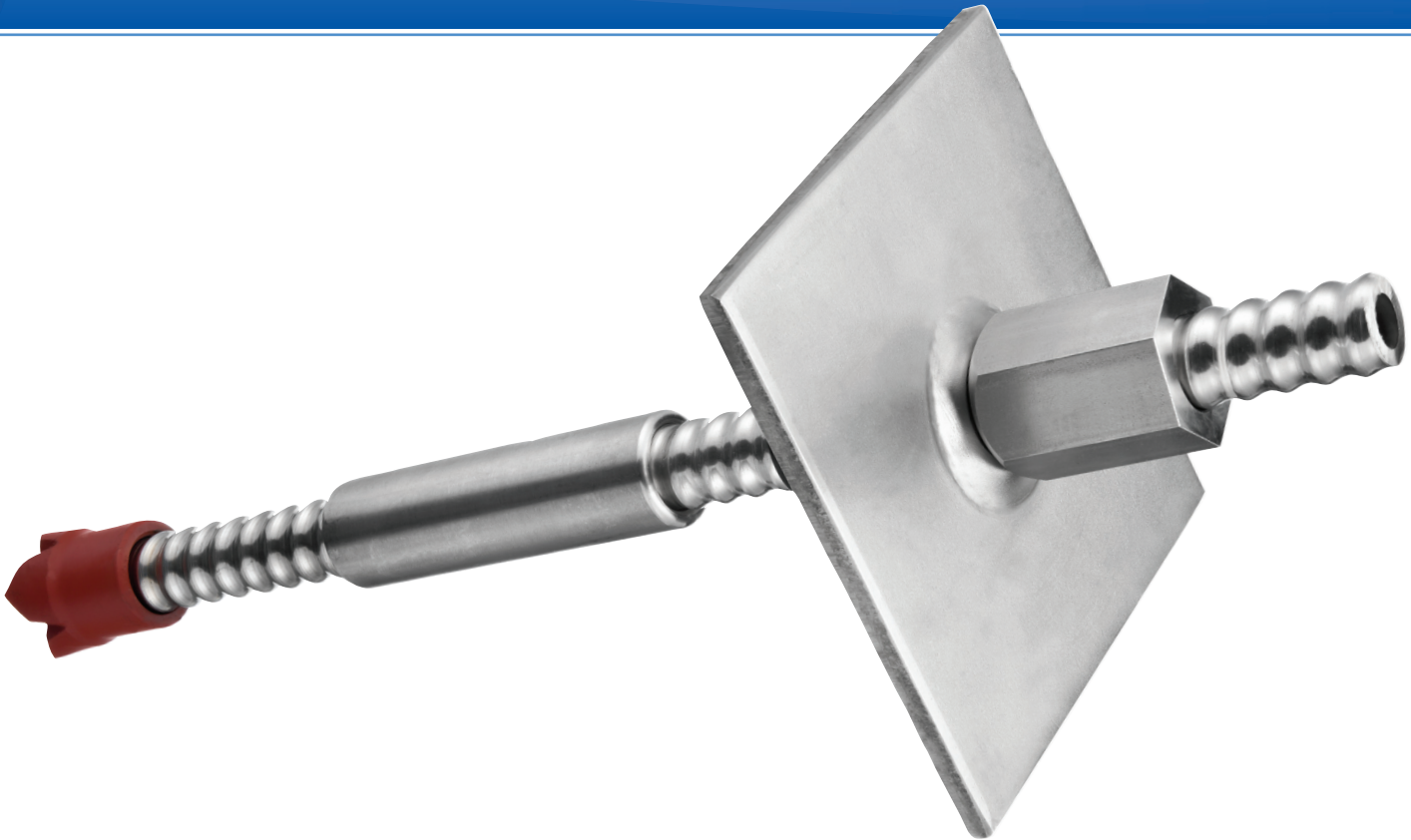


Stainless Steel Injection Anchors



Stainless Injection Anchors have been developed to service the geotechnical and civil engineering sector, providing the optimum combination of strength, bond and corrosion resistance suitable for any rock bolt or ground anchor application.

Benefits

- Fits standard drilling machines
- Self cleaning thread
- High strength thread rolled
- Superior corrosion resistance
- Restricted access applications
- Fast single operation installation
- Long life structures

Applications

- Embankment stabilisation
- Coastal defence walls, slopes and slabs
- Marine and aggressive environments
- Mining and tunnelling
- Rock bolts
- Retaining walls
- Structures in seismic areas

Stainless Steel Injection Anchor

Site Performance

Injection anchors are produced using a cold rolled thread which not only enhances the strength of the bar, but also provides a self cleaning, robust thread which is easy to use on construction sites.

The ISO standard rope thread, which is continuous along the length of the bar, permits site cutting of the bar without the need for special tools or dressing procedures, whilst also fitting the majority of rock drilling machines.

Bond

The bond of the injection anchor is in accordance with BS 8110 and BS 6744, the continuous thread provides a key for the grout.



Injection anchors on granite retaining wall, Helford River, Cornwall

Technical Information	
Grades Available	304 or 316 stainless
Ultimate Tensile Stress	650 N/mm ²
Minimum elongation	20%
Typical lengths	3m-3.2m (6m-6.5m to order)
Straightness	2 in 1000
Standard bundle weight	1 tonne max
Thread (left hand)	ISO 10208

Bar Size	R25	R32	R38
Nominal Dia over threads (mm)	24.74	31.34	37.99
Nominal internal dia (mm)	13	18	24
Effective CSA (mm ²)	307	472	586
Ultimate strength min (kN)	200	320	400
Nominal weight (kg/m)	2.45	3.80	4.75
Coupler dia x length (mm)	36 x 140	44 x 150	51 x 160
Load Nut a/f x length (mm)	40 x 60	50 x 70	60 x 80
Cross sectional area (mm ²)	307	472	586

System Accessories

Stainless steel injection anchors can be supplied with a range of accessories, which can be manufactured to meet individual contract requirements.

The selection of any drill bit is based on experience, but a trial anchor must be satisfactorily tested before the project is finally commenced.

A full range of couplers, hemispherical load nuts, dished plates and grout stoppers are available in each size.

1. Sacrificial drill bits



Drill bits to suit all applications and ground conditions.

2. Pattress Plates



Available in ductile iron or fabricated to customers specific requirements. Please see Pattress Plates Data sheet.

3. Plate Washers



Manufactured either flat which can take up to 8 degree misalignments or dished to suit up to 45 degree misalignment. Can be supplied with a hemi nut or washer to suit.

4. Reducer Washer



Allows a small diameter bar to be used with a larger pattress or washer plate.

5. Couplers / Nuts



Load nuts and couplers have been designed to provide a strength of anchorage equal to the theoretical minimum required by the threaded bar. Lock nuts are for locking purpose only.

6. Eye Nut



To be fitted to the end of the bar for passing rock netting wire through and many other uses.

Stainless UK has taken care to ensure that this information is accurate, but cannot be responsible for interpretation of the details nor is any liability implied or accepted.



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