleat Fixing Bolts Specification Guides

- **M5 Bicycle Cleat Fixing Bolts size guide (https://engineeringhardware.com/guide/size/m5-bicycle-cleat-fixing-bolts/)**
- **A4 stainless Bicycle Cleat Fixing Bolts (https://engineeringhardware.com/guide/material/a4-stainless-steel-bicycle-cleat-fixing-bolts/)**

Related Fastener Applications

- **12-Point Flange Screws applications (https://engineeringhardware.com/applications/twelve-point-flange-screws/)**
- **Anchor Rods (ASTM F1554) applications (https://engineeringhardware.com/applications/anchor-rods-astm-f1554/)**
- **Bicycle Bottle-Cage, Rack and Fender Bolts applications (https://engineeringhardware.com/applications/bicycle-bottle-cage-rack-and-fender-bolts/)**
- **Bicycle Brake Caliper Mounting Bolts applications (https://engineeringhardware.com/applications/bicycle-brake-caliper-mounting-bolts/)**
- **Bicycle Disc Brake Rotor Bolts applications (https://engineeringhardware.com/applications/bicycle-disc-brake-rotor-bolts/)**
- **Bicycle Stem and Headset Bolts applications (https://engineeringhardware.com/applications/bicycle-stem-and-headset-bolts/)**