

Stainless Steel Threaded Rod



DIN 976 stainless steel threaded rod, available in lengths up to 6 m. Plain bar feedstock is stocked for partial or full thread rolling and may be cut to specified lengths to meet project requirements.

Key Benefits

- High-strength, thread rolled stainless steel threaded rod
- Metric sizes M10 to M52 in accordance with BS 3643
- Supplied in standard 6 metre lengths from stock
- Enhanced ductility, suitable for dynamic and seismic loading applications

- Excellent corrosion resistance for aggressive environments
- Extensive stock availability for rapid delivery
- Full range of matching full strength nuts, couplers and accessories available



Threading M100 to BS3643.

Typical Applications

- Structural bolting and holding down bolts
- Tie bar and cross tie systems in buildings and bridges
- Façade restraint and structural restraint systems
- Ground engineering tie bars and anchor components
- Bridge strengthening, retrofitting and repair works
- Base plate fixings and structural steel connections
- General construction and civil engineering fixings



Technical Specifications

- **Strength classes:** 50, 70, 80 and 100
- **Materials:** A2 (304) and A4 (316) stainless steel (ASTM equivalents B8 and B8M available on request)
- Manufactured in accordance with BS EN ISO 3506 (additional grades and specifications available to order)
- Partially threaded rods available to order
- Optional 45° chisel-pointed ends
- Machine capacity up to M100
- Cold thread rolled for enhanced tensile and fatigue performance.
- For partially threaded rods, specify plain shank finish (e.g. as rolled or polish class)

Strength Class	Min. UTS (N/mm ²)	Min. Yield (N/mm ²)	Elongation at Failure
50	500	210	0.6D
70	700	450	0.4D
80	800	600	0.3D

Thread	Weight per metre (Kg/m)	Strength			
		Class 70		Class 80	
		0.2% proof (kN)	UTS (kN)	0.2% proof (kN)	UTS (kN)
M12	0.72	41	64	54	73
M16	1.31	70.7	109.9	94.2	125.6
M20	2.05	110.3	171.5	147.0	196.0
M24	2.96	158.9	247.1	211.8	282.4
M27	3.83	206.6	321.3	275.4	367.2
M30	4.70	252.6	392.7	336.6	448.8
M33	5.78	312.3	485.8	416.4	555.2
M36	6.84	367.7	571.9	490.2	653.6
M39	8.14	439.2	683.2	585.6	780.8
M42	9.38	504.5	784.7	672.6	896.6
M45	10.90	587.7	914.2	783.6	1044.8
M48	12.32	662.9	1031.1	883.8	1178.4
M52	14.65	791.1	1230.6	1054.8	1406.4

System Accessories

Stainless Steel Metric Studding can be supplied with a range of accessories, which can be manufactured to meet individual contract requirements.

Fork End

Threaded fork ends are used to terminate bars and transfer load to the structure.

Supplied as left-hand or right-hand threaded – dependent upon the tie rod arrangement.



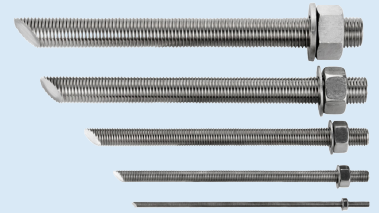
Turnbuckle

Tensioning device used to adjust, tighten, or maintain tension in cables, rods, or wire systems.



Chisel Points

Chisel points available on request.



Stainless Plate Washer

Dished plate washers are to accommodate angular misalignment, such as that when anchoring systems are not perfectly perpendicular to the surface.



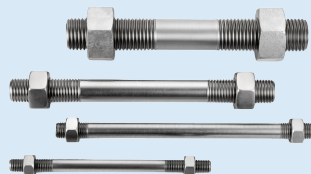
Nuts and Couplers

Nuts and couplers have been designed to provide a strength equal to the theoretical minimum required by the threaded bar.



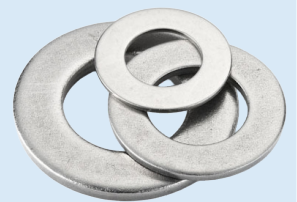
Threaded Ends

Threaded ends available to suit project requirements.



Washers

Washer forms run from A to F, where the form type refers to the outside diameter and thickness of the flat washers.



Patress Plates

Available in ductile iron or fabricated to customers specific requirements. See Patress Plates data sheet.



Eye Nut

When used on threaded rod, provides a secure anchorage or hold-down point for restraining, fixing, or tying components into concrete or structural assemblies.

