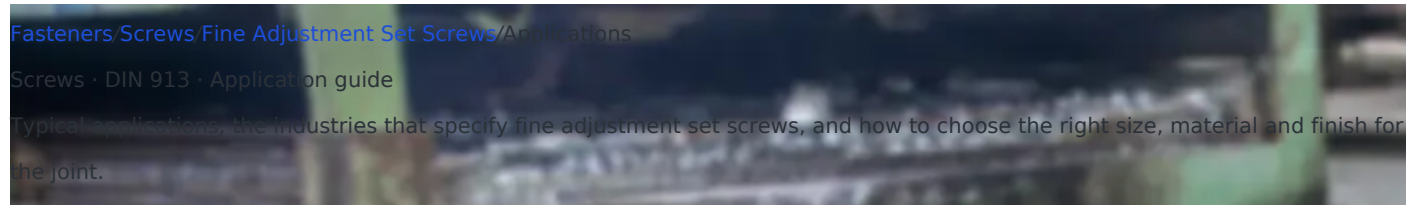


What Are Fine Adjustment Set Screws Used For?

Engineering Hardware & Fasteners · engineeringhardware.com/applications/fine-adjustment-set-screws



Fine Adjustment Set Screws are used for threaded assemblies where the head drive and seating style matter. They are manufactured to DIN 913, 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

Threaded assemblies where the head drive and seating style matter

Governing standard

DIN 913

Thread size range

M40.5 to M161.5

Category

Screws

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



Fine Adjustment Set Screws are used primarily for threaded assemblies where the head drive and seating style matter. This page lists the industries and assemblies where they are specified, the selection criteria that matter for each application, installation practice, and the cases where a different fastener type is the correct choice. Parts are supplied to DIN 913. Stocked across roughly M40.5 to M161.5, they cover heavy and structural work.

Typical Applications for Fine Adjustment Set Screws

The most common settings where these are specified:

- **Appliances & consumer goods:** high-volume assembly with power tools and consistent seating.
- **Machine guarding & panels:** removable access covers that are opened for service.
- **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.

How to Specify Fine Adjustment Set Screws for Your Application

- **Size:** Match the nominal size to the mating thread or hole. This product spans M40.5-M161.5; check the full table below for the exact dimensions of each size.

- **Drive & head:** Pick the drive (socket, cross, slot) and head style for the tool access and seating surface; a recessed drive resists cam-out under power tools.
- **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 913. Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Installation & Assembly Practice

- Match the driver exactly to the recess (PH ≠ PZ; hex key sizes per ISO 2936) and keep the tool axial — side load is the main cause of stripped drives.
- In tapped holes, engage a thread length of at least 1× the nominal diameter in steel, 2× in aluminum.
- Set power tools to a torque that seats the head without embedding it into the mating surface.

Common Selection Mistakes with Fine Adjustment Set Screws

- Under-sizing the drive for the installation torque — a small recess at high torque strips before the screw is seated.
- Using a countersunk head in thin sheet where the countersink removes most of the load-bearing material.
- Specifying stainless in high-strength duty: A2-70 is roughly class 7 steel, not a 10.9 substitute.

Where Fine Adjustment Set Screws Are Not the Right Choice

Not for high-preload structural joints (use a property-class bolt and nut), and not in thin sheet where a self-drilling or self-tapping type suits better.

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 913)

Thread size	Pitch (mm)	Hex socket s (mm)	Travel per turn (mm)	Travel per 1/12 turn (mm)	Common length range (mm)	Reference standard
M4x0.5	0.5	2	0.50	0.042	4~20	DIN 913 fine
M5x0.5	0.5	2.5	0.50	0.042	5~25	DIN 913 fine
M6x0.75	0.75	3	0.75	0.063	6~30	DIN 913 fine
M8x1	1.0	4	1.00	0.083	8~40	DIN 913 fine
M10x1	1.0	5	1.00	0.083	10~50	DIN 913 fine
M12x1.25	1.25	6	1.25	0.104	12~60	DIN 913 fine
M16x1.5	1.5	8	1.50	0.125	16~60	DIN 913 fine

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 material should Fine Adjustment Set Screws 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 Fine Adjustment Set Screws made to a recognized standard?

Yes — they are manufactured to DIN 913, so dimensions are interchangeable between suppliers when you quote the standard on your order.

What are Fine Adjustment Set Screws used for?

Threaded assemblies where the head drive and seating style matter. They are supplied to DIN 913.

Which industries use Fine Adjustment Set Screws?

They are commonly specified in fabrication & metalwork, electronics & enclosures and appliances & consumer goods, among other sectors.

Can I get a quote for Fine Adjustment Set Screws 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: [Fine Adjustment Set Screws — specifications & sizes](#)

Fine Adjustment Set Screws Specification Guides

- [M4X0.5 Fine Adjustment Set Screws size guide](#)
- [A4 stainless Fine Adjustment Set Screws](#)

Related Fastener Applications

- [Button Head Socket Screws applications](#)
- [Cheese Head Screws applications](#)
- [Countersunk Socket Screws applications](#)
- [Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 \(Series 046\) applications](#)
- [Hex Socket Cone Point Set Screw — GB/T 77 / ISO 4026 \(Series 022\) applications](#)
- [Hex Socket Cone Point Set Screw — GB/T 78 / ISO 4027 \(Series 027\) applications](#)