

Clevis Pin (Series 101)

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Clevis Pin are catalogued in dia 3-20 mm, with long 16-100 mm, head 5-28 mm. 9 sizes are held in the table below, and the technical drawing redraws to whichever row you select.

Dia

3-20 mm

Long

16-100 mm

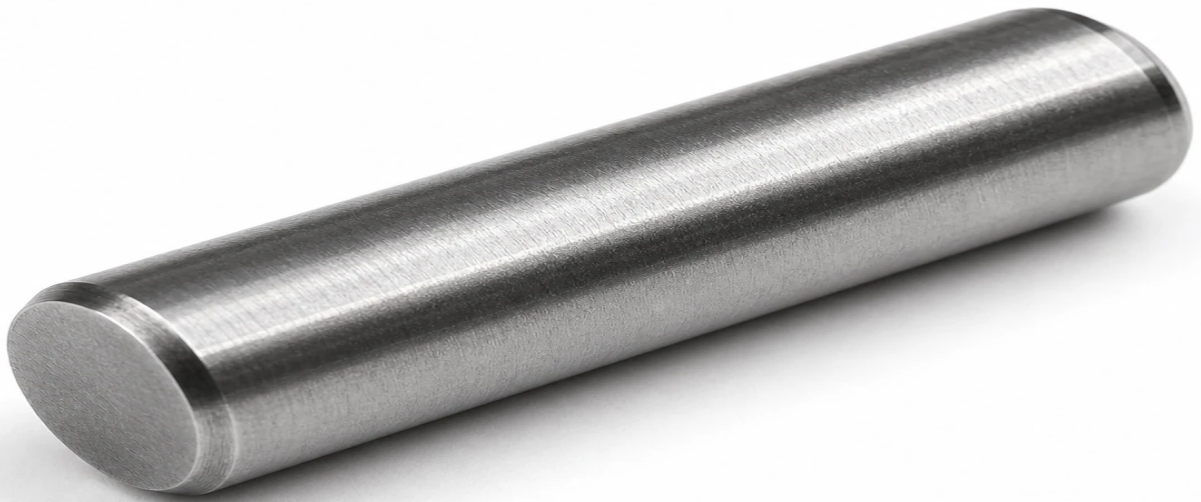
Head

5-28 mm

Catalogued sizes

9

Dimensions are nominal values from the governing standard. Confirm the tolerance class for your application before ordering.



Materials & Grades

Select a material class to see the grades we supply it in. Each designation is listed with its ISO/EN, AISI/SAE, JIS and GB equivalents.

