

What Are Clamping Handle Screw (Short) Used For?

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Fasteners Bolts Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) Applications

Bolts · DIN 6336 / GN 313 · Application guide

Typical applications, the industries that specify clamping handle screw (short), and how to choose the right size, material and finish for the joint.

Clamping Handle Screw (Short) are used for structural and machine joints that must be tightened to a controlled preload. They are manufactured to DIN 6336 / GN 313, 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

DIN 6336 / GN 313

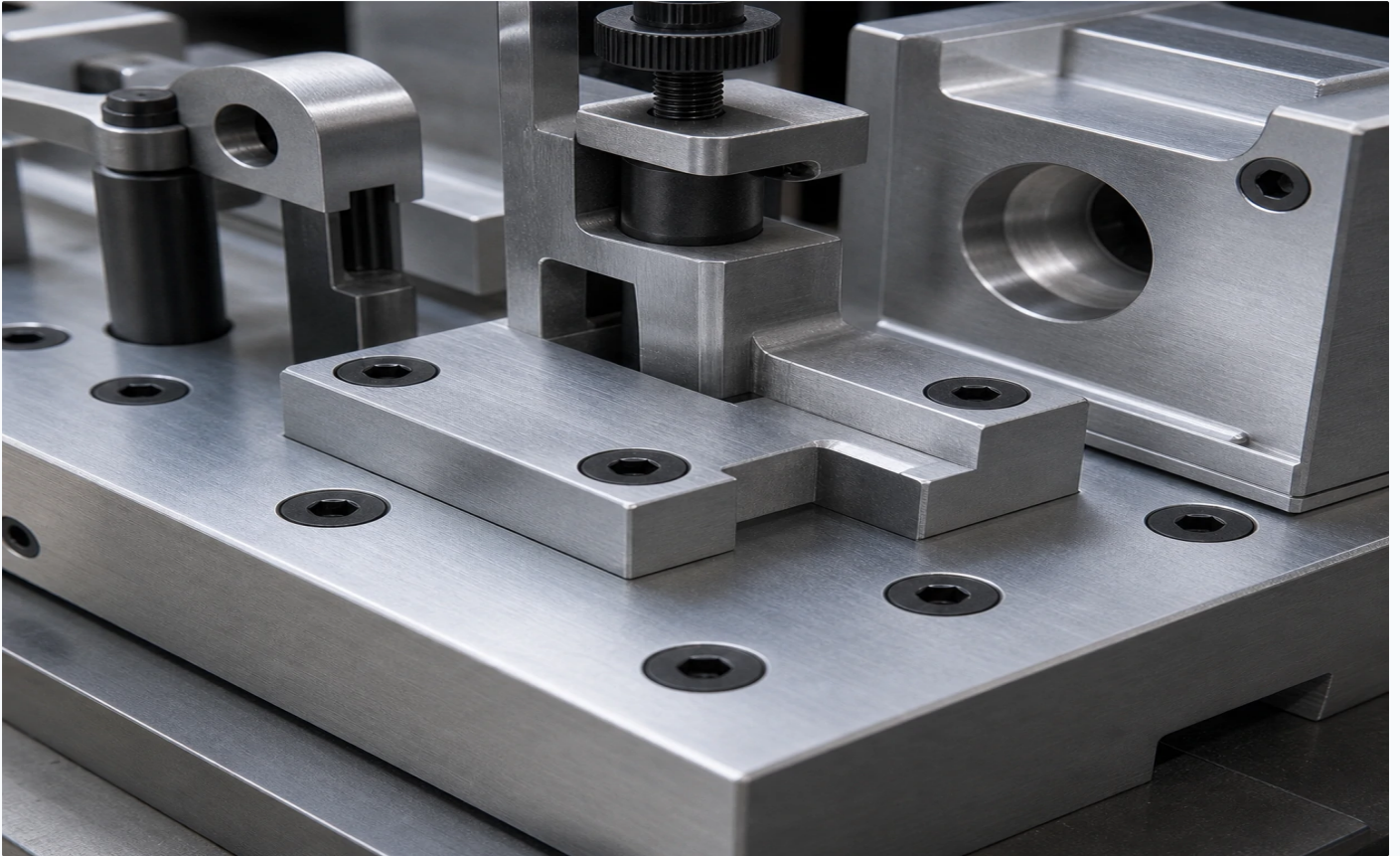
Thread size range

M5 to M12

Category

Bolts

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



The primary duty of Clamping Handle Screw (Short) is structural and machine joints that must be tightened to a controlled preload. Below: the sectors that specify them in volume, the checklist used to select the right size and material for the application, installation notes, and the known limits of the type. Stocked across roughly M5 to M12, they cover general to heavy-duty work.

Typical Applications for Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042)

The most common settings where these are specified:

- **Energy & infrastructure:** tower, pylon and pipework supports exposed to weather and long service life.
- **General machine building:** fastening covers, brackets, motors and sub-assemblies on production equipment.
- **Maintenance & repair (MRO):** a stocked size for servicing existing plant where the original fastener spec must be matched.
- **Fabrication & metalwork:** bench and on-site assembly of steel frames, enclosures and weldments.
- **Structural steel:** bolting beams, base plates and bracing where a defined preload and property class are required.

How to Specify Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) for Your Application

- **Size:** Match the nominal size to the mating thread or hole. This product spans M5–M12; 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 DIN 6336 / GN 313. 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 Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042)

- 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 Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) 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.

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.

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 (DIN 6336 / GN 313)

Thread size	Pitch (mm)	Length L (mm)	Handle length (mm)	Knob diameter (mm)	Reference standard
M5	0.8	20	45	28	DIN 6336 / GN 313
M6	1.0	25	50	32	DIN 6336 / GN 313
M8	1.25	30	60	40	DIN 6336 / GN 313
M10	1.5	40	70	45	DIN 6336 / GN 313
M12	1.75	50	80	50	DIN 6336 / GN 313

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.

1.



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.



2.

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.

3.



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.

4.



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

How do I choose the right size of Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042)?

Match the nominal size to the mating thread or hole. This product is available from M5 to M12; the full dimension table on this page lists each size.

How tight should Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) 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.

What material should Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) 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 Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) made to a recognized standard?

Yes — they are manufactured to DIN 6336 / GN 313, so dimensions are interchangeable between suppliers when you quote the standard on your order.

Can I get a quote for Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) 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: [Clamping Handle Screw \(Short\) — DIN 6336 / GN 313 \(Series 042\) — specifications & sizes](#)

Clamping Handle Screw (Short) — DIN 6336 / GN 313 (Series 042) Specification Guides

- [M5 Clamping Handle Screw \(Short\) — DIN 6336 / GN 313 \(Series 042\) size guide](#)
- [A4 stainless Clamping Handle Screw \(Short\) — DIN 6336 / GN 313 \(Series 042\)](#)

Related Fastener Applications

- [Carriage Bolts applications](#)
- [Clamping Handle Screw \(Long\) — DIN 6336 / GN 313 \(Series 044\) applications](#)
- [Clamping Handle Screw \(Medium\) — DIN 6336 / GN 313 \(Series 043\) applications](#)
- [Equal-End Stud Bolt — GB/T 901 / DIN 939 \(Series 093\) applications](#)
- [Eye Bolts applications](#)
- [Hex Bolt — GB/T 5782 / ISO 4014 \(Series 006\) applications](#)