

Galvanised Self-Drilling Hollow Bar Anchors



Stainless UK supplies a comprehensive range of galvanised self-drilling hollow bar anchors, suitable for soil nailing, ground anchoring, and related geotechnical applications. The system is designed for efficient installation and reliable performance in difficult or unstable ground conditions.

Manufactured with a minimum 85-micron hot-dip galvanised coating, the system provides durable corrosion protection and a cost-effective solution for both temporary and permanent works in civil engineering, slope stabilisation, and foundation applications.



System Description

The galvanised hollow bar anchor system is a fully threaded, self-drilling solution that combines drilling, grouting, and anchoring into a single operation. The hollow bar acts as both the drill rod and grout conduit, enabling installation without casing, even in loose or collapsing ground.

Bars are produced with a cold-rolled ISO-standard left-hand rope thread, ensuring compatibility with commonly used drilling rigs, couplers, and accessories across UK and European sites.

Available in standard stock lengths or cut to project-specific requirements.

Key Applications of Galvanised Steel SDA Systems

- Slope stabilisation and soil nailing
- Tunnel face, crown and sidewall support
- Spiling / forepoling ahead of tunnel excavations
- Temporary and semi-permanent retaining walls
- Excavation and basement support works
- Micropiles and foundation underpinning
- Ground consolidation and pressure grouting
- Rock bolting for civil and mining applications
- Portal stabilisation and temporary ground support

Performance and Components

The system is available in multiple bar diameters to suit varying load requirements and ground conditions. Optimised bar geometry and precision-rolled threads provide effective load transfer throughout the anchorage.

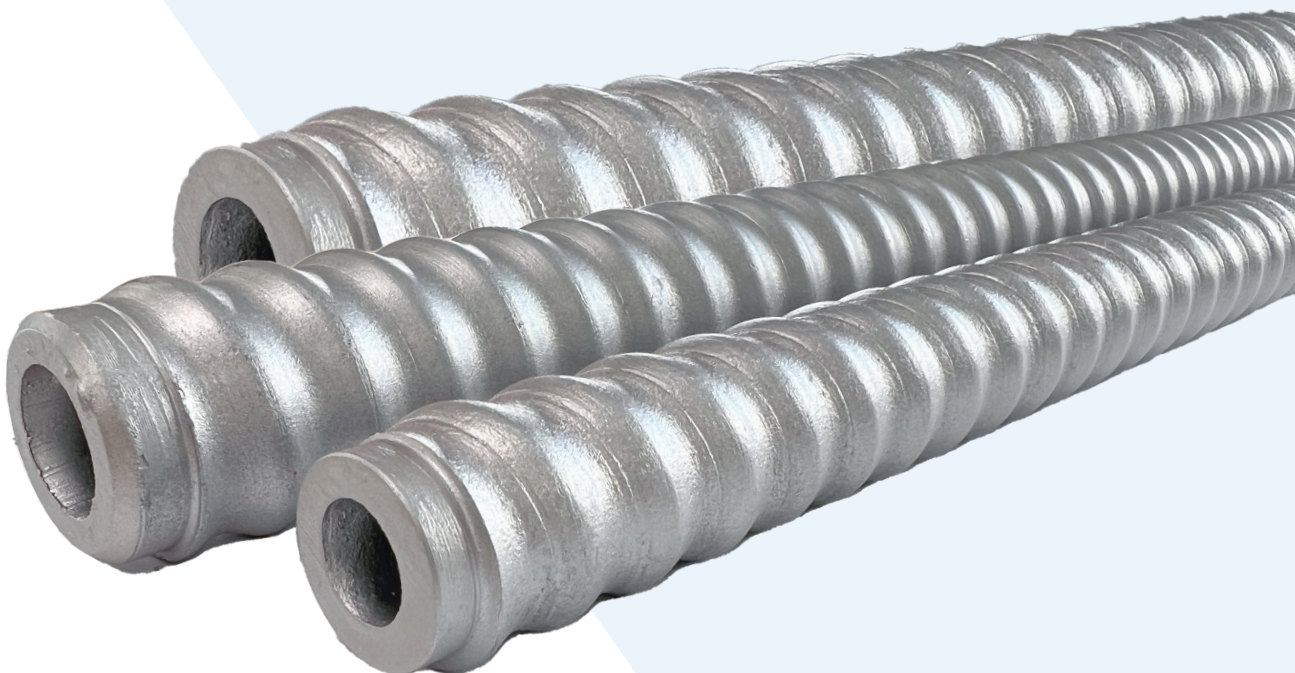
Compatible components and accessories include:

- High-strength couplers designed to transfer full bar capacity
- Full and domed nuts for flat or misaligned bearing plates
- Flat and domed bearing plates
- Centralisers for consistent grout cover
- Adaptor sleeves
- Drill bits for soil, gravel, and rock conditions

Corrosion Protection

While stainless steel hollow bar systems are recommended for aggressive environments, galvanised hollow bar anchors offer an effective balance of strength, durability, and cost efficiency for typical UK soil and groundwater conditions.