Stainless Steel

Carbon Steel66

Alloy Steel41

Bearing Steel5

Spring Steel25

Aluminum and Aluminum Alloys21

Brass17

Bronze11

Copper8

Titanium and Titanium Alloys18

Nickel and Nickel Alloys22

Iron-Nickel and High-Temperature Alloys10

Tool Steel and Specialty Hardened Steel9

Structural and Construction Steel9

Stainless Steel

Austenitic Stainless Steel

A1

AISI 303 · SAE 303 · SUS303 · EN 1.4305 · X8CrNiS18-9

A2

AISI 304 · SAE 304 · SUS304 · EN 1.4301 · X5CrNi18-10 · 06Cr19Ni10

304L

AISI 304L · SUS304L · EN 1.4307 · X2CrNi18-9 · 022Cr19Ni10

302

AISI 302 · SUS302 · EN 1.4310

305

AISI 305 · SUS305 · EN 1.4303

A4

AISI 316 · SAE 316 · SUS316 · EN 1.4401 · X5CrNiMo17-12-2 · 06Cr17Ni12Mo2

316L

AISI 316L · SUS316L · EN 1.4404 · X2CrNiMo17-12-2 · 022Cr17Ni12Mo2

321

AISI 321 · SUS321 · EN 1.4541 · X6CrNiTi18-10

310 / 310S

AISI 310 · AISI 310S · SUS310S · EN 1.4845

302HQ

AISI 302HQ

A3**A5****347**

AISI 347 · SUS347 · EN 1.4550 · X6CrNiNb18-10

309 / 309S

AISI 309 · AISI 309S · SUS309S

Martensitic Stainless Steel**AISI 410**

SUS410 · EN 1.4006 · X12Cr13 · 12Cr13

AISI 420

SUS420J1 · SUS420J2 · EN 1.4021 · EN 1.4028 · 20Cr13 · 30Cr13

AISI 431

SUS431 · EN 1.4057 · X17CrNi16-2

C1**C3****C4****AISI 440A****AISI 440B****AISI 440C**

SUS440C · EN 1.4125

Ferritic Stainless Steel

AISI 430

SUS430 · EN 1.4016 · X6Cr17 · 10Cr17

F1

AISI 434

AISI 444

Precipitation-Hardening Stainless Steel

17-4 PH

AISI 630 · UNS S17400 · SUS630 · EN 1.4542 · X5CrNiCuNb16-4

15-5 PH

UNS S15500

17-7 PH

UNS S17700

Duplex and Super Duplex Stainless Steel

Duplex 2205

UNS S31803 · UNS S32205 · EN 1.4462

Super Duplex 2507

UNS S32750 · EN 1.4410

D2

D4

D6

D8

Lean Duplex 2101

UNS S32101

Super Duplex S32760

UNS S32760 · EN 1.4501

Carbon Steel

Low-Carbon Steel

SAE 1006**SAE 1008****SAE 1010****SAE 1018****SAE 1020****Q195****Q235****SAE 1012****SAE 1015****Q215****ML08****ML08AI****ML10****ML15****ML20****SWRCH6A****SWRCH8A****SWRCH10A****SWRCH12A****SWRCH15A****SWRCH18A**

Medium-Carbon Steel

SAE 1035

SAE 1045**S45C****C45****SAE 1030****SAE 1040****SAE 1050****30****35****40****45****50****S35C****S40C****S50C****C35****C40**

High-Carbon Steel

SAE 1060**SAE 1070****65Mn****SAE 1065****SAE 1075****SAE 1080****SAE 1085****SAE 1090****SAE 1095****60**

65**70****75****80****85**

Cold-Heading Steel

SWRCH22A**10B21****SWRCH22K****SWRCH25K****SWRCH30K****SWRCH35K****SWRCH40K****ML20Mn****ML25****ML30****ML35****ML40****15B25**

Alloy Steel

Chromium Steel

40Cr**45Cr****AISI 5140**

SAE 5140**AISI 5120****SAE 5120****SCr420****SCr440****Chromium-Molybdenum Steel****35CrMo****42CrMo****AISI 4140****SCM435****SCM440****42CrMo4****30CrMo****AISI 4130****SAE 4130****SAE 4140****AISI 4142****AISI 4145****SCM415****SCM420****SCM445****EN 1.7220****EN 1.7225****25CrMo4****34CrMo4**

