What Are One-Piece Clamp Shaft Collars Used For?

One-Piece Clamp Shaft Collars are used for the mechanical function defined by its drawing and dimensional table. They are manufactured to Trade series (one-piece clamp-type shaft collars), and selection is driven by the bore diameter, the fit and tolerance the assembly requires, and the service environment.

Primary duty

The mechanical function defined by its drawing and dimensional table

Governing standard

Trade series (one-piece clamp-type shaft collars)

Bore diameter range

6 mm to 40 mm

Category

Shaft Collars

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



The primary duty of One-Piece Clamp Shaft Collars is the mechanical function defined by its drawing and dimensional table. 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 6 mm to 40 mm, they cover general to heavy-duty work.

Typical Applications for One-Piece Clamp Shaft Collars

The most common settings where these are specified:

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.

Product catalog

Related Clamp Shaft Collars products



(https://engineeringhardware.com/product/heavy-duty-t-bolt-hose-clamp-color-zinc-plated-carbon-steel-high-torque-pipe-hoop/)

Hose Clamps & Band Clamps

Heavy Duty T-Bolt Hose Clamp Color Zinc Plated Carbon Steel High Torque Pipe Hoop for Truck Exhaust
(https://engineeringhardware.com/product/heavy-duty-t-bolt-hose-clamp-color-zinc-plated-carbon-steel-high-torque-pipe-hoop/)

Standard · Stainless Steel

US$0.036 – 0.048 MOQ 1,000 pieces



(https://engineeringhardware.com/product/w1-zinc-plated-steel-worm-gear-adjustable-heavy-duty-t-bolt-hose-clip-for-exhaust-6/)

Hose Clamps & Band Clamps

W1 Zinc Plated Steel Worm Gear Adjustable Heavy Duty T Bolt Hose Clip for Exhaust with Single Bolt, 30mm Bandwidth, 68-73mm
(https://engineeringhardware.com/product/w1-zinc-plated-steel-worm-gear-adjustable-heavy-duty-t-bolt-hose-clip-for-exhaust-6/)

Heavy Duty Hose Clip · DIN, GB

US$0.36 – 0.60 MOQ 1,000 pieces

TJBC®



(https://engineeringhardware.com/product/adjustable-non-perforated-worm-drive-british-type-304ss-stainless-steel-hose-clamp-9/)

Hose Clamps & Band Clamps

Adjustable Non-Perforated Worm Drive British Type 304ss Stainless Steel Hose Clamp with Color Head Tube Housing, Range 277–307mm
(https://engineeringhardware.com/product/adjustable-non-perforated-worm-drive-british-type-304ss-stainless-steel-hose-clamp-9/)

Worm Gear Hose Clamp · DIN, GB

US$0.12 – 0.36 MOQ 1,000 pieces



(https://engineeringhardware.com/product/t-bolt-hose-clamp-304-stainless-steel-double-head-adjustable-intake-radiator-tube/)

Hose Clamps & Band Clamps

T-Bolt Hose Clamp 304 Stainless Steel Double Head Adjustable Intake Radiator Tube Clamps for Automotive Plumbing
(https://engineeringhardware.com/product/t-bolt-hose-clamp-304-stainless-steel-double-head-adjustable-intake-radiator-tube/)

Double Bolt Double Band Pipe Clamp · W1/W4/W5

US$0.28 – 0.30MOQ 100 pieces



(https://engineeringhardware.com/product/high-quality-stainless-steel-mini-spring-band-type-hose-clamps-high-pressure/)

Hose Clamps & Band Clamps

High Quality Stainless Steel Mini Spring Band Type Hose Clamps High Pressure Adjustable Ring Pinch Metal Hose Clamps/Spring Clip (https://engineeringhardware.com/product/high-quality-stainless-steel-mini-spring-band-type-hose-clamps-high-pressure/)

