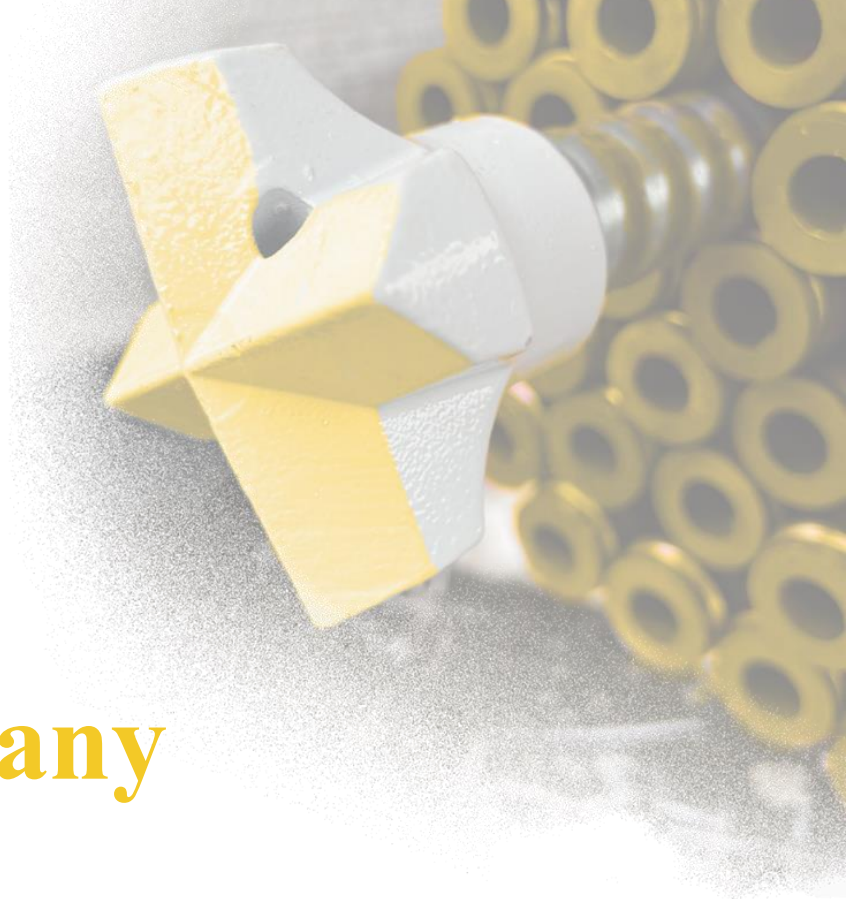




DANKAT[®] Steel
Industry Leading Products

**Self-Drilling
Anchor
System**



About Company

DANKAT® Steel is a proudly Canadian manufacturer and supplier of steel products all around Canada. We are specialized in many types of steel products that is being used in infrastructure and construction projects. Our main goal is to be able to provide the best quality to our customers as well as first-class customer service to satisfy all their needs. We are focusing on quality and high-industry standard products as well as highly competitive cost to both meet the Canadian standards and bring the cost down for our customers.

“Our passion is Steel, Our promise is Quality”



proudly Canadian

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SELF DRILLING ANCHOR SYSTEM

DANKAT® hollow bars are fully threaded self-drilling system that allows drilling into loose or collapsing drill holes with a system combined of grouting and anchoring simultaneously with no need for casing. DANKAT® hollow bars are made of high-grade steel and designed to meet ASTM and EN Standards. DANKAT® bars are both available in R thread and T thread, selected raw material and a fully automated production system make the DANKAT® SDA system exceed the quality and proof of Yield and Tensile load.

Advantages

- **Consistent quality control**

DANKAT® Steel bars are regularly tested in-house and by third-party accredited worldwide testing laboratories to ensure consistent quality and defect-free products.

- **Excellent Ductility**

Ductility is a measure of the degree to which material can undergo plastic deformation before breaking. All DANKAT® Bars have elongation > 12% and Agt > 8%.