Nickel-Chromium-Molybdenum Steel

AISI 4340**SAE 4340****40CrNiMo****SNCM439****EN 1.6511****36CrNiMo4**

Boron Alloy Steel

10B22**10B21****15B21****15B25****20MnTiB****20Mn2B****35VB****40MnB**

Bearing Steel

Bearing Steel

GCr15**AISI 52100****SAE 52100 · UNS G52986****SUJ2****100Cr6****EN 1.3505****GCr15SiMn**

Spring Steel

Carbon Spring Steel

SAE 1065**SAE 1070****SAE 1075****SAE 1080****SAE 1095****65****70****75****80****65Mn**

Silicon-Manganese Spring Steel

60Si2Mn**60Si2MnA****SUP6****SUP7**

Chromium-Vanadium Spring Steel

50CrVA**SAE 6150****AISI 6150****SUP10**

Stainless Spring Steel

AISI 301**SUS301**

EN 1.4310**AISI 302****AISI 304****AISI 316****17-7 PH**

Aluminum and Aluminum Alloys

Commercially Pure Aluminum

1050**1060****1070****1100**

2xxx Series Aluminum

2024**2011****2014****2017**

5xxx Series Aluminum

5052**5083****5754**

6xxx Series Aluminum

6061**6061-T6**

6063**6082****6082-T6****7xxx Series Aluminum****7075****7075-T6****7005****7050****7075-T73****Brass****Free-Cutting Brass****C36000****H62****HPb59-1****C3601****C3602****C3604****CuZn36Pb3****CuZn39Pb3****EN CW614N****EN CW617N****H65****Lead-Free Brass****C69300**

C27450**CW510L****CW511L****Naval Brass****C46400****CuZn39Sn1****Bronze****Silicon Bronze****C65500****C65100****C65600****Phosphor Bronze****C51000****C52100****CuSn6****CuSn8****Aluminum Bronze****C95400****C95500****C63000****CuAl10Ni5Fe4**

Copper

Copper

C11000**T2****C10100****C10200****C12200****T1****TU1****TU2**

Titanium and Titanium Alloys

Commercially Pure Titanium

Grade 2**Grade 1****Grade 3****Grade 4****TA1****TA2****TA3**

Alpha-Beta Titanium Alloys

Grade 5**Ti-6Al-4V****TC4****UNS R56400**

Low-Interstitial Grade

Grade 23

Ti-6Al-4V ELI

UNS R56407

Other Titanium Fastener Alloys

Ti-6Al-6V-2Sn

Ti-6Al-2Sn-4Zr-2Mo

Beta-C titanium

Ti-10V-2Fe-3Al

Nickel and Nickel Alloys

Commercially Pure Nickel

Nickel 200

UNS N02200

Nickel 201

UNS N02201

Inconel Alloys

Inconel 625

UNS N06625

Inconel 718

UNS N07718

Inconel 600

UNS N06600

Inconel 601

UNS N06601

Inconel 686

UNS N06686**Inconel X-750****UNS N07750****Monel Alloys****Monel 400****UNS N04400****Monel K-500****UNS N05500****Hastelloy Alloys****Hastelloy C-276****UNS N10276****Hastelloy C-22****UNS N06022****Hastelloy B-2****UNS N10665****Hastelloy B-3****UNS N10675****Hastelloy X****UNS N06002****Other Nickel Alloys****Alloy 20****UNS N08020****Alloy 625****Alloy 718****Alloy 825****UNS N08825****Alloy 925****UNS N09925**

Iron-Nickel and High-Temperature Alloys

A286

A-286

UNS S66286

EN 1.4980

Invar

Invar 36

Alloy 36

UNS K93600

FeNi36

Alloy 42

Alloy 42

UNS K94100

FeNi42

Tool Steel and Specialty Hardened Steel

Tool Steel and Specialty Hardened Steel

AISI D2

AISI H13

SKD11

Cr12MoV

AISI O1

AISI A2

AISI S7

SKD61**9CrSi**

Structural and Construction Steel

Structural and Construction Steel

ASTM A36**Q235B****Q355B****S355JR****Q235C****Q355C****S235JR****S275JR****S355J2**

Applications & Industries

Clevis Pin are bought for a small number of well-defined jobs. These are the ones we ship them for. Stocked from 3 to 20 (nominal diameter).