Standard · Stainless Steel

US$0.012 – 0.06 MOQ 500 pieces

TJBC®



(https://engineeringhardware.com/product/adjustable-non-perforation-worm-drive-british-type-stainless-steel-hose-clamp-with/)

Hose Clamps & Band Clamps

Adjustable Non-Perforation Worm Drive British Type Stainless Steel Hose Clamp with Riveted Housing for Automotive, 160-180mm
(https://engineeringhardware.com/product/adjustable-non-perforation-worm-drive-british-type-stainless-steel-hose-clamp-with/)

Worm Gear Hose Clamp · DIN, GB

US$0.12 – 0.36 MOQ 1,000 pieces

View all Hose Clamps & Band Clamps →
(https://engineeringhardware.com/fastener-products/clamps-clips-cable-ties/hose-clamps-band-clamps/)

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

How to Specify One-Piece Clamp Shaft Collars for Your Application

Size: Select on bore diameter, and confirm it against the mating feature in the assembly. This product spans 6 mm–40 mm; check the full table below for the exact dimensions of each size.

Material: Choose the material and finish for the service environment — plated steel for general use, stainless for corrosion resistance.

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 (one-piece clamp-type shaft collars). Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Where One-Piece Clamp Shaft Collars Are Not the Right Choice

Match the fastener to the load, environment and whether the joint must be reopened; the wrong class or style is the usual cause of joint failure.

Custom manufacturing · Made to drawing

Need a one-piece clamp shaft collars outside the standard range?

A non-standard shaft collar is quoted from the drawing; where one already exists in the catalog, the special is usually a variation on its tooling. Made by thread turning or turning.

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

Custom shaft collar manufacturing (https://engineeringhardware.com/custom/shaft-collars/)

Send a drawing (https://engineeringhardware.com/custom/shaft-collars/#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 6 One-Piece Clamp Shaft Collars to Trade series (one-piece clamp-type shaft collars). 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 (one-piece clamp-type shaft collars))

Bore (mm)	Outside diameter (mm)	Width (mm)	Clamp screw
6	18	9	M3 socket head cap screw
8	20	9	M3 socket head cap screw
10	24	11	M4 socket head cap screw
12	26	11	M4 socket head cap screw
15	32	14	M5 socket head cap screw
16	34	14	M5 socket head cap screw
20	40	15	M5 socket head cap screw
25	45	15	M6 socket head cap screw
30	54	18	M6 socket head cap screw
35	60	18	M8 socket head cap screw
40	66	20	M8 socket head cap screw

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

How do I choose the right size of One-Piece Clamp Shaft Collars?

Select on bore diameter and on the fit the assembly requires. This product is available from 6 mm to 40 mm; the full dimension table on this page lists each size.

What material should One-Piece Clamp Shaft Collars 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 One-Piece Clamp Shaft Collars made to a recognized standard?

Yes — they are manufactured to Trade series (one-piece clamp-type shaft collars), so dimensions are interchangeable between suppliers when you quote the standard on your order.

What are One-Piece Clamp Shaft Collars used for?

The mechanical function defined by its drawing and dimensional table. They are supplied to Trade series (one-piece clamp-type shaft collars).

Can I get a quote for One-Piece Clamp Shaft Collars 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: One-Piece Clamp Shaft Collars — specifications & sizes (https://engineeringhardware.com/fastener/one-piece-clamp-shaft-collars/)

One-Piece Clamp Shaft Collars Specification Guides

- **A4 stainless One-Piece Clamp Shaft Collars (https://engineeringhardware.com/guide/material/a4-stainless-steel-one-piece-clamp-shaft-collars/)**

Related Fastener Applications

- **Set Screw Shaft Collars applications (https://engineeringhardware.com/applications/set-screw-shaft-collars-din-705a/)**
- **Threaded Shaft Collars applications (https://engineeringhardware.com/applications/threaded-shaft-collars/)**
- **Two-Piece Clamp Shaft Collars applications (https://engineeringhardware.com/applications/two-piece-clamp-shaft-collars/)**