

**SUPERIOR TECHNOLOGY • SUPERIOR WORKMANSHIP • SUPERIOR PROTECTION**

*Dwyer's team of professionals are ready to serve you on projects of any size!*



**A Geotechnical & Structural Specialty Service Company**

Mr. Brian Dwyer, founder and president of Dwyer Companies, began Dwyer Concrete Lifting in 1973 with just 3 employees and a single slabjack pumping system. Since then, Dwyer Companies has prospered and grown into one of the largest foundation and concrete restoration specialty companies in the United States specializing in Deep Foundation Systems, Piling and Tiebacks.



**DWYER- The Trusted Team Of Professionals!**



**The Engineers Choice For Geotechnical & Structural Specialty Services.**

- Dwyer can assist with all aspects of engineering design, certification, drawings and specifications.
- Dwyer can provide Design Build Services for projects of any size!



*A special thanks to the customers and professionals we serve!*



- Children's Hospital
- Scotts Lawn Company
- CVS Pharmacy
- Mohawk Paper
- JC Penney
- Macy's
- Grange Insurance
- Cincinnati Zoo
- Boone County Public Works
- Sears
- Dick's Sporting Goods
- Meijer
- Target
- Planes Moving & Storage
- Cintas
- Kroger
- White Castle
- Pfizer
- Mead Paper
- Bob Summerall Tire
- AK Steel
- Avon Products
- St. Bernard Soap Co.
- Kentucky Speedway
- Gallatin Steel
- Frisch's
- Cabella's
- Kohl's
- Proctor & Gamble
- Professional Engineers
- H.C. Nutting
- Terracon
- Poage Engineering
- Alt & Witzig
- M2 Design Group
- BBCM
- Cornerstone Engineering
- PSI
- Thelen Associates, Inc.
- Mueser Rutledge
- Bhate
- Korda Nemeth
- L.E. Greg
- East Coast Testing
- Universal Engineering
- Jezerinac Geers
- Brown & Kubican
- Steven Schaeffer Assoc.
- Pennsylvania Soil & Rock
- CTL Thomson
- Building & Earth Sciences
- General Contractors/ Construction Managers
- Turner Construction
- Kokosing
- Messer
- Elford
- Corna Kokosing
- Camargo Construction
- EGC Construction
- NDC Builders
- Loveland Excavating
- Schumacher-Dugan
- Shelly & Sands
- Haglage Construction
- Paul Hemmer Construction
- Remur Construction
- Vector Construction
- H&H Systems & Design
- Unit Building Services
- Cincinnati Commercial Contractor
- Reece Campbell
- Turnbull Wahlert
- Miller Valentine
- H.A. Contracting
- Nelson Stark
- DW Wilburn
- Congleton - Hacker
- Habitat For Humanity
- John R. Jurgenson
- Property Management
- Towne Properties
- Duke Realty
- Aspen Square Management
- Real Property Management
- Buckeye Management
- Epcon Communities
- General Atlantic Construction
- Collateral Properties
- Colliers International
- Priority Condo
- Management Plus
- Henkle Schueler

[www.dwyercompanies.com](http://www.dwyercompanies.com) 1.877.399.3726

# STEEL PIERING

## Foundation Support & Rehabilitation

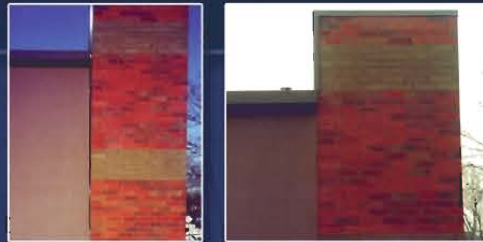
- Settlement Control
- Foundation Lifting & Structural Support



### Dwyer's Patented Steel Piering Solution

Dwyer's patented steel piercing system is the most dependable, most efficient and most economical system of its kind!

Dwyer uses its patented steel piercing system to lift and stabilize foundations and slabs that have settled. Dwyer's experienced steel piercing professionals have pierced many commercial structures for the area's leading corporations.



*Dwyer is the number one foundation restoration and steel piercing service provider in the U.S.*

- Settlement remediation for structures of all types for loads up to 100 KIPS per pier
- Capable of lifting and re-leveling structures
- Stabilization of existing structures
- Underpinning

### Steel Piers Driven To Bearing Strata Lift & Stabilize Your Structure - A Permanent Solution

The professionals at Dwyer combine the disciplines of geotechnical engineering and foundation restoration to provide superior and permanent piercing solutions.

