

2007 Large Directional Drilling Rig Census

By Traci Read ■ Senior Editor

Underground Construction's 2007 census of large horizontal directional drilling contractors provides an in-depth look at the capabilities of this dynamic market.

When horizontal directional drilling (HDD) professionals discuss the size of a rig, they usually refer to the maximum pullback force the unit can develop. The most common industry standard for a large directional drilling unit is defined as having a minimum of 100,000 pounds of pullback force. In addition to pullback, the most common specifications used to categorize HDD equipment are rotary torque of drill stem rotation speed and the size of drill pipe.

Selecting the right size drill rig to fit specific project needs is one of the most critical elements in managing successful HDD operations.

The drilled crossings of rivers, highways, canals and other surface and subsurface obstacles are a proven technology with a strong track record. Using this technology, contractors around the world can successfully install pipelines, cable and conduit in areas where conventional methods are unacceptable or uneconomical.

Years of experience and the best in modern technology enable the contractors listed to effectively perform projects that are within the listed range of their specific units.

A. J. Lucas Operations Pty. Ltd.

157 Church Street, Ryde
Sydney NSW, Australia 2112
Tel: (011) 61-2-9809-6866
Fax: (011) 61-2-9807-6088

E-mail: stephen.loneragan@luca.com.au
Contact: Stephen Loneragan

7 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 52 in.
Maximum Pullback: 1,100,000 lbs.
Maximum Torque: 100,000 ft./lbs.

International contractor servicing Australia and Asia with a strong focus on technically challenging projects that demand engineered solutions, particularly EPL contracts. Also, specialize in hand rock drilling utilizing patented tooling. We offer solutions!

A&L Underground

8339 Melrose Dr.
Lenexa, KS 66214-1629
Tel: (913) 438-2981
Fax: (913) 438-3815

E-mail: alex@alunderground.com

Contact: Alex Lowe or Terry Williamson
5 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 42 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 85,000 ft./lbs.

Horizontal environmental potable water and soil characterization wells. Utility, pipeline and telecommunication groundwater pipe installation. Rock and coral drilling.

ARB

26000 Commercentre Dr.
Lake Forest, CA 92630
Tel: (949) 465-7321
Fax: (949) 595-5526

E-mail: jparrish@arvinc.com

Contact: Jody Parrish
4 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 54 in.
Maximum Pullback: 750,000 lbs.
Maximum Torque: 98,000 ft./lbs.

Arby Construction

19705 W. Lincoln Ave.
New Berlin, WI 53146
Tel: (262) 549-1919
Fax: (262) 548-3655

E-mail: mfehler@arbytech.com

Contact: Matt Fehler
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 36 in.
Maximum Pullback: 140,000 lbs.
Maximum Torque: 30,000 ft./lbs.

Arby Construction Inc. has over 15 highly portable, self-contained units ready to serve you anywhere, anytime.

Avoidatrench Ltd.

Four Crosses Industrial Park
Llanymynech, Powys
United Kingdom SW226ST
Tel: (011) 44-0-169-183-1046

Fax: (011) 44-0-169-918-30-495

E-mail: avoidatrench@enterprise.net

Contact: Andrew Daniels
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 3 ft. 6 in.
Maximum Pullback: 85 tons

Maximum Torque: 30,000 ft./lbs.
Established 10 years. One of the original practitioners of directional drilling in Britain, and more recently a member of the Pochin Group. Known for providing reliable and competent solutions.

Badger Drilling LLC

602 Lorn Ct.
Orange Park, FL 32073
Tel: (904) 272-2221

Fax: (904) 276-1272

Contact: Leonard Nicks
1 rig offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 30 in.
Maximum Pullback: 180,000 lbs.
Maximum Torque: 30,000 ft./lbs.
Eleven years of experience primarily in Florida and neighboring states. We never fail.

BERCO Construction

PO Box 5134
Godfrey, IL 62035-5184
Tel: (618) 467-2440
Fax: (618) 467-2445

E-mail: berco-construction@msn.com

Contact: Matt Barton
1 rig offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.
Maximum Pullback: 1,000,000 lbs.
Maximum Torque: 95,000 ft./lbs.
BERCO provides worldwide construction and engineering services to the horizontal directional drilling industry.

