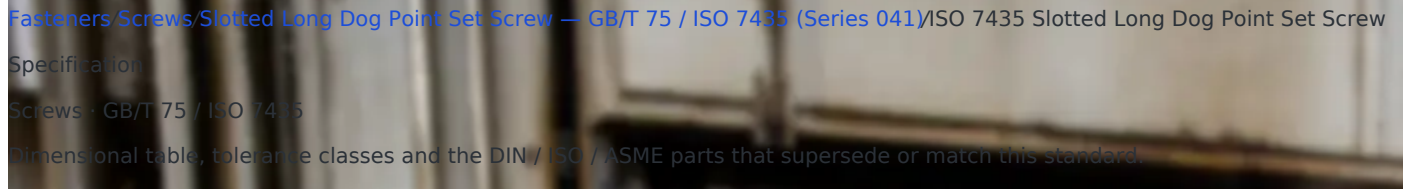


# ISO 7435 Slotted Long Dog Point Set Screw Specification

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[Fasteners Screws/Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 \(Series 041\)](#)ISO 7435 Slotted Long Dog Point Set Screw Specification  
Screws · GB/T 75 / ISO 7435  
Dimensional table, tolerance classes and the DIN / ISO / ASME parts that supersede or match this standard.

ISO 7435 specifies the dimensions and tolerances for slotted long dog point set screw. The full dimensional table is reproduced below, followed by the DIN, ISO and ASME parts that match or supersede it.

## Standard

ISO 7435

## Product

Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 (Series 041)

## Governing standards

GB/T 75 / ISO 7435

Equivalence between national standards is dimensional, not always metallurgical. Check the property class separately when substituting.



For slotted long dog point set screw, ISO 7435 defines the dimensions, tolerances and product grades. The sections below describe the scope of the document, the properties it deliberately leaves to companion standards, and the equivalent designations across standards bodies.

## ISO 7435 — Scope

ISO 7435 specifies the dimensions and tolerances of slotted long dog point set screw — gb/t 75 / iso 7435 (series 041). Material, property class, surface finish and packaging are governed by separate documents in the same standards family (for example ISO 898-1 for the mechanical property classes of bolts and screws).

## Tolerance & Product Grades

ISO 7435, alongside the related GB/T 75 / ISO 7435 entries on this site, specifies product grades (typically A or B for fine work and C for general engineering) and tolerance classes for the controlling dimensions. Choose the grade against the precision your application requires.

## Dimensions Specified by ISO 7435

| Size | Pitch<br>(mm) | Length L<br>(mm) | Hex socket s<br>(mm) | Engagement depth t min<br>(mm) | Point diameter dp<br>(mm) | Reference standard         |
|------|---------------|------------------|----------------------|--------------------------------|---------------------------|----------------------------|
| M3   | 0.5           | 6                | 1.5                  | 1.4                            | 2.0                       | ISO 4026-4029 / GB/T 77-79 |
| M4   | 0.7           | 6                | 2.0                  | 2.0                            | 2.5                       | ISO 4026-4029 / GB/T 77-79 |
| M5   | 0.8           | 7                | 2.5                  | 2.5                            | 3.5                       | ISO 4026-4029 / GB/T 77-79 |
| M6   | 1.0           | 9                | 3.0                  | 3.0                            | 4.0                       | ISO 4026-4029 / GB/T 77-79 |
| M8   | 1.25          | 12               | 4.0                  | 4.0                            | 5.5                       | ISO 4026-4029 / GB/T 77-79 |
| M10  | 1.5           | 15               | 5.0                  | 5.0                            | 7.0                       | ISO 4026-4029 / GB/T 77-79 |
| M12  | 1.75          | 18               | 6.0                  | 6.0                            | 8.5                       | ISO 4026-4029 / GB/T 77-79 |
| M16  | 2.0           | 24               | 8.0                  | 8.0                            | 12.0                      | ISO 4026-4029 / GB/T 77-79 |
| M20  | 2.5           | 30               | 10.0                 | 10.0                           | 15.0                      | ISO 4026-4029 / GB/T 77-79 |
| M24  | 3.0           | 36               | 12.0                 | 12.0                           | 18.0                      | ISO 4026-4029 / GB/T 77-79 |

## Equivalent Standards

Where direct equivalents exist (ISO ↔ DIN, ISO ↔ ASME), they are listed on the parent Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 (Series 041) page. Always confirm against the dimensions on this page, since some "equivalent" standards differ in tolerances and head geometry.