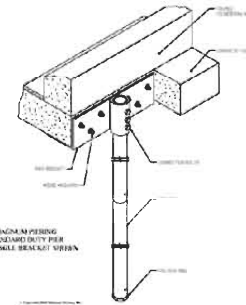
### Significant Structural Damage Can Result from Building on Poor Soil or Landfill Areas

Without comprehensive soil testing, and a solid deep foundation plan, a structure can develop significant damage from foundation settling or shifting. The damage can be severe and quite visible as seen in these examples.

### Steel Piers Driven To Bearing Strata Lift & Stabilize Your Structure - A Permanent Solution



### Magnum® Steel Push Piering System™ with MP 1002 Angle Bracket



- Pre-engineered system for lifting and/or stabilizing single & multi-story structures
- 64,000 lb. maximum capacity, 43,000 lbs. with 1.5 safety margin (see table below)
- Magnum Angle Bracket steel & yield specifications
  - 24" long x 8" high x 8" wide
  - plate steel ASTM A-36, 36,000 yield
  - tube steel ASTM A-519, 70,000 tensile, 60,000 yield
- Magnum 3" O.D. high-strength steel tubing ASTM A-513
  - 50,000 minimum tensile & yield strength
  - 125" standard wall thickness
  - 250" heavy-duty wall thickness
- Bracket & pier tubing available as bare metal or optional hot-dip galvanized
- Pier installation using Magnum MP6000 hydraulic ram system

### NOBODY DOES IT BETTER!

- Minimal Site Disturbance
- Rapid Installation
- Immediate Loading
- Full Scale Load Test Performed on Every Pier
- No Drill Spoils or Debris Removal
- Perfect For Limited Access, Low Overhead Clearance & Confined Space Sites



# STEEL PIERING

## Push Pier Brackets

- Angle Bracket
- Reverse Angle Bracket
- Plate Bracket



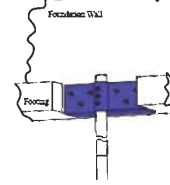
*Greater Power,  
Versatility &  
Precision for  
Foundation  
Lifting*

### FAST & EFFICIENT PIER INSTALLATION PROCESS!

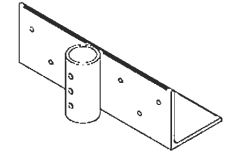
- Two heavy duty foundation brackets to choose from – plate bracket & angle bracket provide needed flexibility to address variables with footings.
- Easy to use hydraulic ram assemblies – one technician can install and operate a ram assembly.
- Single step process – the same ram assembly that drives pipe to refusal is also used to complete the lift and/or the stabilization process; no dismantling, disassembly or moving ram assemblies.



### Application View

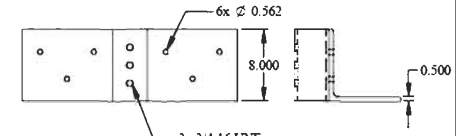


## ANGLE BRACKET P/N: MP1002



The heavy duty Magnum Angle Bracket is mounted to the face and beneath the bottom of a footing or foundation wall using up to 8 concrete wedge anchors. This bracket design minimizes the eccentricity forces applied to the foundation wall during the underpinning process. This bracket is compatible with Magnum 3" O.D. 1/4" wall structural tubing products for both Steel Pier & Helix Foundation Systems.

*Note: All dimensions are in inches and shown for reference only. For product specific engineering drawings, please contact Magnum Piering Engineering Department.*



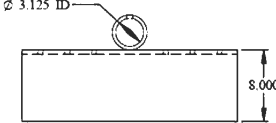
### Product Specification

**Material:**  
Angle to be ASTM A-36 or better; minimum yield strength of 36 KSI.  
Tube to be ASTM A513 T5 or better; minimum yield strength of 70 KSI

**Weld:** 70 KSI minimum yield

**Product Weight:** 62 lbs

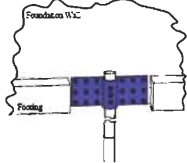
**Capacity:**  
See Magnum Steel Push Piering Technical Reference Manual for specific capacity information.



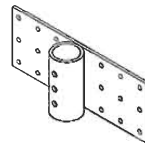
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### Application View



## PLATE BRACKET P/N: MP1001



The patented heavy duty Magnum Plate Bracket is mounted to the face of a footing or foundation wall using up to 18 concrete wedge anchors. This bracket design minimizes the eccentricity forces applied to the foundation wall during the underpinning process. This bracket is compatible with Magnum 3" O.D. 1/4" wall structural tubing products for both Steel Pier & Helix Foundation Systems.