Canadian Horizontal Drilling Ltd.

RR #1
Wetaskiwin, AB
Canada T9A 1W8
Tel: (780) 352-5041

Fax: (780) 352-5048

E-mail: chdl@connect.ab.ca

Contact: Kelly Bradford
3 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.

Maximum Pullback: 500,000 lbs.

Maximum Torque: 75,000 ft./lbs.

Company specializes in hard rock formations and has expertise in all HDD applications. Offering technical proficiency in all areas of HDD.

Cherrington Corp.

PO Box 254788
Sacramento, CA 95865
Tel: (916) 457-3040
Fax: (916) 457-5902

Contact: Larry Bertolucci

E-mail: hdd@cherrington.com

3 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 60 in.

Maximum Pullback: 300,000 lbs.

Maximum Torque: 60,000 ft./lbs.

Cherrington, the first HDD contractor, sets technology standards worldwide. Innovative solutions developed over 27 years give us the expertise to successfully complete your next crossing.

COE Drilling

11-13 Gibbs Street
Labrador, QLD 4215
Australia

Tel: +617 5500 5222

Fax: +61 7 5500 6444

E-mail: jim@coedrilling.com.au; e.foley@coedrilling.com.au

Contact: Eamon Foley or Jim Blakeney

4 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 42 in.

Maximum Pullback: 680,000 lbs.

Maximum Torque: 74,000 ft./lbs.

COE Drilling specializes in shore landings utilizing a forward thrusting methodology, which eliminates the need of a lay barg. Visit www.coedrilling.com.au/technique.htm.

CommCorp Utility Services

86 Route 526
Allentown, NJ 08501
Tel: (609) 259-5480

Fax: (609) 259-5581

E-mail: info@commcorp.com

Contact: Hal Boston or Michael Spencer

Maximum Pipe Diameter: 60 in.

Maximum Pullback: 400,000 lbs.

Maximum Torque: 40,000 ft./lbs.

Davis Corp.

PO Box 177
Heraldton, OK 73438-0177

Tel: (580) 229-1280

Fax: (580) 229-1293

E-mail: davcor@brightok.net
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 36 in.
Maximum Pullback: 380,000 lbs.
Maximum Torque: 60,000 ft./lbs.
Davis Corporation operates two large-scale directional drilling rigs in the Mid-Continent region of the U.S. We have been in business since 1962 and in directional drilling since 1989.

Direct Horizontal Drilling

PO Box 4027
Spruce Grove, AB
Canada T7X 3B2
Tel: (780) 960-6037
Fax: (780) 960-6038
Contact: Don Shipalesky
E-mail: donship@directhorizontal.com
2 rigs offering over 150,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 330,000 lbs.
Maximum Torque: 48,000 ft./lbs.

Distribution Construction Co.

PO Box 19991
Greensboro, NC 27419
Tel: (336) 294-9487
Fax: (336) 854-8909
E-mail: dcco@dccogso.com
Contact: Chuck Fox
3 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 30 in.
Maximum Pullback: 220,000 lbs.

Drilex Systems

2001 Rankin Rd.
Houston, TX 77073
Tel: (800) 421-2056
Fax: (713) 849-4369
Contact: Steve Scheffer
Maximum Pipe Diameter: 36 in.
Maximum Pullback: 140,000 lbs.
Maximum Torque: 24,000 ft./lbs.
Horizontal directional drilling and engineering firm. Specially designed fluids control system and extensive experience with downhole drilling motors allows Drilex to successfully complete crossings through rock and other formations.

Drilled Crossings

LA Hwy. 31
Arnaudville, LA 70512
Tel: (337) 754-7802
Fax: (337) 754-7804
1 rig offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 60 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 80,000 ft./lbs.
The oldest, continually operating international company in the industry, Drilled Crossings has installed directionally drilled pipeline crossings in soft and hard rock conditions throughout the U.S. and abroad.

