



The Strongest Piles in the World

PRODUCT CATALOG
METRIC VERSION

With over 30 years of experience in the soil stabilization and foundation industry, we are bringing new solutions that apply state of the art technology and expertise to change the way foundation piles and anchors are installed.

Helical Anchors Product Catalog



ESR-3982



ISO 9001:2008 Certified
Quality Management System

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Product Overview

Component Properties	Specification
Outer Diameter*	60,3 / 73,0 / 88,9 / 114,3 / 127,0 / 139,7 / 168,3 / 177,8 / 219,1 / 273,1 / 323,9 mm
Capacity	222 kN to 3.558 kN
Length	1,52 / 2,13 / 3,05 m
Helix Plate Diameter	203 / 254 / 304 / 355 / 406 mm
Helix Plate Thickness**	9,5 / 12,7 mm
Bracket Types	Standard, Light, and Heavy Duty
New Construction Caps	Custom designed
Push Piers	Custom designed
Corrosion Protection	Hot Dip Galvanized

* Custom designed diameter and wall thickness is available based on request. Inertia welding is done for shafts up to 193,7 mm diameter.

** Different cutting flight profiles for easier installation are available based on request.

Table A: Structural Capacity Table (SCT)

Helical Anchors Products	Shaft Size OD (mm)	Wall Thickness (mm)	Ultimate Tension Strength (kN)	Compression Load limit (kN)	Ultimate Torsional Strength (kN·m)	Installation Torque factor k (m ⁻¹)	Capacity Based on Torsional Strength (kN)
TS238190	60.3	4.8	556	444	8.81	29.5–32.8	289
TS238254	60.3	6.5	556	600	12.20	29.5–32.8	400
TS278217	73.0	5.5	800	622	17.63	26.2–29.5	520
TS278276	73.0	7.0	800	800	21.69	26.2–29.5	640
TS312254	88.9	6.5	1 112	934	24.41	21.3–26.2	640
TS312368	88.9	9.4	1 112	1 290	36.61	21.3–26.2	960
TS412250	114.3	6.4	1 223	1 156	40.68	16.4–21.3	867
TS412337	114.3	8.6	1 601	1 556	65.08	16.4–21.3	1 387
TS500362*	127.0	9.2	1 837	1 837	100.33*	14.8–19.7	1 837
TS512361*	139.7	9.2	2 268	2 072	122.97*	13.1–18.0	2 072
TS700498*	177.8	12.7	4 443	3 620	244.05*	9.8–14.8	3 603

Important Notes:

- The Structural Capacity Table (SCT) recommends only using 85% of the Ultimate Torsional Strength shown above in table A for 60.3 – 88.9 mm helical piles. All other diameter helical piles are recommended to be used to 95% of their Ultimate Torsional Strength.
- When using helical piles for tieback or any battered application with more than 10 degrees from vertical, Helical Anchors Inc recommends only using 80% of the Ultimate Torsional Strength which will only apply to 60.3 mm and 73.0 mm diameter helical piles.
- * The ultimate torsional strength values shown above were determined by statistical analysis of laboratory testing results except for values with an asterisk next to them. Values with an asterisk next to them are calculated ratings.
- The capacities shown above in table A for ultimate tension strength and compression load limit are calculated ratings not determined by field tests.

SCT Round Shaft Leads and Extensions 60,3 mm OD (4,8 mm Wall Thickness)

Product Specification	
Shaft OD	60,33mm
Wall Thickness	4,83mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	556 kN
Compression Load Limit*	444 kN
Ultimate Torsional Strength	8.81 kN.m
Uplift/Compression Capacity**	289 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 3 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,05
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 60,3mm OD (4,8 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
60,33mm x 1,52m (9,53 x 254mm)	---	254	---	1,52	15	TL238190603810
60,33mm x 1,52m (9,53 x 203 & 254mm)	203	254	---		16	TL2381906038810
60,33mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		20	TL23819060381012
60,33mm x 2,13m (9,53 x 254mm)	254	---	---	2,13	18	TL238190843810
60,33mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		24	TL23819084381012
60,33mm x 2,13m (9,53 x 203 & 254 & 305mm)	203	254	305		26	TL238190843881012
60,33mm x 2,13m (9,53 x 254 & 305 & 356mm)	254	305	356		30	TL2381908438101214
60,33mm x 3,05m (9,53 x 254mm)	254	---	---	3,05	25	TL2381901203810
60,33mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		30	TL238190120381012
60,33mm x 3,05m (9,53 x 203 & 254 & 305mm)	203	254	305		32	TL2381901203881012
60,33mm x 3,05m (9,53 x 254 & 305 & 356mm)	254	305	356		37	TL23819012038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 60,3 mm OD (6,4 mm Wall Thickness)