*Note: All dimensions are in inches and shown for reference only. For product specific engineering drawings, please contact Magnum Piering Engineering Department.*

### Product Specification

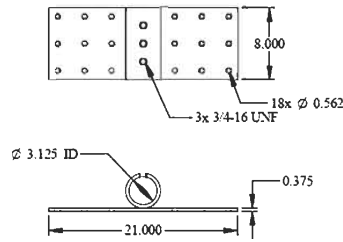
**Material:**  
Plate to be ASTM A-36 or better; minimum yield strength of 36 KSI.  
Tube to be ASTM A513 T5 or better; minimum yield strength of 70 KSI

**Weld:** 70 KSI minimum yield

**Product Weight:** 27 lbs

**Covered under**  
US Patent # 5,234,287

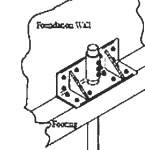
**Capacity:**  
See Magnum Steel Push Piering Technical Reference Manual for specific capacity information.



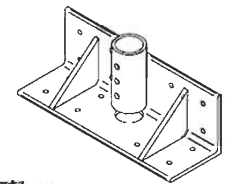
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### Application View

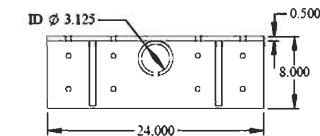


## REVERSE ANGLE BRACKET P/N: MP1006



The heavy duty Magnum Reverse Angle Bracket is mounted to the face and to the outer toe of a footing or foundation wall using up to 18 concrete wedge anchors. This bracket design minimizes the eccentricity forces applied to the foundation wall during the underpinning process and does not require removal of the toe of the footing. This bracket is compatible with Magnum 3" O.D. 1/4" wall structural tubing products for both Steel Pier & Helix Foundation Systems.

*Note: All dimensions are in inches and shown for reference only. For product specific engineering drawings, please contact Magnum Piering Engineering Department.*



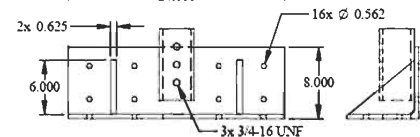
### Product Specification

**Material:**  
Plate to be ASTM A-36 or better; minimum yield strength of 36 KSI.  
Tube to be ASTM A513 T5 or better; minimum yield strength of 70 KSI

**Weld:** 70 KSI minimum yield

**Product Weight:** 68 lbs

**Capacity:**  
See Magnum Steel Push Piering Technical Reference Manual for specific capacity information.



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# HELICAL PIERS

## Deep Foundation Piers For New Construction

- Increase Building Loads
- Increase Wind Load - Uplift



### High Capacity Round Shaft Helical Piers

Dwyer's patented Helical Foundation System provides a cost effective and permanent solution for new construction foundations, retention wall tiebacks, soil stabilization and utility anchor applications.

- End Bearing / Friction Composite Pile
- Cost Effective Proven Methods
- No Excavation or Spoils



Pre-Drilled Augured Holes For Increased Lateral Load Capacities



Helical Piers Ideal For:  
New Sites • Remedial • Expansion

UP TO 200 KIPS DESIGN LOAD  
SUBSTANTIAL LATERAL RESISTANCE  
FAST INSTALLATION

HOT DIPPED GALVANIZED CORROSION PROTECTION  
GEOTECHNICAL & ENGINEERING SUPPORT

# Helical Tiebacks / Anchors



## HELICAL TIEBACKS / ANCHORS

Retaining walls often times fail due to shifting & moving soils. Dwyer's pre-engineered round-shaft anchors provide tremendous tension & lateral support, and our anchors can be grouted for even greater support.

Once the helical anchors are installed to the proper length, threaded bars and plate steel caps are used to secure the anchor to the wall.

The wall and the tieback are tensioned to one another to stabilize and/or straighten the wall. Additional tension can be applied to the tiebacks in the future should shifting occur.