DrillTec GUT GmbH

Am Tegelberg 1
94469 Deggendorf
Germany
Tel: +49 991-330-510
Fax: +49 991-330-549
E-mail: info@drilltec.de
Contact: Joerg Gaenger
5 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 56 in.
Maximum Pullback: 787,000 lbs.
Maximum Torque: 67,000 ft./lbs.
Working on all continents, with branches in

Australia and Russia with more than 10 partners around the world. Underground utility installation in all soil types up to lengths of 9,900 ft.

Driver Pipeline Co.

3316 Industrial Drive
Pearland, TX 77581
Tel: (281) 482-4019
Fax: (281) 482-9357
E-mail: tystrick@airmail.net
Contact: Jimmy Wagstaff
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 42 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 52,000 ft./lbs.

Dynamic Cable Construction

591 VZCR 4823
Ben Wheeler, TX 75754
Tel: (903) 849-2747
Fax: (903) 849-2748
E-mail: dynamicred@aol.com
Contact: Mickey Redwine
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 36 in.
Maximum Pullback: 200,000 lbs.
Maximum Torque: 40,000 ft./lbs.
We specialize in unusually tough crossings throughout the United States. We want the jobs others fail on or don't want! Small rigs also are available.

Enterprise "Beta" S.A.

163 Wolczynska Str.
01-919 Warsaw, PL
Tel: 0048-22-864-6970
Fax: 0048-22-864-8208
E-mail: betasa@betasa.com.pl
Contact: Mirosztan Makuch, ext. 143
1 rig offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 5 in.
Maximum Pullback: 45 tons
Maximum Torque: 19,500 ft./lbs.
Construction of steel and HDPE pipelines for the gas industry, telecommunications and water/sewage management. Achievements: 1,060 m of DN200; maximum diameter DN700.

Environmental Crossings

868 Robinwood Ct.
Traverse City, MI 49686
Tel: (231) 929-1242
Fax: (231) 941-7412
E-mail: info@eci HDD.com
Contact: Bruce Brasher
5 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 1,100,000 lbs.
Maximum Torque: 90,000 ft./lbs.
Full line of HDD capabilities including design assistance. Specialists in shore approach projects.

Gabe's Construction Company

4804 North 40th Street
Sheboygan, WI 53083
Tel: (920) 459-2600, x310
Fax: (920) 459-2680
E-mail: tgabes@gabes.com
Contact: Tim Gabrielse
3 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 42 in.
Maximum Pullback: 625,000 lbs.
Maximum Torque: 80,000 ft./lbs.
National HDD contractor for pipelines, conduit

systems, telecommunications systems, underground electrical systems and water mains. Provides design, budget and estimate services.

Harbert International Establishment S.A.

Manuel Tamayo #540 Y Victor Martillo,
Sector "El Eden"
Quito, Ecuador 17-03-95
Tel: (011) 593-23-281-191
Fax: (011) 59-23-280-907
E-mail: robertsb@harbert.com.ec
Contact: Ben Roberts
1 rig offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 85,000 ft./lbs.
Offers horizontal directional drilling services worldwide including design, construction, drilling, inspection and consulting.

Harding Directional Drilling

10711 Spur 231
Bryan, TX 77807
Tel: (979) 778-2691
Fax: (979) 778-3312
E-mail: rhamilton@hardingdrilling.com
Contact: Robert Hamilton
4 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 800,000 lbs.
Maximum Torque: 48,000 ft./lbs.
Full-service directional drilling company serving the continental U.S., Canada and Mexico.

Hausstadt & Timmermann Bohrtechnik

Bergheimer Str. 121
Duisburg, Germany D-47228
Tel: (+49) 206569030
Fax: (+49) 20656903370
E-mail: bohrtechnik.ht@t-online.de
Contact: Ben Boere
3 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 1,500 mm
Maximum Pullback: NA
Maximum Torque: 44,280 ft./lbs.
H&T is a European pipeline construction company working for the oil, gas and water industries. H&T operates 10 HDD rigs up to 400-tons pullback force.

Henkels & McCoy Inc.