Product Specification	
Shaft OD	60,33mm
Wall Thickness	6,45mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	556 kN
Compression Load Limit*	600 kN
Ultimate Torsional Strength	12.20 kN.m
Uplift/Compression Capacity**	400 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 3 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,05
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 60,3 mm OD (6,4 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
60,33mm x 1,52m (9,53 x 203mm)	203	---	---	1,52	16	TL23825460388
60,33mm x 1,52m (9,53 x 254mm)	254	---	---		17	TL238254603810
60,33mm x 1,52m (9,53 x 305mm)	305	---	---		19	TL238254603812
60,33mm x 1,52m (9,53 x 356mm)	356	---	---		21	TL238254603814
60,33mm x 1,52m (9,53 x 203 & 254mm)	203	254	---		20	TL2382546038810
60,33mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		23	TL23825460381012
60,33mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		26	TL23825460381214
60,33mm x 2,13m (9,53 x 203mm)	203	---	---	2,13	21	TL23825484388
60,33mm x 2,13m (9,53 x 254mm)	254	---	---		23	TL238254843810
60,33mm x 2,13m (9,53 x 305mm)	305	---	---		24	TL238254843812
60,33mm x 2,13m (9,53 x 356mm)	356	---	---		26	TL238254843814
60,33mm x 2,13m (9,53 x 203 & 254mm)	203	254	---		25	TL2382548438810
60,33mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		28	TL23825484381012
60,33mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		31	TL23825484381214
60,33mm x 2,13m (9,53 x 203, 254 & 305mm)	203	254	305	30	TL238254843881012	
60,33mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356	35	TL2382548438101214	
60,33mm x 3,05m (9,53 x 203mm)	203	---	---	3,05	30	TL238254120388
60,33mm x 3,05m (9,53 x 254mm)	254	---	---		30	TL2382541203810
60,33mm x 3,05m (9,53 x 305mm)	305	---	---		32	TL2382541203812
60,33mm x 3,05m (9,53 x 356mm)	356	---	---		34	TL2382541203814
60,33mm x 3,05m (9,53 x 203 & 254mm)	203	254	---		33	TL23825412038810
60,33mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		36	TL238254120381012
60,33mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		39	TL238254120381214
60,33mm x 3,05m (9,53 x 203, 254 & 305mm)	8	10	12	83	TL2382541203881012	
60,33mm x 3,05m (9,53 x 254, 305 & 356mm)	10	12	14	94	TL23825412038101214	

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate.

SCT Round Shaft Leads and Extensions 73,0 mm OD (5,5 mm Wall Thickness)

Product Specification	
Shaft OD	73,03mm
Wall Thickness	5,51mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	800 kN
Compression Load Limit*	622 kN
Ultimate Torsional Strength	17.63 kN.m
Uplift/Compression Capacity**	520 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 29 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 73,0 mm OD (5,5 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
73,03mm x 1,52m (9,53 x 203mm)	203	---	---	1,52	18	TL278276603810
73,03mm x 1,52m (9,53 x 254mm)	203	254	---		20	TL2782766038810
73,03mm x 1,52m (9,53 x 305mm)	254	305	---		23	TL27827660381012
73,03mm x 2,13m (9,53 x 203mm)	203	---	---	2,13	24	TL278276843810
73,03mm x 2,13m (9,53 x 254mm)	254	305	---		29	TL27827684381012
73,03mm x 2,13m (9,53 x 305mm)	203	254	305		31	TL278276843881012
73,03mm x 2,13m (9,53 x 356mm)	254	305	356		36	TL2782768438101214
73,03mm x 3,05m (9,53 x 203mm)	203	---	---	3,05	32	TL2782761203810
73,03mm x 3,05m (9,53 x 254mm)	203	254	---		34	TL27827612038810
73,03mm x 3,05m (9,53 x 305mm)	254	305	---		37	TL278276120381012
73,03mm x 3,05m (9,53 x 305mm)	203	254	305		38	TL2782761203881012
73,03mm x 3,05m (9,53 x 356mm)	254	305	356		44	TL27827612038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 73,0 mm OD (7,0 mm Wall Thickness)