TRANSFERS LOADS THROUGH WEAK SOILS TO HIGH END BEARING CAPACITY HELICAL PLATES



- Low Noise
- Vibration Less
- Permanent or Temporary
- Limited Access Areas
- Low Overhead Clearance



TORQUE MONITORING PROVIDES FIELD PRODUCTION CONTROL

New Construction Helicals-  
A Versatile & Economical Alternative  
to Driven Piles & Caissons



# HELICAL PIERS

## Deep Foundation Piers For New Construction

- Increase Building Loads
- Increase Wind Load - Uplift
- Up to 200 KIP Design Load

### HEAVY DUTY HELICAL FOUNDATION SYSTEM

#### PRODUCT DESCRIPTION AND TYPICAL AVAILABILITY

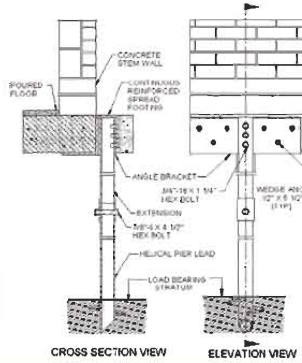
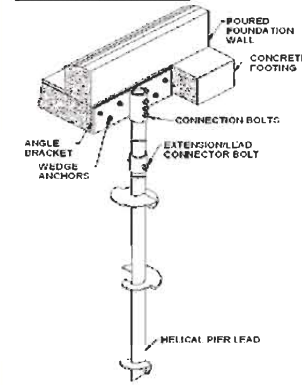
Catalog No.	Length	Blade Diameters	Blade Shape
<b>Extensions</b>			
MHE33HD	3 ft	NA	NA
MHE36HD	6 ft	NA	NA
MHE39HD	9 ft	NA	NA
MHE312HD	12 ft	NA	NA
MHE36HD12S	6 ft	(1) 12"	STD
MHE36HD12D	6 ft	(1) 12"	DCE
MHE36HD14S	6 ft	(1) 14"	STD
MHE36HD14D	6 ft	(1) 14"	DCE
MHE36HD12S12S	6 ft	(2) 12"	STD
MHE36HD12D12D	6 ft	(2) 12"	DCE
MHE36HD14S14S	6 ft	(2) 14"	STD
MHE36HD14D14D	6 ft	(2) 14"	DCE
<b>Leads</b>			
MHL36HD8S	6 ft	(1) 8"	STD
MHL36HD10S	6 ft	(1) 10"	STD
MHL36HD10D	6 ft	(1) 10"	DCE
MHL36HD12S	6 ft	(1) 12"	STD
MHL36HD12D	6 ft	(1) 12"	DCE
MHL36HD8S10S	6 ft	(1) 8"+(1) 10"	STD
MHL36HD8D10D	6 ft	(1) 8"+(1) 10"	DCE
MHL36HD10S12S	6 ft	(1) 10"+(1) 12"	STD
MHL36HD8D10D12D	6 ft	(1) 8"+(1) 10"+(1) 12"	DCE
MHL36HD10S12S14S	6 ft	(1) 10"+(1) 12"+(1) 14"	STD
MHL36HD10D12D14D	6 ft	(1) 10"+(1) 12"+(1) 14"	DCE
MHL36HD10S12S12S	6 ft	(1) 10"+(2) 12"	STD
MHL36HD10D12D12D	6 ft	(1) 10"+(2) 12"	DCE
MHL36HD12S14S14S	6 ft	(1) 12"+(2) 14"	STD
MHL36HD12D14D14D	6 ft	(1) 12"+(2) 14"	DCE

SPECIFICATIONS	
SHAFT	HSS 3.00 x 0.250 wall
	ASTM A500 Grade C, or Equiv.
I	1.95 in <sup>3</sup>
Ag	2.03 in <sup>2</sup>
S	1.30 in <sup>3</sup>
COUPLING	Outer 1/4" Sleeve, Inner 1/4" Sleeve
BOLTS	(1) 7/8" Diam. SAE Grade 8 Thru
BLADES	3/8" Thick, Helix Die-Pressed
	ASTM A36, or Better
COATING	Hot-Dip Galvanized to ASTM A152

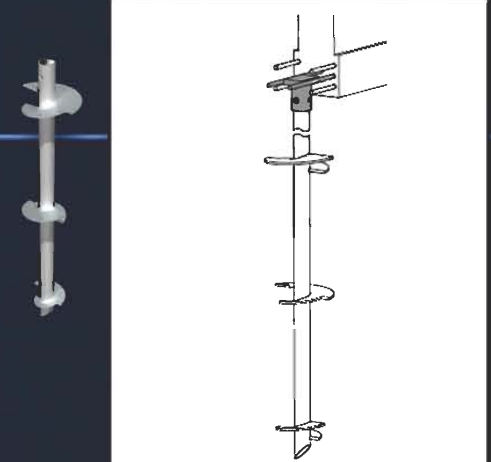
CAPACITY	
8 ft	Ultimate Capacity-to-Torque Ratio
12,500 ft-lbs	Maximum Torsional Strength
100 Kips	Mechanical Limit
50 Kips	Maximum Allowable Capacity
100 Kips	Mechanical Limit
50 Kips	Maximum Allowable Capacity

