

Magnum® Piering Helical Pile Specifications



Magnum® Helical Pile Products	System Ratings & Capacity Specifications													
	Shaft Wall Gauge (in)	Shaft O.D. (in)	Approx Weight (plf)	Structural Capacity (Tension & Comp)		Maximum Torque (ft-lbs)	Capacity to Torque Ratio (ft ⁻¹)	Capacity by Torque (Tension & Comp)		Helix Sizes (available in standard & dual cutting edge) (in)	Helix Gauge (in)	Bolted (B) or Welded (W) Connection	Hot Dip Galvanized ASTM A153	Standard Section Lengths (custom sizes available) (ft)
				Ultimate (tons) Bare / Galv	Allowable (tons) Bare / Galv			Ultimate (tons)	Allowable (tons)					
MHL313	0.13	3.00	3.8	26 / 35	13 / 17	4,000	8.0	16	8	8,10,12,14	0.375	B (1)	standard	6, 12, 24
MHL313R	0.13	3.00	3.8	26 / 35	13 / 17	6,000	8.0	24	12	8,10,12,14	0.375	B (1)	standard	6, 12, 24
MHL325	0.25	3.00	7.3	60 / 68	30 / 34	8,700	8.0	35	17	8,10,12,14	0.375	B (1)	standard	6, 12, 24
MHL325R	0.25	3.00	7.3	60 / 68	30 / 34	12,700	8.0	51	25	8,10,12,14	0.375	B (1)	standard	6, 12, 24
MHL425	0.25	4.50	11.6	93 / 105	47 / 53	24,000	5.7	68	34	10,12,14,16	0.625	B (2)	optional	7, 10, 24
MHL425R	0.25	4.50	11.6	93 / 105	47 / 53	28,000	5.7	80	40	10,12,14,16	0.625	B (2)	optional	7, 10, 24
MHL431	0.31	4.50	14.3	118 / 131	59 / 65	29,000	5.7	83	41	10,12,14,16	0.625	B (2)	optional	7, 10, 24
MHL431R	0.31	4.50	14.3	118 / 131	59 / 65	34,000	5.7	97	48	10,12,14,16	0.625	B (2)	optional	7, 10, 24
MHL625	0.25	5.72	15.0	120 / 136	60 / 68	40,000	4.6	92	46	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
MHL625R	0.25	5.72	15.0	120 / 136	60 / 68	45,000	4.6	104	52	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
MHL637	0.37	5.72	21.2	180 / 196	90 / 98	58,000	4.6	133	67	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
MHL637R	0.37	5.72	21.2	180 / 196	90 / 98	65,000	4.6	150	75	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
MHL646	0.46	5.72	27.2	238 / 253	119 / 127	74,000	4.6	170	85	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
MHL646R	0.46	5.72	27.2	238 / 253	119 / 127	83,000	4.6	191	95	12,16,20,24	0.875	W or B (3)	optional	6, 9, 18, 24
Magnum Patented Dual-Cutting Edge Blades Available on All Products	Improved Penetration into Dense & Cobble Soils, Cuts Through Many Fills/Trash, Eliminates Wobble, Maintains Plumbness, Less Soil Disturbance													

R = Reinforced

Magnum's patent pending reinforced helical pile to torque motor connection design increases the torsional capacity of the pinned connection to the torque motor and therefore increases the pile's ultimate capacity by approximately 10%.

Notes and Specifications

All Magnum helical pile products are manufactured using minimum 65 ksi minimum yield strength structural tubing, or better, for the shaft and ASTM A36 plate steel, or better, for the helical bearing plates. As Magnum is committed to testing and improving products, these specifications are subject to change. Additional product specifications available at www.magnumpiering.com and in the **Magnum Helical Pile Engineering Manual** available upon request. End bearing capacity is for piles bearing on competent rock with fully braced pile cap.