Product Specification	
Shaft OD	73,03mm
Wall Thickness	7,01mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	800 kN
Compression Load Limit*	800 kN
Ultimate Torsional Strength	21.69 kN.m
Uplift/Compression Capacity**	640 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 29 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 73,0 mm OD (7,0 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
73,03mm x 1,52m (9,53 x 203mm)	203	---	---	1,52	20	TL27827660388
73,03mm x 1,52m (9,53 x 254mm)	254	---	---		22	TL278276603810
73,03mm x 1,52m (9,53 x 305mm)	305	---	---		23	TL278276603812
73,03mm x 1,52m (9,53 x 356mm)	356	---	---		25	TL278276603814
73,03mm x 1,52m (9,53 x 203 & 254mm)	203	254	---		24	TL2782766038810
73,03mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		27	TL27827660381012
73,03mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		30	TL27827660381214
73,03mm x 2,13m (9,53 x 203mm)	203	---	---	2,13	27	TL27827684388
73,03mm x 2,13m (9,53 x 254mm)	254	---	---		29	TL278276843810
73,03mm x 2,13m (9,53 x 305mm)	305	---	---		30	TL278276843812
73,03mm x 2,13m (9,53 x 356mm)	356	---	---		32	TL278276843814
73,03mm x 2,13m (9,53 x 203 & 254mm)	203	254	---		30	TL2782768438810
73,03mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		34	TL27827684381012
73,03mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		37	TL27827684381214
73,03mm x 2,13m (9,53 x 203, 254 & 305mm)	203	254	305		36	TL278276843881012
73,03mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356	41	TL2782768438101214	
73,03mm x 3,05m (9,53 x 203mm)	203	---	---	3,05	38	TL278276120388
73,03mm x 3,05m (9,53 x 254mm)	254	---	---		39	TL2782761203810
73,03mm x 3,05m (9,53 x 305mm)	305	---	---		41	TL2782761203812
73,03mm x 3,05m (9,53 x 356mm)	356	---	---		43	TL2782761203814
73,03mm x 3,05m (9,53 x 203 & 254mm)	203	254	---		41	TL27827612038810
73,03mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		44	TL278276120381012
73,03mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		48	TL278276120381214
73,03mm x 3,05m (9,53 x 203, 254 & 305mm)	8	10	12		46	TL2782761203881012
73,03mm x 3,05m (9,53 x 254, 305 & 356mm)	10	12	14		51	TL27827612038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 88,9 mm OD (6,4 mm Wall Thickness)

Product Specification	
Shaft OD	88,90mm
Wall Thickness	6,45mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	1.112 kN
Compression Load Limit*	934 kN
Ultimate Torsional Strength	24.41 kN.m
Uplift/Compression Capacity**	640 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 26 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 88,9 mm OD (6,4 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
88,90mm x 1,52m (9,53 x 254mm)	254	---	---	1,52	23	TL312254603810
88,90mm x 1,52m (9,53 x 305mm)	305	---	---		26	TL312254603812
88,90mm x 1,52m (9,53 x 356mm)	356	---	---		28	TL312254603814
88,90mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		29	TL31225460381012
88,90mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		33	TL31225460381214
88,90mm x 1,52m (9,53 x 254, 305 & 356mm)	254	305	356		34	TL31225460381214
88,90mm x 2,13m (9,53 x 254mm)	254	---	---	2,13	32	TL312254843810
88,90mm x 2,13m (9,53 x 305mm)	305	---	---		34	TL312254843812
88,90mm x 2,13m (9,53 x 356mm)	356	---	---		36	TL312254843814
88,90mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		37	TL31225484381012
88,90mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		41	TL31225484381214
88,90mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356		44	TL3122548438101214
88,90mm x 3,05m (9,53 x 254mm)	254	---	---	3,05	44	TL3122541203810
88,90mm x 3,05m (9,53 x 305mm)	305	---	---		46	TL3122541203812
88,90mm x 3,05m (9,53 x 356mm)	356	---	---		48	TL3122541203814
88,90mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		49	TL312254120381012
88,90mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		53	TL312254120381214
88,90mm x 3,05m (9,53 x 254, 305 & 356mm)	254	305	356		56	TL31225412038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 88,9 mm OD (9,3 mm Wall Thickness)

Product Specification	
Shaft OD	88,90mm
Wall Thickness	9,35mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	1.112 kN
Compression Load Limit*	1.290 kN
Ultimate Torsional Strength	36.61 kN.m
Uplift/Compression Capacity**	960 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 26 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,13