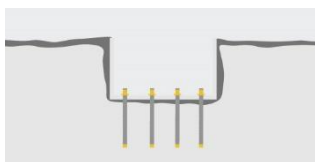
- **Fully Threaded rods**

With continuous threads, Our SDA system ensures cutting and coupling at any length.

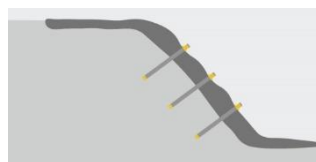
- **No casing required**

DANKAT® bars can be drilled into loose or collapsing soil without the need for a casing to support the borehole.

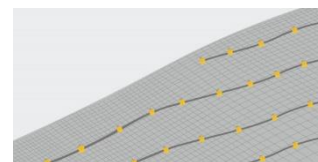
Applications



Micro-piling



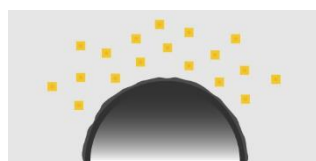
Soil nailing



Rock bolting



Infrastructure



Tunneling



Mining

Featured Projects



QUALIFICATIONS & QUALITY CONTROL

Qualifications



ASTM



ISO 9001:2015



ISO 9001:2008

Quality Control Process

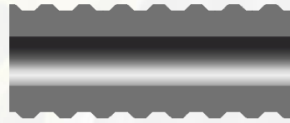
- Internal Quality Control: Ensuring that all incoming materials meet all the ASTM and CSA requirements and engineering specifications.
- We consistently collect random samples from our production lines for laboratory testing by our international and local testing lab partners such as SGS, ACUREN, METRO TESTING and etc.
- Outgoing Quality Control: Ensuring the products are free of defects prior to shipment to customers.
- We can also provide samples to any third-party inspection agencies as requested by customers.
- All DANKAT® bars have a pass rate of 100% with exceptional results for proof of load and elongation.

PRODUCTS TECHNICAL DATA

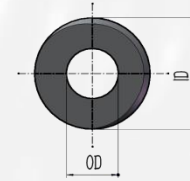
Anchor Bar



R thread hollow bar



T thread hollow bar



Bar Size	Model/Type	O.D (mm)	I.D (mm)	Sectional Area (mm ²)	Ultimate Load (KN)	Yield Load (KN)	Elongation %	Weight (kg/m)
R25	R25N/14	25	14	290	200	150	>12%	2.3
R32	R32N/21	32	21	370	280	230	>10%	3.0
	R32N/18	32	18	430	280	230	>12%	3.4
	R32S/15	32	15	520	360	280	>12%	4.1
R38	R38N/21	38	21	620	500	400	>10%	5.0
	R38N/19	38	19	700	500	400	>12%	5.5
R51	R51L/36	51	36	970	550	450	>10%	7.6
	R51N/33	51	33	1070	800	630	>12%	8.4
T30	T30/11	30	11	420	320	260	>12%	3.3
	T30/16	30	16	340	245	190	>12%	2.7
T40	T40/16	40	16	900	660	525	>12%	7.1
	T40/20	40	20	710	540	425	>12%	5.6
T52	T52/26	52	26	1270	930	730	>12%	10.0
T76	T76N/49	76	49	2100	1600	1200	>10%	16.5
	T76S/45	76	45	2420	1900	1500	>10%	19.0
T103	T103/78	103	78	3180	2270	1800	>10%	25.0