Call for a specific design for your next project!  
877.399.3726

#### Triple Helical Blades



## Grade Beam Pier Cap

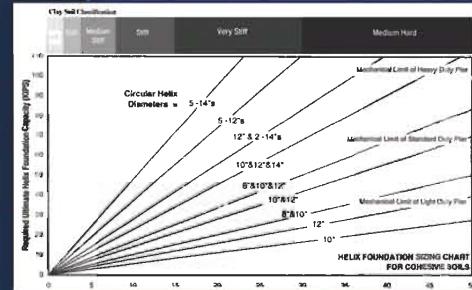


#### Product Specifications

Material:  
Plate to be ASTM A-36 or better.  
Tube to be ASTM A500 Grade C or better.  
Rebar to be Grade 50, #7

Product Weight: 14 lbs

Capacity:  
See Magnum Steel Push Piering Technical Reference Manual for specific capacity information.



#### Magnum Helical Capacities with MP1002 Angle Lifting Bracket

Connection Type	Helical Pier (LD)	Allowable Capacity (1.5 Factor of Safety)	Connection Type	Helical Pier (SD & HD)	Allowable Capacity (1.5 Factor of Safety)
Single Bolted	.125 Wall	9 kips	Single Bolted	.250 Wall	15 kips
Double Bolted	.125 Wall	19 kips	Double Bolted	.250 Wall	30 kips
Triple Bolted	.125 Wall	28 kips	Triple Bolted	.250 Wall	43 kips
			Triple Bolted	.250 Wall	64 kips

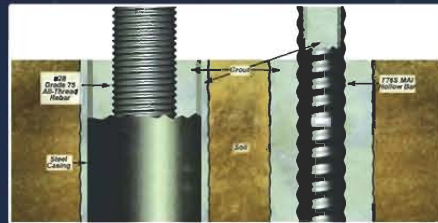
# MICROPILES

Micropiles are high capacity, small diameter (3" to 12") drilled and grouted in place. Piles designed with steel reinforcement to primarily resist structural loading.



## Micropile Design Procedures

1. Geotechnical Analysis
2. Specify Load To Be Supported
3. Design Pile-To-Structure Connection
4. Design Pile-To-Soil Or Rock Load Transfer
5. Specify A Pile-Testing Program



Bar Diameter	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Approx. Thread Major Dia.
1"	0.85 in <sup>2</sup> (549 mm <sup>2</sup> )	127.5 kips (567.1 kN)	102 kips (453.6 kN)	3.09 lbs./ft. (4.6 Kg/M)	1-1/8"
1-1/4"	1.25 in <sup>2</sup> (807 mm <sup>2</sup> )	187.5 kips (834 kN)	150 kips (667.2 kN)	4.51 lbs./ft. (6.71 Kg/M)	1-7/16"
1-3/8"	1.58 in <sup>2</sup> (1019 mm <sup>2</sup> )	237 kips (1054.2 kN)	189.6 kips (843.4 kN)	5.71 lbs./ft. (8.50 Kg/M)	1-9/16"
1-3/4"	2.60 in <sup>2</sup> (1664 mm <sup>2</sup> )	400 kips (1779.2 kN)	320 kips (1423.4 kN)	9.06 lbs./ft. (13.48 Kg/M)	2"
2-1/2"	5.19 in <sup>2</sup> (3350 mm <sup>2</sup> )	778 kips (3467.0 kN)	622.4 kips (2765.6 kN)	18.20 lbs./ft. (27.1 Kg/M)	2-3/4"

**UNDERPINNING**  
SUPPORTING NEW LOADS IN CONGESTED AREAS  
STABILIZING STRUCTURES FROM SETTLEMENT  
SEISMIC RETROFIT



Hot Dipped Galvanized • Epoxy Coated • Pre-Grouted

- Ideal For Trash & Fill Sites
- Rock, Cobble, Shales, Limestone, etc. - NO PROBLEM!
- Appropriate For A Wide Range Of Ground Conditions
- High Performance Design Loads From 2 - 500+ Tons
- Ideal For Both Compression & Tension Loads