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 88,9 mm OD (9,3 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
88,90mm x 1,52m (9,53 x 254mm)	254	---	---	1,52	32	TL312368603810
88,90mm x 1,52m (9,53 x 305mm)	305	---	---		34	TL312368603812
88,90mm x 1,52m (9,53 x 356mm)	356	---	---		36	TL312368603814
88,90mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		37	TL31236860381012
88,90mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		40	TL31236860381214
88,90mm x 2,13m (9,53 x 254mm)	254	---	---	2,13	43	TL312368843810
88,90mm x 2,13m (9,53 x 305mm)	305	---	---		45	TL312368843812
88,90mm x 2,13m (9,53 x 356mm)	356	---	---		47	TL312368843814
88,90mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		48	TL31236884381012
88,90mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		52	TL31236884381214
88,90mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356	55	TL3123688438101214	
88,90mm x 3,05m (9,53 x 254mm)	254	---	---	3,05	60	TL3123681203810
88,90mm x 3,05m (9,53 x 305mm)	305	---	---		62	TL3123681203812
88,90mm x 3,05m (9,53 x 356mm)	356	---	---		64	TL3123681203814
88,90mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		65	TL312368120381012
88,90mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		68	TL312368120381214
88,90mm x 3,05m (9,53 x 254, 305 & 356mm)	254	305	356		72	TL31236812038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 114,3 mm OD (6,3 mm Wall Thickness)

Product Specification	
Shaft OD	114,30mm
Wall Thickness	6,35mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	1.223 kN
Compression Load Limit*	1.156 kN
Ultimate Torsional Strength	40.68 kN.m
Uplift/Compression Capacity**	867 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 21 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,12

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 114,3 mm OD (6,3 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
114,30mm x 1,52m (9,53 x 254mm)	254	---	---	1,52	38	TL412250603810
114,30mm x 1,52m (9,53 x 305mm)	305	---	---		39	TL412250603812
114,30mm x 1,52m (9,53 x 356mm)	356	---	---		41	TL412250603814
114,30mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		42	TL41225060381012
114,30mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		46	TL41225060381214
114,30mm x 2,13m (9,53 x 254mm)	254	---	---	2,13	51	TL412250843810
114,30mm x 2,13m (9,53 x 305mm)	305	---	---		53	TL412250843812
114,30mm x 2,13m (9,53 x 356mm)	356	---	---		55	TL412250843814
114,30mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		56	TL41225084381012
114,30mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		59	TL41225084381214
114,30mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356	63	TL4122508438101214	
114,30mm x 3,05m (9,53 x 254mm)	254	---	---	3,05	72	TL4122501203810
114,30mm x 3,05m (9,53 x 305mm)	305	---	---		73	TL4122501203812
114,30mm x 3,05m (9,53 x 356mm)	356	---	---		75	TL4122501203814
114,30mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		76	TL412250120381012
114,30mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		80	TL412250120381214
114,30mm x 3,05m (9,53 x 254, 305 & 356mm)	254	305	356		83	TL41225012038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 114,3 mm OD (8,5 mm Wall Thickness)

Product Specification	
Shaft OD	114,30mm
Wall Thickness	8,56mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	1.601 kN
Compression Load Limit*	1.556 kN
Ultimate Torsional Strength	65.08 kN.m
Uplift/Compression Capacity**	1.387 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 21 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,07
356	0,09
406	0,12

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 114,3 mm OD (8,5 mm) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
114,30mm x 1,52m (9,53 x 254mm)	254	---	---	1,52	29	TL412337603810
114,30mm x 1,52m (9,53 x 305mm)	305	---	---		31	TL412337603812
114,30mm x 1,52m (9,53 x 356mm)	356	---	---		33	TL412337603814
114,30mm x 1,52m (9,53 x 254 & 305mm)	254	305	---		34	TL41233760381012
114,30mm x 1,52m (9,53 x 305 & 356mm)	305	356	---		38	TL41233760381214
114,30mm x 2,13m (9,53 x 254mm)	254	---	---	2,13	40	TL412337843810
114,30mm x 2,13m (9,53 x 305mm)	305	---	---		41	TL412337843812
114,30mm x 2,13m (9,53 x 356mm)	356	---	---		44	TL412337843814
114,30mm x 2,13m (9,53 x 254 & 305mm)	254	305	---		45	TL41233784381012
114,30mm x 2,13m (9,53 x 305 & 356mm)	305	356	---		48	TL41233784381214
114,30mm x 2,13m (9,53 x 254, 305 & 356mm)	254	305	356	51	TL4123378438101214	
114,30mm x 3,05m (9,53 x 254mm)	254	---	---	3,05	55	TL4123371203810
114,30mm x 3,05m (9,53 x 305mm)	305	---	---		57	TL4123371203812
114,30mm x 3,05m (9,53 x 356mm)	356	---	---		59	TL4123371203814
114,30mm x 3,05m (9,53 x 254 & 305mm)	254	305	---		60	TL412337120381012
114,30mm x 3,05m (9,53 x 305 & 356mm)	305	356	---		64	TL412337120381214
114,30mm x 3,05m (9,53 x 254, 305 & 356mm)	254	305	356		67	TL41233712038101214