985 Jolly Rd.
Blue Bell, PA 19422-0900
Tel: 1-888-HENKELS
Fax: (215) 283-7939
E-mail: marketing@henkels.com
Contact: Ted Topakas (215) 283-7574
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 40 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 50,000 ft./lbs.
Henkels & McCoy has been actively involved with directional drilling for many years, having successfully completed crossings involving virtually every formation and working condition.

Horizontal Boring & Tunneling Co.

505 S. River Ave.
Exeter, NE 68351
Tel: (402) 266-5347
Fax: (402) 266-5377
Contact: Brent L. Moore
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 36 in.
Maximum Pullback: 400,000 lbs.
Maximum Torque: 25,000 ft./lbs.
Specializing in rock formations. Several smaller rigs also. Over 30 years experience in other

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trenchless methods including tunneling, pipe jacking, microtunneling, auger boring and pipe ramming.

Horizontal Drilling International

"Immeuble le Guillaumet"
60 Avenue du President Wilson
92046 Paris La Defense, France
Tel: 33-1-55-91-09-09
Fax: 33-1-55-91-09-05
E-mail: contact@hdi.fr
Contact: Denis Pellerin
7 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 60 in.
Maximum Pullback: 800,000 lbs.
Maximum Torque: 100,000 ft./lbs.
HDI has installed HDD crossings under all types of obstacles in various types of soil - more than 2,000 crossings have been installed to date in 34 countries, lengths up to 1,800 meters long and up to 48 in. in diameter.

Hydro Soil Services

Scheldedijk 30
Zwijndrecht Belgium 32070
Tel: (011) 32-3-250 53 11
Fax: (011) 32-3-250 56 51
E-mail: Driessers.lnez@dredging.com
Contact: Lucas Bols
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 60,000 ft./lbs.
Specialized in large diameter, long lengths and marine applications such as landfills, outfalls or water-to-water drilling.

InterCon Construction Inc.

2880 Commerce Park Drive
Madison, WI 53719-5129
Tel: (608) 227-7473
Fax: (608) 227-7470
Web: www.intercon-const.com
Contact: Steve Allen
5 rigs offering over 100,000-lbs. pullback
Maximum Pullback: 1,000,000 lbs.
Maximum Torque: 100,000 ft./lbs.
Offer full range of services - design, estimates, pipe services, horizontal directional drilling, intersect drilling and total project management. Lengths in excess of 7,400 ft.

Isaacks Directional Drilling

PO Box 1112
Aransas Pass, TX 78335
Tel: (361) 758-7297
Fax: (361) 758-8397
E-mail: issaacks@pelicancoast.net
Contact: Monty Scruggs
4 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 30 in.
Maximum Pullback: 250,000 lbs.
Maximum Torque: 30,000 ft./lbs.
Isaacks Directional Drilling has 4 directional rigs available for service throughout the U.S., Mexico and Canada.

Japan Drilling Co., Ltd.

Shinhoridome Bldg.
2-4-3 Horidome-cho, Nihonbashi
Chuo-ku, Tokyo, 103-0012, Japan
Tel: (011) 81-3-5847-5858
Fax: (011) 81-3-5644-5703
E-mail: hdd@jdc.co.jp
Contact: Shohei Kato
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.

Maximum Pullback: 330,000 lbs.
Maximum Torque: 48,000 ft./lbs.
We cope with every condition of HDD using our expertise and technical development.

Kamloops Augering Ltd.

10085 Dallas Dr.
Kamloops, BC V2C 6W6
Canada
Tel: (250) 573-7814
Fax: (250) 573-7815
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 500,000 lbs.
Maximum Torque: 47,000 ft./lbs.
The rig was built for overseas and Pacific Rim countries. Robbins HDD built the rig and Kamloops built the mud system.

LMR Drilling GmbH

Ammerlaender Heerstrasse 368
D-26129 Oldenburg, Germany
Tel: (49) 0441-971-91-0
Fax: (49) 0441-971-91-91
E-mail: info@lmr-drilling.de
Contact: H. W. Hausmann,
G.P. Moogveld or G. Kruse
4 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 56 in.
Maximum Pullback: 1,000,000 lbs.
Maximum Torque: 130,000 ft./lbs.
Horizontal directional drilling; engineering; construction and installation of directional drilled crossings, outfalls and shore approaches.