Anchor Accessories

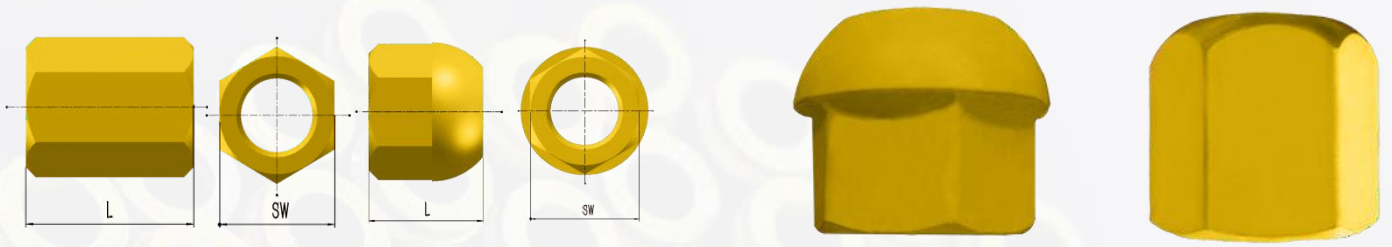
Anchor Coupler



Coupler Size	Length(mm)	Outer Diameter(mm)	Unit Weight (kg)
R25	150.0	36.0	0.6
R32	190.0	42.0	0.9
R38	220.0	51.0	1.7
R51	200.0	63.0	2.0
T76	220.0	95.0	4.7
T30	105.0	38.0	0.42
T40	140.0	57.0	1.3
T52	160.0	70.0	2.4
T103	290.0	132.0	12.5



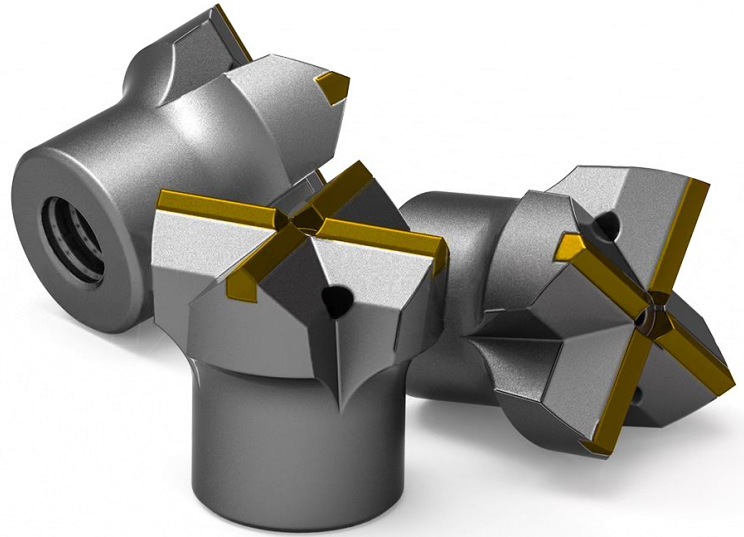
Anchor Nut



Size	SW (mm)	L (mm)	Unit Weight (kg)
Hexagonal Nut			
R25	41	41	0.30
R32	46	65	0.45
R38	50	60	0.50
R51	75	70	1.55
Spherical Nut			
T76	100	90	3.20
T30	46	35	0.42
T40	65	50	0.90
T52	80	70	2.20
T73	95	70	2.20
T103	125	80	3.40
T127	140	140	9.20

Anchor Bit

Bit Type



EX

Steel cross bits designed for loose to medium dense ground formations.



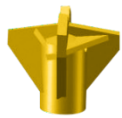
ES

Hardened button bits suitable for weak cemented soil/sands and weak fractured rock formations.



EX

TC cross bit designed for medium to strong fractured rock formations.



EW

Clay bits designed for soft clay and soils.



ESS

TC button bit designed for strong fractured rock formations.



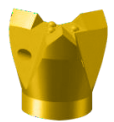
EC

Hardened arch bit suitable for loose to dense soil or sand formations.



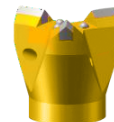
EC

TC arch bit designed for medium fractured rock formations.



EY

Hardened three-cutter bit designed for weak cemented soil/sand and weak fractured rock formations.

