infraMOD™
a saskarc company

THREADED BAR & GROUND ANCHOR SYSTEMS

Hold the Ground. Hold the Line.



Engineered for stability in the toughest ground conditions, infraMOD's threaded bar and ground anchor systems bring the strength and reliability of our shoring and excavation support designs to every project. Simple to install and built to keep your schedule on track.

infraMOD™
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THREADED BAR + COUPLERS + NUTS + ANCHOR

THREADED BAR & GROUND ANCHOR SYSTEMS

Engineered for stability. Built for the toughest conditions. Reliable support for your most critical projects.





CONTINUOUS COLD-ROLLED THREAD
High strength and consistent performance.

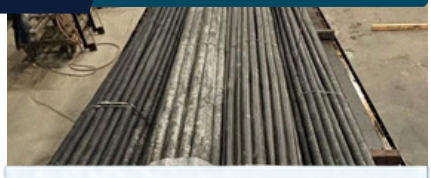
COUPLER
Secure connection for larger lengths and greater flexibility.

HEX NUT
High load capacity and reliable locking system.

BEARING PLATE
Distributes load and protects the structure.

OUR GROUND ANCHOR PRODUCTS

01 THREADED REBAR
ASTM A615 AI-Thread Rebar



#8 – #24

(OR 80 TO 75 ABOVE)

Full-length, semi-rounded coarsethread, cut to any length, Couple anywhere, anchor at any point.

- Cold-rolled 360° thread
- Matching couplers & nuts
- +550 MPa (Gr 80)

02 HIGH-STRENGTH BAR
ASTM A722 Grade 150 Threadbar



1" – 3"

(150 KS) / 1035 MPA) ULTIMATE

Prestressing-grade bar for post-tensioned anchors, Habsks and high-capacity tension members.

- 7 diameters
- Up to 4.5 MN ultimate
- Anchor nuts, plates & couplers

03 CUSTOM ANCHORS
DCP Ground Anchors



Built to site

DOUBLE CORROSION PROTECTION

Pre-grouted, encapsulated bar anchors fabricated to your design loads, lengths, inclination and exposure.

- Pre-grouted in the shop
- Free & bond lengths to suit
- Bare steel coating available

ASTM A615 · GRADE 80 & GRADE 75

ALL-THREAD REBAR SYSTEM

Acontinuous, cold-rolledthread alongthe fulllengthof the barlets it be cut, coupled, or anchored at anypoint,with noend-threading orupset ends.Grade 80is supplied through #20; Grade 75 for larger sizes.



THREAD FORM

- Cold-rolled, full 360° concentric thread
- Continuous, semi-rounded coarse profile
- Ribs act as deformations for bond in grout or concrete

ACCESSORIES

- Full-strength threaded couplers
- Hex nuts & anchor nuts
- Bearing plates & washers to suit

TYPICAL USES

- Soil nails & rock bolts
- Micropiles & tie-downs
- Form tiee, dowels, tension members

BAR SIZES & NOMINAL CAPACITIES

BAR		NOMINAL DIMENSIONS			MIN. YIELD LOAD		MIN. ULTIMATE LOAD		UNIT WT
Size	Grade	Dia. in	Dia. mm	Area mm² (in²)	kN	kips	kN	kips	KG/M
#8	80	1	25.4	510 (0.79)	280	63	370	83	4.00
#9	80	1-1/8	28.7	645 (1.00)	355	80	468	105	5.06
#10 •	80	1-1/4	32.3	819 (1.27)	450	102	594	133	6.43
#11	80	1-3/8	35.8	1006 (1.56)	553	125	729	164	7.90
#14 •	80	1-3/4	43.0	1452 (2.25)	799	180	1053	236	11.40
#18	80	2-1/4	57.3	2581 (4.00)	1420	320	1871	420	20.26
#20	80	2-1/2	63.5	3168 (4.91)	1742	393	2297	516	24.87
#24 •	75	3	76.2	4560 (7.07)	2371	530	3146	707	35.80

• **Developed sizes**: thread design and accessories drawn (see below). Other sizes available; thread details on request. Loads = nominal area × ASTM A615 minimums: Gr 80 f_y 550 MPa (80 ksi), f_u 725 MPa (105 ksi); Gr 75 f_y 520 MPa (75 ksi), f_u 690 MPa (100 ksi). #24 exceeds the A615 size designations and is supplied to A615 Grade 75 mechanical requirements. Nominal values for preliminary design; confirm with InfraMOD.