The 85-micron galvanised coating provides reliable service life for a wide range of ground engineering applications.





Accessories (all dimensions in mm)				
Product	Size	Outer Dia.	Length	Weight (kg)
Adaptor Sleeve	25/32	32	50	0.10
Centraliser	32	72	30	0.27
	38	78	30	0.28

Galvanised Hollow Bar Product Data (all dimensions in mm)										
Product	Model	Nominal Dia.	Stock Length*	Nom. Outer Dia.	Internal Dia.	Ultimate Tension Capacity (kN)	Yield Tension Capacity (kN)	A Elongation (%)	Agt (%)	Weight (kg/m)
Hollow Bar	R25	25	1500 & 3000	24.7	14	200	150	≥8%	≥5%	2.35
	R32N	32	1500 & 3000	31.3	18.5	280	230			2.95
	R32S	32	1500 & 3000	31.3	15	360	280			3.50
	R32S1	32	1500 & 3000	31.3	12	405	320			4.00
	R38N	38	1500 & 3000	38	19	500	400			4.95
	R38S	38	1500 & 3000	38	15	550	450			5.90

* Other Lengths are available on request

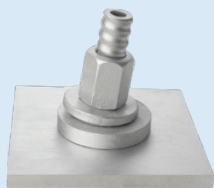
Fittings (all dimensions in mm)				
Product	Size	Outer Dimension	Length	Weight (kg)
Coupler	25	Ø36	150	0.66
	32	Ø42	190	1.01
	38	Ø51	220	1.68
Full Nut	25	41 (A/F)	40	0.31
	32	46 (A/F)	45	0.37
	38	50 (A/F)	60	0.47
Domed Nut	25	41 (A/F)	40.5	0.31
	32	46 (A/F)	45	0.38
	38	52 (A/F)	60	0.61
Wedge Boss	25-38	122	70	1.00
Product	Size	Dimensions	Thickness	Weight (kg)
Domed Plate	25	200 x 200	10	2.94
	32	200 x 200	12	3.52
	38	200 x 200	12	3.6

Drill Bits (all dimensions in mm)				
Size	Type	Outer Dia.	Description	Typical Applications
SSR32/51	EXX	51	Cross Bit with Tungsten Carbide Inserts	Softer sedimentary rocks such as marls, mudstones, siltstone
SSR32/76	EXX	76		
SSR38/76	EXX	76		
SSR38/100	EXX	100		
SSR38/130	EXX	130		
SSR32/51	ES-F	51	Hardened Steel Button Bit	Gravel, soft rock
SSR32/76	ES-F	76		
SSR38/76	ES-F	76		
SSR38/90	ES-F	90		
SSR38/115	ES-F	115		
SSR32/51	ESS-F	51	Hardened Steel Button Bit with Tungsten Carbide inserts	Weathered rock, stone walls, rubble
SSR32/76	ESS-F	76		
SSR38/76	ESS-F	76		
SSR38/90	ESS-F	90		
SSR38/115	ESS-F	115		

Accessories

Hemispherical Seating and Washer

Hemi Seating with Hemi washers are to accommodate angular misalignment.



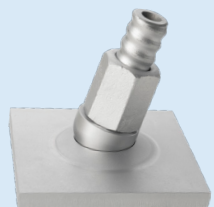
Wedge Boss

Wedge Bosses are to accommodate a larger angular misalignment.



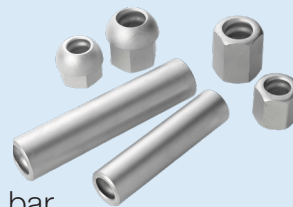
Dished Plate Washer

Dished plate washers with Hemi washers are to accommodate angular misalignment.



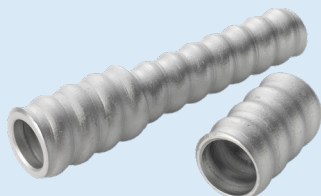
Nuts and Couplers

Designed to provide a strength of anchorage equal to the theoretical minimum required by the bar.



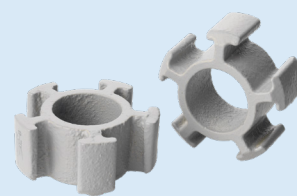
Adaptor Sleeve

Adapter sleeve R25 to R32, enabling use of larger drill bits.



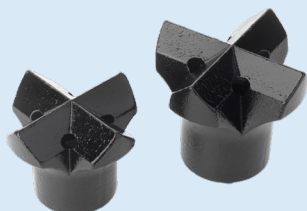
Centraliser

Centralisation of single bar within a bore hole enables an even flow of grout around the bar.



Cross Drill Bit

EXX Cross Drill Bit with Tungston carbide inserts.



Button Drill Bit

Button drill bits either ES-F hardened ESS-F Tungston inserts.

