



**TT Technologies**

The compact Grundodrill 4X, designed for residential service and “last mile” operations, offers 9,800 pounds of thrust and pullback. The drill features a dual hydrostatic pump system and four- auger stake down system that provides greater stability. The Grundodrill 4X also comes with the exclusive Smart Vice system that performs vice cycling operations automatically. (800) 533- 2078, tttechnologies.com

**Astec Underground**

The Astec EarthPro Series DD-65 MiniMax horizontal directional drill offers power



and versatility in a compact package. This unit is small enough to work among obstacles in existing landscapes or in tight work areas such as against walls or buildings. It’s packed with innovative features and boasts the updated, rounded look common to the larger drills in the Astec line. The DD-65 MiniMax offers 6,000 pounds of thrust/pullback force and is capable of up to 500 foot-pounds of rotary torque. The maximum rotary speed can reach up to 180 rpm. It weighs in at 2,600 pounds without pipe, and is 124 inches long by 35.5 inches wide by 59 inches high. Powered by a 26-horsepower Caterpillar C1.1

diesel engine, the DD-65 has an onboard duplex mud pump that can pump up to five gallons per minute at up to 650 psi. This unit features the dual rack-and-pinion carriage drive capable of speeds up to 150 ft/min. It uses 5-foot drill stem with an outside diameter of 1.75 inches and can carry up to 150 feet of pipe in its rod baskets. The self-propelled DD-65 is capable of speeds up to 1.5 mph and travels on rubber tracks that minimize damage to turf and existing landscape. Rear thrust stabilizers resist rearward movement of the drill when pushing. The patented Es!Lok system is integrated into the drill controls, and there is an Integrated Strike System with a voltage sensor for added safety. An emergency shut down switch is located at the driller’s console. (800) 527-6020, astecunderground.com

**Vermeer**

Powered by a turbo-charged, 47-horsepower Kubota Tier II diesel engine, the D10x14 features 1400 foot-pounds of



rotational torque and 9,600 pounds of thrust/pullback, making it easier to install product efficiently. A small footprint provides increased access to confined areas and heightens machine maneuverability. A width of 45.5 inches allows the machine to maneuver within job sites where work space is confined. The Vermeer D10x14 features a hydraulic vise system, floating head design, dual stakedowns, an automatic rod loader, and 10 foot, 1.66-inch diameter sections of FIRESTICK drill stem to enhance efficiency. A rack and pinion carriage drive eliminates chain maintenance. With the vise controls integrated into the right-side joystick, there’s no need for the operator’s

hand to leave the joystick in order to operate the vise controls. (888) 837-6337, vermeer.com

**Laney Directional Drilling**

The Laney LDD 120/30 Rig 7 is a self-contained medium size horizontal drilling rig capable of using a drill stem that is 30-feet long by 4-inches in diameter. The maximum pipe handling diameter is 20 inches and up to 2,000 feet in length. It can utilize 30,000 foot-pounds of torque and 120,000 foot-pounds of push and pull force. (281) 987-2511, laneydrilling.com



**Central Mine Equipment**

The CME-50DD is a mid-size machine that provides more than 50,000 pounds of thrust and over 9,000 foot-pounds of rotary torque. Features include all hydraulic controls, dual range thrust and rotation, floating carriage, patent



pending open top heavy-duty vise and radio control tramping system. Efficient for both large and small diameter pipe installations, there are no chains that can stretch or break. And since the drill rod is on the same centerline as the rack and pinions, there is less stress on drill rods, the carriage and other components. This high torque/low speed, high speed/low torque system is easily changed from one mode to the other with



the turn of a selector valve. Carriage travel speed and force can be changed from low range to high range as conditions dictate. The pivoting operator's station allows for an improved view of all drilling operations. All hydraulic controls are manually activated or have manual backup. Steering and engine throttle are controlled by wireless radio. The powerful crane features a double extension boom for plenty of reach and has a cable pendant control with manual override. A pressure sensitive lockout system prevents over loading based on boom position. (800) 325-8827, cmeco.com

### Barbco

The Barbco BC100-20SC distributes constant power to meet the simultaneous demands of real-time drilling. The drill is designed with more than adequate down-



hole horsepower for the critical functions of thrust/pullback and rotation. Rugged 10-inch auger stake-downs on 3-inch hex drives anchor the BD100 for secure drill performance. A dual clamp traveling breakout system provides superior drill rod and tool makeup. An optional rod loader automates handling of the 20-foot drill stem. Barbco's 100,000-pound class directional drill is customized to suit your needs. (330) 488-9400, barbco.com

### Horizontal Rig & Equipment

The HRE-460 45-foot trailer-mounted rig features: dual-axle suspension; 460,000 foot-pounds push/pull torque with a rota-



tion speed of approximately 85 rpm; and a rotary torque of 51,000 foot-pounds. The rig employs a 760 horsepower Caterpillar model engine; a Sundstrand hydraulic pump; Fairley Arlon high-pressure filters; and a 10-foot by 8-foot control cab. The power unit is a 20-foot by 5-foot cage skid-mounted with a 400-gallon fuel cell in the skid and a 300-gallon hydraulic tank. (936) 756-9337, hrerigs.com

### Ditch Witch

The JT2020 packs 20,000 pounds of pulling power and the highest ratio of power to size in its class. This well-balanced drill is engineered with a one-step anchoring system for quick setup and a groundbreaking pipe loader system that allows column selection from the operator's station. Rack-and-pinion thrust system provides outstanding power transfer and performance for a wide range of HDD jobs. Versatile drilling fluid system can use low volume and high pressure for steering in harder soil conditions, or high volume and lower pressure



for backreaming. And the entire system is enclosed for better winter operation. Open-top vise wrenches provide a clear view of the drill pipes during makeup and breakout, and the comfortable operator's station is positioned for excellent visibility of all drilling operations. Cruise control simplifies drilling and backreaming by reducing operator effort. And the two-speed carriage decreases cycle time, significantly increasing productivity. A tethered ground drive controller allows the operator to maneuver the unit from a position which provides outstanding power transfer and perfor-

mance for a wide range of HDD jobs. (800) 654-6481, ditchwitch.com

### Robbins HDD

The Robbins HDD maxi product line-up of horizontal directional drills begins with the thrust/pullback capacity of 180,000 pounds on the 18030TMSC. This unit can drill up to 4,500 feet in soft soil or rock. The 18030TMSC is a heavy-duty, self-contained directional drill powered by a 450 horsepower John Deere diesel engine. Rotary torque is 40,000 foot-pounds. The two-speed carriage drive uses a rack and pinion travel system. Optional equipment includes: enclosed operator's cab; full line of mud systems and tooling; safety equipment; drill pipe; and steering tools. (216) 334-1000, robbinshdd.com



### Gallagher Engineering

The Gallagher HDD 200(400) is a 200,000 pound machine that can be upgraded to 400,000 pounds. The machine is powered by a 600 horsepower Cummins engine which drives two 250cc Sunstrand closed loop pumps - one for push/pull and one for rotary. At the rear of one pump there is a 56cc open circuit pump which drives all of the auxiliary items. Gallagher directional drilling machines are user-friendly. The drills give the operator the ability to pre-set pressures in all the necessary areas to help prevent costly mistakes through events such as breakoffs. Optional equipment includes: enclosed operators cabin; full line of mud systems and tooling; and steering tools. +61-7-5537 2811, directionaldrilling.com.au