BAR	THREAD (MM)					COUPLER (MM)		HEX NUT (MM)	
Size	Major dia.	Root dia.	Thread ht.	Pitch	Threads/in	O.D.	Length	Across corners	Length
#8	27.73	23.10	2.31	7.26	3.5	44.45	87.15	44.5	38.1
#10	34.80	28.70	3.05	8.47	3	51.0	140.0	59.0	51.0
#18	61.90	52.40	4.75	8.47	3	89.0	203.2	110.0	95.0

From InfraMOD drawings IM-NP-TD001 / TD003 (issued for review, 2026). Nominal 0.08 mm coating allowance on bar. Dimensions subject to change as designs are finalized.

ASTM A722 - 150 KSI

HIGH-STRENGTH THREADBAR

Grade 150 prestressing bar for permanent and temporary post-tensioned ground anchors, tiebacks and tension members where high capacity is needed in a compact system. Available from 1* to 3* diameter.



1035 MPa
MIN. ULTIMATE (150 KSI)

827 MPa
MIN. YIELD (120 KSI)

7
DIAMETERS 1* – 3*

4.5 MN
LARGEST BAR ULTIMATE

BAR		NET AREA		MIN. ULTIMATE (F_{PU})		MAX. TEST LOAD (0.80 F_{PU})		DESIGN REF. (0.60 F_{PU})		UNIT WT
Nominal in	Nominal mm	in²	mm²	kips	kN	kips	kN	kips	kN	KG/M
1"	26	0.85	548	128	567	102	454	77	340	4.30
1-1/4"	32	1.25	806	188	834	150	667	113	500	6.33
1-3/8"	36	1.58	1019	237	1054	190	843	142	633	8.00
1-3/4"	46	2.60	1677	390	1735	312	1388	234	1041	13.16
2-1/4"	57	4.08	2632	612	2722	490	2178	367	1633	20.66
2-1/2"	65	5.19	3348	779	3463	623	2770	467	2078	26.28
3"	75	6.85	4419	1028	4570	822	3657	617	2742	34.69

Loads = net area × ASTM A722 minimums (f_{pu} 150 ksi / 1035 MPa; $f_{py} \geq 0.80\ f_{pu}$). Areas shown are industry-typical for Grade 150 threadbar. Sizes above 1-3/8" may be alloy steel, quenched and tempered to A722 properties. 0.60 F_{pu} shown for reference only; the design and lock-off loads are set by the engineer of record (e.g. PTI DC35.1). Nominal values for preliminary design; confirm with InfraMOD.

SYSTEM COMPONENTS

- Hex nuts & spherical sanchor nuts with boasted washers for inclined anchors
- Full-strengh coupler for long anchors and staged installation
- Bearing plates sized to the structure and design load
- Bare steel standard; coatings available on request

APPLICATIONS

- Permanent and temporary teback anchors
- Post-tensioning and high-load tension members
- Rock and soil anchors, uplift and tie-down anchors
- Actm, retaining wall and slope stabilization