Notes:

Special orders are available, allow extra time for processing All products are available with 12,70mm thick helix plate

SCT Round Shaft Leads and Extensions 127,0 mm OD (9,1 mm Wall Thickness)

Product Specification	
Shaft OD	127,00mm
Wall Thickness	9,19mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	1.837 kN
Compression Load Limit*	1.837 kN
Ultimate Torsional Strength	100.33 kN.m
Uplift/Compression Capacity**	1.837 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 19 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	0,02
254	0,04
305	0,06
356	0,09
406	0,12

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 127,0 mm OD (9,1 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
127,00mm x 1,52m (12,7 x 254mm)	254	---	---	1,52	45	TL500362601210
127,00mm x 1,52m (12,7 x 305mm)	305	---	---		47	TL500362601212
127,00mm x 1,52m (12,7 x 356mm)	356	---	---		50	TL500362601214
127,00mm x 1,52m (12,7 x 406mm)	406	---	---		53	TL500362601216
127,00mm x 1,52m (12,7 x 254 & 305mm)	254	305	---		51	TL50036260121012
127,00mm x 1,52m (12,7 x 305 & 356mm)	305	356	---		56	TL50036260121214
127,00mm x 1,52m (12,7 x 356 & 406mm)	356	406	---		62	TL50036260121416
127,00mm x 2,13m (12,7 x 254mm)	254	---	---		2,13	62
127,00mm x 2,13m (12,7 x 305mm)	305	---	---	64		TL500362841212
127,00mm x 2,13m (12,7 x 356mm)	356	---	---	66		TL500362841214
127,00mm x 2,13m (12,7 x 406mm)	406	---	---	69		TL500362841216
127,00mm x 2,13m (12,7 x 254 & 305mm)	254	305	---	68		TL50036284121012
127,00mm x 2,13m (12,7 x 305 & 356mm)	305	356	---	72		TL50036284121214
127,00mm x 2,13m (12,7 x 356 & 406mm)	356	406	---	78		TL50036284121416
127,00mm x 2,13m (12,7 x 254, 305 & 356mm)	254	305	356	76		TL5003628412101214
127,00mm x 2,13m (12,7 x 305, 356 & 406mm)	305	356	406	90		TL5003628412121416
127,00mm x 3,05m (12,7 x 254mm)	254	---	---	3,05		86
127,00mm x 3,05m (12,7 x 305mm)	305	---	---		88	TL5003621201212
127,00mm x 3,05m (12,7 x 356mm)	356	---	---		91	TL5003621201214
127,00mm x 3,05m (12,7 x 406mm)	406	---	---		94	TL5003621201216
127,00mm x 3,05m (12,7 x 254 & 305mm)	254	305	---		92	TL500362120121012
127,00mm x 3,05m (12,7 x 305 & 356mm)	305	356	---		97	TL500362120121214
127,00mm x 3,05m (12,7 x 356 & 406mm)	356	406	---		103	TL500362120121416
127,00mm x 3,05m (12,7 x 254, 305 & 356mm)	254	305	356		100	TL50036212012101214
127,00mm x 3,05m (12,7 x 305, 356 & 406mm)	305	356	406		108	TL50036212012121416

Notes:

Special orders are available, allow extra time for processing All products are available with 15,88mm thick helix plate

SCT Round Shaft Leads and Extensions 139,7 mm OD (9,1 mm Wall Thickness)

Product Specification	
Shaft OD	139,70mm
Wall Thickness	9,16mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	2.268 kN
Compression Load Limit*	2.072 kN
Ultimate Torsional Strength	122.97 kN.m
Uplift/Compression Capacity**	2.072 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 18 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	N/A
254	0,04
305	0,06
356	0,08
406	0,11