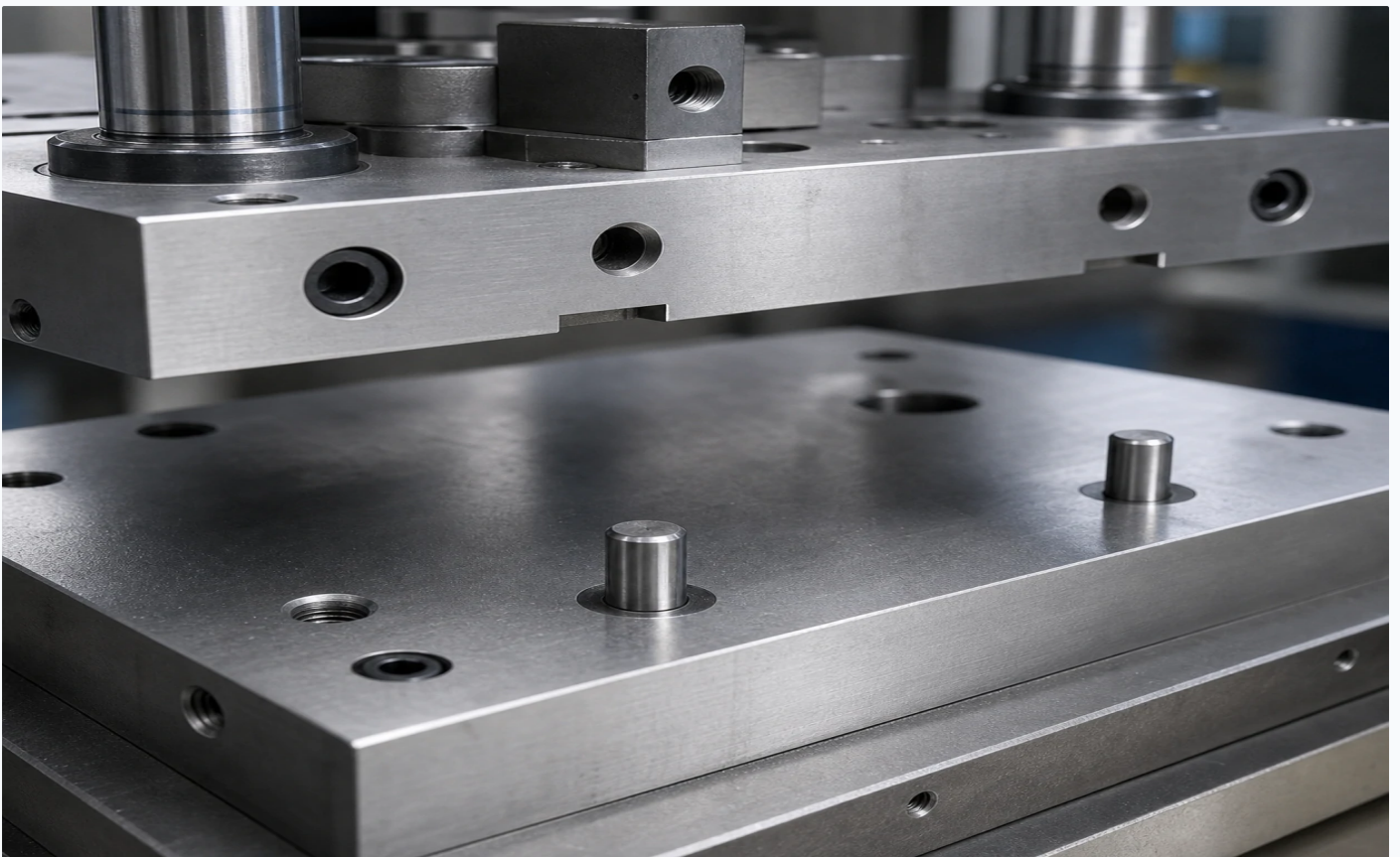
Industries that specify Clevis Pin

Gearboxes & housings Dowelled joints where the bolts clamp and the pins locate.

Jigs, tooling & fixtures Locating plates and tooling so they reassemble in the same position.

Machine building Hinges, pivots and linkages carrying light to moderate shear.

Agricultural & plant Implement connections made and broken in the field.



