

MAGNUM[®] MP1600-3 Concentric Lift Cap

Allowable Capacity - 26 Tons Compression

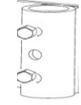
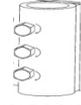
3.13-Inch I.D. Collar with 8"x8" Bearing Plate and Jack Housing Assembly
Fits MP313 and MP325 Magnum[®] Push Piers

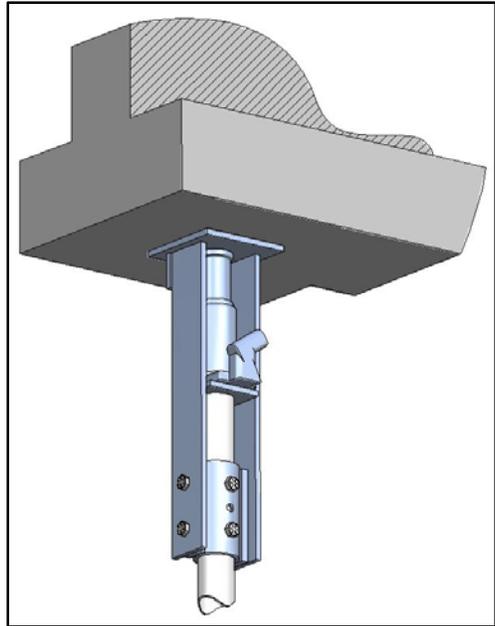


Description

The MAGNUM MP1600-3 Concentric Lift Cap is designed for use with steel push piers jacked directly below the footing or load bearing wall for all types of foundation repairs. The cap has an 8"x8"x1/2" bearing plate for a total of 64 in² of bearing area. Rather than costly and less stable multiple threadbars, the MHC1600-3 cap uses the same 3-1/8" collar lock-off technology as other Magnum push piercing systems. Lock-off using one, two or three 3/4" ASTM A490 high strength bolts. The advantage of this system over others is in its simplicity and strength. More stable and easier to use, the MP1600-3 will provide long lasting support at an economic price.

SPECIFICATIONS	
Collar Tube	0.25 in. x 3.13 in. I.D. ASTM A513 GR65+
End Effector	8"x8"x1/2" ASTM A36 Plate
Pile Connection	(1), (2), or (3) 3/4" ASTM A490 Bolts
Surface Coating	Galvanized per ASTM A153/A123 (G), Bare Steel (NG), Painted (P), or Epoxy Coated per ICC-ES AC228 (EP)
Compatibility	MP313 and MP325

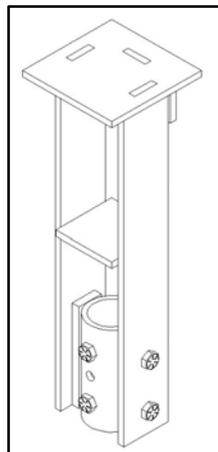
CONNECTION TYPE	ULTIMATE CAPACITY* 0.13 / 0.25 Wall Pile	ALLOWABLE CAPACITY* 0.13 / 0.25 Wall Pile
 SINGLE BOLTED	10 Tons / 18 Tons	5 Tons / 9 Tons
 DOUBLE BOLTED	17 Tons / 35 Tons	8 Tons / 18 Tons
 TRIPLE BOLTED	28 Tons / 53 Tons	14 Tons / 26 Tons



Installation Notes:

Excavate minimum 30 inch deep narrow OSHA safe trench under foundation at designated pile location. Install steel push pier under center of footing pad or grade beam using hydraulic jack with minimum 6" stroke, two 6" shim pipes, and 18" push pier sections. Perform a pile load test upon pile completion using the installation ram. Hold pressure for a minimum 15 minutes with less than 1/32" movement. Cut-off pile at least 13.5 inches from bottom of footing/grade beam. Slide collar tube over pile. Position concentric lifting frame over pile and bolt to collar tube. Place thin layer of high strength, fast-setting, non-shrink grout over top plate. Using ram, force top plate upward against bottom of foundation and apply small setting pressure (typically 500 psi). Allow grout to set a minimum of 30 minutes. Lift and re-level structure as desired. Drill and lock-off collar tube by installing one, two, or three 3/4" bolts as required for design load. Remove jack.

*Bracket connection to pile consists of field threaded blind bolts as described in Section 7-13 of AISC Code. Capacities shown are based on IAS accredited laboratory testing of Magnum products.



All Magnum Steel & Products Made in U.S.A.

U.S. Patents 6,058,662 and 5,234,287; Other Patents Pending.

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