CHOOSING BETWEEN A615 AND A722 BAR

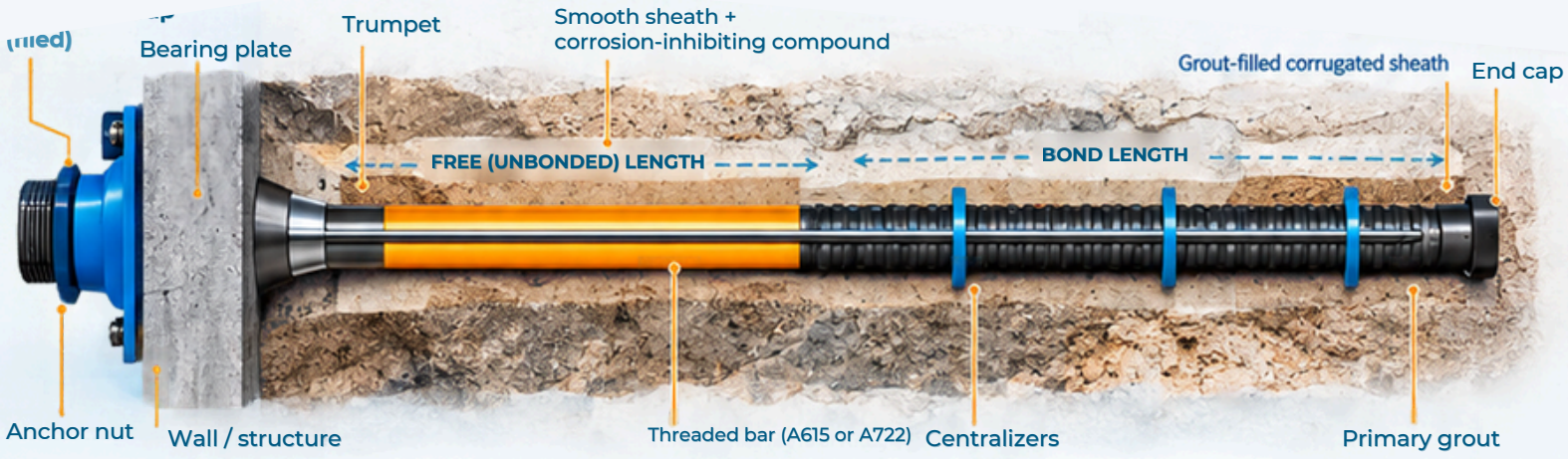
FEATURE	ASTM A615 (Thread rebar)	ASTM A722 Grade 150 (Threadbar)
Min. yield / ultimate	490 / 725 MPa (Gr 80)	827 / 1035 MPa
Size range	#8 – #24 (25 – 76 mm)	1" – 3" (26 – 75 mm)
Typical role	Passive: soll nails, micropiles, dowels	Active: stressed anchors, tiebacks, PT
Best when	Ductility and cost per tonne govern	High load in a small drill hole governs

01 DCP GROUND ANCHORS

DOUBLE CORROSION PROTECTION · CUSTOM-BUILT

DCP GROUND ANCHORS, MADE FOR YOUR SITE

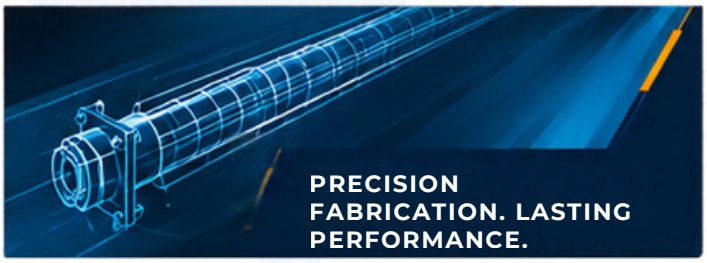
Pre-grouted permanent bar anchors, fully encapsulated in two independent barriers (grout and a plastic sheath) from the anchor head to the tip. Each anchor is shop-fabricated to the project's loads, geometry and exposure, using A615 or A722 bar.



Schematic only, not to scale. Configuration to project specification and engineer of record.

KEY FEATURES & BENEFITS

- Bar type, grade and diameter to suit design load
- Free and bond lengths, including coupled anchors
- Anchor inclination, head assembly and bearing plate
- Sheath type, centralizer spacing and grout tubes
- Pre-grouted in the shop, ready to install
- Bare steel bar standard, coating available on request



APPLICATIONS

- Permanent and temporary tieback anchors
- Rock and soil anchors, uplift and tie-down anchors
- Dam, retaining wall and slope stabilization
- Post-tensioning and high-load tension members



