## ATLAS RESISTANCE® Pier Foundation Systems

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### **Foundation Repair Systems** for Civil Construction Applications: **Residential, Commercial, Industrial**

Atlas Resistance<sup>®</sup> Piers have been used to restore and/or stabilize homes and commercial structures that had settled due to a wide variety of soil problems.

Foundation settlement and movement can be caused by building on expansive clay, compressible or improperly compacted fill soils, or improper maintenance around foundations. Whatever the cause, settlement can destroy the value of structures and render them unsafe.





### **Cost-effective rapid piers** fit your job requirements

Installation by smooth hydraulic pressure extends pier to reach competent end-bearing soil stratum.

Properly installed, Atlas Resistance Piers can prevent settlement, stabilize foundations and restore settled structures nearly to their original positions, often closing structural defects such as cracks and deformities caused by the the settlement. Because the solution is both

permanent and economically attractive, the structures retain or recover their value.

True end-bearing Atlas Resistance Piers are sold and installed only by contractors trained by Atlas and authorized to recommend and provide appropriate solutions to a wide range of soil problems.

Design professionals may request a Chance® **Civil Construction Technical Design Manual** on CD from their Distributor or Territory



Manager listed on our web sites: www.atlassys.com or www.abchance.com.

### Verifiable factor of safety achieved on each pier as installed

•Reach competent soil below active zone •Extendable in 3<sup>1</sup>/<sub>2</sub>-ft. sections •No excavation or spoils to remove Installs in limited access

•Loads may be immediately applied Installs in any weather condition

*Desian	Pier	Brad	ket Sys	stems	Appli	cations
Capacity	Dia.	Under Footing	Continuous Lift	Plate	Pre-Drilled	Helical Tie- back Combo
0 - 35 kip	2 <sup>7</sup> / <sub>8</sub> "	Page 3	Page 4	Page 5	Page 6	Page 7
0 - 45.5 kip	<b>3</b> ½"	Page 3	Page 4	Page 5	Page 6	Page 7
0 - 55 kip	4"	Page 3	Page 4	Page 5	Page 6	Page 7
0 - 70.5 kip	<b>4</b> <sup>1</sup> / <sub>2</sub> "	Page 3	Page 4	Page 5	Page 6	

\*Based on a Safety Factor of 2 for pier ultimate mechanical strength.

For sample specs, technical library, case histories and distributors, go to

## **Atlas Resistance® Piers** Under Footing Bracket Systems • For lifts up to 4"

### Standard-Series and N-Series models

Under Footing Bracket Atlas Resistance<sup>®</sup> Piers have 2<sup>7</sup>/<sub>8</sub>" to 4<sup>1</sup>/<sub>2</sub>" diameter pier sections with 0.165" to 0.237" wall thickness. Two-stage hydraulic installation develops end-bearing piers with a verifiable factor of safety. Multiple finishes and brackets are available. For more details, see the Chance Civil Construction Technical Design Manual, Bulletin 01-0605.



*Design Capacity	Under Footing Bracket Systems Atlas Resistance <sup>®</sup> Pier Sizes	
0 - 30 kip	2 <sup>7</sup> / <sub>8</sub> " Pier Diameter	
0 - 35 kip	2 <sup>7</sup> / <sub>8</sub> " Pier Diameter, Modified with reinforcing sleeve	
0 - 42.5 kip	3 <sup>1</sup> / <sub>2</sub> " Pier Diameter	
0 - 45.5 kip	3 <sup>1</sup> / <sub>2</sub> " Pier Diameter, Modified with reinforcing sleeve	
0 - 49 kip	4" Pier Diameter	
0 - 70.5 kip	4 <sup>1</sup> / <sub>2</sub> " Pier Diameter	



### **Atlas Resistance<sup>®</sup> Piers**

### • For lifts exceeding 4", bracket fits under footing Exceptional, extended lift capabilities

**Continuous Lift Bracket** Atlas Resistance<sup>®</sup> Piers have 2<sup>7</sup>/<sub>8</sub> to 4<sup>®</sup> diameter pier sections with 0.165" to 0.219" wall thickness. Two-stage hydraulic installation develops end-bearing piers with a verifiable factor of safety. Multiple finishes are available. For more details, see the Chance Civil Construction Technical Design Manual, Bulletin 01-0605.



Continuous Lift Plate Bracket Atlas Resistance® Pier Systems also are available by special order. See page 5 for general information on Plate Bracket Systems.

*Design Canacity	Continuous Lift Bracket Systems
0 - 20 kin	2 <sup>7</sup> / <sub>6</sub> " Pier Diameter
0 - 30.5 kip	$3\frac{1}{2}$ " Pier Diameter
0 - 50 kip	4" Pier Diameter

## **Atlas Resistance<sup>®</sup> Piers**

# Plate Bracket Systems Easy surface mount installation Also for round columns (custom manufactured)

### • For lifts up to 4"

Plate Bracket Atlas Resistance<sup>®</sup> Piers have 2<sup>7</sup>/<sub>8</sub>" to 4<sup>1</sup>/<sub>2</sub>" diameter pier sections with 0.165" to 0.237" wall thickness. Two-stage hydraulic installation develops end-bearing piers with a verifiable factor of safety. Multiple finishes are available. For more details, see the Chance Civil Construction Technical Design Manual, Bulletin 01-0605.