Laney Directional Drilling Co.

PO Box 1449
Humble, TX 77347
Tel: (281) 540-6615
Fax: (281) 540-6727
E-mail: gbell@laneydrilling.com
Contact: Grady Bell
12 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 54 in.
Maximum Pullback: 1,700,000 lbs.
Maximum Torque: 110,000 ft./lbs.
Laney is a worldwide leader in the HDD industry with over 18 years of experience and a fleet of a dozen custom built rigs.

LongboreTT Ltd.

20 Caputhall Rd.
Livingston, West Lothian
Scotland, U.K. EH54 8AS
Tel: (011) 44-1506-461166
Fax: (011) 44-1506-461188
E-mail: company@longbore.co.uk
Contact: Ross Henderson
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 24 in.
Maximum Pullback: 140,000 lbs.
Maximum Torque: 25,000 ft./lbs.
LongboreTT Limited operates two maxi rigs from an office in the United Kingdom; specializing in hard rock installations, outfalls and environmental wells and consultancy work.

Mears Group Inc.

4500 N. Mission Rd.
Rosebush, MI 48878
Tel: (989) 433-2929
Fax: (989) 433-2979
E-mail: john.fluharty@mears.net
Contact: John Fluharty
12 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 60 in.
Maximum Pullback: 880,000 lbs.
Maximum Torque: 88,412 ft./lbs.
One of the top HDD contractors in the world; 34

small, mid-size and large drilling rigs with up to 880,000 lbs. of pullback; installed pipe sizes with diameters up to 60 inches and up to 7,100 feet in length.

Michels Corporation

817 W. Main Street
Brownsville, WI 53006
Tel: (920) 583-3132
Fax: (920) 583-3429
Contact: Robert H. Westphal or Tim McGuire
17 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 60 in.
Maximum Pullback: 1,200,000 lbs.
Maximum Torque: 160,000 ft./lbs.
Tie into an industry leader in horizontal directional drilling. Completed crossings up to 15,000 ft. long and 48-in. diameter; 65 rigs available.

Murphy Brothers

3150 Fifth Ave.
East Moline, IL 61244
Tel: (309) 752-1227
Fax: (309) 752-1281
Contact: Michael D. Murphy
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 550,000 lbs.
Maximum Torque: 65,000 ft./lbs.

Nacap Asia Pacific Sdn Bhd

50-11-09, 11th Floor
Wisma UOA Damansara
50 Jalan Dungun, Damansara Heights
Kuala Lumpur 50490
Malaysia
Tel: +60 (0) 3 2093 7100
Fax: +60 (0) 3 2093 7080
E-mail: nacap@nacap.com.my
Contact: Duncan McCombie
5 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 52 in.
Maximum Pullback: 700,000 lbs.
Maximum Torque: 80,000 ft./lbs.
Nacap Asia Pacific Sdn Bhd specializes in installing crossings and shore approaches for clients in the oil and gas, water, power and telecommunication sectors throughout the Asia Pacific region.

Nacap b.v.

Machlaan 5
9761 TK Eelde
(PO Box 46, 9750 AA Haren)
The Netherlands
Tel: +31 (0)50 599 12 00
Fax: +31 (0)50 599 12 22
E-mail: info@nacap.nl
Contact: Jo Eising
4 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 60 in.
Maximum Torque: 88,000 ft./lbs.
As a specialist in HDD, Nacap offers a complete package of services, from design and work preparation to execution and commissioning.

Nella Drilling

118 Rue De La Gare
St. Henri, Quebec
Canada GOR 3E0
Tel: (418) 882-2002
Fax: (418) 882-2721
E-mail: info@nella-drilling.com
Contact: Gill Tardif
2 rigs offering over 100,000-lbs. pullback
Maximum Pipe Diameter: 48 in.
Maximum Pullback: 750,000 lbs.

Maximum Torque: 92,000 ft./lbs.