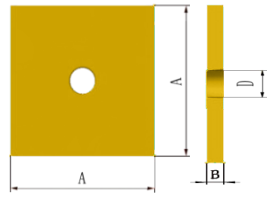
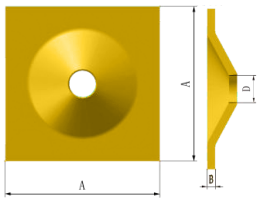


EY

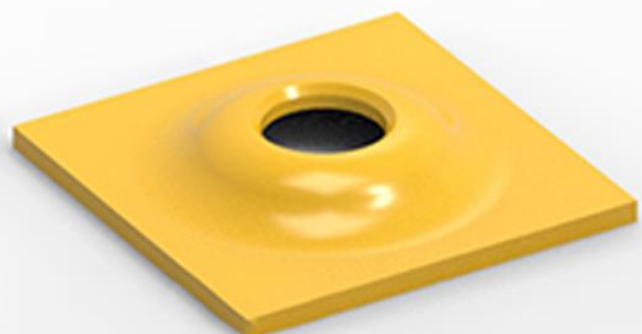
TC three-cutters bit designed for medium fractured rock formations.

- available from 64mm (2.5") to 130mm (5").
- Hardness: HRC 55 for steel bits.
- HRA 90 for carbide bits.

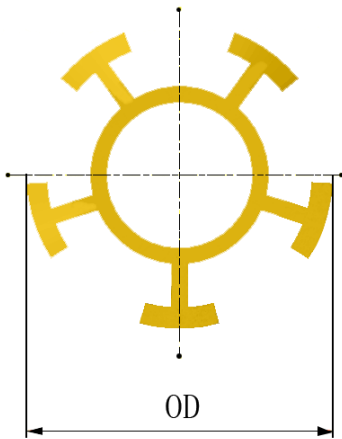
Anchor Plate



Size	Domed Plate			Flat Plate		
	A x A x B (mm)	D(mm)	Weight (kg)	A x A x B (mm)	D(mm)	Weight (kg)
R25	200x200x12	30	1.4	x	x	x
R32	200x200x12	35	3.2	200x200x25	35	3.90
R38	200x200x12	43	3.8	x	x	x
R51	200x200x12	56	4.3	200x200x25	56	8.2
T76	200x200x12	80	4.2	200x200x25	80	8.10
T30	200x200x12	35	2.50			
T40	200x200x12	45	3.50	200x200x25	45	9.45
T52	x	x	x	250x250x25	65	8.90
T103	x	x	x	250x250x25	110	9.90



Anchor Accessories



Anchor Centralizer

Engineered to ensure precise positioning of tubulars in wellbores, enhancing stability and optimizing cementing operations with unparalleled reliability.



Bit Adapter

The drill bit adapter is utilized for connecting smaller threaded hollow bars and larger threaded drill bits.



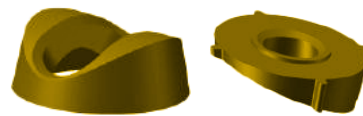
Shank Rod

The hexagonal shank rod transfers rotation and percussion from the pneumatic rock drill to the self-drilling anchor bar system.



Adaptor Coupling

The adapter coupling is employed to connect the self-drilling anchor to the shank adaptor. All adapter couplings undergo heat treatment for extended service life.



Wedge & Wedge disc

The adapter coupling is employed to connect the self-drilling anchor to the shank adaptor. All adapter couplings undergo heat treatment for extended service life.

ANTI-CORROSION PROTECTION

Hot-dip Galvanized System

To decrease the corrosion rate and extend the service life, DANKAT® provides hot-dip galvanized systems, typically comprising hollow bars, couplers, nuts, and plates. All Hot-dipped galvanization as per designated ASTM and CSA Standards.



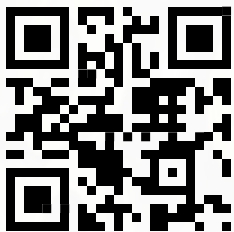
Duplex Coating System

For certain permanent projects, particularly underground ones, a duplex coating system is essential. As its name suggests, the duplex coating system combines two anti-corrosion measures: hot-dip galvanizing and epoxy coating.

DANKAT[®] Steel

Industry Leading Products

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