Continuous Lift Plate Bracket Atlas Resistance® Pier Systems also are available by special

order (see page 4). Pre-Drilled Plate Bracket Atlas Resistance® Pier Systems also are available by special order (see page 6).

*Design Capacity	Plate Bracket Systems Atlas Resistance <sup>®</sup> Pier Sizes
0 - 35 kip	2 <sup>7</sup> / <sub>8</sub> " Pier Diameter
0 - 45 kip	3 <sup>1</sup> / <sub>2</sub> " Pier Diameter
0 - 51.5 kip	4" Pier Diameter
0 - 56 kip	4 <sup>1</sup> / <sub>2</sub> " Pier Diameter



## **Atlas Resistance<sup>®</sup> Piers**

## Pre-Drilled Systems For lifts up to 4"

- For penetrating unsuitable rock near surface
- For digger head clearance, drilled hole eccentricity may be  $6\frac{3}{4}$ " from wall to pipe centerline

**Pre-Drilled Bracket** Atlas Resistance<sup>®</sup> Piers have  $2\frac{7}{8}$ <sup>"</sup> to  $4\frac{1}{2}$ " diameter pier sections with 0.165" to 0.237" wall thickness. Two-stage hydraulic installation develops end-bearing piers with a verifiable factor of safety. Multiple finishes are available. For more details, see the Chance Civil Construction Technical Design Manual, Bulletin 01-0605.



Pre-Drilled Plate Bracket Atlas Resistance® Pier Systems also are available by special order with capacities matching those listed below. See page 5 for general information on Plate Bracket Systems.

*Design Capacity	Pre-Drilled Bracket Systems Atlas Resistance <sup>®</sup> Pier Sizes
0 - 29 kip	2 <sup>7</sup> / <sub>8</sub> " Pier Diameter
0 - 31 kip	3 <sup>1</sup> / <sub>2</sub> " Pier Diameter
0 - 38 kip	4" Pier Diameter
0 - 46 kip	4 <sup>1</sup> / <sub>2</sub> " Pier Diameter

\*Based on a Safety Factor of 2 for pier ultimate mechanical strength.

For sample specs, technical library, case histories and distributors, go to www.atlassys.com

## Atlas Resistance® Piers

### **Atlas Resistance Pier & Helical Tieback Combo**

### • For lateral support needed in conjunction with Atlas Resistance Pier

Where site conditions and load requirements warrant, this system combines Chance<sup>®</sup> helical tieback anchors with Atlas Resistance<sup>®</sup> Piers. The helical anchors contribute lateral support to the piers providing vertical support. This unique combination forms a fast, effective solution for challenges beyond the capabilities of other systems.



*Pier Design	Pier and Tieback Combo Bracket Systems				
Capacity	Atlas Resistance <sup>®</sup> Modified Piers	Chance <sup>®</sup> Helical Tieback Anchors			
0 - 35 kip	2 <sup>7</sup> / <sub>8</sub> " Pier Diameter, reinforced top section	1 <sup>1</sup> / <sub>4</sub> " RC Square Shaft SS125 Series			
0 - 45.5 kip	3 <sup>1</sup> / <sub>2</sub> " Pier Diameter, reinforced top section	1 <sup>1</sup> / <sub>2</sub> " RC Square Shaft SS5 and SS150 Series			
0 - 55 kip	4" Pier Diameter, reinforced top section	1 <sup>1</sup> / <sub>2</sub> " RC Square Shaft SS5 and SS150 Series			
		1 <sup>3</sup> / <sub>4</sub> " RC Square Shaft SS175 Series			

## Anchoring the World

With both the CHANCE<sup>®</sup> and ATLAS<sup>™</sup> brands, Chance Civil Construction is the international leader in earth anchoring and structural mitigation. CHANCE Helical piles and ATLAS Resistance® piers are used worldwide to secure residential and commercial buildings, tower foundations, heavy equipment foundations and many other deep foundation applications.

Engineered for dependability and long-term stability, our systems feature exclusive anchoring techniques, tools, designs and sizes that make other foundation methods a thing of the past.

Selected by application, our systems are your first line of defense against poor soil conditions, floods and time.

# Demand A Better Foundation

With nearly 400 dealers and distributors nationwide and in Canada, we are ready to provide you everything you need to get the job done right. We offer engineering guidance, field supervision, accessibility, warehouses, material traceability, AWCcertified welders, technical support and complete documentation.

Ask a distributor near you for our comprehensive design manual (hardcopy or CD) or download a complete Sample Specification Guide online. Demand a better foundation today. Locate your nearest distributor at our web sites below.

## Down. Right. Solid.

Our tagline is our promise. Our foundation and anchoring products go down with power into the ground and are accurate, level and right the first time. The result is solid stability.



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Fax (573) 682-8660

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