# ROCK ANCHORS / SOIL NAILS

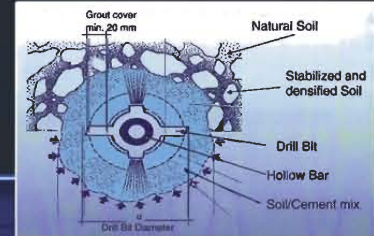


## EXCAVATION SUPPORT

Soil nails create an insitu reinforcement system for the stabilization of excavations & slopes during top-down construction.

- Oversized holes of 4" to 10" in diameter are drilled and the centralized soil nail is placed. The drill hole is then grouted.
- After the drill hole grout is cured, the soil nails may be torque tensioned against the protective shotcrete face.

Pullout capacity is a function of drill hole diameter, depth, overburden and angle. Field tests are always recommended to establish load lengths.



## Self Drilling Hollow Grout Bars / Anchors

Bar Designation & Nominal Dia.	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Approx. Thread Major Dia.
#6 - 3/4"	0.44 in <sup>2</sup> (284 mm <sup>2</sup> )	44 kips (195.7 kN)	33 kips (146.8 kN)	1.5 lbs./ft. (2.36 Kg/M)	7/8"
#7 - 7/8"	0.60 in <sup>2</sup> (387 mm <sup>2</sup> )	60 kips (266.9 kN)	45 kips (202.2 kN)	2.0 lbs./ft. (3.04 Kg/M)	1"
#8 - 1"	0.78 in <sup>2</sup> (510 mm <sup>2</sup> )	78 kips (351.4 kN)	59.3 kips (263.8 kN)	2.7 lbs./ft. (3.935 Kg/M)	1-1/8"
#9 - 1-1/8"	1.00 in <sup>2</sup> (645 mm <sup>2</sup> )	100 kips (444.8 kN)	75 kips (333.6 kN)	3.4 lbs./ft. (5.06 Kg/M)	1-1/4"
#10 - 1-1/4"	1.27 in <sup>2</sup> (819 mm <sup>2</sup> )	127 kips (564.9 kN)	95.3 kips (423.9 kN)	4.3 lbs./ft. (6.34 Kg/M)	1-3/8"
#11 - 1-3/8"	1.56 in <sup>2</sup> (1006 mm <sup>2</sup> )	156 kips (694.0 kN)	117 kips (520.5 kN)	5.3 lbs./ft. (7.86 Kg/M)	1-1/2"
#14 - 1-3/4"	2.25 in <sup>2</sup> (1452 mm <sup>2</sup> )	225 kips (1000.9 kN)	168.7 kips (750.4 kN)	7.85 lbs./ft. (11.78 Kg/M)	1-7/8"
#18 - 2-1/4"	4.00 in <sup>2</sup> (2581 mm <sup>2</sup> )	400 kips (1779.4 kN)	300 kips (1334.5 kN)	13.6 lbs./ft. (19.63 Kg/M)	2-7/16"
#20 - 2-1/2"	4.91 in <sup>2</sup> (3168 mm <sup>2</sup> )	491 kips (2184.0 kN)	368 kips (1637.0 kN)	16.99 lbs./ft. (24.84 Kg/M)	2-3/4"
#28 - 3-1/2"	9.61 in <sup>2</sup> (6200 mm <sup>2</sup> )	960 kips (4274.0 kN)	720 kips (3206.0 kN)	32.7 lbs./ft. (48.0 Kg/M)	3-3/4"