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 139,7 mm OD (9,1 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
139,70mm x 1,52m (12,7 x 254mm)	254	---	---	1,52	49	TL512361601210
139,70mm x 1,52m (12,7 x 305mm)	305	---	---		51	TL512361601212
139,70mm x 1,52m (12,7 x 356mm)	356	---	---		54	TL512361601214
139,70mm x 1,52m (12,7 x 406mm)	406	---	---		57	TL512361601216
139,70mm x 1,52m (12,7 x 254 & 305mm)	254	305	---		55	TL51236160121012
139,70mm x 1,52m (12,7 x 305 & 356mm)	305	356	---		60	TL51236160121214
139,70mm x 1,52m (12,7 x 356 & 406mm)	356	406	---		65	TL51236160121416
139,70mm x 2,13m (12,7 x 254mm)	254	---	---		2,13	67
139,70mm x 2,13m (12,7 x 305mm)	305	---	---	69		TL512361841212
139,70mm x 2,13m (12,7 x 356mm)	356	---	---	72		TL512361841214
139,70mm x 2,13m (12,7 x 406mm)	406	---	---	75		TL512361841216
139,70mm x 2,13m (12,7 x 254 & 305mm)	254	305	---	73		TL51236184121012
139,70mm x 2,13m (12,7 x 305 & 356mm)	305	356	---	78		TL51236184121214
139,70mm x 2,13m (12,7 x 356 & 406mm)	356	406	---	83		TL51236184121416
139,70mm x 2,13m (12,7 x 254, 305 & 356mm)	254	305	356	81		TL5123618412101214
139,70mm x 2,13m (12,7 x 305, 356 & 406mm)	305	356	406	89	TL5123618412121416	
139,70mm x 3,05m (12,7 x 254mm)	254	---	---	3,05	94	TL5123611201210
139,70mm x 3,05m (12,7 x 305mm)	305	---	---		97	TL5123611201212
139,70mm x 3,05m (12,7 x 356mm)	356	---	---		99	TL5123611201214
139,70mm x 3,05m (12,7 x 406mm)	406	---	---		102	TL5123611201216
139,70mm x 3,05m (12,7 x 254 & 305mm)	254	305	---		100	TL512361120121012
139,70mm x 3,05m (12,7 x 305 & 356mm)	305	356	---		105	TL512361120121214
139,70mm x 3,05m (12,7 x 356 & 406mm)	356	406	---		110	TL512361120121416
139,70mm x 3,05m (12,7 x 254, 305 & 356mm)	254	305	356		108	TL51236112012101214
139,70mm x 3,05m (12,7 x 305, 356 & 406mm)	305	356	406	116	TL51236112012121416	

Notes:

Special orders are available, allow extra time for processing All products are available with 15,88mm thick helix plate

SCT Round Shaft Leads and Extensions 177,8 mm OD (12,6 mm Wall Thickness)

Product Specification	
Shaft OD	177,80mm
Wall Thickness	12,65mm
Shaft Material	API 5CT N80
Shaft Coupling	Inertia Welded ¹
Coupling Materials (Pin/Box)	AISI 4140/4125
Helix Material	ASTM A572
Corrosion Protection	Hot Dip Galvanized ²

¹:Per AWS C6.2

²:Per ASTM A123

Capacity	
Ultimate Tension Strength*	4.443 kN
Compression Load Limit*	3.620 kN
Ultimate Torsional Strength	244.05 kN.m
Uplift/Compression Capacity**	3.603 kN

* : Based on Mechanical Strength of Steel Material

** : Based on Ultimate Torsion, $K_t = 14 \text{ m}^{-1}$

Helix Diameter (mm)	Helix Area (m ²)
203	N/A
254	N/A
305	0,05
356	0,07
406	0,10

Note:

Helix shape and thickness are custom designed.



Helical Anchor, 177,8 mm OD (12,6 mm wall) Tubular Leads

*Refer to Table A: Structural Capacity Table (SCT)



Product Description	Plate Diameter (mm)			Length (m)	Weight (kg)	Part Number
	A	B	C			
177,80mm x 1,52m (12,7 x 305mm)	305	---	---	1,52	85	TL700498601212
177,80mm x 1,52m (12,7 x 356mm)	356	---	---		87	TL700498601214
177,80mm x 1,52m (12,7 x 406mm)	406	---	---		90	TL700498601216
177,80mm x 1,52m (12,7 x 305 & 356mm)	305	356	---		91	TL70049860121214
177,80mm x 1,52m (12,7 x 356 & 406mm)	356	406	---		97	TL70049860121416
177,80mm x 2,13m (12,7 x 305mm)	305	---	---	2,13	116	TL700498841212
177,80mm x 2,13m (12,7 x 356mm)	356	---	---		118	TL700498841214
177,80mm x 2,13m (12,7 x 406mm)	406	---	---		121	TL700498841216
177,80mm x 2,13m (12,7 x 305 & 356mm)	305	356	---		123	TL70049884121214
177,80mm x 2,13m (12,7 x 356 & 406mm)	356	406	---		128	TL70049884121416
177,80mm x 2,13m (12,7 x 305, 356 & 406mm)	305	356	406	133	TL7004988412121416	
177,80mm x 3,05m (12,7 x 305mm)	305	---	---	3,05	163	TL7004981201212
177,80mm x 3,05m (12,7 x 356mm)	356	---	---		165	TL7004981201214
177,80mm x 3,05m (12,7 x 406mm)	406	---	---		168	TL7004981201216
177,80mm x 3,05m (12,7 x 305 & 356mm)	305	356	---		170	TL700498120121214
177,80mm x 3,05m (12,7 x 356 & 406mm)	356	406	---		176	TL700498120121416
177,80mm x 3,05m (12,7 x 305, 356 & 406mm)	305	356	406	180	TL70049812012121416	

