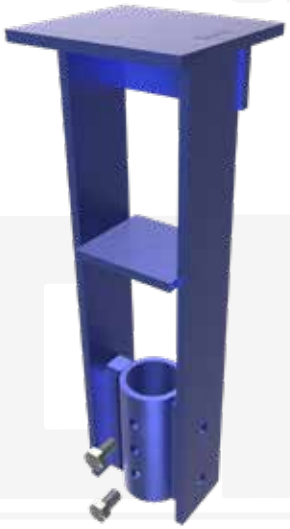
MAGNUM® MP1600-3 Concentric Lift Bracket
Allowable Capacity 25 Tons Compression
8” x 8” x 1/2” Bearing Plate with Jack Housing Assembly and 3.13-Inch I.D. Collar
Fits MP313 and MP325 Steel Push Piers

Description: The MAGNUM® Concentric Lift Bracket 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″ x 8″ x 1/2″ bearing plate for a total of 64 sq.in of bearing area. Rather than costly and less stable multiple thread bars, the MHC1600-3 cap uses the same 3-1/8″ collar lock-off technology as other MAGNUM® push piering systems. Lock-off using one, two or three 3/4″ 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. Design and detailing of the connection to the structure varies by project and is the responsibility of the registered design professional including maximum concrete span, pier spacing, concrete shear, and concrete bearing.

Specifications	
Collar Tube	0.25 in. x 3.13 in. I.D. ASTM A513, Fy = 65 ksi or Better
Configuration	8″ x 8″ x 1/2″ ASTM A36 Plate
Pile Connection	(1, 2, or 3) 3/4″ J429 Grade 8 Zinc Coated to ASTM B695/F1941
Surface Coating	Galvanized per ASTM A153/A123 (G), Bare Steel (NG) or MAGNUM® Blue Paint (P)
Compatibility	MP313 & 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 / 50 Tons	14 Tons / 25 Tons

*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.



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. Lock-off the pile to the bracket with one, two or three 3/4” Grade 8 bolts, or weld. To lock-off the pile, drill 11/16” diameter hole in pile shaft through threaded hole(s) in bracket collar. Install bolt(s) and use impact wrench to force bolt through pile shaft wall. Then remove jack.

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