Anchor Designation	Outside Diameter	Internal Diameter (Averaging)	Effective Cross Sectional Area (Averaging)	Ultimate Load Capacity	Yield Load Capacity	Weight per Foot
R 25	2.50 in (64 mm)	0.80 in (20 mm)	0.51 in <sup>2</sup> (330 mm <sup>2</sup> )	87 kips (387 kN)	65 kips (289 kN)	5.8 lbs (2.6 kg)
R 32N	3.25 in (83 mm)	0.75 in (19 mm)	0.36 in <sup>2</sup> (234 mm <sup>2</sup> )	53 kips (236 kN)	41 kips (183 kN)	4.3 lbs (1.9 kg)
R 32S	3.25 in (83 mm)	0.80 in (20 mm)	0.51 in <sup>2</sup> (330 mm <sup>2</sup> )	81 kips (361 kN)	61 kips (272 kN)	5.8 lbs (2.6 kg)
R 36	3.50 in (89 mm)	0.75 in (19 mm)	0.36 in <sup>2</sup> (234 mm <sup>2</sup> )	112 kips (498 kN)	80 kips (357 kN)	4.5 lbs (2.0 kg)
R 51N	5.125 in (130 mm)	1.20 in (30 mm)	0.68 in <sup>2</sup> (440 mm <sup>2</sup> )	600 kips (267 kN)	450 kips (200 kN)	17.5 lbs (7.9 kg)
R 51N	5.125 in (130 mm)	1.20 in (30 mm)	0.68 in <sup>2</sup> (440 mm <sup>2</sup> )	101 kips (450 kN)	75 kips (334 kN)	21.3 lbs (9.7 kg)
T 76N	3.125 in (79 mm)	0.80 in (20 mm)	0.51 in <sup>2</sup> (330 mm <sup>2</sup> )	300 kips (133 kN)	225 kips (100 kN)	14.5 lbs (6.6 kg)
T 76S	3.125 in (79 mm)	0.75 in (19 mm)	0.36 in <sup>2</sup> (234 mm <sup>2</sup> )	428 kips (190 kN)	319 kips (142 kN)	17.3 lbs (7.8 kg)

# PRESSURE GROUTING

*Lifting Sunken Concrete, Void Filling & Soil Stabilization*

**Slabjacking or the lifting of sunken concrete is the genesis of Dwyer Companies.**

Dwyer has been recognized as the leading slabjacking service company in the U.S.

Dwyer takes great pride in its fleet of state-of-the-art mobile pressure grouting pumps. Dwyer's pumps are in a class by themselves when it comes to pumping large volumes of grout at extremely high pressures.

Our superior pressure grouting technology and our 25 years of experience makes Dwyer the #1 choice for taking care of your slabjacking, void fills, and soil stabilization requirements.



## Pressure / Compaction Grouting Applications:

- Rubble Fill
- Karstic Regions
- Poorly Placed Fill
- Loosened Soil - Pre and Post Treatment
- Liquefiable Soils
- Collapsible Soils

*Dwyer's Fleet of Custom-Built Pressure Grouting Pumps*

**Your Biggest Grouting Project is No Problem For Dwyer!**



# SLABJACKING

**We can raise your sunken . . .**

- Machine Base
- Warehouse Slab
- Streets
- Sidewalks
- Parking Lots
- Garages
- Industrial Floor Slabs
- Bridge Approach Slabs
- Office Buildings



## What is Slabjacking?

*Dwyer's unique slabjacking process raises sunken concrete back as close as possible to its original elevation.*

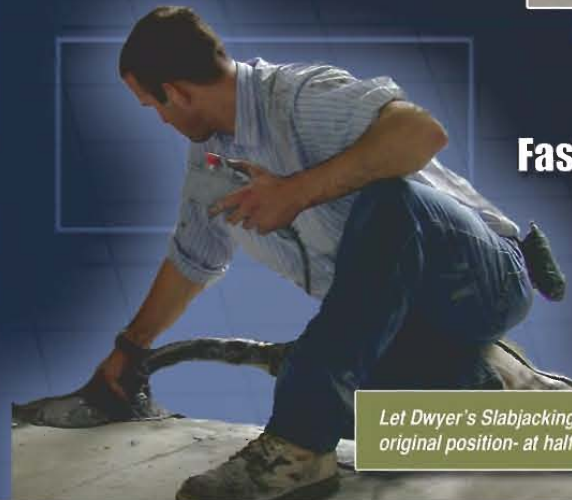
*After drilling a few small diameter holes in the sunken slab, Dwyer's slabjacking system fills the voids beneath the slab and then lifts it as close as possible to the original elevation. Once the slab has been lifted, the holes are filled and patched.*



**Fast - Economical - Guaranteed**

*No other company has the resources, knowledge and experience to tackle the big concrete lifting and leveling jobs like Dwyer does!*

*Let Dwyer's Slabjacking professionals lift & level your concrete slabs back to their original position- at half the cost of replacing them with new concrete!*



# SHOTCRETE

High Pressure Spraying Application of Concrete

## Dwyer's Shotcrete Service Can Repair Any Concrete Surface - Vertical, Sloped or Otherwise

Shotcrete is a high pressure spraying application of concrete used to apply concrete to irregular shaped & hard to reach locations.