Notes:

Special orders are available, allow extra time for processing All products are available with 15,88mm thick helix plate

Helical Anchors Tubular Extensions



Product Description	Wall Size (mm)	Length (m)	Weight (kg)	Part Number
60,33mm x 1,52m	4,83	1,52	12	TE23819060
60,33mm x 2,13m		2,13	16	TE23819084
60,33mm x 3,05m		3,05	23	TE238190120
60,33mm x 1,52m	6,45	1,52	15	TE23825460
60,33mm x 2,13m		2,13	20	TE23825484
60,33mm x 3,05m		3,05	28	TE238254120
73,03mm x 1,52m	5,51	1,52	18	TE27821760
73,03mm x 2,13m		2,13	24	TE27821784
73,03mm x 3,05m		3,05	32	TE278217120
73,03mm x 1,52m	7,01	1,52	21	TE27827660
73,03mm x 2,13m		2,13	28	TE27827684
73,03mm x 3,05m		3,05	39	TE278276120
88,90mm x 1,52m	6,45	1,52	28	TE31225460
88,90mm x 2,13m		2,13	36	TE31225484
88,90mm x 3,05m		3,05	48	TE312254120
88,90mm x 1,52m	9,35	1,52	34	TE31236860
88,90mm x 2,13m		2,13	46	TE31236884
88,90mm x 3,05m		3,05	63	TE312368120
114,30mm x 1,52m	6,35	1,52	36	TE41225060
114,30mm x 2,13m		2,13	46	TE41225084
114,30mm x 3,05m		3,05	61	TE412250120
114,30mm x 1,52m	8,56	1,52	50	TE41233760
114,30mm x 2,13m		2,13	64	TE41233784
114,30mm x 3,05m		3,05	84	TE412337120

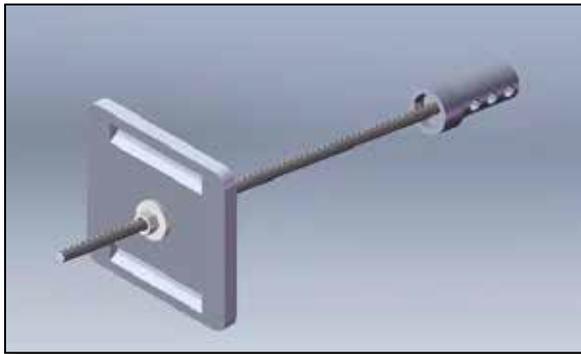
Helical Anchors Tubular Extensions



Product Description	Wall Size (mm)	Length (m)	Weight (kg)	Part Number
127,00mm x 1,52m	9,19	1,52	51	TE50036260
127,00mm x 2,13m		2,13	67	TE50036284
127,00mm x 3,05m		3,05	92	TE500362120
139,70mm x 1,52m	9,16	1,52	58	TE51236160
139,70mm x 2,13m		2,13	76	TE51236184
139,70mm x 3,05m		3,05	103	TE512361120
177,80mm x 1,52m	12,65	1,52	107	TE70049860
177,80mm x 2,13m		2,13	138	TE70049884
177,80mm x 3,05m		3,05	186	TE700498120

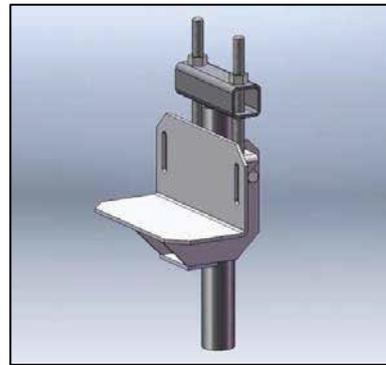
Helical Anchors Accessories*

*: Custom Designed Accessories are available based on request.



TIE BACK PACKAGE

Used for temporary wall or permanent.
Includes coupler, washers, adapter, threaded rod, and wall plate.