Typical applications

- quick connections made and broken by hand
- locating two parts to a repeatable position
- pivot and hinge joints loaded in shear

Service conditions to specify against

Marine and coastal

Available in A4 (316) stainless for chloride exposure — coastal structures, pool halls, water treatment and deck hardware, where A2 will eventually pit.

Hole preparation

The hole is half the specification: a ground dowel needs a reamed H7 hole, a grooved or spring pin will hold in a drilled one.

Full application guide: where Clevis Pin are used, how to specify them, and the cases they are wrong for (<https://engineeringhardware.com/applications/cad-svg-101-clevispin/>)

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 3 Clevis Pin — ISO / DIN (Series 101). 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 Quotation for Clevis Pin (Series 101)

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

Dimensions & Specifications (ISO / DIN)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

Nominal diameter (mm)	Length L (mm)	Head diameter (mm)	Cotter pin hole (mm)	M
3	16	5	1.0	C
4	20	7	1.2	C
5	25	8	1.6	C
6	32	10	1.6	C
8	40	12	2.0	C
10	50	15	2.5	C
12	63	18	3.2	C
16	80	22	4.0	C
20	100	28	4.0	C

Clevis Pin — ISO / DIN (Series 101) are pins manufactured to ISO / DIN. This page lists the full dimensional range with the key specifications engineers need to select and specify them.

What Are Clevis Pin — ISO / DIN (Series 101)?

Clevis Pin — ISO / DIN (Series 101) are pins defined by ISO / DIN. They are selected by nominal diameter and the dimensional characteristics shown below, and are available in

a range of materials and finishes to suit the application and environment.

CAD Source Reference

This page is generated from an original native CAD part model (SolidWorks .SLDPRT) of the clevis pin — iso / din (series 101) family maintained by our engineering team, covering 8 recorded size configurations. The technical drawing shown above is rebuilt parametrically from the dimensional table, so it always reflects the exact size and configuration you select. Native CAD files (STEP / SLDPRT) can be supplied with your quotation on request.

Materials & Finishes

Common materials include carbon steel (typically zinc plated or hot-dip galvanized), hardened or case-hardened steel where wear matters, and stainless steel A2 (304) or A4 (316) for corrosion resistance. Specify the material, hardness where relevant, and the surface finish appropriate to your application and environment.

Specification Guides

Each size, material and standard of Clevis Pin — ISO / DIN (Series 101) has its own reference page with the figures for that one configuration.

Goes With

Hardware commonly specified alongside Clevis Pin — ISO / DIN (Series 101).

Pricing

Clevis Pin — ISO / DIN (Series 101) are supplied to order. Pricing starts from approximately US\$0.040 per piece for standard sizes in carbon steel; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Custom manufacturing • Made to drawing

Need a clevis pin outside the standard range?

End form, hardness and surface finish are all variable; the diameter tolerance is the one that decides the process. Made by cold heading or turning.

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

Custom pin manufacturing (<https://engineeringhardware.com/custom/pins/>)

Send a drawing (<https://engineeringhardware.com/custom/pins/#rfq>)

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.



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.

Video: Clevis Pin



<https://www.youtube.com/watch?v=GiVgGZE2ihg>

► Watch video: <https://www.youtube.com/watch?v=GiVgGZE2ihg>

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.

Frequently Asked Questions

What is the controlling standard for Clevis Pin — ISO / DIN (Series 101)?

Clevis Pin — ISO / DIN (Series 101) are manufactured to ISO / DIN. The dimensional values on this page follow that standard.

What sizes are available for Clevis Pin — ISO / DIN (Series 101)?

The table on this page lists 9 sizes for Clevis Pin — ISO / DIN (Series 101), ranging from 3 to 20. Sizes outside the table can be quoted on request.

In which materials are Clevis Pin — ISO / DIN (Series 101) supplied?

Clevis Pin — ISO / DIN (Series 101) are supplied in hardened alloy steel and stainless, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for Clevis Pin — ISO / DIN (Series 101).

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from Engineering Hardware will respond within one business day.