Ranger Directional

200 Ida Road
Broussard, LA 70518
Tel: (337) 837-5447
Fax: (337) 837-2409
E-mail: bsimon@rangerdirectional.com
Contact: Boyd Simon

1 rig offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 30 in.

Maximum Pullback: 140,000 lbs.

Maximum Torque: 30,000 ft./lbs.

Ranger consistently places the required product to customer specifications and takes pride in our reputation as a company that efficiently and safely gets the job done.

San Antonio, S.A.

Viamonte 1133, Piso 6
Buenos Aires, Argentina 1053
Tel: 00541-4370500
Fax: 4370-5500

E-mail: lberney@pride-ar.com.ar

Contact: Lucio Berney

1 rig offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 24 in.

Maximum Pullback: 140,000 lbs.

Maximum Torque: 25,000 ft./lbs.

Crossings up to 3,000 ft., 24-in. pipe in Peru, Bolivia, Chile, Argentina, Brazil and Uruguay.

G.B. "Boots" Smith Drilling

PO Drawer 1987
Laurel, MS 39441
Tel: (601) 649-1220
Fax: (601) 649-3533

Contact: Billy Cleveland

1 rig offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.

Maximum Pullback: 400,000 lbs.

Maximum Torque: 57,000 ft./lbs.

Capable of performing all horizontal directional drilling related work with a complete pipe-side

assistance crew and equipment.

Southeast Directional Drilling

2323 South Hardy Dr.
Tempe, AZ 85282
Tel: (480) 222-4440
Fax: (480) 222-4443

E-mail: info@southeastdrilling.com

Contact: Eddie Ramos

4 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 60 in.

Maximum Pullback: 1,400,000 lbs.

Maximum Torque: 140,000 ft./lbs.

56-in. HDD world record holder. Southwest Directional Drilling is capable of drilling in lengths in excess of 6,400 ft. and sizes up to 60-in. diameter pipe.

Spalj Construction Company

Co. Rd. 12
PO Box 428
Deerwood, MN 56444
Tel: (218) 546-6022
Fax: (218) 546-8243

Spring and Associates Inc.

29565 Chilcutt Rd.
Easton, MD 21601

Tel: (410) 822-0485

Fax: (410) 820-9096

E-mail: dtaylor@springgroup.net

Contact: Robert D. Taylor

2 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.

Maximum Pullback: 220,000 lbs.

Maximum Torque: 25,000 ft./lbs.

Microtunneling up to 84"; 1" to 48" HDD bores; on grade sewer with pilot tube system; and steel jack and bore up to 84".

Sunland Directional Drilling

PO Box 1087
Eunice, LA 70534
Tel: (318) 546-0241
Fax: (318) 546-0245

Contact: James Daigle

2 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 40 in.

Maximum Torque: 30,600 ft./lbs.

The Crossing Company

1807 8th Street

Nisku, AB

Canada T9E 7S8

Tel: (780) 955-5051

Fax: (780) 955-5056

E-mail: rmaclean@thecrossingcompany.com

Contact: Ryan MacLean

8 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.

Maximum Pullback: 660,000 lbs.

Maximum Torque: 100,000 ft./lbs.

The Crossing Company offers a complete range of HDD equipment and specializes in complex and technically challenging projects.

UTILX Corp.

PO Box 97009

Kent, WA 98064

Tel: (253) 395-0200

Fax: (253) 395-1040

E-mail: info@utilx.com

Contact: George Taylor

1 rig offering 100,000-lbs. pullback

Maximum Pipe Diameter: 24 in.

Maximum Pullback: 100,000 lbs.

Maximum Torque: 25,000 ft./lbs.

Visser & Smit Hanab BV

Rietgorsweg 6

PO Box 305, 3350

AH Papendrecht, The Netherlands

Tel: (011) 31 78 641 7222

Fax: (011) 31 786 155163

E-mail: hanab@wxshl

Contact: Ringets JA

4 rigs offering over 100,000-lbs. pullback

Maximum Pipe Diameter: 48 in.

Maximum Pullback: 650,000 lbs.

HDD rigs available throughout the year.