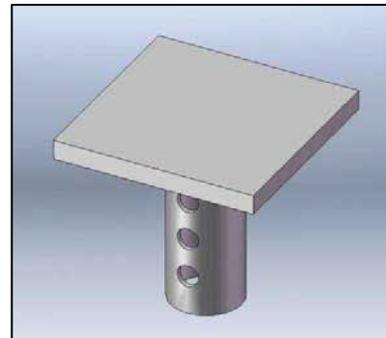


STANDARD BRACKET

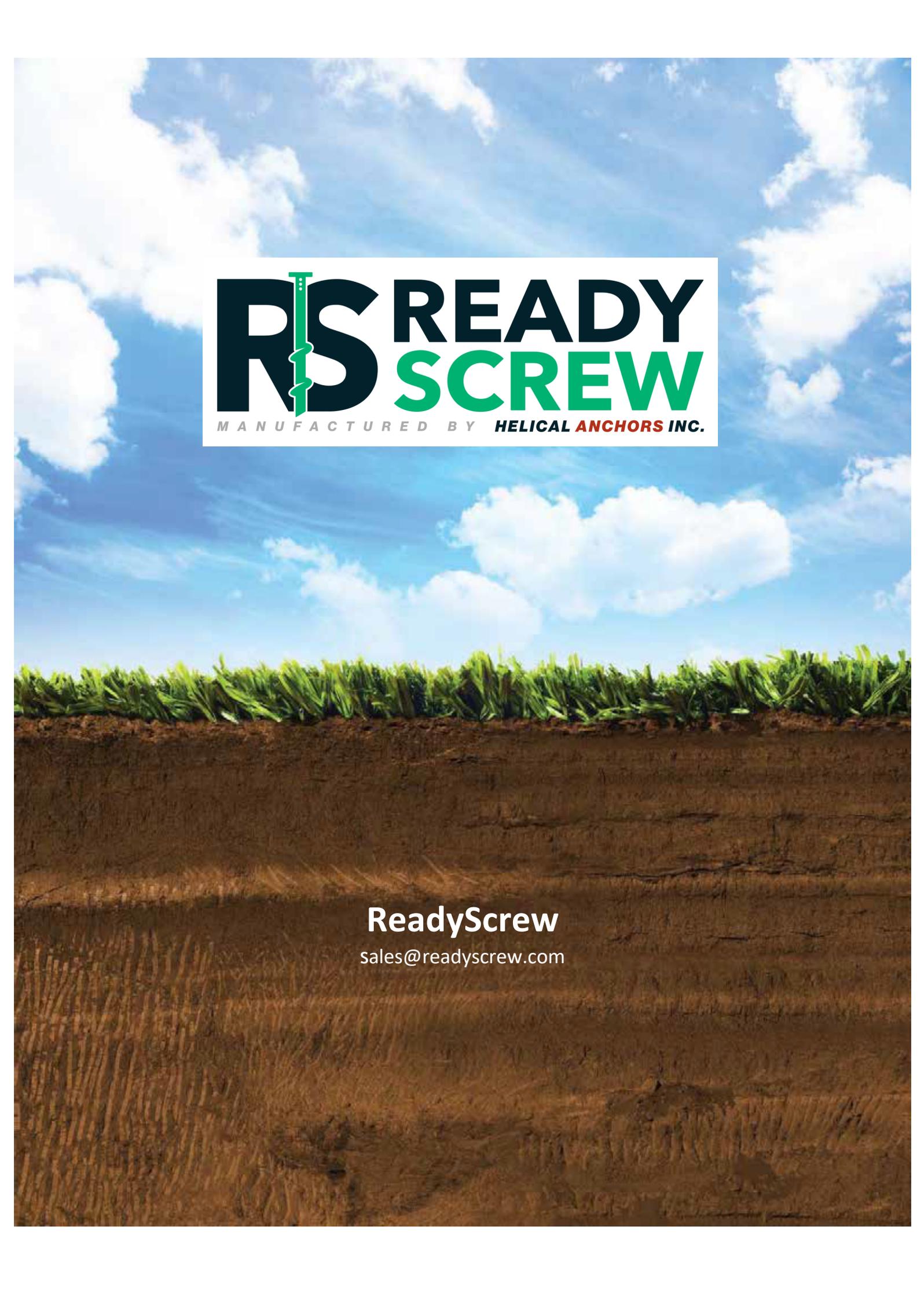
with T-pipe
{177 kN, 355 kN Capacity} For stabilizing/lifting repairs of existing foundations.

NEW CONSTRUCTION CAP

Placed on foundation anchors for support of new structures. Tied to reinforcement prior to concrete being poured. Available in 152mm, 203mm, 254mm and 305mm square.



	OD	203x203x19	203x203x25	254x254x19	254x254x25	305x305x19	305x305x25
Cap (mm)	60,33	173	186	151	200	138	178
Capacity (kN)	73,03	209	226	169	244	151	222
	88,90	262	294	200	294	173	289
	114,30	289	311	222	306	186	302



**RS READY
SCREW**
MANUFACTURED BY **HELICAL ANCHORS INC.**

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