## Companion Standards

ISO 7435 controls only the geometry of slotted long dog point set screw — gb/t 75 / iso 7435 (series 041). The mechanical strength is set by ISO 898-1 (bolts and screws) or ISO 898-2 (nuts); the surface finish is governed by separate finish standards (e.g. ISO 4042 for electroplating). For corrosion testing, the relevant document is ISO 9227 (neutral salt spray).

## 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 (GB/T 75 / ISO 7435)

| Size | Pitch<br>(mm) | Length L<br>(mm) | Hex socket s<br>(mm) | Engagement depth t min<br>(mm) | Point diameter dp<br>(mm) | Reference standard         |
|------|---------------|------------------|----------------------|--------------------------------|---------------------------|----------------------------|
| M3   | 0.5           | 6                | 1.5                  | 1.4                            | 2.0                       | ISO 4026-4029 / GB/T 77-79 |
| M4   | 0.7           | 6                | 2.0                  | 2.0                            | 2.5                       | ISO 4026-4029 / GB/T 77-79 |
| M5   | 0.8           | 7                | 2.5                  | 2.5                            | 3.5                       | ISO 4026-4029 / GB/T 77-79 |
| M6   | 1.0           | 9                | 3.0                  | 3.0                            | 4.0                       | ISO 4026-4029 / GB/T 77-79 |
| M8   | 1.25          | 12               | 4.0                  | 4.0                            | 5.5                       | ISO 4026-4029 / GB/T 77-79 |
| M10  | 1.5           | 15               | 5.0                  | 5.0                            | 7.0                       | ISO 4026-4029 / GB/T 77-79 |
| M12  | 1.75          | 18               | 6.0                  | 6.0                            | 8.5                       | ISO 4026-4029 / GB/T 77-79 |
| M16  | 2.0           | 24               | 8.0                  | 8.0                            | 12.0                      | ISO 4026-4029 / GB/T 77-79 |
| M20  | 2.5           | 30               | 10.0                 | 10.0                           | 15.0                      | ISO 4026-4029 / GB/T 77-79 |
| M24  | 3.0           | 36               | 12.0                 | 12.0                           | 18.0                      | ISO 4026-4029 / GB/T 77-79 |

## 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](#)[38 Carbon Steel](#)[66 Alloy Steel](#)[41 Bearing Steel](#)[5 Spring Steel](#)[25 Aluminum and Aluminum Alloys](#)[21 Brass](#)[17 Bronze](#)[11 Copper](#)[8 Titanium and Titanium Alloys](#)[18 Nickel and Nickel Alloys](#)[22 Iron-Nickel and High-Temperature Alloys](#)[10 Tool Steel and Specialty Hardened Steel](#)[9 Structural and Construction Steel](#)[9](#)

### 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

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

What product grades does ISO 7435 define?

ISO 7435 typically distinguishes product grades for precision (A/B) and general engineering (C). The selection for Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 (Series 041) depends on the precision your application requires.

Does ISO 7435 specify the mechanical strength?

No. ISO 7435 controls only the geometry of slotted long dog point set screw — gb/t 75 / iso 7435 (series 041). The mechanical strength is set by ISO 898-1 (bolts / screws) or ISO 898-2 (nuts), and the finish is governed by separate standards.

Can I substitute ISO 7435 for the corresponding DIN standard on a drawing?

On modern drawings the ISO standard is the master reference; the older DIN equivalent is a cross-reference. For most dimensional purposes the parts are interchangeable, but check tolerance grades and the head height — these are the most common points of

divergence.

Which edition of ISO 7435 does this table follow?

The table reproduces the dimensions we supply slotted long dog point set screw — gb/t 75 / iso 7435 (series 041) to. We do not publish an edition year against it, so where the edition is contractually significant, cite the edition you require on the enquiry and we will confirm it against the table before quoting.

How do I request a quotation?

Use the technical drawing on this page to pick the exact configuration, then submit it with the quote form. We respond within one business day.

## Related Pages

[View the full Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 \(Series 041\) page](#)

### More Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 (Series 041) Guides

- [GB/T 75 Slotted Long Dog Point Set Screw — GB/T 75 / ISO 7435 \(Series 041\)](#)