Dwyer's powerful mobile shotcrete systems make it possible to complete large projects quickly and economically.



- Loading Docks
- Wall Reinforcing
- Bridges & Overpasses
- Slope Stabilization
- Aqueducts & Tunnels
- Manholes & Sewers
- Stacks, Tanks & Hoppers
- Furnaces & Heat Ducts

Fast - Economical - Guaranteed

- Build Outs
- Strengthening of Existing Concrete
- Retaining Walls
- Temporary or Permanent Shoring
- Slope Stabilization

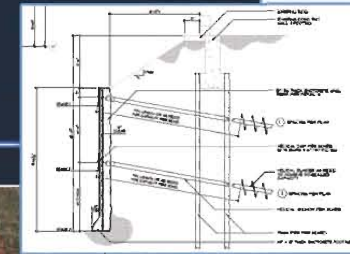
Dwyer's Shotcrete Service Saves You Time, Money and Hassles

**TIME** - Dwyer's shotcrete professionals can prep and complete even a large job in a matter of a few days.

**MONEY** - You can save significant amounts of money by using Dwyer's shotcrete service to repair damaged concrete rather than replacing it.

**NO HASSLES** - From a written estimate to the completed project, you can trust the shotcrete professionals at Dwyer to meet or exceed your expectations - we guarantee it!

**NOBODY DOES IT BETTER!**



**SHORING & UNDERPINNING PLAN**  
SCALE 1/4" = 1'-0"

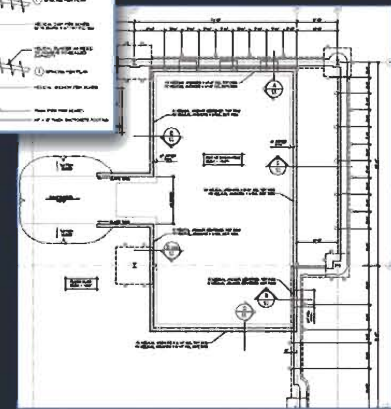
**REPAIR SCHEDULE**

SYMBOL	QUANTITY	CURB CAPACITY	MIN. LENGTH	MIN. CAP CONNECTION	NOTES
①	10	10,000	10'-0"	PLATE BRACKET	SEE PLAN FOR LOCATION
②	10	10,000	10'-0"	PLATE BRACKET	SEE PLAN FOR LOCATION

**PLAN VIEW SCHEDULE**

SYMBOL	QUANTITY	CURB CAPACITY	MIN. LENGTH	MIN. CAP CONNECTION	NOTES
①	10	10,000	10'-0"	PLATE BRACKET	SEE PLAN FOR LOCATION
②	10	10,000	10'-0"	PLATE BRACKET	SEE PLAN FOR LOCATION

**NOTES:**  
1. ALL SHORING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE LATEST EDITIONS OF THE INTERNATIONAL CONCRETE CODE (ICC).  
2. ALL SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.  
3. ALL SHORING SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER.





# POLYURETHANE & EPOXY INJECTION

Sealing & Repairing Cracks In Concrete

Dwyer's concrete restoration professionals have sealed and repaired cracks in customers' concrete - when pouring new concrete was thought to be the only solution.

Cracks in concrete develop for any number of reasons. When cracks become so severe that you think the only solution is to replace the structure -

*That's the time to call Dwyer!*

**INDUSTRIAL  
MECHANICAL  
COMMERCIAL**



**Fast - Economical - Guaranteed**

*Dwyer's team of concrete crack restoration professionals can repair even your worst cracks fast and economically - and it's guaranteed!*



• Water Stop • Water Diversion • Shut Off Major Ground Leaks

- Tunnels
- Manholes
- Elevator Shafts

**Polyurethane & Epoxy Injection Fills & Seals Cracks- Permanently**

**Perfect Solution for:**

- Wells & Reservoirs
- Structural & Foundation Walls
- Retaining Walls
- Manholes
- Industrial
- Mechanical



**Performance Proven In The Field Since 1973!**

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West Chester, OH 45069

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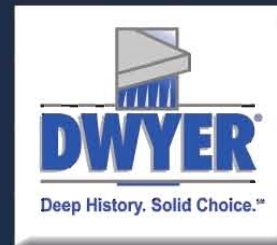
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## TUSCALOOSA

205.759.9085



TOLL FREE:

**1.877.399.3726**

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