

MAGNUM® MHC1082-4B2 Adjustable Plate Cap

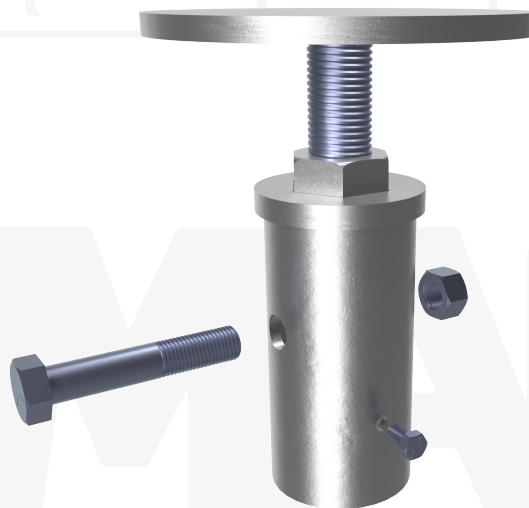
Allowable Capacity 20 Tons Compression / 20 Tons Tension

14"Ø x 5/8" Bearing Plate & 4.63-Inch I.D. Collar
Fits MH429 & MH434 Helical Piles

Description: MAGNUM® Adjustable Plate Caps consist of a collar tube with a bolt hole for connection to MAGNUM® helical piles and a circular bearing plate secured to a large diameter threaded bar that allows up to 3-1/2" of vertical adjustment. The unique design of this cap allows it to be used in applications where lateral loads and/or bending will be applied to the top of the pile, which can only be resisted by the strength of an equally rigid thread bar. MAGNUM® products are manufactured in the USA according to our ISO 9001 approved quality program. Structural capacities are developed according to AISC 360 considering an average design life of 75 years for bare steel in most soil conditions. Hot-dip galvanizing is available upon request. Design and detailing of the structure, to which bearing plate cap is attached varies by project and is the responsibility of the registered design professional.

Specifications	
Collar Tube	0.31" x 4.63" I.D. ASTM A513, Fy = 65 ksi or Better
End Effector	14"Ø x 5/8" Steel Bearing Plate with 3.0"Ø Thread Bar
Pile Connection	(1) 1-1/4" SAE J429 Grade 5 Zinc Coated to ASTM B695/F1941
Coating	Spray Galvanized per ASTM A780 (SG), Bare Steel (NG), or Epoxy Coated per ICC-ES AC228 (EP)
Compatibility	MH429(-6), MH434(-6)
Capacity	
Ultimate Compression/ Tension	40 Tons / 40 Tons
Allowable Compression/ Tension	20 Tons / 20 Tons

Notes: Cap capacity is developed using the ASD design method and considers strength of collar, end effector, and pile connection. Capacity may be limited by the helical pile itself, bearing/pullout capacity of soil, or strength of the structure to which the cap is attached.



Installation Notes: After installation of a MAGNUM® Helical Pile to the correct depth, torque, and capacity cut off the pile at the proper elevation; note pile must be set at +0"/-3.5" from planned elevation. If pile shaft is set higher than this elevation range due to reaching maximum torque or refusal, stop installation and cut-off the pile shaft at the proper elevation. Drill (1) 1-5/16" diameter hole through the shaft using a MAGNUM® drill template, place the cap over the shaft and secure with (1) 1-1/4" bolt. Snug tighten nut. Adjust to final elevation by turning plate as required. Tighten set screw to prevent wobble. Place steel beam/post on cap and weld or secure as required for the project.

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