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# D7 Series 1-1/2" High Strength RCS Helical Piles/Anchors

### MacLean-Dixie D7 Series 1-1/2 RCS Helical Piles/Anchors for Compression and Tension Applications



D7 Series 1-1/2" RCS Pile		
Torque Capacity (ft-lbs)	7,000 ft-lbs	
Ultimate Tension/Compression Capacity	70 KIPS	
(pounds-force)	(35 tons)	
Shaft Size across the Flats - inches	1-1/2"	
Shaft Material	ASTM A576 Grade 1530M	
Helix Material	AISI Grade 1011/1018 HSLA 55	









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#### **Features and Benefits:**

- Used for tension and compression loads
- Used for new foundation construction or repair
- Installed with no vibration
- Available for immediate use --- no concrete or grout to cure
- No spoils
- Forged square socket coupling system no bolts in shear during installation no elongated or torn bolt holes and no bent bolts during installation
- Integral socket hot forged with induction heat no welds
- Improved productivity; bolt holes align for faster assembly just insert next extension and add bolt. No alignment issues when in tight quarters
- Greater torque capacity for size best performance value
- Best used in dense soils where higher torque requirements compared to pipe piles
- Can also use as lead with P28 series pipe piles as combo piles
- Helical piles/anchors may be removed
- Contributes to "Green" environment
- Available standard hot dip galvanized ASTM A-153 or black (not coated)
- ICC AC358 Acceptance Criteria For Helical Foundation Systems and Devices Tests:
  - o Full scale Compression Load Test in sand and clay
  - o Full scale Tension Load Test in sand and clay
  - Full scale Lateral Load Test
  - Shaft Torsion
  - Helix Torsion
  - Coupling Rigidity
  - Helix Capacity
  - Bracket Capacity





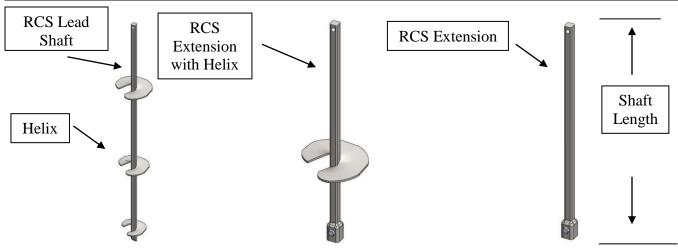
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# D7 Series 1-1/2" High Strength RCS Helical Piles/Anchors

Catalog	Description	Shaft Length	Helices
Number *			
D79.5S8	1-1/2" RCS x 9.5" helical lead with 8" (3/8") helix	9.5"	8
D760S8	1-1/2" RCS x 60" helical lead with 8" (3/8") helix	60"	8
D760S10	1-1/2" RCS x 60" helical lead with 10" (3/8") helix	60"	10
D760S12	1-1/2" RCS x 60" helical lead with 12" (3/8") helix	60"	12
D760S810	1-1/2" RCS x 60" helical lead with 8-10" (3/8") helix	60"	8-10
D760S1012	1-1/2" RCS x 60" helical lead with 10-12" (3/8") helix	60"	10-12
D784S8	1-1/2" RCS x 84" helical lead with 8" (3/8") helix	84"	8
D784S10	1-1/2" RCS x 84" helical lead with 10" (3/8") helix	84"	10
D784S12	1-1/2" RCS x 84" helical lead with 12" (3/8") helix	84"	12
D784S810	1-1/2" RCS x 84" helical lead with 8-10" (3/8") helix	84"	8-10
D784S1012	1-1/2" RCS x 84" helical lead with 10-12" (3/8") helix	84"	10-12
D784S81012	1-1/2" RCS x 84" helical lead with 8-10-12" (3/8") helix	84"	8-10-12
D784S101214	1-1/2" RCS x 84" helical lead with 10-12-14" (3/8") helix	84"	10-12-14
D7E42S14	1-1/2" RCS x 42" extension with 14" (3/8") helix	42"	14
D7E60S12	1-1/2" RCS x 60" extension with 12" (3/8") helix	60"	12
D7E60S14	1-1/2" RCS x 60" extension with 14" (3/8") helix	60"	14
D7E84S14	1-1/2" RCS x 84" extension with 14" (3/8") helix	84"	14
D7E42	1-1/2" RCS x 42" extension	42"	
D7E60	1-1/2" RCS x 60" extension	60"	
D7E84	1-1/2" RCS x 84" extension	84"	
D7E120	1-1/2" RCS x 120" extension	120"	

Note: Standard Galvanized. Add "U" for black (not galvanized) \* Other sizes are available upon request Note: Warranty which includes ICC AC358 will be deemed invalid if all material for either the foundation pile or tension anchor is not MacLean Dixie.







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MacLean-Dixie Helical Piles and Anchors undergoing rigorous testing at an IAS accredited lab to ICC AC358 Acceptance Criteria For Helical Foundation Systems and Devices. Ongoing quality control program per AC10 with inspections by an IAS accredited inspection agency per AC98



Full scale field testingcompression/tension/lateral



Measuring Deflection



Helix Strength Test



**Torsion Testing** 



**Bracket Testing** 