WHERE DCP IS SPECIFIED

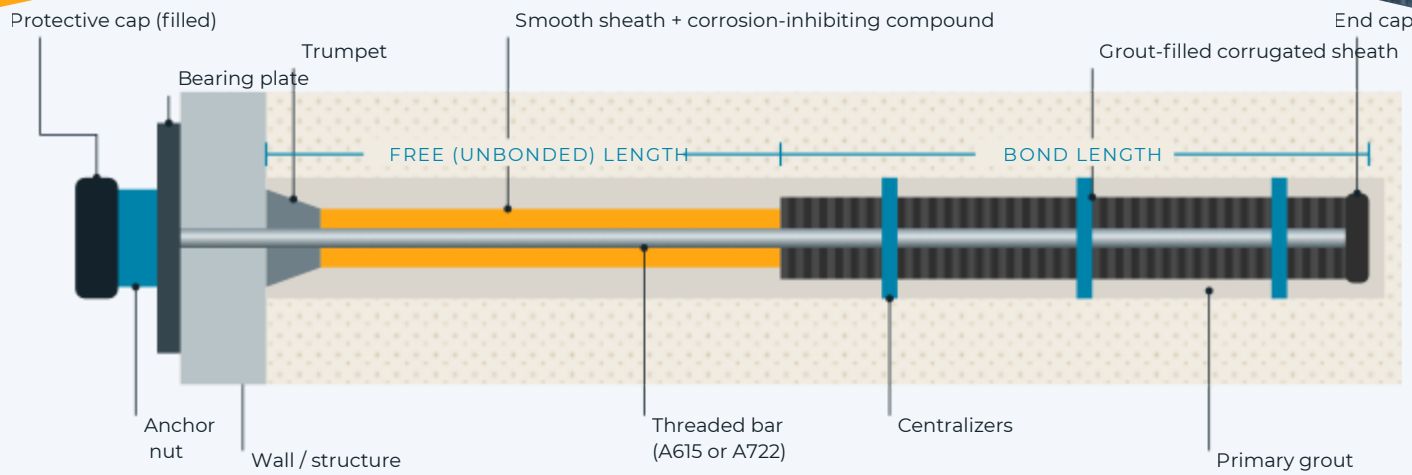
Permanent anchors in aggressive or unknown ground, anchors below the water table or exposed to stray currents, and structures with long, design lives or where failure would be critical. Protection class and details follow the project specification (e.g., PTI DC35.1 Class I).

01 DCP GROUND ANCHORS

DOUBLE CORROSION PROTECTION · CUSTOM-BUILT

DCP GROUND ANCHORS, MADE FOR YOUR SITE

Pre-grouted permanent bar anchors, fully encapsulated in two independent barriers (grout and a plastic sheath) from the anchor head to the tip. Each anchor is shop-fabricated to the project's loads, geometry and exposure, using A615 or A722 bar.



Schematic only, not to scale. Configuration to project specification and engineer of record.

Built to your requirements

- Bar type, grade anddiameterto suit design load
- Free and bond lengths, including coupled anchors
- Anchor inclination, head assembly and bearing plate Sheath type, centralizer spacing and grout tubes Pre-grouted in the shop, ready to install
- Bare steel bar standard; coating available on request

Quality & testing

- Chemical analysis for carbon, manganese & sulphur Bond / pull-out testing in grout or concrete, up to 80% of ultimate Tensiletestingof bar production
- Slippage testing of couplers and nuts
- Dynamic and fatigue testing to engineer requirements

Two barriers, end to end

Eachanchor arrivespre-grouted. In the bond length the bar sits in a shop-grouted corrugated sheath, so load transfers to the ground through the corrugations while the steel stays sealed. In the free length a smooth sheath filled with corrosion-inhibiting compound lets the bar stretch freely during stressing. The trumpet, bearing plate and a filled cap complete the protection at the head.

Where DCP is specified

Permanent anchorsin aggressiveor unknown ground, anchors below the water table or exposed to stray currents, and structures with long design lives or where failure would be critical. Protection class and details follow the project specification (e.g. PTI DC35.1 Class I).

Request a quote or anchor design

Sendusthe drawingsoranchorschedule, designand test loads, lengths, inclination, ground conditions and design life. We'll return a fabrication proposal and submittal drawings.

InfraMOD · Ground Anchor Products

Dion Gray

dion.gray@inframod.com

Direct: 839-251-2869

Toll-free: 1-800-667-5155 www.inframod.com

Let's discuss your next project!

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Oxbow | Toronto | Vancouver | Regina | Edmonton

Charleston

+1 (800) 667-5155
soesolutions@infamod.com



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