

3-1/2" Resistance Pile

3-1/2" Resistance (Push) Pile System (patent pending)

The resistance pile is installed by excavating sufficiently to access the base of the foundation. The one-piece ductile cast iron bracket is placed underneath the bottom of the foundation and secured with bolts. The drive stand with hydraulic cylinder slides into the bracket.

A lead collar fits into the bottom end of the first pipe section. This lead collar displaces the soil during installation. The 42" length pipe pile with lead collar is driven into the soil with the hydraulic cylinder. The structure provides the reaction force to drive the pipe sections. Extensions are added until the required resistance force is reached.

A jack is used to stabilize to remove any slack or to lift the structure as required and then secured in position with a threaded locking bolts. Complete installation instructions are provided.

The resistance pile is best used where bedrock or very dense soil is located near and below the foundation base. Typically installed to 14 ft depth. For greater depths extensions are added.

Ordering Information

| Catalog # | Pipe Pile Size O.D. inches | Description | Standard pack Qty | Coating | Working/Ultime capacity Lbs |
|------------------|-----------------------------------|---|--------------------------|----------------|------------------------------------|
| R3500-K14 | 3-1/2" | Kit –complete bracket with 14 ft of pipe pile | 8 sets | Black | 42,500/85,000 |
| R3500-42C | 3-1/2" | 42" extension | 24 | Black | 42,500/85,000 |

| | | | | | |
|------------|--------|---|--------|------------|---------------|
| R3500-K14G | 3-1/2" | Kit –complete bracket with 14 ft of pipe pile | 8 sets | Black | 42,500/85,000 |
| R3500-42CG | 3-1/2" | 42" extension | 24 | Galvanized | 42,500/85,000 |

Note: * Pipe Pile sections hot dip galvanized to ASTM A-153; Bracket, lead, guides and T-pipe black
 ** Pipe pile sections hot dip galvanized to ASTM A-153



Building Solid Foundations

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Installing Resistance Pile



Hydraulic Drive Cylinder to drive (push) the resistance pipe pile sections into the ground.

Drive Stand supports the hydraulic cylinder and connects to the foundation bracket

Drive Cylinder Adapter to couple the cylinder ram to the pipe pile

Pipe pile driven with cylinder

Pipe Guide to maintain alignment during installation

Foundation Bracket bolted to the foundation base



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A kit consists of complete (includes bracket, hardware, one pipe with lead collar and 3 extensions with crimped-on coupling to complete 8 pile installations to 14 ft installed depth.

Pipe sections shipped in standard 24 piece bundle.



Couplings are crimped at one end of each pipe pile

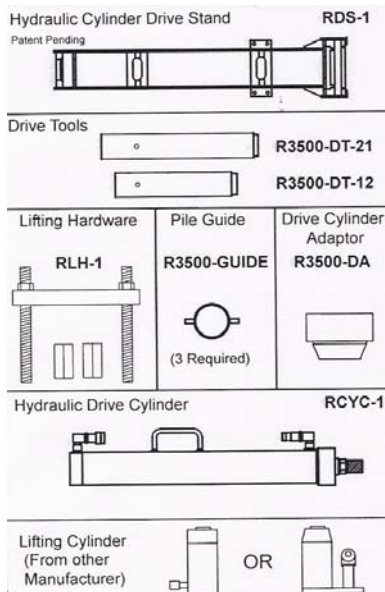


Hydraulic jack used to lift the structure

3-1/2" Resistance Pile

Tools required to install 3.500" Resistance Pile

| Item # | Catalog Number | Qty | Description | Can also be used with 2.875" resistance pile |
|--------|----------------|-----|--|--|
| 1 | RDS1 | 1 | Hydraulic Cylinder Drive Stand | Yes |
| 2 | R3500-Guide | 3 | 3.500" Pipe Guide | NO |
| 3 | R3500DA | 1 | Drive Cylinder Adapter | NO |
| 4 | R3500DT-21 | 1 | 21" Drive Tool | NO |
| 5 | R3500DT-12 | 1 | 12" Drive Tool | NO |
| 6 | RLH-1 | 1 | Lifting Hardware | Yes |
| 7 | RCYL1 | 1 | Hydraulic Drive Cylinder (Capacity = 40 tons) | Yes |
| 8 | | 1 | Lifting Cylinder (Note: supplied by others) | Yes |
| 9 | | 1 | Hydraulic Pump (Note: supplied by others) | Yes |



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